# CATERPILLAR INC. ANNUAL REPORT 2021

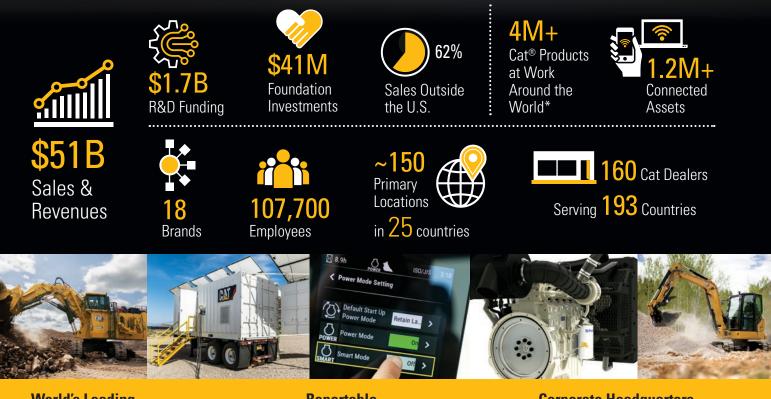
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# CATERPILLAR®

# CORPORATE PROFILE

#### CONNECTING PEOPLE TO WATER, ENERGY, FOOD, WORK, SCHOOL AND ONE ANOTHER – IT'S WHAT OUR PRODUCTS MAKE POSSIBLE.

For nearly 100 years, we've been helping customers build a better, more sustainable world and are committed and contributing to a reduced-carbon future. Our innovative products and services, backed by our global dealer network, provide exceptional value that helps customers succeed.



#### World's Leading Manufacturer of:

- Construction & Mining Equipment
- Off-Highway Diesel & Natural Gas Engines
- Industrial Gas Turbines
- Diesel-Electric Locomotives

#### Reportable Segments

- Construction Industries
- Resource Industries
- Energy & Transportation
- Financial Products

**Corporate Headquarters** Deerfield, Illinois

Stock Symbol CAT

22 Years on the Dow Jones Sustainability Index

28 Years as a Dividend Aristocrat

# CHAIRMAN & CEO MESSAGE

# 66

*We remain committed to our strategy for long-term profitable growth, which is yielding strong results, and to living our Values in Action.* 

# DEAR FELLOW SHAREHOLDERS,

# Throughout 2021, Caterpillar's dedicated global team achieved strong results in a challenging and dynamic operating environment. They worked to meet strong customer demand while remaining focused on executing our strategy for long-term profitable growth.

We delivered 2021 adjusted operating profit margin and Machinery, Energy & Transportation (ME&T) free cash flow consistent with the long-term targets we set at our 2019 Investor Day while continuing to invest in expanded offerings and services. Our strong free cash flow enabled us to return \$5 billion to shareholders through dividends and share repurchases. Our team's safety-first mindset contributed to achieving our best year on record for employee safety for the third year in a row.

We continued our status as a Dividend Aristocrat, marking the 28th consecutive year we have paid a higher annual dividend.



#### **EXECUTING OUR ENTERPRISE STRATEGY**

Our strategy has served us well since its launch in 2017, as demonstrated by our continued strong results.

In 2021, services sales grew 17% to \$19 billion over 2020, benefitting from investments in our digital capabilities and expanded commercial offerings. In collaboration with our dealers, we are working closely with customers to help them reduce total owning and operating costs. We are leveraging data and analytics from our more than 1.2 million connected assets to proactively provide customers with insights and tools to manage their fleets and operations for increased productivity.

# CONTRIBUTING TO A BETTER, MORE SUSTAINABLE WORLD

Caterpillar supports global efforts to mitigate climate change, and sustainability is an important element of our long-term strategy for profitable growth. We believe the energy transition represents an opportunity for Caterpillar to create shareholder value while contributing to a reduced-carbon future. In 2021, Caterpillar and our customers announced a number of projects to contribute to that lower-carbon future. A few are highlighted on page 6 of this report. Our 2021 Sustainability Report provides a more detailed look at our accomplishments. We responded to needs worldwide through the Caterpillar Foundation – including a record number of natural disasters, continued COVID-19 assistance and an increase in the number of communities receiving contributions. This includes support for both urgent and long-term needs of humanitarian crises.

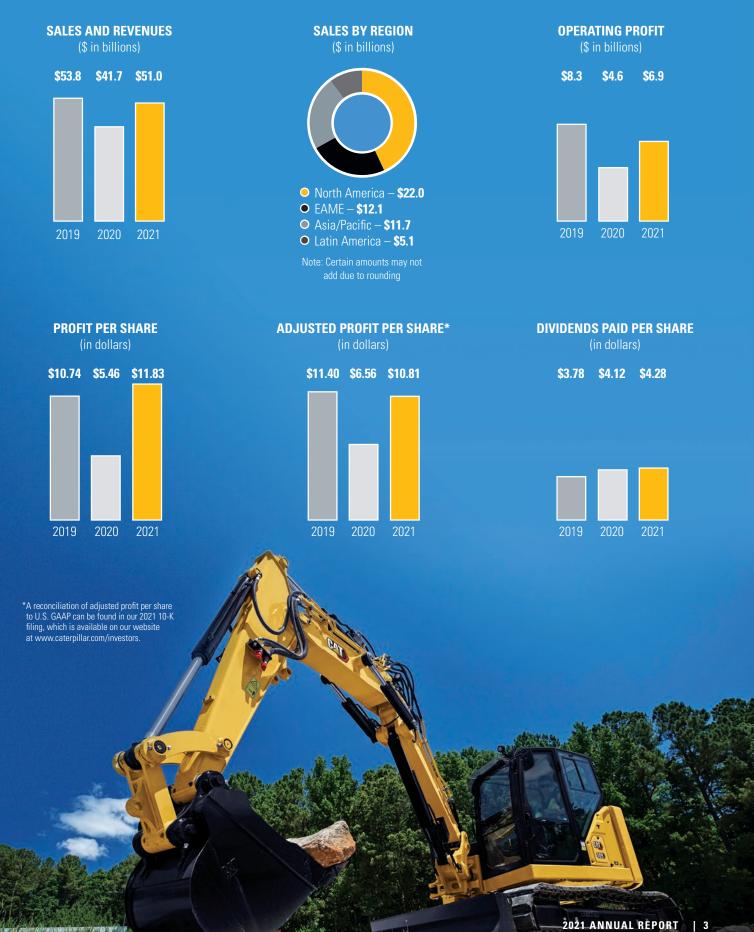
We amplified our commitment to diversity and inclusion with our first Diversity and Inclusion Report and first-ever Diversity & Inclusion Conference. We value diverse perspectives and strive to ensure our global team reflects the many communities and customers we serve around the world.

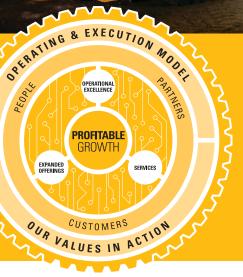
We remain committed to our strategy for long-term profitable growth, which is yielding strong results, and to living our Values in Action. We are excited about the tremendous opportunities ahead as our dedicated employees provide the solutions that help our customers build a better, more sustainable world.

lin

Jim Umpleby Chairman and CEO

### 2021 PERFORMANCE AT A GLANCE





# **EXECUTING** OUR STRATEGY

In 2021, we continued to execute our strategy for long-term profitable growth while striving to meet strong customer demand. The three core elements of the strategy remain: services, expanded offerings and operational excellence. We invested in services and digital technologies, as well as electrification, autonomous and alternative fuel product capabilities, despite the challenging environment while meeting Investor Day targets.

#### **SERVICES SALES REACH A NEW HIGH**

Ensuring an easy-to-buy, easy-to-own customer experience through eCommerce, Customer Value Agreements, repair options and rebuilds drove year-over-year double-digit services sales growth in 2021. Leveraging dealer data and telematics data from our more than 1.2 million connected assets, we generate insights by using advanced analytics and machine learning to deliver valueadded services that help our customers improve safety, minimize unplanned downtime and maximize productivity. These significant achievements position us to realize our aspirational goal of doubling services sales to \$28 billion by 2026.

#### INVESTOR DAY TARGETS: COMMITTED AND ACHIEVED

In 2021, we met our target for adjusted operating profit margin. We also met our target for free cash flow for Machinery, Energy and Transportation (ME&T). Our 2021 adjusted operating profit margin of 13.7% was achieved while investing in new product launches, services and sustainability. Meanwhile, ME&T generated \$6 billion in free cash flow, in line with our targets.













#### SUPPORT FOR CUSTOMERS' ENERGY TRANSITION

Customers around the world are looking to lower their carbon footprint, and Caterpillar is providing the products, technologies and services to help them achieve their climate-related objectives. In 2021, we shared several announcements that further demonstrate our commitment to supporting our customers' sustainability goals. These announcements include a collaboration to fully power a customer's mine with an all-electric fleet of machines for a zeroemission site, key collaboration agreements to explore hydrogen fuel cell backup power for data centers, and hydrogen fuel cell power for line-haul locomotives. We also announced a collaboration with a data center customer to provide stand-by power utilizing engines capable of running on 100% hydrotreated vegetable oil (HVO) renewable fuel and any blend level with diesel.

#### LEVERAGING LEAN AND CUTTING-EDGE TECHNOLOGY TO TRANSFORM PARTS DISTRIBUTION

Caterpillar has continued to invest in modernizing our parts distribution network, implementing automated and autonomous solutions that work together to densify our existing footprint and form state-of-the-art, efficient ecosystems within our distribution centers across the globe. By utilizing Lean principles, deploying sustainable solutions and investing in technology, we are enhancing safety and enabling a streamlined distribution model to support customers and profitable services growth.

#### AN IMPRESSIVE AUTONOMY MILESTONE

Autonomous technology continues to revolutionize mining by delivering new productivity levels for customers and enhancing safety. In 2021, we surpassed 500 autonomous trucks using Cat Command in operation at 18 sites on three continents. With more than 4 billion tonnes of material moved with no injuries, there is no doubt about the efficacy of this technology. We're not stopping there, as we scale this technology in construction, quarry and aggregates, and beyond to support customer safety and productivity goals.

#### **OUR SAFEST YEAR ON RECORD**

We relentlessly strive to ensure our workforce returns home safely every day, and 2021 marked the third consecutive year that we achieved our best safety performance on record. This record underscores a deeply ingrained safety culture where every individual is accountable for their safety and those around them.

# **HELPING OUR CUSTOMERS** ACHIEVE THEIR CLIMATE-RELATED GOALS

#### Sustainability is an important part of Caterpillar's history and integral to our future. It is one of our five Values in Action and a critical element of our strategy for longterm profitable growth.

Our longstanding commitment to sustainability inspires us to improve the quality of the environment and the communities where we live and work. We provide products and services that help our customers fulfill society's basic needs – such as shelter, clean water, sanitation, food and reliable power – in a sustainable way.

#### **2021 HIGHLIGHTS**

Our actions reflect our commitment to further reducing Caterpillar's greenhouse gas emissions while helping our customers meet their climate-related objectives.

- Launched seven 2030 sustainability goals
- Appointed our first Chief Sustainability & Strategy Officer
- Announced environmental, social and governance (ESG) performance will be incorporated into the 2022 incentive plan for executives
- Committed to utilize the Task Force on Climate-Related Financial Disclosures (TCFD) framework to further enhance our sustainability reporting beginning in 2023

To learn more about our sustainability journey and 2021 progress, read our Sustainability Report on caterpillar.com/sustainability.



#### **ENERGY, FUEL ECONOMY & EMISSIONS**

We are committed to a reduced-carbon future. We demonstrate this in many ways, including our significant progress in reducing greenhouse gas (GHG) emissions from our operations and our continued investment in new products, technologies and services to help our customers achieve climate-related objectives.



#### REMANUFACTURING

Remanufacturing and rebuild options deliver multiple sustainability benefits and help Caterpillar contribute to the circular economy. Through these activities, we recycle millions of pounds of end-of-life products annually. Because we are in the business of returning end-of-life components to like-new condition, we reduce waste and minimize the need for raw material, energy and water associated with producing new parts.



#### PEOPLE

We strive to create an environment where our employees can reach their full potential. Our values-driven culture reflects our commitment to the health, safety, integrity, excellence, teamwork and inclusivity of the diverse backgrounds and experiences of our employees. Our values unite us across cultural, language, geographic and business boundaries, making us a stronger team. We invite you to learn more about our progress by visiting **caterpillar.com/diversity**.



#### **MATERIAL PROCUREMENT**

As the world's leading manufacturer of construction and mining equipment, off-highway diesel and natural gas engines, industrial gas turbines and diesel-electric locomotives, Caterpillar responsibly sources the raw materials used to build our products.



#### PHILANTHROPY

In 2021, the Caterpillar Foundation invested more than \$41 million in helping improve the lives of people in more than 40 countries around the world. Together with the help of Foundation partners, we impacted the lives of more than 3 million people, restored 530,000 acres and removed, sequestered or captured more than 2.5 million short tons of carbon.

# **2030 SUSTAINABILITY GOALS**



#### **Operations Energy & Emissions 1, 2**

We have set a science-based Scope 1 and 2 goal to reduce absolute greenhouse gas emissions from our operations by **30%** from 2018 to 2030.



#### **Operations Water**<sup>2</sup>

Implement water management strategies at **100%** of facilities located in water high-risk areas by 2030.



#### **Operations Waste**<sup>2</sup>

Reduce landfill intensity by 50% from 2018 to 2030.



#### Customer Safety

Provide leadership in the safety of people who work in, on and around our products.



#### Product Emissions & Energy Efficiency 1, 2

**100%** of Caterpillar's new products through 2030 will be more sustainable than the previous generation through collaborating with customers, reduced waste, improved design for rebuild/remanufacturing, lower emissions or improved efficiency.



#### Remanufacturing <sup>1, 2</sup>

Increase sales and revenues from remanufacturing offerings by **25%** from 2018 to 2030.



#### Employee Health & Safety 1

We aspire to prevent all injuries and will further our industry-leading safety results by reducing Recordable Injury Frequency (RIF) by **50%** from 2018 to 2030.

# END-MARKET HIGHLIGHTS

#### CONSTRUCTION INDUSTRIES



#### **RESOURCE INDUSTRIES**



#### **ENERGY & TRANSPORTATION**



#### **Highlights and Market Dynamics**

- Double-digit growth across all regions in 2021
- Strong demand from residential construction in North America
- · Growing infrastructure spending in key regions
- Investment continued in expanded offerings to deliver differentiated customer solutions such as our XE, GC and GX models
- Growth in services driven by customer-focused solutions such as Customer Value Agreements, Prioritized Service Events and customized repair and rebuild offerings
- Expansion of Cat Command technologies to hydraulic excavators and medium dozers, providing customers with enhanced safety and greater productivity by allowing operators to quickly and easily switch between machines

#### **Highlights and Market Dynamics**

- Double-digit growth across all regions in 2021
- Strong commodity pricing and the average fleet age drove mining demand
- Strong demand in heavy construction and quarry and aggregates
- Collaboration agreements signed with customers to support their sustainability objectives; including zero-exhaust emissions machines enabled by key technologies such as electrification and automation
- Deployment of the world's first fully autonomous water truck
- Growth in services through solutions such as Caterpillar Mining Performance Solutions (MPS), which uses data to drive performance gain

# \$22.1B\*

**Revenue** 

Operating Profit \$3.7B

## Revenue \$10.0B\*

Operating Profit \$1.3B

#### **Highlights and Market Dynamics**

- Demand increased across all applications, including double-digit growth in Industrial and Oil & Gas
- Services growth continued to be a focus, including the strategic acquisition of Weir Oil & Gas
- Availability of designed-to-order generator sets capable of operating 100% on hydrogen
- Acquisition of CarbonPoint Solutions, which added carbon capture capability to our oil & gas and electric power solutions
- Key collaboration agreements announced with Microsoft and Ballard to explore hydrogen fuel cell backup power for data centers and with Chevron and BNSF to explore hydrogen fuel cell power for line-haul locomotives

Revenue \$20.3B\*

Operating Profit \$2.8B

#### UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549



## ANNUAL REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the fiscal year ended December 31, 2021

TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT OF 1934

For the transition period from \_\_\_\_\_\_ to \_\_\_\_\_

Commission File No. 1-768

# CATERPILLAR INC.

(Exact name of Registrant as specified in its charter)

#### DELAWARE

(State or other jurisdiction of incorporation)

37-0602744

(IRS Employer I.D. No.)

510 Lake Cook Road, Suite 100, Deerfield, Illinois

(Address of principal executive offices)

**60015** (Zip Code)

(224) 551-4000

Registrant's telephone number, including area code

SECURITIES REGISTERED PURSUANT TO SECTION 12(B) OF THE ACT:											
Title of each class Trading Symbol (s) Name of each exchange on which registered											
Common Stock (\$1.00 par value)	CAT	New York Stock Exchange <sup>(1)</sup>									
8% Debentures due February 15, 2023	CAT23	New York Stock Exchange									
5.3% Debentures due September 15, 2035	CAT35	New York Stock Exchange									

(1) In addition to the New York Stock Exchange, Caterpillar common stock is also listed on stock exchanges in France and Switzerland.

#### SECURITIES REGISTERED PURSUANT TO SECTION 12(g) OF THE ACT:

NONE

Indicate by check mark	YES	NO
<ul> <li>Indicate by check mark if the Registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act.</li> </ul>		
<ul> <li>Indicate by check mark if the Registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act.</li> </ul>		<b>~</b>
<ul> <li>Indicate by check mark whether the Registrant (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the Registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days.</li> </ul>		
<ul> <li>Indicate by check mark whether the Registrant has submitted electronically every Interactive Data File required to be submitted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit such files).</li> </ul>		
<ul> <li>Indicate by check mark whether the Registrant is a large accelerated filer, an accelerated filer, a non-accelerated or emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller re growth company" in Rule 12b-2 of the Exchange Act. (Check one):</li> </ul>		0 1 /
Large accelerated filer 🗹 Accelerated filer 🔲 Non-accelerated filer 💭 Smaller reporting company 💭	Emerging growt	h company 🗖
• If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.		
<ul> <li>Indicate by check mark whether the registrant has filed a report on and attestation to its management's assessment of the effectiveness of its internal control over financial reporting under Section 404(b) of the Sarbanes-Oxley Act (15 U.s.C. 7262(b)) by the registered public accounting firm that prepared or issued its audit report.</li> </ul>		
• Indicate by check mark whether the Registrant is a shell company (as defined in Rule 12b-2 of the Exchange Act).		
As of June 30, 2021, there were 547,471,467 shares of common stock of the Registrant outstanding, a	nd the aggregate	market value

of the voting stock held by non-affiliates of the Registrant (assuming only for purposes of this computation that directors and executive officers may be affiliates) was approximately \$118.1 billion.

As of December 31, 2021, there were 535,888,051 shares of common stock of the Registrant outstanding.

#### DOCUMENTS INCORPORATED BY REFERENCE

Portions of the documents listed below have been incorporated by reference into the indicated parts of this Form 10-K, as specified in the responses to the item numbers involved.

Part III 2022 Annual Meeting Proxy Statement (Proxy Statement) to be filed with the Securities and Exchange Commission (SEC) within 120 days after the end of the fiscal year.

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# PART I

#### ITEM 1. Business.

#### <u>General</u>

Originally organized as Caterpillar Tractor Co. in 1925 in the State of California, our company was reorganized as Caterpillar Inc. in 1986 in the State of Delaware. As used herein, the term "Caterpillar," "we," "us," "our" or "the company" refers to Caterpillar Inc. and its subsidiaries unless designated or identified otherwise.

#### <u>Overview</u>

With 2021 sales and revenues of \$50.971 billion, Caterpillar is the world's leading manufacturer of construction and mining equipment, off-highway diesel and natural gas engines, industrial gas turbines and diesel-electric locomotives. The company principally operates through its three primary segments - Construction Industries, Resource Industries and Energy & Transportation - and also provides financing and related services through its Financial Products segment. Caterpillar is also a leading U.S. exporter. Through a global network of independent dealers and direct sales of certain products, Caterpillar builds long-term relationships with customers around the world.

Currently, we have five operating segments, of which four are reportable segments and are described below.

#### Categories of Business Organization

- Machinery, Energy & Transportation Caterpillar Inc. and its subsidiaries, excluding Financial Products. Machinery, Energy & Transportation information relates to the design, manufacturing and marketing of our products.
- Financial Products Our finance and insurance subsidiaries, primarily Caterpillar Financial Services Corporation (Cat Financial) and Caterpillar Insurance Holdings Inc. (Insurance Services). Financial Products information relates to the financing to customers and dealers for the purchase and lease of Caterpillar and other equipment.

Other information about our operations in 2021, including certain risks associated with our operations, is included in Part II, Item 7 "Management's Discussion and Analysis of Financial Condition and Results of Operations."

#### **Construction Industries**

Our Construction Industries segment is primarily responsible for supporting customers using machinery in infrastructure, forestry and building construction. The majority of machine sales in this segment are made in the heavy and general construction, rental, quarry and aggregates markets and mining.

The nature of customer demand for construction machinery varies around the world. Customers in developing economies often prioritize purchase price in making their investment decisions, while customers in developed economies generally weigh productivity and other performance criteria that contribute to lower owning and operating costs over the lifetime of the machine. To meet customer expectations in developing economies, Caterpillar developed differentiated product offerings that target customers in those markets, including our SEM brand machines. We believe that these customer-driven product innovations enable us to compete more effectively in developing economies. The majority of Construction Industries' research and development spending in 2021 focused on the next generation of construction machines.

The competitive environment for construction machinery is characterized by some global competitors and many regional and specialized local competitors. Examples of global competitors include CASE (part of CNH Industrial N.V.), Deere Construction & Forestry (part of Deere & Company), Doosan Infracore Co., Ltd., Hitachi Construction Machinery Co., Ltd., Hyundai Construction Equipment Co., Ltd., Hyundai Doosan Infracore Co., Ltd. and Hyundai Construction Equipment Co., Ltd. (both part of Hyundai Heavy Industries Holdings Co.), J.C. Bamford Excavators Ltd., Kobelco Construction Machinery (part of Kobe Steel, Ltd), Komatsu Ltd., Kubota Farm & Industrial Machinery (part of Kubota Corporation), and Volvo Construction Equipment (part of the Volvo Group). As an example of regional and local competitors, our competitors in China also include Guangxi LiuGong Machinery Co., Ltd., Longking Holdings Ltd., Sany Heavy Industry Co., Ltd., XCMG Construction Machinery Co., Ltd., Shandong Lingong Construction Machinery Co., Ltd. (SDLG, part of the Volvo Group) and Shantui Construction Machinery Co., Ltd., (part of Shandong Heavy Industry Group Co.). Each of these companies has varying product lines that compete with Caterpillar products, and each has varying degrees of regional focus.

The Construction Industries product portfolio includes the following machines and related parts and work tools:

- asphalt pavers
- backhoe loaders
- compactors
- cold planers
- compact track and multi-terrain loaders
- mini, small, medium and large excavators
- forestry excavators

- motorgraders
- pipelayers
- road reclaimers
- site prep tractors
- skid steer loaders
- telehandlers

- small and medium track-type tractors
- track-type loaders
- wheel excavators
- compact, small and medium wheel loaders
- utility vehicles

#### **Resource Industries**

The Resource Industries segment is primarily responsible for supporting customers using machinery in mining and heavy construction and quarry and aggregates. Caterpillar offers a broad product range and services to deliver comprehensive solutions for our customers. We develop and manufacture high productivity equipment for both surface and underground mining operations around the world, as well as provide drivetrains, hydraulic systems, electronics and software for Caterpillar machines and engines. Our equipment is used to extract and haul copper, iron ore, coal, oil sands, aggregates, gold and other minerals and ores, as well as a variety of heavy construction applications. In addition to equipment, Resource Industries also develops and sells technology products and services to provide customers fleet management systems, equipment management analytics and autonomous machine capabilities.

Customers in most markets place an emphasis on equipment that is highly productive, reliable and provides the lowest total cost of ownership over the life of the equipment. In some developing markets, customers often prioritize purchase price in making their investment decisions. We believe our ability to control the integration and design of key machine components represents a competitive advantage. Our research and development efforts remain focused on providing customers the lowest total cost of ownership enabled through the highest quality, most productive products and services in the industry.

The competitive environment for Resource Industries consists of a few larger global competitors that compete in several of the markets that we serve and a substantial number of smaller companies that compete in a more limited range of products, applications, and regional markets. Our global surface competitors include Deere Construction & Forestry (part of Deere & Company), Epiroc AB, Hitachi Construction Machinery Co., Ltd., Komatsu Ltd., Liebherr-International AG, Sandvik AB, and Volvo Construction Equipment. Our global underground competitors include Epiroc AB, Komatsu Ltd., and Sandvik AB.

The Resource Industries product portfolio includes the following machines and related parts and services

- electric rope shovels
- draglines
- hydraulic shovels
- rotary drills
- hard rock vehicles
- large track-type tractors
- large mining trucks

- longwall miners
- large wheel loaders
- off-highway trucks
- articulated trucks
- wheel tractor scrapers
- wheel dozers
- fleet management

#### landfill compactors

- soil compactors
- machinery components
- autonomous ready vehicles and solutions
- select work tools
- safety services and mining performance solutions

#### Energy & Transportation

Our Energy & Transportation segment supports customers in oil and gas, power generation, marine, rail and industrial applications, including Caterpillar machines. The product and services portfolio includes reciprocating engines, generator sets, integrated systems and solutions, turbines and turbine-related services, the remanufacturing of Caterpillar engines and components and remanufacturing services for other companies, diesel-electric locomotives and other rail-related products and services and product support of on-highway vocational trucks for North America.

Regulatory emissions standards require us to continue to make investments as new products and new regulations are introduced. Ongoing compliance with these regulations remains a focus. Emissions compliance in developing markets is complex due to rapidly evolving and unique requirements where enforcement processes can often vary. We employ robust product development, manufacturing processes and testing to help us comply with these regulations.

The competitive environment for reciprocating engines in marine, oil and gas, industrial and electric power generation systems along with turbines in oil and gas and electric power generation consists of a few larger global competitors that compete in a variety of markets that Caterpillar serves, and a substantial number of smaller companies that compete in a limited-size product range, geographic region and/or application. Principal global competitors include Cummins Inc., Deutz AG, INNIO Jenbacher GmbH, Rolls-Royce Power Systems and Wärtsilä Corp. Other competitors, such as Fiat Industrial SpA (Iveco Group), GE Power, Kawasaki Heavy Industries Energy Solutions & Marine Engineering, MAN Energy Solutions (VW), Mitsubishi Heavy Industries Ltd., Siemens Energy Global GmbH, Volvo Penta AB, Weichai Power Co., Ltd., and other emerging market competitors compete in certain markets in which Caterpillar competes. An additional set of competitors, including Aggreko plc, Baker Hughes Co., Generac Holdings, Kohler Power Systems, and others, are primarily packagers who source engines and/or other components from domestic

and international suppliers and market products regionally and internationally through a variety of distribution channels. In railrelated businesses, our global competitors include Alstom SA, CRRC Corp., LTD., The Greenbrier Companies, Siemens Mobility, Voestalpine AG, Vossloh AG and Wabtec Freight. We also compete with other companies on a more limited range of products, services and/or geographic regions.

The Energy & Transportation portfolio includes the following products and related parts:

- Reciprocating engine powered generator sets
- Reciprocating engines and integrated systems and solutions supplied to the industrial industry as well as Caterpillar machinery
- Integrated systems and solutions used in the electric power generation industry
- Turbines, centrifugal gas compressors and related services
- Reciprocating engines and integrated systems and solutions for the marine and oil and gas industries
- Remanufactured reciprocating engines and components
- Diesel-electric locomotives and components and other rail-related products and services

#### **Financial Products Segment**

The business of our Financial Products Segment is primarily conducted by Cat Financial, Insurance Services and their respective subsidiaries and affiliates. Cat Financial is a wholly owned finance subsidiary of Caterpillar Inc. and it provides retail and wholesale financing to customers and dealers around the world for Caterpillar products and services, as well as financing for vehicles, power generation facilities and marine vessels that, in most cases, incorporate Caterpillar products. Retail financing is primarily comprised of installment sale contracts and other equipment-related loans, working capital loans, finance leases and operating leases. Wholesale financing to Caterpillar dealers consists primarily of inventory and rental fleet financing. In addition, Cat Financial purchases short-term wholesale trade receivables from Caterpillar. The various financing plans offered by Cat Financial are designed to support sales of Caterpillar products and services and generate financing income for Cat Financial. A significant portion of our activity is conducted in North America and we have additional offices and subsidiaries in Latin America, Asia/Pacific, Europe, Africa and the Middle East.

For over 40 years, Cat Financial has been providing financing for Caterpillar products, contributing to our knowledge of asset values, industry trends, financing structures and customer needs.

In certain instances, Cat Financial's operations are subject to supervision and regulation by state, federal and various foreign governmental authorities, and may be subject to various laws and judicial and administrative decisions imposing various requirements and restrictions which, among other things, (i) regulate credit granting activities and the administration of loans, (ii) establish maximum interest rates, finance charges and other charges, (iii) require disclosures to customers, (iv) govern secured transactions, (v) set collection, foreclosure, repossession and other trade practices and (vi) regulate the use and reporting of information related to a borrower's credit experience. Cat Financial's ability to comply with these and other governmental and legal requirements and restrictions affects its operations.

Cat Financial's retail loans (totaling 48 percent\*) include:

- Loans that allow customers and dealers to use their Caterpillar equipment or other assets as collateral to obtain financing.
- Installment sale contracts, which are equipment loans that enable customers to purchase equipment with a down payment or trade-in and structure payments over time.

Cat Financial's retail leases (totaling 36 percent\*) include:

- Finance (non-tax) leases, where the lessee for tax purposes is considered to be the owner of the equipment during the term of the lease, that either require or allow the customer to purchase the equipment for a fixed price at the end of the term.
- Tax leases that are classified as either operating or finance leases for financial accounting purposes, depending on the characteristics of the lease. For tax purposes, we are considered the owner of the equipment.
- Governmental lease-purchase plans in the U.S. that offer low interest rates and flexible terms to qualified non-federal government agencies.

Cat Financial also purchases short-term receivables from Caterpillar (15 percent\*).

Cat Financial's wholesale loans and leases (1 percent\*) include inventory/rental programs, which provide assistance to dealers by financing their new Caterpillar inventory and rental fleets.

Cat Financial operates in a highly competitive environment, with financing for users of Caterpillar equipment and services available through a variety of sources, principally commercial banks and finance and leasing companies. Our competitors include Wells Fargo Equipment Finance Inc., Banc of America Leasing & Capital LLC, BNP Paribas Leasing Solutions Limited, Australia and New Zealand Banking Group Limited, Société Générale S.A. and various other banks and finance companies. In addition, many of the manufacturers that compete with Caterpillar also own financial subsidiaries, such as John Deere Capital Corporation, Komatsu Financial L.P., Volvo Financial Services and Kubota Credit Corporation, which utilize many below-market interest rate programs (funded by the manufacturer) to support machine sales. We and Caterpillar work together to provide a broad array of financial merchandising programs to compete around the world.

Cat Financial's financial results are largely dependent upon the ability of Caterpillar dealers to sell equipment and customers' willingness to enter into financing or leasing agreements. Cat Financial is also affected by, among other things, the availability of funds from its financing sources, its cost of funds relative to its competitors and general economic conditions such as inflation and market interest rates.

Cat Financial has a match-funding policy that addresses interest rate risk by aligning the interest rate profile (fixed or floating rate and duration) of its debt portfolio with the interest rate profile of its receivables portfolio within predetermined ranges on an ongoing basis. In connection with that policy, Cat Financial uses interest rate derivative instruments to modify the debt structure to match assets within the receivables portfolio. This matched funding reduces the volatility of margins between interest-bearing assets and interest-bearing liabilities, regardless of which direction interest rates move. For more information regarding match funding, please see Note 4 — "Derivative financial instruments and risk management" of Part II, Item 8 "Financial Statements and Supplementary Data." See also the risk factors associated with our financial products business included in Item 1 A. of this Form 10-K.

In managing foreign currency risk for Cat Financial's operations, the objective is to minimize earnings volatility resulting from conversion and the remeasurement of net foreign currency balance sheet positions, and future transactions denominated in foreign currencies. This policy allows the use of foreign currency forward, option and cross currency contracts to offset the risk of currency mismatch between the assets and liabilities, and exchange rate risk associated with future transactions denominated in foreign currencies.

Cat Financial provides financing only when certain criteria are met. Credit decisions are based on a variety of credit quality factors including prior payment experience, customer financial information, credit ratings, loan-to-value ratios and other internal metrics. Cat Financial typically maintains a security interest in retail-financed equipment and requires physical damage insurance coverage on financed equipment. Cat Financial finances a significant portion of Caterpillar dealers' sales and inventory of Caterpillar equipment throughout the world. Cat Financial's competitive position is improved by marketing programs offered in conjunction with Caterpillar and/or Caterpillar dealers. Under these programs, Caterpillar, or the dealer, funds an amount at the outset of the transaction, which Cat Financial then recognizes as revenue over the term of the financing. We believe that these marketing programs provide Cat Financial a significant competitive advantage in financing Caterpillar products.

Caterpillar Insurance Company, a wholly owned subsidiary of Caterpillar Insurance Holdings Inc., is a U.S. insurance company domiciled in Missouri and primarily regulated by the Missouri Department of Insurance. Caterpillar Insurance Company is licensed to conduct property and casualty insurance business in 50 states, the District of Columbia and Guam, and as such, is also regulated in those jurisdictions. The State of Missouri acts as the lead regulatory authority and monitors Caterpillar Insurance Company's financial status to ensure that it is in compliance with minimum solvency requirements, as well as other financial ratios prescribed by the National Association of Insurance Commissioners. Caterpillar Insurance Company is also licensed to conduct insurance business

<sup>\*</sup> Indicates the percentage of Cat Financial's total portfolio at December 31, 2021. We define total portfolio as total finance receivables (net of unearned income and allowance for credit losses) plus equipment on operating leases, less accumulated depreciation. For more information on the above and Cat Financial's concentration of credit risk, please refer to Note 7 — "Cat Financial Financial Financial Financial Financial Statements and Supplementary Data."

through a branch in Zurich, Switzerland and, as such, is regulated by the Swiss Financial Market Supervisory Authority.

Caterpillar Life Insurance Company, a wholly owned subsidiary of Caterpillar, is a U.S. insurance company domiciled in Missouri and primarily regulated by the Missouri Department of Insurance. Caterpillar Life Insurance Company is licensed to conduct life and accident and health insurance business in 26 states and the District of Columbia and, as such, is also regulated in those jurisdictions. The State of Missouri acts as the lead regulatory authority and it monitors the financial status to ensure that it is in compliance with minimum solvency requirements, as well as other financial ratios prescribed by the National Association of Insurance Commissioners. Caterpillar Life Insurance Company provides reinsurance coverage to Caterpillar Insurance Company. Specifically, Caterpillar Life Insurance Company has entered into a reinsurance agreement with Caterpillar Insurance Company, assuming 100% of the risk of an Accident and Health Stop Loss Insurance Policy to cover a Caterpillar Voluntary Employees' Benefits Association (VEBA) Trust for medical losses sustained by a select group of Caterpillar retirees and dependents.

Caterpillar Insurance Co. Ltd., a wholly owned subsidiary of Caterpillar Insurance Holdings Inc., is a captive insurance company domiciled in Bermuda and regulated by the Bermuda Monetary Authority. Caterpillar Insurance Co. Ltd. holds a Class 2 license (as defined by the Bermuda Insurance Amendment Act of 1995), which primarily insures its parent and affiliates. Caterpillar Insurance Co.Ltd. also provides reinsurance to Caterpillar Insurance Company under quota share reinsurance agreements for contractual liability and contractors' equipment programs in the United States. Finally, Caterpillar Insurance Co. Ltd. holds a Class B license to provide life and disability reinsurance covering Caterpillar Inc.'s International employee benefits program. The Bermuda Monetary Authority is responsible for monitoring Caterpillar Insurance Co. Ltd.'s compliance with solvency requirements, and requires an Annual Financial Filing for this purpose.

Caterpillar Product Services Corporation (CPSC), a wholly owned subsidiary of Caterpillar, is a warranty company domiciled in Missouri. CPSC previously conducted a machine extended service contract program in Germany and France by providing machine extended warranty reimbursement protection to dealers in Germany and France. The program was discontinued effective January 1, 2013, though CPSC continues to provide extended warranty reimbursement protection under existing contracts.

Caterpillar Insurance Services Corporation, a wholly owned subsidiary of Caterpillar Insurance Holdings Inc., is a Tennessee insurance agency licensed in all 50 states, the District of Columbia and Guam. It provides insurance services for all property and casualty and life and health lines of business.

Caterpillar's insurance group provides protection and service for claims under the following programs:

- Contractual Liability Insurance to insure certain service contract obligations of Caterpillar and its affiliates, Caterpillar dealers and original equipment manufacturers (OEMs).
- Cargo reinsurance for the worldwide cargo risks of Caterpillar products.
- Contractors' Equipment Physical Damage Insurance for equipment manufactured by Caterpillar or OEMs, which is leased, rented or sold by third party dealers to customers.
- General liability, employer's liability, auto liability and property insurance for Caterpillar.
- Life, health and disability reinsurance for Caterpillar's international employee benefits program (non-U.S.).

- Reinsurance to cover VEBA Trust for medical claims of certain Caterpillar retirees and dependents.
- Brokerage and insurance services for property and casualty and life and health business.

#### Competitive Environment

Caterpillar products and services are sold worldwide into a variety of highly competitive markets. In all markets, we compete on the basis of product performance, customer service, quality and price. From time to time, the intensity of competition results in price discounting in a particular industry or region. Such price discounting puts pressure on margins and can negatively impact operating profit. Outside the United States, certain competitors enjoy competitive advantages inherent to operating in their home countries or regions.

#### Raw Materials and Component Products

We source our raw materials and manufactured components from suppliers both domestically and internationally. These purchases include unformed materials and rough and finished parts. Unformed materials include a variety of steel products, which are then cut or formed to shape and machined in our facilities. Rough parts include various sized steel and iron castings and forgings, which are machined to final specification levels inside our facilities. Finished parts are ready to assemble components, which are made either to Caterpillar specifications or to supplier developed specifications. We machine and assemble some of the components used in our machines, engines and power generation units and to support our after-market dealer parts sales. We also purchase various goods and services used in production, logistics, offices and product development processes. We maintain global strategic sourcing models to meet our global facilities' production needs while building long-term supplier relationships and leveraging enterprise spend. We expect our suppliers to maintain, at all times, industry-leading levels of quality and the ability to timely deliver raw materials and component products for our machine and engine products. However, in some cases, increases in demand or supply chain disruptions have led to parts and components constraints across some products. We use a variety of agreements with suppliers to protect our intellectual property and processes to monitor and mitigate risks of the supply base causing a business disruption. The risks monitored include supplier financial viability, the ability to increase or decrease production levels, business continuity, quality and delivery.

#### Patents and Trademarks

We own a number of patents and trademarks, which have been obtained over a period of years and relate to the products we manufacture and the services we provide. These patents and trademarks are generally considered beneficial to our business. We do not regard our business as being dependent upon any single patent or group of patents.

#### Order Backlog

The dollar amount of backlog believed to be firm was approximately \$23.1 billion at December 31, 2021 and \$14.2 billion at December 31, 2020. Compared with year-end 2020, the order backlog increased across the three primary segments, with the largest increase in Energy & Transportation. Of the total backlog at December 31, 2021, approximately \$4.3 billion was not expected to be filled in 2022.

#### Dealers and Distributors

We distribute our machines principally through a worldwide organization of dealers (dealer network), 44 located in the United States and 116 located outside the United States, serving 193 countries. We sell reciprocating engines principally through the dealer network and to other manufacturers for use in products. We also sell some of the reciprocating engines manufactured by our subsidiary Perkins Engines Company Limited through its worldwide network of 90 distributors covering 171 countries. We sell the FG Wilson branded electric power generation systems through its worldwide network of 110 distributors covering 109 countries. We also sell some of the large, medium speed reciprocating engines under the MaK brand through a worldwide network of 20 distributors covering 130 countries.

Our dealers do not deal exclusively with our products; however, in most cases sales and servicing of our products are the dealers' principal business. We sell some products, primarily turbines and locomotives, directly to end customers through sales forces employed by the company. At times, these employees are assisted by independent sales representatives.

While the large majority of our worldwide dealers are independently owned and operated, we own and operate a dealership in Japan that covers approximately 80% of the Japanese market: Nippon Caterpillar Division. We are currently operating this Japanese dealer directly and we report its results in the All Other operating segment. There are also three independent dealers in the Southern Region of Japan.

#### **HUMAN CAPITAL**

#### Core Values

Caterpillar's global workforce is united by Our Values In Action, Caterpillar's Code of Conduct. Integrity, Excellence, Teamwork, Commitment and Sustainability provide the foundation for our values-based culture. Our diversity and inclusion principles are embedded in our values. Our values unite us, and reflect our diverse cultures, languages, geographies, and businesses, as one Caterpillar team.

#### Health and Safety

The health and safety of our employees is an important focus at Caterpillar, and we strive to continually reduce our recordable injuries. As part of this focus on health and safety, Caterpillar has established a peer-to-peer safety mentorship and education program for manufacturing new hires to accelerate acclimation to our safety culture in many global locations. In 2021, the Company achieved a recordable injury frequency rate of 0.41, compared to the 2020 recordable injury frequency rate of 0.42.

The COVID-19 pandemic has continued to further reinforce the importance of a safe and healthy workforce. In response to the pandemic, the Company continues to utilize safeguards to protect our essential employees, including increased frequency of cleaning and disinfecting, social distancing practices, face coverings, temperature screening, supporting vaccination opportunities in many workplaces and paid time off to receive vaccinations away from work. We implemented workplace pandemic measures consistent with specific regulatory requirements and guidance from health authorities. We also maintained travel restrictions and remote work, for employees who were able to work from home. Our medical teams provide ongoing training and education to support the emotional health and resilience of our workforce.

For Caterpillar branded products, the company's relationship with each of its independent dealers is memorialized in standard sales and service agreements. Pursuant to these agreements, the company grants the dealer the right to purchase and sell its products and to service the products in a specified geographic service territory. The company establishes prices to dealers after receiving input from dealers on transactional pricing in the marketplace. The company also agrees to defend its intellectual property and to provide warranty and technical support to the dealer. The agreement further grants the dealer a non-exclusive license to use the company's trademarks, service marks and brand names. In some instances, a separate trademark agreement exists between the company and a dealer.

In exchange for these rights, the agreement obligates the dealer to develop and promote the sale of the company's products to current and prospective customers in the dealer's service territory. Each dealer agrees to employ adequate sales and support personnel to market, sell and promote the company's products, demonstrate and exhibit the products, perform the company's product improvement programs, inform the company concerning any features that might affect the safe operation of any of the company's products and maintain detailed books and records of the dealer's financial condition, sales and inventories and make these books and records available at the company's reasonable request.

These sales and service agreements are terminable at will by either party primarily upon 90 days written notice.

#### Talent Development and Training

In addition to our focus on values and safety, we strive to continually attract, develop, engage, and retain a high-performing diverse global team that executes our enterprise strategy of long-term profitable growth.

We are committed to employee development and helping individuals reach their full potential, by making on-going investments in our team. Our global internships, engineering co-ops, and career programs for engineering, marketing, and manufacturing provide development opportunities for early career employees. We also have a continual focus on strengthening technical, professional and leadership capabilities at every level. Strategic talent reviews and succession planning occur at a minimum, annually, across our businesses.

Our leadership development programs and focus on encouraging a variety of experiences to help employees broaden understanding and increase perspective. Our leadership curriculums include managing for inclusion as a core development principle and a professional skill.

Additionally, skill-based programs to upskill our manufacturing employees are developed locally and tailored to the specific needs of the business. In China, we continue to invest in programs that encourage women to pursue engineering management and leadership roles. In India, we tailored recruiting campaigns and on-site benefits to attract female employees. Caterpillar, along with other companies across industries, participates in the OneTen coalition. The coalition is committed to upskill, hire and advance Black Americans over the next 10 years into familysustaining careers.

#### Diversity and Inclusion

We are committed to fostering a diverse workforce and an inclusive environment. Our 14 Employee Resource Groups (ERGs), which are sponsored and supported by leadership, help ensure different voices and perspectives contribute to our strategy for long-term profitable growth. They also engage our employees, helping contribute to development and retention.

Our ERGs provide many contributions, such as mentoring programs that connect diverse employees with senior leaders who can support their career goals, partnerships with recruiters and diverse early career and professional organizations that can assist in strengthening the diverse talent pipeline and programs that educate and inform on the richness of the global cultures that we share.

#### Compensation, Benefits and Employee Insights

Providing competitive benefits and compensation underpins our commitment to our engaged and productive employees. Our pay-for-performance philosophy aligns employee's individual contributions, behaviors and business results with individual rewards. Our comprehensive Total Health programs focus on purpose, as well as physical, emotional, financial, and social health. The annual Employee Insights Survey provides all employees the opportunity to confidentially share their perspectives and engages leaders to listen, learn and respond to employee feedback.

#### <u>Employment</u>

Management aligns employment levels with the needs of the business. We believe we have the appropriate human capital resources to successfully operate and deliver our enterprise strategy. As of December 31, 2021, we employed about 107,700 full-time persons of whom approximately 63,400 were located outside the United States. In the United States, we employed approximately 44,300 full-time persons, most of whom are at-will employees and, therefore, not subject to any type of employment contract or agreement. At select business units, we have hired certain highly specialized employees under employment contracts that specify a term of employment, pay and other benefits.

Full-Time Employees at Year-End		
	2021	2020
Inside U.S.	44,300	40,300
Outside U.S.	63,400	57,000
Total	107,700	97,300
By Region:		
North America	44,700	40,500
EAME	17,600	17,700
Latin America	19,500	15,900
Asia/Pacific	25,900	23,200
Total	107,700	97,300

As of December 31, 2021, there were approximately 7,710 hourly production employees in the United States who were covered by collective bargaining agreements with various labor unions, including The United Automobile, Aerospace and Agricultural Implement Workers of America (UAW), The International

Association of Machinists and The United Steelworkers. Outside the United States, the company enters into employment contracts and agreements in those countries in which such relationships are mandatory or customary. The provisions of these agreements generally correspond in each case with the required or customary terms in the subject jurisdiction.

#### Environmental Matters

The company is regulated by federal, state and international environmental laws governing our use, transport and disposal of substances and control of emissions. In addition to governing our manufacturing and other operations, these laws often impact the development of our products, including, but not limited to, required compliance with air emissions standards applicable to internal combustion engines. We have made, and will continue to make, significant research and development and capital expenditures to comply with these emissions standards.

We are engaged in remedial activities at a number of locations, often with other companies, pursuant to federal and state laws. When it is probable we will pay remedial costs at a site, and those costs can be reasonably estimated, the investigation, remediation, and operating and maintenance costs of the remedial action are accrued against our earnings. Costs are accrued based on consideration of currently available data and information with respect to each individual site, including available technologies, current applicable laws and regulations, and prior remediation experience. Where no amount within a range of estimates is more likely, we accrue the minimum. Where multiple potentially responsible parties are involved, we consider our proportionate share of the probable costs. In formulating the estimate of probable costs, we do not consider amounts expected to be recovered from insurance companies or others. We reassess these accrued amounts on a guarterly basis. The amount recorded for environmental remediation is not material and is included in the line item "Accrued expenses" in Statement 3 — "Consolidated Financial Position at December 31" of Part II, Item 8 "Financial Statements and Supplementary Data." There is no more than a remote chance that a material amount for remedial activities at any individual site, or at all the sites in the aggregate, will be required.

#### Available Information

The company files electronically with the Securities and Exchange Commission (SEC) required reports on Form 8-K, Form 10-Q, Form 10-K and Form 11-K; proxy materials; ownership reports for insiders as required by Section 16 of the Securities Exchange Act of 1934 (Exchange Act); registration statements on Forms S-3 and S-8, as necessary; and other forms or reports as required. The SEC maintains a website (www.sec.gov) that contains reports, proxy and information statements, and other information regarding issuers that file electronically with the SEC. The company maintains a website (www.Caterpillar.com) and copies of our annual report on Form 10-K, quarterly reports on Form 10-Q, current reports on Form 8-K and any amendments to these reports filed or furnished with the SEC are available free of charge through our website (www.Caterpillar.com/secfilings) as soon as reasonably practicable after filing with the SEC. Copies of our board committee charters, our board's Guidelines on Corporate Governance Issues, Worldwide Code of Conduct and other corporate governance information are available on our website (www.Caterpillar.com/governance). The information contained on the company's website is not included in, or incorporated by reference into, this annual report on Form 10-K.

Additional company information may be obtained as follows:

#### Current information -

- view additional financial information on-line at www.Caterpillar. com/en/investors/financial-information.html
- request, view or download materials on-line or register for email alerts at www.Caterpillar.com/materialsrequest

#### ITEM 1A. Risk Factors.

The statements in this section describe the most significant risks to our business and should be considered carefully in conjunction with Part II, Item 7 "Management's Discussion and Analysis of Financial Condition and Results of Operations" and the "Notes to Consolidated Financial Statements" of Part II, Item 8 "Financial Statements and Supplementary Data" to this Form 10-K. In addition, the statements in this section and other sections of this Form 10-K, including in Part II, Item 7 "Management's Discussion and Analysis of Financial Condition and Results of Operations," include "forward-looking statements" as that term is defined in the Private Securities Litigation Reform Act of 1995 and involve uncertainties that could significantly impact results. Forward-looking statements give current expectations or forecasts of future events about the company or our outlook. You can identify forward-looking statements by the fact they do not relate to historical or current facts and by the use of words such as "believe," "expect," "estimate," "anticipate," "will be," "should," "plan," "forecast," "target," "guide," "project," "intend," "could" and similar words or expressions.

Forward-looking statements are based on assumptions and on known risks and uncertainties. Although we believe we have been prudent in our assumptions, any or all of our forward-looking statements may prove to be inaccurate, and we can make no guarantees about our future performance. Should known or unknown risks or uncertainties materialize or underlying assumptions prove inaccurate, actual results could materially differ from past results and/or those anticipated, estimated or projected.

We undertake no obligation to publicly update forward-looking statements, whether as a result of new information, future events or otherwise. You should, however, consult any subsequent disclosures we make in our filings with the SEC on Form 10-Q or Form 8-K.

The following is a cautionary discussion of risks, uncertainties and assumptions that we believe are material to our business. In addition to the factors discussed elsewhere in this report, the following are some of the important factors that, individually or in the aggregate, we believe could make our actual results differ materially from those described in any forward-looking statements. It is impossible to predict or identify all such factors and, as a result, you should not consider the following factors to be a complete discussion of risks, uncertainties and assumptions.

#### **RISKS RELATED TO THE COVID-19 PANDEMIC**

# The COVID-19 pandemic could materially adversely affect our business, results of operations and/or financial condition.

COVID-19 was identified in late 2019 and spread globally. Efforts to combat the virus have been complicated by viral variants and access to, and acceptance and effectiveness of, vaccines globally. COVID 19 has had, and continues to have, a significant impact around the world, prompting governments and businesses to take unprecedented measures in response. Such measures have included travel bans and restrictions, quarantines, shelter in place orders and shutdowns. These measures have impacted and may continue to impact all or portions of our workforce and operations

#### Historical information -

• view/download on-line at www.Caterpillar.com/historical

and the operations of our customers, dealers and suppliers. Although certain restrictions related to the COVID-19 pandemic have eased, uncertainty continues to exist regarding such measures and potential future measures. Current material and component shortages, logistics constraints and labor inefficiencies have limited and could continue to limit our ability to meet customer demand, which could have a material adverse effect on our business, results of operations and/or financial condition.

The COVID-19 pandemic caused a global recession and the sustainability of the economic recovery observed in 2021 remains unclear. The COVID-19 pandemic has also significantly increased economic and customer demand uncertainty, has caused inflationary pressure in the U.S. and elsewhere and has led to volatility in customer demand for the Company's products and services and caused supply chain disruptions. Economic uncertainties could continue to affect customer demand for the Company's products and services, the value of the equipment financed or leased, the demand for financing and the financial condition and credit risk of our dealers and customers.

Continued uncertainties related to the magnitude, duration and persistent effects of the COVID-19 pandemic may adversely affect our business. These uncertainties include, among other things: the duration and impact of the resurgence in COVID-19 cases in any country, state, or region; the emergence, contagiousness, and threat of new and different strains of the virus; the availability, acceptance, and effectiveness of vaccines; prolonged reduction or closure of the Company's operations; disruptions in the supply chain; labor inefficiencies; increased logistics costs; the impact of the pandemic on the Company's customers and dealers; the impact of disruptions in the global capital markets and/or declines in our financial performance or credit ratings, which could impact the Company's ability to obtain funding in the future; and the impact of the pandemic on customer demand for our products and services as discussed above. All of these factors could materially and adversely affect our business, results of operations and/or financial condition.

The ultimate impact of the COVID-19 pandemic on the Company's financial and operational results will be determined by the length of time that the pandemic continues, its effect on the demand for the Company's products and services and the supply chain, as well as the effect of governmental regulations imposed in response to the pandemic. The overall magnitude of the COVID-19 pandemic and the continued fluidity of the situation could materially and adversely impact our business, results of operations and/or financial condition.

#### MACROECONOMIC RISKS

## Our business and the industries we serve are highly sensitive to global and regional economic conditions.

Our results of operations are materially affected by economic conditions globally and regionally and in the particular industries we serve. The demand for our products and services tends to be cyclical and can be significantly reduced in periods of economic weakness characterized by lower levels of government and business investment, lower levels of business confidence, lower corporate earnings, high real interest rates, lower credit activity or tighter credit conditions, perceived or actual industry overcapacity, higher unemployment and lower consumer spending. A prolonged period of economic weakness may also result in increased expenses due to higher allowances for doubtful accounts and potential goodwill and asset impairment charges. Economic conditions vary across regions and countries, and demand for our products and services generally increases in those regions and countries experiencing economic growth and investment. Slower economic growth or a change in the global mix of regions and countries experiencing economic growth and investment could have an adverse effect on our business, results of operations and financial condition.

The energy, transportation and mining industries are major users of our products, including the mineral extraction, oil and natural gas industries. Customers in these industries frequently base their decisions to purchase our products and services on the expected future performance of these industries, which in turn are dependent in part on commodity prices. Prices of commodities in these industries are frequently volatile and can change abruptly and unpredictably in response to general economic conditions and trends, government actions, regulatory actions, commodity inventories, production and consumption levels, technological innovations, commodity substitutions, market expectations and any disruptions in production or distribution or changes in consumption. Economic conditions affecting the industries we serve may in the future also lead to reduced capital expenditures by our customers. Reduced capital expenditures by our customers are likely to lead to a decrease in the demand for our products and services and may also result in a decrease in demand for aftermarket parts as customers are likely to extend preventative maintenance schedules and delay major overhauls when possible.

The rates of infrastructure spending, commercial construction and housing starts also play a significant role in our results. Our products are an integral component of these activities, and as these activities decrease, demand for our products and services may be significantly impacted, which could negatively impact our results.

#### Commodity price changes, material price increases, fluctuations in demand for our products and services, significant disruptions to our supply chains or significant shortages of labor and material may adversely impact our financial results or our ability to meet commitments to customers.

We are a significant user of steel and many other commodities required for the manufacture of our products. Increases in the prices of such commodities would increase our costs, negatively impacting our business, results of operations and financial condition if we are unable to fully offset the effect of these increased costs through price increases, productivity improvements or cost reduction programs.

We rely on suppliers to produce or secure material required for the manufacture of our products. Production challenges at suppliers (including suppliers of semiconductors), a disruption in deliveries to or from suppliers or decreased availability of raw materials or commodities could have an adverse effect on our ability to meet our commitments to customers or increase our operating costs. On the other hand, in circumstances where demand for our products is less than we expect, we may experience excess inventories and be forced to incur additional costs and our profitability may suffer. Additionally, we have experienced and expect to continue to experience transportation delays for parts, components and finished machines due to significant demands in global transportation and congestion at ports throughout the globe. Our business, competitive position, results of operations or financial condition could be negatively impacted if supply is insufficient for our operations, if significant transportation delays interfere with deliveries, if we experience excess inventories or if

we are unable to adjust our production schedules or our purchases from suppliers to reflect changes in customer demand and market fluctuations on a timely basis.

# Changes in government monetary or fiscal policies may negatively impact our results.

Most countries where our products and services are sold have established central banks to regulate monetary systems and influence economic activities, generally by adjusting interest rates. Interest rate changes affect overall economic growth, which affects demand for residential and nonresidential structures, as well as energy and mined products, which in turn affects sales of our products and services that support these activities. Interest rate changes may also affect our customers' ability to finance machine purchases, can change the optimal time to keep machines in a fleet and can impact the ability of our suppliers to finance the production of parts and components necessary to manufacture and support our products. Increases in interest rates could negatively impact sales and create supply chain inefficiencies.

Central banks and other policy arms of many countries may take actions to vary the amount of liquidity and credit available in an economy. The impact from a change in liquidity and credit policies could negatively affect the customers and markets we serve or our suppliers, create supply chain inefficiencies and could adversely impact our business, results of operations and financial condition.

Changes in monetary and fiscal policies, along with other factors, may cause currency exchange rates to fluctuate. Actions that lead the currency exchange rate of a country where we manufacture products to increase relative to other currencies could reduce the competitiveness of products made in that country, which could adversely affect our competitive position, results of operations and financial condition.

Government policies on taxes and spending also affect our business. Throughout the world, government spending finances a significant portion of infrastructure development, such as highways, rail systems, airports, sewer and water systems, water ways and dams. Tax regulations determine asset depreciation lives and impact the after-tax returns on business activity and investment, both of which influence investment decisions. Unfavorable developments, such as decisions to reduce public spending or to increase taxes, could negatively impact our results.

#### Our global operations are exposed to political and economic risks, commercial instability and events beyond our control in the countries in which we operate.

Our global operations are dependent upon products manufactured, purchased and sold in the U.S. and internationally, including in countries with political and economic instability or uncertainty. Some countries have greater political and economic volatility and greater vulnerability to infrastructure and labor disruptions than others. Our business could be negatively impacted by adverse fluctuations in freight costs, limitations on shipping and receiving capacity, and other disruptions in the transportation and shipping infrastructure at important geographic points of exit and entry for our products. Operating in different regions and countries exposes us to numerous risks, including:

- multiple and potentially conflicting laws, regulations and policies that are subject to change;
- imposition of currency restrictions, restrictions on repatriation of earnings or other restraints;
- imposition of new or additional tariffs or quotas;

- withdrawal from or modification of trade agreements or the negotiation of new trade agreements;
- imposition of new or additional trade and economic sanctions laws imposed by the U.S. or foreign governments;
- war or acts of terrorism; and
- political and economic instability or civil unrest that may severely disrupt economic activity in affected countries.

The occurrence of one or more of these events may negatively impact our business, results of operations and financial condition.

#### **OPERATIONAL RISKS**

#### The success of our business depends on our ability to develop, produce and market quality products that meet our customers' needs.

Our business relies on continued global demand for our brands and products. To achieve business goals, we must develop and sell products that appeal to our dealers, OEMs and end-user customers. This is dependent on a number of factors, including our ability to maintain key dealer relationships; our ability to produce products that meet the quality, performance and price expectations of our customers and our ability to develop effective sales, advertising and marketing programs. In addition, our continued success in selling products that appeal to our customers is dependent on leading-edge innovation, with respect to both products and operations, and on the availability and effectiveness of legal protection for our innovations. Failure to continue to deliver high quality, innovative, competitive products to the marketplace, to adequately protect our intellectual property rights; to supply products that meet applicable regulatory requirements, including engine exhaust emission requirements or to predict market demands for, or gain market acceptance of, our products, could have a negative impact on our business, results of operations and financial condition.

# We operate in a highly competitive environment, which could adversely affect our sales and pricing.

We operate in a highly competitive environment. We compete on the basis of a variety of factors, including product performance, customer service, quality and price. There can be no assurance that our products will be able to compete successfully with other companies' products. Thus, our share of industry sales could be reduced due to aggressive pricing or product strategies pursued by competitors, unanticipated product or manufacturing difficulties, our failure to price our products competitively, our failure to produce our products at a competitive cost or an unexpected buildup in competitors' new machine or dealer-owned rental fleets, which could lead to downward pressure on machine rental rates and/or used equipment prices.

Lack of customer acceptance of price increases we announce from time to time, changes in customer requirements for price discounts, changes in our customers' behavior or a weak pricing environment could have an adverse impact on our business, results of operations and financial condition.

In addition, our results and ability to compete may be impacted negatively by changes in our geographic and product mix of sales.

#### Increased information technology security threats and more sophisticated computer crime pose a risk to our systems, networks, products and services.

We rely upon information technology systems and networks, some of which are managed by third parties, in connection with a variety of business activities. Additionally, we collect and store sensitive information relating to our business, customers, dealers, suppliers and employees. Operating these information technology systems and networks and processing and maintaining this data in a secure manner, is critical to our business operations and strategy. Information technology security threats -- from user error to cybersecurity attacks designed to gain unauthorized access to our systems, networks and data -- are increasing in frequency and sophistication. Cybersecurity attacks from threat actors globally range from random attempts to coordinated and targeted attacks, including sophisticated computer crime and advanced persistent threats. These threats pose a risk to the security of our systems and networks and the confidentiality, availability and integrity of our data. Cybersecurity attacks could also include attacks targeting customer data or the security, integrity and/or reliability of the hardware and software installed in our products. It is possible that our information technology systems and networks, or those managed or provided by third parties, could have vulnerabilities, which could go unnoticed for a period of time. While various procedures and controls have been and are being utilized to mitigate such risks, there can be no guarantee that the actions and controls we have implemented and are implementing, or which we cause or have caused third-party service providers to implement, will be sufficient to protect and mitigate associated risks to our systems, information or other property.

We have experienced cyber security threats and vulnerabilities in our systems and those of our third party providers, and we have experienced viruses and attacks targeting our information technology systems and networks. Such prior events, to date, have not had a material impact on our financial condition, results of operations or liquidity. However, the potential consequences of a future material cybersecurity attack include reputational damage, litigation with third parties, government enforcement actions, penalties, disruption to systems, unauthorized release of confidential or otherwise protected information, corruption of data, diminution in the value of our investment in research, development and engineering, and increased cybersecurity protection and remediation costs, which in turn could adversely affect our competitiveness, results of operations and financial condition. Due to the evolving nature of such security threats, the potential impact of any future incident cannot be predicted. Further, the amount of insurance coverage we maintain may be inadequate to cover claims or liabilities relating to a cybersecurity attack.

In addition, data we collect, store and process are subject to a variety of U.S. and international laws and regulations, such as the European Union's General Data Protection Regulation that became effective in May 2018 and the California Consumer Privacy Act that became effective in January 2020, which may carry significant potential penalties for noncompliance.

# Our business is subject to the inventory management decisions and sourcing practices of our dealers and our OEM customers.

We sell finished products primarily through an independent dealer network and directly to OEMs and are subject to risks relating to their inventory management decisions and operational and sourcing practices. Both carry inventories of finished products as part of ongoing operations and adjust those inventories based on their assessments of future needs and market conditions, including levels of used equipment inventory and machine rental usage rates. Such adjustments may impact our results positively or negatively. If the inventory levels of our dealers and OEM customers are higher than they desire, they may postpone product purchases from us, which could cause our sales to be lower than the end-user demand for our products and negatively impact our results. Similarly, our results could be negatively impacted through the loss of time-sensitive sales if our dealers and OEM customers do not maintain inventory levels sufficient to meet customer demand.

#### We may not realize all of the anticipated benefits of our acquisitions, joint ventures or divestitures, or these benefits may take longer to realize than expected.

In pursuing our business strategy, we routinely evaluate targets and enter into agreements regarding possible acquisitions, divestitures and joint ventures. We often compete with others for the same opportunities. To be successful, we conduct due diligence to identify valuation issues and potential loss contingencies, negotiate transaction terms, complete complex transactions and manage post-closing matters such as the integration of acquired businesses. Further, while we seek to mitigate risks and liabilities of such transactions through due diligence, among other things, there may be risks and liabilities that our due diligence efforts fail to discover, that are not accurately or completely disclosed to us or that we inadequately assess. We may incur unanticipated costs or expenses following a completed acquisition, including post-closing asset impairment charges, expenses associated with eliminating duplicate facilities, litigation, and other liabilities. Risks associated with our past or future acquisitions also include the following:

- the failure to achieve the acquisition's revenue or profit forecast;
- the business culture of the acquired business may not match well with our culture;
- technological and product synergies, economies of scale and cost reductions may not occur as expected;
- unforeseen expenses, delays or conditions may be imposed upon the acquisition, including due to required regulatory approvals or consents;
- we may acquire or assume unexpected liabilities or be subject to unexpected penalties or other enforcement actions;
- faulty assumptions may be made regarding the macroeconomic environment or the integration process;
- unforeseen difficulties may arise in integrating operations, processes and systems;
- higher than expected investments may be required to implement necessary compliance processes and related systems, including information technology systems, accounting systems and internal controls over financial reporting;
- we may fail to retain, motivate and integrate key management and other employees of the acquired business;
- higher than expected costs may arise due to unforeseen changes in tax, trade, environmental, labor, safety, payroll or pension policies in any jurisdiction in which the acquired business conducts its operations; and
- we may experience problems in retaining customers and integrating customer bases.

Many of these factors will be outside of our control and any one of them could result in increased costs, decreases in the amount of expected revenues and diversion of management's time and attention. They may also delay the realization of the benefits we anticipate when we enter into a transaction.

In order to conserve cash for operations, we may undertake acquisitions financed in part through public offerings or private placements of debt or equity securities, or other arrangements. Such acquisition financing could result in a decrease in our earnings and adversely affect other leverage measures. If we issue equity securities or equity-linked securities, the issued securities may have a dilutive effect on the interests of the holders of our common shares.

Failure to implement our acquisition strategy, including successfully integrating acquired businesses, could have an adverse effect on our

business, financial condition and results of operations. Furthermore, we make strategic divestitures from time to time. In the case of divestitures, we may agree to indemnify acquiring parties for certain liabilities arising from our former businesses. These divestitures may also result in continued financial involvement in the divested businesses following the transaction, including through guarantees or other financial arrangements. Lower performance by those divested businesses could affect our future financial results.

# Union disputes or other labor matters could adversely affect our operations and financial results.

Some of our employees are represented by labor unions in a number of countries under various collective bargaining agreements with varying durations and expiration dates. There can be no assurance that any current or future issues with our employees will be resolved or that we will not encounter future strikes, work stoppages or other disputes with labor unions or our employees. We may not be able to satisfactorily renegotiate collective bargaining agreements in the United States and other countries when they expire. If we fail to renegotiate our existing collective bargaining agreements, we could encounter strikes or work stoppages or other disputes with labor unions. In addition, existing collective bargaining agreements may not prevent a strike or work stoppage at our facilities in the future. We may also be subject to general country strikes or work stoppages unrelated to our business or collective bargaining agreements. A work stoppage or other limitations on production at our facilities for any reason could have an adverse effect on our business, results of operations and financial condition. In addition, many of our customers and suppliers have unionized work forces. Strikes or work stoppages experienced by our customers or suppliers could have an adverse effect on our business, results of operations and financial condition.

# Unexpected events may increase our cost of doing business or disrupt our operations.

The occurrence of one or more unexpected events, including war, acts of terrorism or violence, civil unrest, fires, tornadoes, tsunamis, hurricanes, earthquakes, floods and other forms of severe weather in the United States or in other countries in which we operate or in which our suppliers are located could adversely affect our operations and financial performance. Natural disasters, pandemic illness, including the current COVID-19 outbreak, equipment failures, power outages or other unexpected events could result in physical damage to and complete or partial closure of one or more of our manufacturing facilities or distribution centers, temporary or long-term disruption in the supply of component products from some local and international suppliers, and disruption and delay in the transport of our products to dealers, end-users and distribution centers. Existing insurance coverage may not provide protection for all of the costs that may arise from such events.

#### **FINANCIAL RISKS**

# Disruptions or volatility in global financial markets could limit our sources of liquidity, or the liquidity of our customers, dealers and suppliers.

Continuing to meet our cash requirements over the long-term requires substantial liquidity and access to varied sources of funds, including capital and credit markets. Global economic conditions may cause volatility and disruptions in the capital and credit markets. Market volatility, changes in counterparty credit risk, the impact of government intervention in financial markets and general economic conditions may also adversely impact our ability to access capital and credit markets to fund operating needs. Global or regional economic downturns could cause financial markets to decrease the availability of liquidity, credit and credit capacity for certain issuers, including certain customers, dealers and suppliers. An inability to access capital and credit markets may have an adverse effect on our business, results of operations, financial condition and competitive position. Furthermore, changes in global economic conditions, including material cost increases and decreases in economic activity in key markets we serve, and the success of plans to manage cost increases, inventory and other important elements of our business may significantly impact our ability to generate funds from operations.

In addition, demand for our products generally depends on customers' ability to pay for our products, which, in turn, depends on their access to funds. Changes in global economic conditions may result in customers experiencing increased difficulty in generating funds from operations. Capital and credit market volatility and uncertainty may cause financial institutions to revise their lending standards, resulting in customers' decreased access to capital. If capital and credit market volatility occurs, customers' liquidity may decline which, in turn, would reduce their ability to purchase our products.

# Failure to maintain our credit ratings would increase our cost of borrowing and could adversely affect our cost of funds, liquidity, competitive position and access to capital markets.

Each of Caterpillar's and Cat Financial's costs of borrowing and their respective ability to access the capital markets are affected not only by market conditions but also by the short- and long-term credit ratings assigned to their respective debt by the major credit rating agencies. These ratings are based, in significant part, on each of Caterpillar's and Cat Financial's performance as measured by financial metrics such as net worth, interest coverage and leverage ratios, as well as transparency with rating agencies and timeliness of financial reporting. There can be no assurance that Caterpillar and Cat Financial will be able to maintain their credit ratings. We receive debt ratings from the major credit rating agencies. A downgrade of our credit rating by any of the major credit rating agencies would result in increased borrowing costs and could adversely affect Caterpillar's and Cat Financial's liquidity, competitive position and access to the capital markets, including restricting, in whole or in part, access to the commercial paper market. There can be no assurance that the commercial paper market will continue to be a reliable source of short-term financing for Cat Financial or an available source of short-term financing for Caterpillar. An inability to access the capital markets could have an adverse effect on our cash flow, results of operations and financial condition.

# Our Financial Products segment is subject to risks associated with the financial services industry.

Cat Financial is significant to our operations and provides financing support for a significant share of our global sales. The inability of Cat Financial to access funds to support its financing activities to our customers could have an adverse effect on our business, results of operations and financial condition.

Continuing to meet Cat Financial's cash requirements over the long-term could require substantial liquidity and access to sources of funds, including capital and credit markets. Cat Financial has continued to maintain access to key global medium-term note and commercial paper markets, but there can be no assurance that such markets will continue to represent a reliable source of financing. If global economic conditions were to deteriorate, Cat Financial could face materially higher financing costs, become unable to access adequate funding to operate and grow its business and/ or meet its debt service obligations as they mature. Cat Financial also could and be required to draw upon contractually committed lending agreements and/or seek other funding sources. However, there can be no assurance that such agreements and other funding sources would be sufficient or even available under extreme market conditions. Any of these events could negatively impact Cat Financial's business, as well as our and Cat Financial's results of operations and financial condition.

Market disruption and volatility may also lead to numerous risks in connection with these events, including but not limited to:

- Market developments that may affect customer confidence levels and cause declines in the demand for financing and adverse changes in payment patterns, causing increases in delinquencies and default rates, which could increase Cat Financial's write-offs and provision for credit losses.
- The process Cat Financial uses to estimate losses inherent in its credit exposure requires a high degree of management's judgment regarding numerous subjective qualitative factors, including forecasts of economic conditions and how economic predictors might impair the ability of its borrowers to repay their loans. Financial market disruption and volatility may impact the accuracy of these judgments.
- Cat Financial's ability to engage in routine funding transactions or to engage or to borrow from other financial institutions on acceptable terms or at all could be adversely affected by disruptions in the capital markets or other events, including actions by rating agencies and deteriorating investor expectations.
- As Cat Financial's lending agreements are primarily with financial institutions, their ability to perform in accordance with any of our underlying agreements could be adversely affected by market volatility and/or disruptions in financial markets.

# Changes in interest rates or market liquidity conditions could adversely affect Cat Financial's and our earnings and/or cash flow.

Changes in interest rates and market liquidity conditions could have an adverse impact on Cat Financial's and our earnings and cash flows. Because a significant number of the loans made by Cat Financial are made at fixed interest rates, its business results are subject to fluctuations in interest rates. Certain loans made by Cat Financial and various financing extended to Cat Financial are made at variable rates that use LIBOR as a benchmark for establishing the interest rate. LIBOR is the subject of recent proposals for reform. On July 27, 2017, the United Kingdom's Financial Conduct Authority ("FCA") announced that it intends to stop persuading or compelling banks to submit LIBOR rates after 2021, On November 18, 2020, ICE Benchmark Administration ("IBA"). the administrator of USD LIBOR, announced plans to consult on its intention to cease the publication of all GBP, EUR, CHF and JPY LIBOR settings immediately following the LIBOR publication on December 31, 2021. On November 30, 2020, IBA, with the support of the United States Federal Reserve and the FCA, announced plans to consult on ceasing publication of USD LIBOR on December 31, 2021 for only the one-week and two-month USD LIBOR tenors, and on June 30, 2023 for all other USD LIBOR tenors. While the November 30 announcement extends the transition period to June 2023, the United States Federal Reserve concurrently issued a statement advising banks to stop new USD LIBOR issuances by the end of 2021. These reforms may cause LIBOR to cease to exist, new methods of calculating LIBOR to be established if LIBOR continues to exist after 2021 or alternative reference rates to be established. The consequences of these developments cannot be entirely predicted and could have an adverse impact on the market value for or value of LIBOR-linked securities, loans, derivatives, and other financial obligations or extensions of credit held by or due to Cat Financial, as well as the revenue and expenses associated with those securities, loans and financial instruments. Cat Financial has created a cross-functional team that will assess risk across multiple categories as it relates to the use of LIBOR in securities,

loans, derivatives, and other financial obligations or extensions of credit held by or due to us. Other changes in market interest rates may influence Cat Financial's borrowing costs and could reduce its and our earnings and cash flows, returns on financial investments and the valuation of derivative contracts. Cat Financial manages interest rate and market liquidity risks through a variety of techniques that include a match funding strategy, the selective use of derivatives and a broadly diversified funding program. There can be no assurance, however, that fluctuations in interest rates and market liquidity conditions will not have an adverse impact on its and our earnings and cash flows. If any of the variety of instruments and strategies Cat Financial uses to hedge its exposure to these types of risk is ineffective, this may have an adverse impact on our earnings and cash flows. With respect to Insurance Services' investment activities, changes in the equity and bond markets could result in a decline in value of its investment portfolio, resulting in an unfavorable impact to earnings.

#### An increase in delinquencies, repossessions or net losses of Cat Financial customers could adversely affect its results.

Inherent in the operation of Cat Financial is the credit risk associated with its customers. The creditworthiness of each customer and the rate of delinquencies, repossessions and net losses on customer obligations are directly impacted by several factors, including relevant industry and economic conditions, the availability of capital, the experience and expertise of the customer's management team, commodity prices, political events and the sustained value of the underlying collateral. Any increase in delinquencies, repossessions and net losses on customer obligations could have a material adverse effect on Cat Financial's and our earnings and cash flows. Cat Financial evaluates and adjusts its allowance for credit losses related to past due and non-performing receivables on a regular basis. However, adverse economic conditions or other factors that might cause deterioration of the financial health of its customers could change the timing and level of payments received and necessitate an increase in Cat Financial's estimated losses, which could also have a material adverse effect on Cat Financial's and our earnings and cash flows.

#### Currency exchange rate fluctuations affect our results of operations.

We conduct operations in many countries involving transactions denominated in a variety of currencies. We are subject to currency-exchange rate risk to the extent that our costs are denominated in currencies other than those in which we earn revenues. Fluctuations in currency exchange rates have had, and will continue to have, an impact on our results as expressed in U.S. dollars. There can be no assurance that currency exchange rate fluctuations will not adversely affect our results of operations, financial condition and cash flows. While the use of currency hedging instruments may provide us with protection from adverse fluctuations in currency exchange rates, by utilizing these instruments we potentially forego the benefits that might result from favorable fluctuations in currency exchange rates. In addition, our outlooks do not assume fluctuations in currency exchange rates. Adverse fluctuations in currency exchange rates from the date of our outlooks could cause our actual results to differ materially from those anticipated in any outlooks and adversely impact our business, results of operations and financial condition.

We also face risks arising from the imposition of exchange controls and currency devaluations. Exchange controls may limit our ability to convert foreign currencies into U.S. dollars or to remit dividends and other payments by our foreign subsidiaries or businesses located in or conducted within a country imposing controls. Currency devaluations result in a diminished value of funds denominated in the currency of the country instituting the devaluation.

# Restrictive covenants in our debt agreements could limit our financial and operating flexibility.

We maintain a number of credit facilities to support general corporate purposes (facilities) and have issued debt securities to manage liquidity and fund operations (debt securities). The agreements relating to a number of the facilities and the debt securities contain certain restrictive covenants applicable to us and certain subsidiaries, including Cat Financial. These covenants include maintaining a minimum consolidated net worth (defined as the consolidated shareholder's equity including preferred stock but excluding the pension and other post-retirement benefits balance within accumulated other comprehensive income (loss)), limitations on the incurrence of liens and certain restrictions on consolidation and merger. Cat Financial has also agreed under certain of these agreements not to exceed a certain leverage ratio (consolidated debt to consolidated net worth, calculated (1) on a monthly basis as the average of the leverage ratios determined on the last day of each of the six preceding calendar months and (2) at each December 31), to maintain a minimum interest coverage ratio (profit excluding income taxes, interest expense and net gain/(loss) from interest rate derivatives to interest expense, calculated at the end of each calendar quarter for the rolling four quarter period then most recently ended) and not to terminate, amend or modify its support agreement with us.

A breach of one or more of the covenants could result in adverse consequences that could negatively impact our business, results of operations and financial condition. These consequences may include the acceleration of amounts outstanding under certain of the facilities, triggering of an obligation to redeem certain debt securities, termination of existing unused commitments by our lenders, refusal by our lenders to extend further credit under one or more of the facilities or to enter into new facilities or the lowering or modification of our credit ratings or those of one or more of our subsidiaries.

# Sustained increases in funding obligations under our pension plans may impair our liquidity or financial condition.

We maintain certain defined benefit pension plans for our employees, which impose on us certain funding obligations. In determining our future payment obligations under the plans, we assume certain rates of return on the plan assets and a certain level of future benefit payments. Significant adverse changes in credit or capital markets could result in actual rates of return being materially lower than projected and result in increased contribution requirements. We expect to make contributions to our pension plans in the future, and may be required to make contributions that could be material. We may fund contributions through the use of cash on hand, the proceeds of borrowings, shares of our common stock or a combination of the foregoing, as permitted by applicable law. These factors could significantly increase our payment obligations under the plans, and as a result, adversely affect our business and overall financial condition.

#### **LEGAL & REGULATORY RISKS**

## Our global operations are subject to a wide-range of trade and anti-corruption laws and regulations.

Due to the international scope of our operations, we are subject to a complex system of import- and export-related laws and regulations. These include U.S. regulations issued by Customs and Border Protection, the Bureau of Industry and Security, the Office of Antiboycott Compliance, the Directorate of Defense Trade Controls and the Office of Foreign Assets Control, as well as the counterparts of these agencies in other countries. Any alleged or actual violations may subject us to increased government scrutiny, investigation and civil and criminal penalties, and may limit our ability to import or export our products or to provide services outside the United States. Furthermore, embargoes and sanctions imposed by the U.S. and other governments restricting or prohibiting sales to specific persons or countries or based on product classification may expose us to potential criminal and civil sanctions. We cannot predict the nature, scope or effect of future regulatory requirements to which our operations might be subject. We also cannot predict in certain locations the manner in which existing laws might be administered or interpreted.

In addition, the U.S. Foreign Corrupt Practices Act and similar foreign anti-corruption laws generally prohibit companies and their intermediaries from making improper payments or providing anything of value to improperly influence foreign government officials for the purpose of obtaining or retaining business or obtaining an unfair advantage. Recent years have seen a substantial increase in the global enforcement of anti-corruption laws. Our operations outside the United States, including in developing countries, expose us to the risk of such violations. Violations of anti-corruption laws or regulations by our employees, intermediaries acting on our behalf, or our joint venture partners may result in severe criminal or civil sanctions. Violations may also disrupt our business, and may result in an adverse effect on our reputation, business and results of operations or financial condition.

# International trade policies may impact demand for our products and our competitive position.

Government policies on international trade and investment such as import quotas, capital controls or tariffs, whether adopted by individual governments or addressed by regional trade blocs, can affect the demand for our products and services, impact the competitive position of our products or prevent us from being able to sell products in certain countries. The implementation of more restrictive trade policies (such as more detailed inspections, higher tariffs or new barriers to entry) in countries where we sell large quantities of products and services could negatively impact our business, results of operations and financial condition. For example, a government's adoption of "buy national" policies or retaliation by another government against such policies could have a negative impact on our results of operations.

# We may incur additional tax expense or become subject to additional tax exposure.

We are subject to income taxes in the United States and numerous other jurisdictions. Our future results of operations could be adversely affected by changes in the effective tax rate as a result of a change in the mix of earnings between U.S. and non-U.S. jurisdictions or among jurisdictions with differing statutory tax rates. In addition, our future results of operations could also be adversely affected by changes in our overall profitability, changes in tax laws or treaties or in their application or interpretation, changes in tax rates, changes in generally accepted accounting principles, changes in the valuation of deferred tax assets and liabilities, changes in the amount of earnings indefinitely reinvested in certain non-U.S. jurisdictions, the results of audits and examinations of previously filed tax returns and continuing assessments of our tax exposures. We are also subject to the continuous examination of our income tax returns by the U.S. Internal Revenue Service and other tax authorities. We regularly assess the likelihood of an adverse outcome resulting from these examinations. If our effective tax rates were to increase, or if the ultimate determination of our taxes owed is for an amount in excess of amounts previously accrued, our operating results, cash flows and financial condition could be adversely affected. For information regarding additional legal matters related to our taxes, please see Note 6 — "Income taxes" and Note 22 — "Environmental and legal matters" of Part II, Item 8 "Financial Statements and Supplementary Data" to this Annual Report on Form 10-K.

#### Costs associated with lawsuits or investigations or adverse rulings in enforcement or other legal proceedings may have an adverse effect on our results of operations.

We are subject to a variety of legal proceedings and legal compliance risks in virtually every part of the world. We face risk of exposure to various types of claims, lawsuits and government investigations. We are involved in various claims and lawsuits related to product design, manufacture and performance liability (including claimed asbestos exposure), contracts, employment issues, environmental matters, intellectual property rights, tax, securities and other legal proceedings that arise in and outside of the ordinary course of our business. The industries in which we operate are also periodically reviewed or investigated by regulators, which could lead to enforcement actions, fines and penalties or the assertion of private litigation claims. It is not possible to predict with certainty the outcome of claims, investigations and lawsuits, and we could in the future incur judgments, fines or penalties or enter into settlements of lawsuits and claims that could have an adverse effect on our reputation, business, results of operations or financial condition in any particular period.

The global and diverse nature of our operations means that legal and compliance risks will continue to exist and additional legal proceedings and other contingencies, the outcome of which cannot be predicted with certainty, may arise from time to time. In addition, subsequent developments in legal proceedings may affect our assessment and estimates of loss contingencies recorded as a reserve and require us to make payments in excess of our reserves. Such payments could have an adverse effect on our reputation, business and results of operations or financial condition.

## New regulations or changes in financial services regulation could adversely impact Caterpillar and Cat Financial.

Cat Financial's operations are highly regulated by governmental authorities in the locations where it operates, which can impose significant additional costs and/or restrictions on its business. In the United States, for example, certain Cat Financial activities are subject to the U.S. Dodd-Frank Wall Street Reform and Consumer Protection Act (Dodd-Frank), which includes extensive provisions regulating the financial services industry. As a result, Cat Financial has become and could continue to become subject to additional regulatory costs that could be significant and have an adverse effect on Cat Financial's and our results of operations and financial condition. Changes in regulations or additional regulations in the United States or internationally impacting the financial services industry could also add significant cost or operational constraints that might have an adverse effect on Cat Financial's and our results of operations and financial condition.

## We are subject to stringent environmental laws and regulations that impose significant compliance costs.

Our facilities, operations and products are subject to increasingly stringent environmental laws and regulations globally, including laws and regulations governing emissions to noise, air, releases to soil and discharges to water and the generation, handling, storage, transportation, treatment and disposal of non-hazardous and hazardous waste materials. Some environmental laws impose strict, retroactive and joint and several liability for the remediation of the release of hazardous substances, even for conduct that was lawful at the time it occurred, or for the conduct of, or conditions caused by, prior operators, predecessors or other third parties. Failure to comply with environmental laws could expose us to penalties or clean-up costs, civil or criminal liability and sanctions on certain of our activities, as well as damage to property or natural resources. The potential liabilities, sanctions, damages and remediation efforts related to any non-compliance with such laws and regulations could negatively impact our ability to conduct our operations and our financial condition and results of operations. In addition, there can be no assurances that we will not be adversely affected by costs, liabilities or claims with respect to existing or subsequently acquired operations or under present laws and regulations or those that may be adopted or imposed in the future.

Environmental laws and regulations may change from time to time, as may related interpretations and other guidance. Changes in environmental laws or regulations could result in higher expenses and payments. Uncertainty relating to environmental laws or regulations may also affect how we conduct our operations and structure our investments and could limit our ability to enforce our rights. Changes in environmental and climate change laws or regulations, including laws relating to greenhouse gas emissions, could lead to new or additional investment in product designs and could increase environmental compliance expenditures. Changes in climate change concerns, or in the regulation of such concerns, including greenhouse gas emissions, could subject us to additional costs and restrictions, including increased energy and raw materials costs. If environmental laws or regulations are either changed or adopted and impose significant operational restrictions and compliance requirements upon us or our products, they could negatively impact our reputation, business, capital expenditures, results of operations, financial condition and competitive position.

The Company's amended and restated bylaws provide that the Court of Chancery of the State of Delaware will be the exclusive forum for certain legal actions between the Company and its shareholders, which could discourage claims or limit the ability of the Company's shareholders to bring a claim in a judicial forum viewed by the shareholders as more favorable for disputes with the Company or the Company's directors, officers or other employees.

# The Company's amended and restated bylaws provide to the fullest extent permitted by law that unless the Company consents in writing to the selection of an alternative forum, the Court of Chancery of the State of Delaware will be the sole and exclusive forum for (i) any derivative action or proceeding brought on behalf of the Company, (ii) any action asserting a claim of breach of fiduciary duty owed by any director, officer or other employee of the Company to the Company or the Company's shareholders, (iii) any action asserting a claim against the Company or any director or officer or other employee of the Delaware General Corporation Law or the Company's certificate of incorporation or bylaws (as either may be amended from time to time) or (iv) any action asserting a claim against the Company or other employee of the Company governed by the internal affairs doctrine.

The exclusive forum provisions in our bylaws could limit our shareholders' ability to bring a claim in a judicial forum that it finds favorable for disputes with the Company or its directors, officers or other employees. Alternatively, if a court were to find the choice of forum provision contained in the Company's amended and restated bylaws to be inapplicable or unenforceable in an action, the Company may incur additional costs associated with resolving such action in other jurisdictions. The exclusive forum provision in the Company's amended and restated bylaws will not preclude or contract the scope of exclusive federal or concurrent jurisdiction for actions brought under the federal securities laws including the Securities Exchange Act of 1934, as amended, or the Securities Act of 1933, as amended, or the respective rules and regulations promulgated thereunder.

#### ITEM 1B. Unresolved Staff Comments.

None.

#### ITEM 1C. Executive Officers of the Registrant.

Name and age	Present Caterpillar Inc. position and date of initial election	Principal positions held during the past five years if other than Caterpillar Inc. position currently held
D. James Umpleby III (63)	Chairman of the Board (2018) and Chief Executive Officer (2017)	Group President (2013-2016)
Andrew R.J. Bonfield (59)	Chief Financial Officer (2018)	Group Chief Financial Officer for a multinational electricity and gas utility company (2010-2018)
Bob De Lange (52)	Group President (2017)	Vice President (2015-2016), Worldwide Product Manager, Medium Wheel Loaders, (2013-2014)
Denise C. Johnson (55)	Group President (2016)	Vice President (2012-2016)
Joseph E. Creed (46)	Group President (2021)	Vice President, Oil & Gas and Marine Division (2019-2020), Interim Chief Financial Officer (2018), Vice President, Finance Services Division (2017), Group Chief Financial Officer, Energy and Transportation (2013-2016)
Anthony D. Fassino (51)	Group President (2021)	Vice President, Building Construction Products (2018-2020), Director of Worldwide Forestry Products (2016-2018)
Suzette M. Long (56)	Chief Legal Officer and General Counsel (2017)	Interim Executive Vice President, Law and Public Policy (2017), Deputy General Counsel (2013-2017)
Cheryl H. Johnson (61)	Chief Human Resources Officer (2017)	Executive Vice President of Human Resources for a global multi-industry aerospace, defense and industrial manufacturing company (2012-2017)
G. Michael Marvel (60)	Chief Accounting Officer (2019)	Director of Corporate Financial Reporting (2018-2019), Chief Financial Officer for Solar Turbines Incorporated (2013-2018)

#### ITEM 2. Properties.

#### General Information

Caterpillar's operations are highly integrated. Although the majority of our plants are involved primarily in production relating to our Construction Industries, Resource Industries or Energy & Transportation segments, several plants are involved in manufacturing relating to more than one business segment. In addition, several plants reported in our financial statements under the All Other segment are involved in the manufacturing of components that are used in the assembly of products for more than one business segment. Caterpillar's parts distribution centers are involved in the storage and distribution of parts for Construction Industries, Resource Industries and Energy & Transportation. The research and development activities carried on at our Technical Centers in Aurora and Mossville, Illinois involve products for Construction Industries, Resource Industries, Resource Industries and Energy & Transportation.

We believe the properties we own to be generally well maintained and adequate for present use. Through planned capital expenditures, we expect these properties to remain adequate for future needs. Properties we lease are covered by leases expiring over terms of generally one to ten years. We do not anticipate any difficulty in retaining occupancy of any leased facilities, either by renewing leases prior to expiration or by replacing them with equivalent leased facilities.

#### Headquarters and Other Key Offices

Our corporate headquarters is in a leased office located in Deerfield, Illinois. Our Financial Products business is headquartered in offices in Nashville, Tennessee. Additional key offices are located inside and outside the United States.

#### <u>Technical Center, Training Centers, Demonstration</u> <u>Areas and Proving Grounds</u>

We operate Technical Centers located in Aurora and Mossville, Illinois; Wuxi, China; and Chennai, India. Our demonstration centers are located in Tinaja Hills, Arizona; Edwards, Illinois; Chichibu, Japan and Malaga, Spain. We have various other technical and training centers, demonstration areas and proving grounds located both inside and outside the United States.

#### Parts Distribution Centers

Distribution of our parts is conducted from parts distribution centers inside and outside the United States. We operate parts distribution centers in the following locations: Arvin, California; Denver, Colorado; Miami, Florida; Atlanta, Georgia; Morton, Illinois; St. Paul, Minnesota; Clayton, Ohio; York, Pennsylvania; Waco, Texas; Spokane, Washington; Melbourne, Australia; Queensland, Australia; Grimbergen, Belgium; Piracicaba, Brazil; Shanghai, China; Sagami, Japan; San Luis Potosi, Mexico; Singapore, Republic of Singapore; Moscow, Russia; Johannesburg, South Africa; and Dubai, United Arab Emirates. We also own or lease other facilities that support our distribution activities.

#### Remanufacturing and Components

Remanufacturing of our products is reported in our Energy & Transportation segment and is conducted primarily at the facilities in the following locations: Franklin, Indiana; Bogor, Indonesia; Corinth, Mississippi; Prentiss County, Mississippi; West Fargo, North Dakota; Piracicaba, Brazil; Shanghai, China; and Nuevo Laredo, Mexico.

Component manufacturing is reported in the All Other segment and is conducted primarily at facilities in the following locations: East Peoria, Illinois; Mapleton, Illinois; Peoria, Illinois; Bogor, Indonesia; Menominee, Michigan; Boonville, Missouri; West Plains, Missouri; Goldsboro, North Carolina; Sumter, South Carolina; Tianjin, China; Xuzhou, China; Atessa, Italy; Bazzano, Italy; Frosinone, Italy; San Eusebio, Italy; Ramos Arizpe, Mexico; Pyeongtaek, South Korea; and Skinningrove, United Kingdom.

We also lease or own other facilities that support our remanufacturing and component manufacturing activities.

#### Manufacturing

Manufacturing of products for our Construction Industries, Resource Industries and Energy & Transportation segments is conducted primarily at the locations listed below. These facilities are believed to be suitable for their intended purposes, with adequate capacities for current and projected needs for existing products. Our principal manufacturing facilities include those used by the following segments in the following locations:

Segment	U.S. Facilities	Facilities Outside the U.S.
Construction Industries	Arkansas: North Little Rock	Brazil: Campo Largo, Piracicaba
	Georgia: Athens	China: Suzhou, Wujiang, Xuzhou, Qingzhou
	Illinois: Decatur, East Peoria	France: Grenoble, Echirolles
	Kansas: Wamego	Hungary: Godollo
	Minnesota: Brooklyn Park	India: Thiruvallur
	North Carolina: Clayton, Sanford	Indonesia: Jakarta
	Texas: Victoria	Italy: Minerbio, Cattolica
		Japan: Akashi
		Mexico: Torreon
		Netherlands: Den Bosch
		Poland: Janow, Sosnowiec
		Russia: Tosno
		Thailand: Rayong
		United Kingdom: Desford, Stockton
Resource Industries	Illinois: Decatur, East Peoria	China: Qingzhou, Wuxi
	South Carolina: Sumter	Germany: Dortmund, Lunen
	Texas: Denison	India: Thiruvallur
	Wisconsin: South Milwaukee	Indonesia: Batam
		Italy: Jesi
		Mexico: Acuna, Monterrey, Reynosa
		Russia: Tosno
		Thailand: Rayong
		United Kingdom: Peterlee, Springvale
Energy & Transportation	Alabama: Albertville, Montgomery	Australia: Cardiff, Perth, Redbank, Revesby
	California: San Diego	Brazil: Curitiba, Hortolandia, Piracicaba, Sete Lagoas
	Georgia: Griffin, Patterson	China: Tianjin, Wuxi
	Illinois: Mossville, Mapleton, Pontiac	Czech Republic: Zatec, Zebrak
	Indiana: Lafayette, Muncie	Germany: Kiel, Mannheim, Rostock
	Kentucky: Decoursey, Mayfield	India: Aurangabad, Hosur
	Oklahoma: Broken Arrow	Indonesia: Batam
	North Carolina: Winston-Salem	Italy: Pistoria
	<b>Texas:</b> Channelview, DeSoto, Fort Worth, Mabank, San Antonio, Schertz, Seguin, Sherman	Mexico: San Luis Potosi, Tijuana
		United Kingdom: Larne, Peterborough, Sandiacre,

**United Kingdom:** Larne, Peterborough, Sandiacre, South Queensferry, Stafford, Wimborne

#### ITEM 3. Legal Proceedings.

Certain legal proceedings in which we are involved are discussed in Note 22 — "Environmental and legal matters" of Part II, Item 8 "Financial Statements and Supplementary Data" and should be considered an integral part of Part I, Item 3 "Legal Proceedings", which is hereby incorporated by reference.

#### ITEM 4. Mine Safety Disclosures.

Not applicable.

# **PART II**

#### ITEM 5. Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities.

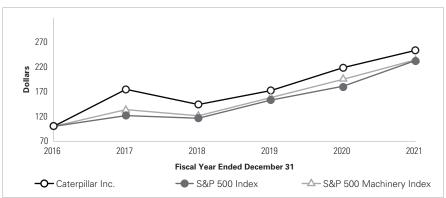
#### Common Stock (NYSE: CAT)

*Listing Information:* Caterpillar common stock is listed on the New York Stock Exchange in the United States, and on stock exchanges in France and Switzerland.

Number of Shareholders: Shareholders of record at the end of 2021 totaled 22,559, compared with 23,299 at the end of 2020.

#### Performance Graph: Total Cumulative Shareholder Return for Five-Year Period Ending December 31, 2021

The graph below shows the cumulative shareholder return assuming an investment of \$100 on December 31, 2016, and reinvestment of dividends issued thereafter.



	2016	2017	2018	2019	2020	2021
Caterpillar Inc.	\$ 100.00	\$ 175.03	\$ 144.30	\$ 172.46	\$ 218.96	\$ 253.90
S&P 500	\$ 100.00	\$ 121.83	\$ 116.49	\$ 153.17	\$ 181.35	\$ 233.41
S&P 500 Machinery	\$ 100.00	\$ 133.94	\$ 121.46	\$ 158.26	\$ 195.32	\$ 234.70

#### Non-U.S. Employee Stock Purchase Plans

As of December 31, 2021, we had 28 employee stock purchase plans (the "EIP Plans") administered outside the United States for our non-U.S. employees, which had approximately 13,000 active participants in the aggregate. During the fourth quarter of 2021, approximately 83,000 shares of Caterpillar common stock were purchased by the EIP Plans pursuant to the terms of such plans.

Period	Total Number of Shares Purchased <sup>23</sup>	Av	verage Price Paid per Share <sup>23</sup>	Total Number of Shares Purchased as Part of Publicly Announced Program	S I I P	pproximate Dollar Value of Shares that May Yet be Purchased under the Program (in billions) 1
October 1-31, 2021	908,433	\$	195.66	908,433	\$	2.966
November 1-30, 2021	2,350,143	\$	205.52	2,350,143	\$	2.483
December 1-31, 2021	1,956,330	\$	196.66	1,956,330	\$	2.099
Total	5,214,906	\$	200.48	5,214,906		

<sup>1</sup> In July 2018, the Board approved a share repurchase authorization of up to \$10.0 billion of Caterpillar common stock effective January 1, 2019, with no expiration (the 2018 Authorization). As of December 31, 2021, approximately \$2.1 billion remained available under the 2018 Authorization.

<sup>2</sup> During the fourth quarter of 2021, we entered into an ASR with a third-party financial institution to purchase \$500 million of our common stock. In November 2021, upon payment of the \$500 million to the financial institution, we received 2.0 million shares. In December 2021, upon final settlement of the ASR, we received an additional 0.5 million shares. In total, we repurchased 2.5 million shares under this ASR at an average price per share of \$200.93.

<sup>3</sup> In October, November and December of 2021, we repurchased 0.9 million, 0.4 million and 1.4 million shares respectively, for an aggregate of \$545 million in open market transactions at an average price per share of \$195.66, \$205.54 and \$201.33, respectively.

#### ITEM 6. [Reserved]

# ITEM 7. Management's Discussion and Analysis of Financial Condition and Results of Operations.

The following Management's Discussion and Analysis of Financial Condition and Results of Operations (MD&A) is intended to provide information that will assist the reader in understanding the company's Consolidated Financial Statements, the changes in certain key items in those financial statements between select periods and the primary factors that accounted for those changes. In addition, we discuss how certain accounting principles, policies and critical estimates affect our Consolidated Financial Statements. Our discussion also contains certain forward looking statements related to future events and expectations. This MD&A should be read in conjunction with our discussion of cautionary statements and significant risks to the company's business under Item 1A. Risk Factors of the 2021 Form 10-K.

#### Highlights for 2021 include:

- Sales and revenues for 2021 were \$50.971 billion, an increase of 22 percent from 2020. Sales were higher across all regions and in the three primary segments.
- Operating profit as a percent of sales and revenues was 13.5 percent in 2021, compared with 10.9 percent in 2020.
- Profit was \$11.83 per share for 2021, and excluding the items in the table below, *adjusted profit per share* was \$10.81. For 2020, profit was \$5.46 per share, and excluding the items in the table below, adjusted profit per share was \$6.56.
- In order for our results to be more meaningful to our readers, we have separately quantified the impact of several significant items. A detailed reconciliation of GAAP to non-GAAP financial measures is included on page 38.

	F	Full Year 2021						)
(Dollars in millions except per share data)	Profit Be Taxes		-	Profit r Share		it Before axes	-	rofit Share
Profit	\$ 8,	204	\$	11.83	\$	3,995	\$	5.46
Mark-to-market (gains) losses	(	(833)		(1.17)		383		0.55
Restructuring costs		90		0.15		354		0.55
Adjusted profit	\$ 7,	461	\$	10.81	\$	4,732	\$	6.56

• Enterprise operating cash flow was \$7.2 billion in 2021. Caterpillar ended 2021 with \$9.3 billion of enterprise cash.

#### **OVERVIEW**

Our sales and revenues for 2021 were \$50.971 billion, an increase of \$9.223 billion, or 22 percent, compared with \$41.748 billion in 2020. The increase was primarily due to higher sales volume, driven by higher end-user demand for equipment and services and the impact from changes in *dealer inventories*, along with favorable price realization. Profit per share was \$11.83 in 2021, compared with profit per share of \$5.46 in 2020. Profit was \$6.489 billion in 2021, compared with \$2.998 billion in 2020. The increase was primarily due to higher sales volume and favorable price realization. Mark-to-market gains for remeasurement of pension and other postemployment benefit (OPEB) plans, a lower effective tax rate, favorable impacts from foreign *currency* exchange (gains) losses and lower restructuring expenses were mostly offset by unfavorable manufacturing costs and higher selling, general and administrative (SG&A) and research and development (R&D) expenses.

Fourth-quarter 2021 sales and revenues were \$13.798 billion, up \$2.563 billion, or 23 percent, from \$11.235 billion in the fourth quarter of 2020. Fourth-quarter 2021 profit was \$3.91 per share, compared with \$1.42 per share in the fourth quarter of 2020. Fourth-quarter 2021 profit was \$2.120 billion, compared with \$780 million in the fourth quarter of 2020.

#### Response to COVID-19 and Global Business Conditions:

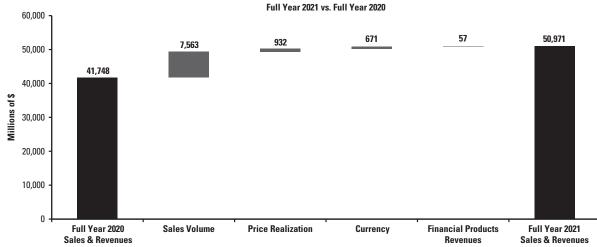
We continue to monitor a variety of external factors including the ongoing impact of the COVID-19 pandemic around the world and have implemented safeguards in our facilities to protect team members in line with local governmental requirements and guidance from health authorities.

Operations continue to be impacted by a variety of external factors including the pandemic, supply chain disruptions and associated cost and labor pressures. Areas of particular focus include certain components, transportation and raw materials. Transportation shortages have resulted in delays and increased costs. In addition, our suppliers are dealing with availability issues and freight delays, which leads to delays of production in our facilities. We continue to develop and modify contingency plans to minimize supply chain challenges that may impact our ability to meet increasing customer demand. To help mitigate supply chain challenges, we have proactively redirected components and altered our assembly processes. We continue to assess the environment and are taking appropriate price actions in response to rising costs. We will continue to monitor the situation as conditions remain fluid and evolve, but we expect these challenges to continue this year.

Notes:

- Glossary of terms included on pages 30-31; first occurrence of terms shown in bold italics.
- Information on non-GAAP financial measures is included on page 38.
- Some amounts within this report are rounded to the millions or billions and may not add. In addition, the sum of the components reported across periods may not equal the total amount reported year-to-date due to rounding.

#### **CONSOLIDATED SALES AND REVENUES**



#### **Consolidated Sales and Revenues Comparison**

The chart above graphically illustrates reasons for the change in consolidated sales and revenues between 2020 (at left) and 2021 (at right). Caterpillar management utilizes these charts internally to visually communicate with the company's Board of Directors and employees.

Total sales and revenues for 2021 were \$50.971 billion, an increase of \$9.223 billion, or 22 percent, compared with \$41.748 billion in 2020. The increase was primarily due to higher sales volume, driven by higher end-user demand for equipment and services and the impact from changes in dealer inventories, along with favorable price realization. Dealers decreased their inventories about \$2.9 billion in 2020, compared to a decrease of about \$100 million in 2021.

Sales were higher across all regions and in the three primary segments.

North America sales increased 23 percent driven by higher end-user demand for equipment and services, the impact from changes in dealer inventories and favorable price realization. Dealers decreased inventories more during 2020 than during 2021.

Sales increased 51 percent in *Latin America* due to higher end-user demand for equipment and services and the impact from changes in dealer inventories. Dealers decreased inventories during 2020, compared to an increase during 2021.

**EAME** sales increased 24 percent due to higher end-user demand for equipment and services, the impact of changes in dealer

inventories, favorable currency impacts primarily related to a stronger euro and British pound and favorable price realization. Dealers decreased inventories during 2020, compared to an increase during 2021.

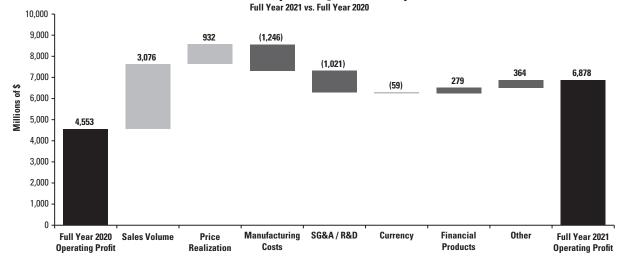
Asia/Pacific sales increased 15 percent driven by higher end-user demand for equipment and services, the impact of changes in dealer inventories and favorable currency impacts related to a stronger Australian dollar and Chinese yuan. Dealers decreased their inventories during 2020, compared to remaining about flat during 2021.

Dealers decreased their inventories about \$2.9 billion in 2020, compared to a decrease of about \$100 million in 2021. Dealers are independent, and the reasons for changes in their inventory levels vary, including their expectations of future demand and product delivery times. Dealers' demand expectations take into account seasonal changes, macroeconomic conditions, machine rental rates and other factors. Delivery times can vary based on availability of product from Caterpillar factories and product distribution centers. We expect dealer inventories to be about flat in 2022 compared to 2021.

#### Sales and Revenues by Segment

(Millions of dollars)	2020	Sales Volume	Price Realization	Currency	Inter- Segment/ Other	2021	\$ Change	% Change
Construction Industries	\$ 16,918	\$ 4,063	\$ 732	\$ 323	\$ 70	\$ 22,106	\$ 5,188	31%
Resource Industries	7,906	1,833	100	123	1	9,963	2,057	26%
Energy & Transportation	17,470	1,683	101	222	811	20,287	2,817	16%
All Other Segment	467	30	(1)	3	12	511	44	9%
Corporate Items and Eliminations	(3,739)	(46)	—	—	(894)	(4,679)	(940)	
Machinery, Energy & Transportation	39,022	7,563	932	671	_	48,188	9,166	23%
Financial Products Segment	3,044	_	_	_	29	3,073	29	1%
Corporate Items and Eliminations	(318)	_	_	_	28	(290)	28	
Financial Products Revenues	2,726	_	_	_	57	2,783	57	2%
Consolidated Sales and Revenues	\$ 41,748	\$ 7,563	\$ 932	\$ 671	\$ 57	\$ 50,971	\$ 9,223	22%

Sales and Revenue	es by Geog	raphic	Region											
	North A	merica	Latin A	merica	EAN	IE	Asia/Pa	cific	External and Rev		Inter-Se	qment	Total Sa Rever	
		%		%		%		%		%		%		%
(Millions of dollars)	\$	Chg	\$	Chg	\$	Chg	\$	Chg	\$	Chg	\$	Chg	\$	Chg
2021														
Construction Industries	\$ 9,676	31%	\$1,913	86%	\$ 4,858	40%	\$ 5,547	11%	\$ 21,994	30%	\$ 112	167%	\$22,106	31%
Resource Industries	2,987	31%	1,724	38%	1,987	27%	2,804	20%	9,502	28%	461	%	9,963	26%
Energy & Transportation	7,611	11%	1,233	32%	4,908	10%	2,918	20%	16,670	14%	3,617	29%	20,287	16%
All Other Segment	56	107%	2	(50%)	18	(31%)	69	23%	145	28%	366	3%	511	9%
Corporate Items and Eliminations	(106)	)	(1)		(1)		(15)		(123)		(4,556)	)	(4,679)	
Machinery, Energy & Transportation	20,224	23%	4,871	51%	11,770	24%	11,323	15%	48,188	23%		%	48,188	23%
Financial Products Segment	1,935	%	265	3%	402	3%	471	1%	3,073 <sup>1</sup>	1%	_	—%	3,073	1%
Corporate Items and Eliminations	(136)	)	(50)	)	(35)		(69)		(290)				(290)	
Financial Products Revenues	1,799	3%	215	—%	367	4%	402	—%	2,783	2%		%	2,783	2%
Consolidated Sales and Revenues	\$ 22,023	21%	\$5,086	48%	\$12,137	23%	\$ 11,725	14%	\$ 50,971	22%	\$ —	%	\$50,971	22%
2020		-		:		:						=		
Construction Industries	\$ 7,365		\$1,031		\$ 3,466		\$ 5,014		\$ 16,876		\$ 42		\$16,918	
Resource Industries	2,286		1,253		1,570		2,337		7,446		460		7,906	
Energy & Transportation	6,843		932		4,448		2,441		14,664		2,806		17,470	
All Other Segment	27		4		26		56		113		354		467	
Corporate Items and Eliminations	(62)	)	(4)		(6)		(5)		(77)		(3,662)	)	(3,739)	
Machinery, Energy & Transportation	16,459		3,216		9,504		9,843		39,022		_		39,022	
Financial Products Segment	1,930		257		392		465		3,044 <sup>1</sup>		_		3,044	
Corporate Items and Eliminations	(175)	)	(41)		(38)		(64)		(318)				(318)	
Financial Products Revenues	1,755		216		354		401		2,726				2,726	
Consolidated Sales and		_	<b>.</b>								•			
Revenues	\$ 18,214	-	\$3,432		\$ 9,858		\$10,244		\$ 41,748		<u>\$                                    </u>	-	\$41,748	
<sup>1</sup> Includes revenues fr	rom Machiner	y, Energy &	& Transporta	tion of \$35	1 million and	\$362 mil	llion in 2021 a	nd 2020, i	respectively.					



**Consolidated Operating Profit Comparison** 

The chart above graphically illustrates reasons for the change in consolidated operating profit between 2020 (at left) and 2021 (at right). Caterpillar management utilizes these charts internally to visually communicate with the company's Board of Directors and employees. The bar entitled Other includes consolidating adjustments and Machinery, Energy & Transportation other operating (income) expenses.

Operating profit was \$6.878 billion in 2021, an increase of \$2.325 billion, or 51 percent, compared with \$4.553 billion in 2020. The increase was due to higher sales volume, favorable price realization, higher profit from Financial Products and lower restructuring expenses (included in other), partially offset by unfavorable manufacturing costs and higher SG&A/R&D expenses.

Unfavorable manufacturing costs reflected increased freight and higher material costs. In addition, unfavorable period manufacturing costs were driven by higher short-term incentive compensation expense, which was reinstated in 2021, and higher labor costs. Unfavorable period manufacturing costs were mostly offset by favorable cost absorption and lower warranty expense. Cost absorption was favorable as inventory increased more during 2021 than during 2020.

Higher SG&A/R&D expenses reflected higher short-term incentive compensation expense and investments aligned with the company's strategy for profitable growth, including higher labor costs and acquisition-related expenses.

Short-term incentive compensation expense, which was reinstated in 2021, was \$1.3 billion in 2021, compared to no short-term incentive compensation expense recognized in 2020. Short-term incentive compensation expense is directly related to financial and operational performance, measured against targets set annually. For 2022, we expect short-term incentive compensation expense will be about \$1.0 billion.

Operating profit margin was 13.5 percent in 2021, compared with 10.9 percent in 2020.

(Millions of dollars)		2021		2020	\$ Change	% Change
Construction Industries	\$	3,706	\$	2,373	 1,333	56%
Resource Industries	, , , , , , , , , , , , , , , , , , ,	1,291	•	896	395	44%
Energy & Transportation		2,768		2,405	363	15%
All Other Segment		(14)		28	(42)	n/a
Corporate Items and Eliminations		(1,388)		(1,381)	(7)	
Machinery, Energy & Transportation		6,363		4,321	2,042	47%
Financial Products Segment		908		590	318	54%
Corporate Items and Eliminations		(92)		(53)	(39)	
Financial Products		816		537	279	52%
Consolidating Adjustments		(301)		(305)	4	
Consolidated Operating Profit	\$	6,878	\$	4,553	\$ 2,325	51%

#### 44. 44 · ·

#### **Other Profit/Loss and Tax Items**

• Interest expense excluding Financial Products in 2021 was \$488 million, compared with \$514 million in 2020. The decrease was due to lower average debt outstanding during 2021, compared with 2020.

Other income/expense in 2021 was income of \$1.814 billion, compared with expense of \$44 million in 2020. The change was primarily due to mark-to-market gains for remeasurement of pension and other postretirement benefit (OPEB) plans in 2021, compared with mark-to-market losses in 2020. Favorable impacts from foreign currency exchange gains (losses) and lower pension and OPEB plan costs also contributed to the change.

The company experienced foreign currency exchange net losses in 2020, compared with net gains in 2021.

• The provision for income taxes for 2021 reflected an annual effective tax rate of 22.9 percent compared with 27.8 percent for 2020, excluding the discrete items discussed in the following paragraph. The decrease from 2020 was primarily related to changes in the geographic mix of profits from a tax perspective.

The provision for income taxes for 2021 also included the following:

- A tax charge of \$190 million related to \$833 million of pension and OPEB mark-to-market gains in 2021, compared to a \$82 million tax benefit related to \$383 million of mark-tomarket losses in 2020.
- o A tax benefit of \$36 million to reflect changes in estimates related to prior year's U.S. taxes in 2021 compared to \$80 million in 2020.
- o A tax benefit of \$63 million in 2021, compared with \$49 million in 2020, for the settlement of stock-based compensation awards with associated tax deductions in excess of cumulative U.S. GAAP compensation expense.
- o A tax benefit of \$38 million in 2021 to recognize U.S. capital losses.

#### **Construction Industries**

Construction Industries' total sales were \$22.106 billion in 2021, an increase of \$5.188 billion, or 31 percent, compared with \$16.918 billion in 2020. The increase was due to higher sales volume, favorable price realization and favorable currency impacts related to the Chinese yuan, euro and Australian dollar. The increase in sales volume was driven by higher end-user demand for equipment and aftermarket parts and the impact from changes in dealer inventories. Dealers decreased inventories during 2020, compared with dealer inventories that were about flat during 2021.

- In North America, sales increased due to higher end-user demand, the impact from changes in dealer inventories and favorable price realization. Dealers decreased inventories more in 2020 than in 2021.
- Sales increased in Latin America primarily due to the impact from changes in dealer inventories, higher end-user demand and favorable price realization. Dealers increased inventories during 2021, compared with a decrease in 2020.

- In EAME, sales increased due to higher end-user demand, the impact from changes in dealer inventories and favorable currency impacts from a stronger euro and British pound. Dealers increased inventories during 2021, compared with a decrease in 2020.
- Sales increased in Asia/Pacific due to the impact from changes in dealer inventories and favorable currency impacts related to the Chinese yuan and Australian dollar. Dealers decreased inventories during 2020, compared with a slight increase in 2021.

Construction Industries' profit was \$3.706 billion in 2021, an increase of \$1.333 billion, or 56 percent, compared with \$2.373 billion in 2020. The increase was mainly due to higher sales volume and favorable price realization, partially offset by unfavorable manufacturing costs and higher SG&A/R&D expenses.

Unfavorable manufacturing costs reflected higher material costs, increased variable labor and burden, primarily freight, and higher period manufacturing costs. The increase in period manufacturing costs was driven by higher short-term incentive compensation expense and higher labor costs.

Higher SG&A/R&D expenses were driven primarily by higher short-term incentive compensation expense.

Construction Industries' profit as a percent of total sales was 16.8 percent in 2021, compared with 14.0 percent in 2020.

#### **Resource Industries**

Resource Industries' total sales were \$9.963 billion in 2021, an increase of \$2.057 billion, or 26 percent, compared with \$7.906 billion in 2020. The increase was due to higher sales volume driven by higher end-user demand for equipment and aftermarket parts and the impact from changes in dealer inventories. End-user demand was higher in mining as well as heavy construction and quarry and aggregates. Dealers decreased inventories more during 2020 than during 2021.

Resource Industries' profit was \$1.291 billion in 2021, an increase of \$395 million, or 44 percent, compared with \$896 million in 2020. The increase was mainly due to higher sales volume and favorable price realization, partially offset by unfavorable manufacturing costs and higher SG&A/R&D expenses.

Unfavorable manufacturing costs reflected higher variable labor and burden, primarily freight, as well as higher material and period manufacturing costs, partially offset by the favorable impact of cost absorption. Higher period manufacturing costs were driven by higher short-term incentive compensation expense. Cost absorption was favorable as inventory increased during 2021, compared with a decrease during 2020.

Higher SG&A/R&D expenses were driven primarily by higher shortterm incentive compensation expense and investments aligned with growth initiatives, primarily labor costs.

Resource Industries' profit as a percent of total sales was 13.0 percent for 2021, compared with 11.3 percent for 2020.

#### Energy & Transportation

#### **Sales by Application**

(Millions of dollars)	2021		2020		\$ Change		% Change
Oil and Gas	\$	4,460	\$	3,701	\$	759	21%
Power Generation		4,292		3,963		329	8%
Industrial		3,612		2,945		667	23%
Transportation		4,306		4,055		251	6%
External Sales		16,670		14,664		2,006	14%
Inter-Segment		3,617		2,806		811	29%
Total Sales	\$	20,287	\$	17,470	\$	2,817	16%

Energy & Transportation's total sales were \$20.287 billion in 2021, an increase of \$2.817 billion, or 16 percent, compared with \$17.470 billion in 2020. Sales increased across all applications and intersegment sales.

- Oil and Gas Sales increased mainly due to higher sales of reciprocating engine aftermarket parts in all regions as well as higher sales in turbines and turbine-related services.
- Power Generation Sales increased due to higher sales of aftermarket parts and large reciprocating engines, primarily data centers. Sales also increased due to favorable currency impacts.
- Industrial Sales increased due to higher demand across all regions.
- Transportation Sales increased due to higher deliveries of locomotives, which were primarily international, and rail services. Sales also increased due to favorable currency impacts.

Energy & Transportation's profit was \$2.768 billion in 2021, an increase of \$363 million, or 15 percent, compared with \$2.405 billion in 2020. The increase was due to higher sales volume and favorable price realization, partially offset by unfavorable manufacturing costs and higher SG&A/R&D expenses. Increased manufacturing costs were mainly driven by higher period manufacturing costs and higher variable labor and burden, primarily freight. In addition, segment profit was favorably impacted by lower other operating expense.

Both SG&A/R&D expenses and period manufacturing costs were driven by higher short-term incentive compensation expense and investments aligned with growth initiatives, including acquisition-related expenses.

Energy & Transportation's profit as a percent of total sales was 13.6 percent in 2021, compared with 13.8 percent in 2020.

#### **Financial Products Segment**

Financial Products' segment revenues were \$3.073 billion in 2021, an increase of \$29 million, or 1 percent, from 2020.

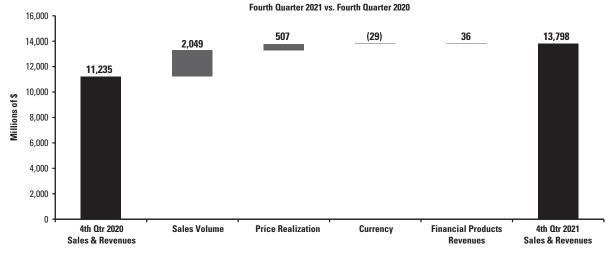
Financial Products' segment profit was \$908 million in 2021, an increase of \$318 million, or 54 percent, compared with \$590 million in 2020. The increase was primarily due to lower provision for credit losses at Cat Financial, a favorable impact from returned or repossessed equipment and a favorable impact from equity securities in Insurance Services. These favorable impacts were partially offset by an increase in SG&A expenses primarily due to higher short-term incentive compensation expense.

At the end of 2021, past dues at Cat Financial were 1.95 percent, compared with 3.49 percent at the end of 2020. Past dues decreased across all portfolio segments as global markets generally improved. Write-offs, net of recoveries, were \$205 million for 2021, compared with \$222 million for 2020. As of December 31, 2021, Cat Financial's allowance for credit losses totaled \$337 million, or 1.22 percent of finance receivables, compared with \$479 million, or 1.77 percent of finance receivables at December 31, 2020.

#### **Corporate Items and Eliminations**

Expense for corporate items and eliminations was \$1.480 billion in 2021, a slight increase of \$46 million from 2020.

### **CONSOLIDATED SALES AND REVENUES**



# **Consolidated Sales and Revenues Comparison**

The chart above graphically illustrates reasons for the change in consolidated sales and revenues between the fourth quarter of 2020 (at left) and the fourth quarter of 2021 (at right). Caterpillar management utilizes these charts internally to visually communicate with the company's Board of Directors and employees.

Total sales and revenues for the fourth quarter of 2021 were \$13.798 billion, an increase of \$2.563 billion, or 23 percent, compared with \$11.235 billion in the fourth quarter of 2020. The increase was mostly due to higher sales volume, driven by higher end-user demand for equipment and services and the impact from changes in dealer inventories, along with favorable price realization. Dealers decreased inventories during the fourth quarter of 2020, compared to remaining about flat during the fourth quarter of 2021.

Sales were higher across the three primary segments.

North America sales increased 29 percent due to the impact from changes in dealer inventories, higher end-user demand for services and favorable price realization. Dealers decreased inventories during the fourth quarter of 2020, compared with dealer inventories that were about flat during the fourth quarter of 2021.

Sales increased 40 percent in Latin America primarily due to higher end-user demand for equipment and services and favorable price realization. EAME sales increased 24 percent primarily due to higher end-user demand for equipment and services and the impact from changes in dealer inventories. Dealers decreased inventories more during the fourth quarter of 2020 than during the fourth quarter of 2021.

Asia/Pacific sales increased 9 percent primarily due to the impact from changes in dealer inventories, higher end-user demand for equipment and services and favorable price realization. Dealers decreased inventories during the fourth quarter of 2020, compared with an increase during the fourth quarter of 2021.

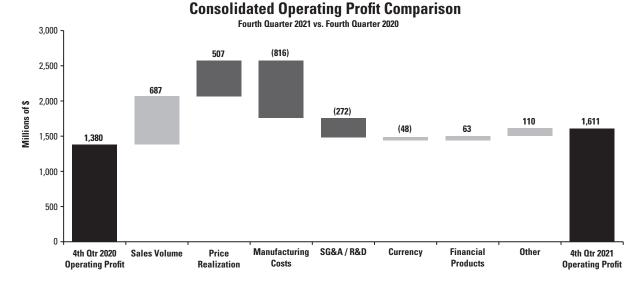
Dealers decreased inventories about \$1.100 billion during the fourth quarter of 2020, compared to a decrease of about \$100 million during the fourth quarter of 2021. Dealers are independent, and the reasons for changes in their inventory levels vary, including their expectations of future demand and product delivery times. Dealers' demand expectations take into account seasonal changes, macroeconomic conditions, machine rental rates and other factors. Delivery times can vary based on availability of product from Caterpillar factories and product distribution centers.

(Millions of dollars)		Fourth Quarter 2020	Sales Volume	Price lization	(	Currency	S	Inter- egment/ Other	Fourth Quarter 2021	(	\$ Change	% Change
Construction Industries	\$	4,508	\$ 929	\$ 299	\$	(23)	\$	23	\$ 5,736	\$	1,228	27%
Resource Industries		2,180	467	121		2		(8)	2,762		582	27%
Energy & Transportation		4,811	640	88		(7)		196	5,728		917	19%
All Other Segment		137	7	_		(1)		(9)	134		(3)	(2%)
Corporate Items and Eliminations		(1,066)	6	(1)		_		(202)	(1,263)		(197)	
Machinery, Energy & Transportation		10,570	2,049	 507		(29)		_	13,097		2,527	24%
Financial Products Segment		743	_	_		_		33	776		33	4%
Corporate Items and Eliminations		(78)	_	_		_		3	(75)		3	
Financial Products Revenues	_	665	_			_		36	701		36	5%
Consolidated Sales and Revenues	\$	11,235	\$ 2,049	\$ 507	\$	(29)	\$	36	\$ 13,798	\$	2,563	23%

#### Sales and Revenues by Segment

Sales and Revenue	s by	/ Geogra	phic Re	egion											
		North An	nerica	Latin A	merica	EA	ME	Asia/I	Pacific	External S Reve			egment	Total Sa Reve	ales an enues
			%		%		%		%		%		%	·	%
(Millions of dollars)	.—	\$	Chg	\$\$	Chg	\$	Chg	\$	Chg	\$\$	Chg	\$	Chg	\$	Chg
Fourth Quarter 2021	<u>!</u>														
Construction Industries	\$	2,635	39%	\$ 563	74%	\$ 1,246	47%	\$ 1,245	(12%)	\$ 5,689	27%	\$ 47	96%	\$ 5,736	27%
Resource Industries		857	44%	415	5%	532	29%	839	29%	2,643	29%	119	(6%)	2,762	27%
Energy & Transportation		1,913	12%	398	50%	1,475	9%	965	36%	4,751	18%	977	25%	5,728	19%
All Other Segment		14	180%	1	%	8	(11%)	15	(17%)	38	19%	96	(9%)	134	(2%
Corporate Items and Eliminations		(17)		_		_		(7)		(24)		(1,239	)	(1,263)	
Machinery, Energy & Transportation	<u>k</u>	5,402	29%	1,377	40%	3,261	24%	3,057	9%	13,097	24%		%	13,097	24%
Financial Products Segment		493	6%	70	9%	101	7%	112	(7%)	776 <sup>1</sup>	4%	_	%	776	4%
Corporate Items and Eliminations		(37)		(15)		(9)		(14)		(75)		_		(75)	
Financial Products Revenues		456	8%	55	2%	92	10%	98	(6%)	701	5%	_	%	701	5%
Consolidated Sales and Revenues	\$	5,858	27%	\$ 1,432	38%	\$ 3,353	24%	\$ 3,155	9%	\$ 13,798	23%	\$ —	%	\$ 13,798	23%
Fourth Quarter 2020	2												_		
Construction Industries	\$	1,895		\$ 324		\$ 848		\$ 1,417		\$ 4,484		\$ 24		\$ 4,508	
Resource Industries		596		394		412		651		2,053		127		2,180	
Energy & Transportation		1,705		265		1,353		707		4,030		781		4,811	
All Other Segment		5		—		9		18		32		105		137	
Corporate Items and Eliminations		(27)		1	-	(2)		(1)	_	(29)		(1,037	)	(1,066)	
Machinery, Energy 8 Transportation	k	4,174		984		2,620		2,792		10,570		_		10,570	
Financial Products Segment		464		64		94		121		743 <sup>1</sup>		_		743	
Corporate Items and Eliminations		(41)		(10)		(10)		(17)		(78)			_	(78)	
Financial Products Revenues		423		54		84		104		665				665	
Consolidated Sales and Revenues	\$	4,597		\$ 1,038		\$ 2,704		\$ 2,896		\$ 11,235		\$ —		\$ 11,235	
<ol> <li>Includes revenues from</li> </ol>	_		noray 8		n of ¢go		oth tho th		: andad Day		and 2020		-		

#### **CONSOLIDATED OPERATING PROFIT**



The chart above graphically illustrates reasons for the change in consolidated operating profit between the fourth quarter of 2020 (at left) and the fourth quarter of 2021 (at right). Caterpillar management utilizes these charts internally to visually communicate with the company's Board of Directors and employees. The bar entitled Other includes consolidating adjustments and Machinery, Energy & Transportation other operating (income) expenses.

Operating profit for the fourth quarter of 2021 was \$1.611 billion, an increase of \$231 million, or 17 percent, compared with \$1.380 billion in the fourth quarter of 2020. Higher manufacturing costs and selling, general and administrative (SG&A) and research and development (R&D) expenses were more than offset by higher sales volume, favorable price realization and net restructuring income due to a gain on the sale of a facility.

Unfavorable manufacturing costs reflected higher variable labor and burden, primarily freight, and higher material costs.

The increase in SG&A/R&D expenses was driven by higher short-term incentive compensation expense, which was reinstated

in 2021, higher labor costs due to increased headcount and investments aligned with the company's strategy for profitable growth, including acquisition-related expenses.

Short-term incentive compensation expense, which was reinstated in 2021, was about \$200 million in the fourth quarter of 2021, compared to no short-term incentive compensation expense recognized in the fourth quarter of 2020.

Operating profit margin was 11.7 percent for the fourth quarter of 2021, compared with 12.3 percent for the fourth quarter of 2020.

Profit (Loss) by Segment					
(Millions of dollars)	Four	th Quarter 2021	Fourth Quarter 2020	\$ Change	% Change
Construction Industries	\$	788	\$ 630	\$ 158	25%
Resource Industries		305	273	32	12%
Energy & Transportation		675	687	(12)	(2%)
All Other Segment		(12)	(3)	(9)	(300%)
Corporate Items and Eliminations		(281)	(281)	—	
Machinery, Energy & Transportation		1,475	1,306	169	13%
Financial Products Segment		248	195	53	27%
Corporate Items and Eliminations		(37)	(47)	10	
Financial Products		211	148	63	43%
Consolidating Adjustments		(75)	(74)	(1)	
Consolidated Operating Profit	\$	1,611	\$ 1,380	\$ 231	17%

### Profit (Loss) by Segment

#### **Other Profit/Loss and Tax Items**

- Interest expense excluding Financial Products in the fourth quarter of 2021 was \$112 million, compared with \$130 million in the fourth quarter of 2020. The decrease was due to lower average debt outstanding during the fourth quarter of 2021, compared with the fourth quarter of 2020.
- Other income (expense) in the fourth quarter of 2021 was income of \$1.063 billion, compared with expense of \$309 million in the fourth quarter of 2020. The change was primarily driven by mark-to-market gains for remeasurement of pension and OPEB plans in the fourth quarter of 2021, compared with mark-to-market losses in the fourth quarter of 2020.
- The provision for income taxes for the fourth quarter of 2021 reflected an annual effective tax rate of 22.9 percent, compared with 27.8 percent for the fourth quarter of 2020, excluding the discrete items discussed in the following paragraph. The decrease from 2020 was primarily related to changes in the geographic mix of profits from a tax perspective.

The provision for income taxes for the fourth quarter of 2021 also included the following:

- o A tax benefit of \$118 million for the change from the third-quarter estimated annual tax rate of 25 percent, compared to a \$96 million benefit for the reduction in the annual effective tax rate in the fourth quarter of 2020.
- o A tax charge of \$190 million related to \$833 million of pension and OPEB mark-to-market gains in the fourth quarter of 2021, compared to a \$92 million tax benefit related to \$438 million of mark-to-market losses in the fourth quarter of 2020.
- o A tax benefit of \$40 million in the fourth quarter of 2021 primarily related to recognition of U.S. capital losses compared to \$28 million in the fourth quarter of 2020 for the settlement of stock-based compensation awards with associated tax deductions in excess of cumulative U.S. GAAP compensation expense.

### **Construction Industries**

Construction Industries' total sales were \$5.736 billion in the fourth quarter of 2021, an increase of \$1.228 billion, or 27 percent, compared with \$4.508 billion in the fourth quarter of 2020. The increase was due to higher sales volume, driven by the impact from changes in dealer inventories and higher end-user demand, along with favorable price realization. Dealers decreased inventories more during the fourth quarter of 2020 than during the fourth quarter of 2021.

- In North America, sales increased due to higher sales volume and favorable price realization. Higher sales volume was driven by the impact from changes in dealer inventories as dealers decreased inventories more during the fourth quarter of 2020 than during the fourth quarter of 2021.
- Sales increased in Latin America primarily due to higher sales volume and favorable price realization. Higher sales volume was

driven by higher end-user demand and the impact from changes in dealer inventories. Dealers increased inventories during the fourth quarter of 2021, compared to a decrease during the fourth quarter of 2020.

- In EAME, sales increased due to higher sales volume from higher end-user demand and the impact of changes in dealer inventories. Dealers decreased inventories more during the fourth quarter of 2020 than during the fourth quarter of 2021.
- Sales decreased in Asia/Pacific primarily due to lower sales volume, partially offset by favorable price realization. Decreased sales volume reflected lower end-user demand, partially offset by the impact from changes in dealer inventories. Lower sales in China, driven by lower end-user demand, were partially offset by higher sales across most of the rest of the region. Dealers decreased inventories during the fourth quarter of 2020, compared to an increase during the fourth quarter of 2021.

Construction Industries' profit was \$788 million in the fourth quarter of 2021, an increase of \$158 million, or 25 percent, compared with \$630 million in the fourth quarter of 2020. Higher manufacturing costs and SG&A/R&D expenses were more than offset by higher sales volume and favorable price realization. Increased manufacturing costs reflected higher variable labor and burden, primarily freight, as well as higher material costs.

The increase in SG&A/R&D expenses was driven by higher short-term incentive compensation expense.

Construction Industries' profit as a percent of total sales was 13.7 percent in the fourth quarter of 2021, compared with 14.0 percent in the fourth quarter of 2020.

#### **Resource Industries**

Resource Industries' total sales were \$2.762 billion in the fourth quarter of 2021, an increase of \$582 million, or 27 percent, compared with \$2.180 billion in the fourth quarter of 2020. The increase was primarily due to higher sales volume, driven by higher end-user demand for equipment and aftermarket parts, and favorable price realization. End-user demand was higher in mining as well as heavy construction and quarry and aggregates.

Resource Industries' profit was \$305 million in the fourth quarter of 2021, an increase of \$32 million, or 12 percent, compared with \$273 million in the fourth quarter of 2020. Increased manufacturing costs and SG&A/R&D expenses were more than offset by higher sales volume and favorable price realization. Unfavorable manufacturing costs reflected higher variable labor and burden, primarily freight, and material costs.

The increase in SG&A/R&D expenses was driven by investments aligned with growth initiatives, primarily labor, and higher short-term incentive compensation expense.

Resource Industries' profit as a percent of total sales was 11.0 percent in the fourth quarter of 2021, compared with 12.5 percent in the fourth quarter of 2020.

### Energy & Transportation

Sales by Application						
(Millions of dollars)	Four	th Quarter 2021	Fourth Quar 2020	ter	\$ Change	% Change
Oil and Gas	\$	1,320	\$ 1,0	)79 \$	5 241	22%
Power Generation		1,267	1,	180	87	7%
Industrial		952	-	736	216	29%
Transportation		1,212	1,0	)35	177	17%
External Sales		4,751	4,0	)30	721	18%
Inter-Segment		977		781	196	25%
Total Sales	\$	5,728	\$ 4,	811 \$	917	19%

Energy & Transportation's total sales were \$5.728 billion in the fourth quarter of 2021, an increase of \$917 million, or 19 percent, compared with \$4.811 billion in the fourth quarter of 2020. Sales increased across all applications and inter-segment sales.

- Oil and Gas Sales increased for reciprocating engines aftermarket parts across all regions, turbines and turbine-related services and reciprocating engines used in gas compression.
- Power Generation Sales rose due to higher sales volume in reciprocating engines aftermarket parts and small reciprocating engine applications.
- Industrial Sales were up due to higher demand across all regions.
- Transportation Sales increased due to higher deliveries of locomotives, which were primarily international, and rail services.

Energy & Transportation's profit was \$675 million in the fourth quarter of 2021, a decrease of \$12 million, or 2 percent, compared with \$687 million in the fourth quarter of 2020. The decrease was due to unfavorable manufacturing costs and higher SG&A/R&D expenses, mostly offset by higher sales volume and favorable price realization. Unfavorable manufacturing costs reflected higher variable labor and burden, primarily freight, higher period manufacturing and material costs.

Both SG&A/R&D expenses and period manufacturing costs increased primarily due to higher short-term incentive compensation expense and investments aligned with growth initiatives, including acquisition-related expenses.

Energy & Transportation's profit as a percent of total sales was 11.8 percent in the fourth quarter of 2021, compared with 14.3 percent in the fourth quarter of 2020.

#### **Financial Products Segment**

Financial Products' segment revenues were \$776 million in the fourth quarter of 2021, an increase of \$33 million, or 4 percent, from the fourth quarter of 2020.

Financial Products' segment profit was \$248 million in the fourth quarter of 2021, an increase of \$53 million, or 27 percent, compared with \$195 million in the fourth quarter of 2020. The increase was mainly due to a favorable impact from returned or repossessed equipment and lower provision for credit losses at Cat Financial, partially offset by an increase in SG&A expenses primarily due to higher short-term incentive compensation expense.

#### **Corporate Items and Eliminations**

Expense for corporate items and eliminations was \$318 million in the fourth quarter of 2021, about flat to the fourth quarter of 2020.

# 2020 COMPARED WITH 2019

For discussions related to the consolidated sales and revenue and consolidated operating profit between 2020 and 2019, refer to Part II, Item 7. Management's Discussion and Analysis of Financial Condition and Results of Operations of the Company's Annual Report on Form 10-K for the fiscal year ended December 31, 2020, which was filed with the United States Securities and Exchange Commission on February 17, 2021.

# **RESTRUCTURING COSTS**

In 2022, we expect to incur about \$600 million of restructuring costs primarily related to strategic actions to address a small number of products. We expect that prior restructuring actions will result in an incremental benefit to operating costs, primarily Costs of goods sold and SG&A expenses of about \$75 million in 2022 compared with 2021.

Additional information related to restructuring costs is included in Note 25 - "Restructuring Costs" of Part II, Item 8 "Financial Statements and Supplemental Data."

# **GLOSSARY OF TERMS**

- 1. Adjusted Operating Profit Margin Operating profit excluding restructuring costs as a percent of sales and revenues.
- Adjusted Profit Per Share Profit per share excluding pension and OPEB mark-to-market gains/losses and restructuring income/costs.
- 3. All Other Segment Primarily includes activities such as: business strategy; product management and development; manufacturing and sourcing of filters and fluids, undercarriage, ground-engaging tools, fluid transfer products, precision seals, rubber sealing and connecting components primarily for Cat® products; parts distribution; integrated logistics solutions; distribution services responsible for dealer development and administration, including a wholly owned dealer in Japan; dealer portfolio management and ensuring the most efficient and effective distribution of machines, engines and parts; brand management and marketing strategy; and digital investments for new customer and dealer solutions that integrate data analytics with state-of-the-art digital technologies while transforming the buying experience.
- Consolidating Adjustments Elimination of transactions between Machinery, Energy & Transportation and Financial Products.
- 5. Construction Industries A segment primarily responsible for supporting customers using machinery in infrastructure and building construction applications. Responsibilities include business strategy, product design, product management and development, manufacturing, marketing and sales and product support. The product portfolio includes asphalt pavers; backhoe loaders; compactors; cold planers; compact track and multi-terrain loaders; mini, small, medium and large track excavators; motor graders; pipelayers; road reclaimers; skid steer loaders; telehandlers; small and medium track-type tractors; track-type loaders; utility vehicles; wheel excavators; compact, small and medium wheel loaders; and related parts and work tools.
- Corporate Items and Eliminations Includes corporate-level expenses, timing differences (as some expenses are reported in segment profit on a cash basis), methodology differences between segment and consolidated external reporting, certain restructuring costs and inter-segment eliminations.
- 7. **Currency** – With respect to sales and revenues, currency represents the translation impact on sales resulting from changes in foreign currency exchange rates versus the U.S. dollar. With respect to operating profit, currency represents the net translation impact on sales and operating costs resulting from changes in foreign currency exchange rates versus the U.S. dollar. Currency only includes the impact on sales and operating profit for the Machinery, Energy & Transportation line of business; currency impacts on Financial Products revenues and operating profit are included in the Financial Products portions of the respective analyses. With respect to other income/expense, currency represents the effects of forward and option contracts entered into by the company to reduce the risk of fluctuations in exchange rates (hedging) and the net effect of changes in foreign currency exchange rates on our foreign currency assets and liabilities for consolidated results (translation).
- 8. **Dealer Inventories** Represents dealer machine and engine inventories, excluding aftermarket parts.
- 9. **EAME** A geographic region including Europe, Africa, the Middle East and the Commonwealth of Independent States (CIS).
- Earning Assets Assets consisting primarily of total finance receivables net of unearned income, plus equipment on operating leases, less accumulated depreciation at Cat Financial.

- 11. Energy & Transportation A segment primarily responsible for supporting customers using reciprocating engines, turbines, diesel-electric locomotives and related services across industries serving Oil and Gas, Power Generation, Industrial and Transportation applications, including marine- and rail-related businesses. Responsibilities include business strategy, product design, product management and development, manufacturing, marketing and sales and product support. The product and services portfolio includes turbines, centrifugal gas compressors, and turbine-related services; reciprocating engine-powered generator sets; integrated systems used in the electric power generation industry; reciprocating engines and integrated systems and solutions for the marine and oil and gas industries; reciprocating engines supplied to the industrial industry as well as Cat machinery; and dieselelectric locomotives and components and other rail-related products and services, including remanufacturing and leasing. Responsibilities also include the remanufacturing of Caterpillar reciprocating engines and components and remanufacturing services for other companies; and product support of on-highway vocational trucks for North America. 12. Financial Products - The company defines Financial Products
  - 12. Financial Products The company defines Financial Products as our finance and insurance subsidiaries, primarily Caterpillar Financial Services Corporation (Cat Financial) and Caterpillar Insurance Holdings Inc. (Insurance Services). Financial Products' information relates to the financing to customers and dealers for the purchase and lease of Caterpillar and other equipment.
  - 13. Financial Products Segment Provides financing alternatives to customers and dealers around the world for Caterpillar products, as well as financing for vehicles, power generation facilities and marine vessels that, in most cases, incorporate Caterpillar products. Financing plans include operating and finance leases, installment sale contracts, repair/rebuild financing, working capital loans and wholesale financing plans. The segment also provides insurance and risk management products and services that help customers and dealers manage their business risk. Insurance and risk management products offered include physical damage insurance, inventory protection plans, extended service coverage and maintenance plans for machines and engines, and dealer property and casualty insurance. The various forms of financing, insurance and risk management products offered to customers and dealers help support the purchase and lease of Caterpillar equipment. The segment also earns revenues from Machinery, Energy & Transportation, but the related costs are not allocated to operating segments. Financial Products' segment profit is determined on a pretax basis and includes other income/ expense items.
  - 14. Latin America A geographic region including Central and South American countries and Mexico.
  - Machinery, Energy & Transportation (ME&T) The company defines ME&T as Caterpillar Inc. and its subsidiaries, excluding Financial Products. ME&T's information relates to the design, manufacturing and marketing of its products.
  - Machinery, Energy & Transportation Other Operating (Income) Expenses – Comprised primarily of gains/losses on disposal of long-lived assets, gains/losses on divestitures and legal settlements and accruals.
  - 17. Manufacturing Costs Manufacturing costs exclude the impacts of currency and represent the volume-adjusted change for variable costs and the absolute dollar change for period manufacturing costs. Variable manufacturing costs are defined as having a direct relationship with the volume of production. This includes material costs, direct labor and other costs that vary directly with production volume, such as freight, power to operate machines and supplies that are consumed in the

manufacturing process. Period manufacturing costs support production but are defined as generally not having a direct relationship to short-term changes in volume. Examples include machinery and equipment repair, depreciation on manufacturing assets, facility support, procurement, factory scheduling, manufacturing planning and operations management.

- 18. Mark-to-market gains/losses Represents the net gain or loss of actual results differing from the company's assumptions and the effects of changing assumptions for our defined benefit pension and OPEB plans. These gains and losses are immediately recognized through earnings upon the annual remeasurement in the fourth quarter, or on an interim basis as triggering events warrant remeasurement.
- 19. **Pension and Other Postemployment Benefits (OPEB)** The company's defined-benefit pension and postretirement benefit plans.
- 20. Price Realization The impact of net price changes excluding currency and new product introductions. Price realization includes geographic mix of sales, which is the impact of changes in the relative weighting of sales prices between geographic regions.
- 21. Resource Industries A segment primarily responsible for supporting customers using machinery in mining, heavy construction and quarry and aggregates. Responsibilities include business strategy, product design, product management and development, manufacturing, marketing and sales and product support. The product portfolio includes large track-type tractors; large mining trucks; hard rock vehicles; longwall miners; electric rope shovels; draglines; hydraulic shovels; rotary drills; large wheel loaders; off-highway trucks; articulated trucks; wheel tractor scrapers; wheel dozers; landfill compactors; soil compactors; select work tools; machinery components; electronics and control systems and related parts. In addition to equipment, Resource Industries also develops and sells technology products and services to provide customers fleet management, equipment management analytics, autonomous machine capabilities, safety services and mining performance solutions. Resource Industries also manages areas that provide services to other parts of the company, including integrated manufacturing, research and development for drivetrains, hydraulic systems, electronics and software for Cat machines and engines.
- 22. Restructuring Costs May include costs for employee separation, long-lived asset impairments and contract terminations. These costs are included in Other operating (income) expenses except for defined-benefit plan curtailment losses and special termination benefits, which are included in Other income (expense). Restructuring costs also include other exit-related costs, which may consist of accelerated depreciation, inventory write-downs, building demolition, equipment relocation and project management costs and LIFO inventory decrement benefits from inventory liquidations at closed facilities, all of which are primarily included in Cost of goods sold.
- 23. Sales Volume With respect to sales and revenues, sales volume represents the impact of changes in the quantities sold for Machinery, Energy & Transportation as well as the incremental sales impact of new product introductions, including emissions-related product updates. With respect to operating profit, sales volume represents the impact of changes in the quantities sold for Machinery, Energy & Transportation combined with product mix as well as the net operating profit impact of new product introductions, including emissions-related product updates. Product mix represents the net operating profit impact of changes in the relative weighting of Machinery, Energy & Transportation sales with respect to total sales. The impact of sales volume on segment profit includes inter-segment sales.

24. **Services** – Enterprise services include, but are not limited to, aftermarket parts, Financial Products revenues and other service-related revenues. Machinery, Energy & Transportation segments exclude most Financial Products revenues.

# LIQUIDITY AND CAPITAL RESOURCES

#### Sources of funds

We generate significant capital resources from operating activities, which are the primary source of funding for our ME&T operations. Funding for these businesses is also available from commercial paper and long-term debt issuances. Financial Products' operations are funded primarily from commercial paper, term debt issuances and collections from its existing portfolio. During 2021, we had positive operating cash flow within both our ME&T and Financial Products' operations. On a consolidated basis, we ended 2021 with \$9.25 billion of cash, a decrease of \$98 million from year-end 2020. We intend to maintain a strong cash and liquidity position.

Consolidated operating cash flow for 2021 was \$7.20 billion, up \$871 million compared to 2020. The increase was primarily due to profit before taxes adjusted for non-cash items, including higher accruals for short-term incentive compensation. In addition, lower payments for short-term incentive compensation favorably impacted cash flow. Partially offsetting these items were increased working capital requirements compared to last year. Within working capital, changes in accounts receivable and inventory unfavorably impacted cash flow but were partially offset by favorable changes in accounts payable and accrued expenses. See further discussion of operating cash flow under ME&T and Financial Products.

Total debt as of December 31, 2021 was \$37.79 billion, an increase of \$626 million from year-end 2020. Debt related to ME&T decreased \$1.37 billion in 2021 due to the repayment of maturing debt. In addition, during the first quarter of 2021, we issued \$500 million of ten year bonds at 1.9 percent and utilized the net proceeds to redeem all our \$500 million 2.6 percent notes due in 2022. Debt related to Financial products increased by \$2.01 billion due to portfolio funding requirements.

We have three global credit facilities with a syndicate of banks totaling \$10.50 billion (Credit Facility) available in the aggregate to both Caterpillar and Cat Financial for general liquidity purposes. Based on management's allocation decision, which can be revised from time to time, the portion of the Credit Facility available to ME&T as of December 31, 2021 was \$2.75 billion. Information on our Credit Facility is as follows:

- The 364-day facility of \$3.15 billion (of which \$825 million is available to ME&T) expires on September 1, 2022.
- The three-year facility, as amended and restated in September 2021, of \$2.73 billion (of which \$715 million is available to ME&T) expires in September 2024.
- The five-year facility, as amended and restated in September 2021, of \$4.62 billion (of which \$1.21 billion is available to ME&T) expires in September 2026.

At December 31, 2021, Caterpillar's consolidated net worth was \$16.58 billion, which was above the \$9.00 billion required under the Credit Facility. The consolidated net worth is defined as the consolidated shareholder's equity including preferred stock but excluding the pension and other postretirement benefits balance within Accumulated other comprehensive income (loss).

At December 31, 2021, Cat Financial's covenant interest coverage ratio was 2.51 to 1. This is above the 1.15 to 1 minimum ratio, calculated as (1) profit excluding income taxes, interest expense and net gain/(loss) from interest rate derivatives to (2) interest expense calculated at the end of each calendar quarter for the rolling four quarter period then most recently ended, required by the Credit Facility. In addition, at December 31, 2021, Cat Financial's six-month covenant leverage ratio was 7.25 to 1 and year-end covenant leverage ratio was 7.91 to 1. This is below the maximum ratio of debt to net worth of 10 to 1, calculated (1) on a monthly basis as the average of the leverage ratios determined on the last day of each of the six preceding calendar months and (2) at each December 31, required by the Credit Facility.

In the event Caterpillar or Cat Financial does not meet one or more of their respective financial covenants under the Credit Facility

in the future (and are unable to obtain a consent or waiver), the syndicate of banks may terminate the commitments allocated to the party that does not meet its covenants. Additionally, in such event, certain of Cat Financial's other lenders under other loan agreements where similar financial covenants or cross default provisions are applicable, may, at their election, choose to pursue remedies under those loan agreements, including accelerating the repayment of outstanding borrowings. At December 31, 2021, there were no borrowings under the Credit Facility.

Our total credit commitments and available credit as of December 31, 2021 were:

			Dece	mber 31, 2021	
(Millions of dollars)	Con	solidated	E	achinery, nergy & sportation	Financial Products
Credit lines available:					
Global credit facilities	\$	10,500	\$	2,750	\$ 7,750
Other external		3,251		184	3,067
Total credit lines available		13,751		2,934	10,817
Less: Commercial paper outstanding		(4,896)		_	(4,896)
Less: Utilized credit		(568)		(9)	(559)
Available credit	\$	8,287	\$	2,925	\$ 5,362

The other consolidated credit lines with banks as of December 31, 2021 totaled \$3.25 billion. These committed and uncommitted credit lines, which may be eligible for renewal at various future dates or have no specified expiration date, are used primarily by our subsidiaries for local funding requirements. Caterpillar or Cat Financial may guarantee subsidiary borrowings under these lines.

We receive debt ratings from the major credit rating agencies. Moody's, Fitch and S&P maintain a "mid-A" debt rating. A downgrade of our credit ratings by any of the major credit rating agencies would result in increased borrowing costs and could make access to certain credit markets more difficult. In the event economic conditions deteriorate such that access to debt markets becomes unavailable, ME&T's operations would rely on cash flow from operations, use of existing cash balances, borrowings from Cat Financial and access to our committed credit facilities. Our Financial Products' operations would rely on cash flow from its existing portfolio, existing cash balances, access to our committed credit facilities and other credit line facilities of Cat Financial, and potential borrowings from Caterpillar. In addition, we maintain a support agreement with Cat Financial, which requires Caterpillar to remain the sole owner of Cat Financial and may, under certain circumstances, require Caterpillar to make payments to Cat Financial should Cat Financial fail to maintain certain financial ratios.

We facilitate voluntary supply chain finance programs (the "Programs") through participating financial institutions. The Programs are available to a wide range of suppliers and allows them the option to manage their cash flow. We are not a party to the agreements between the participating financial institutions and the suppliers in connection with the Programs. The range of payment terms we negotiate with our suppliers is consistent, irrespective of whether a supplier participates in the Programs. The amounts payable to participating financial institutions for suppliers who voluntarily participate in the Programs and included in accounts payable in the Consolidated Statement of Financial

Position were \$822 million and \$533 million at December 31, 2021 and December 31, 2020, respectively. The amounts settled through the Programs and paid to participating financial institutions were \$4.1 billion and \$3.2 billion in 2021 and 2020, respectively. We account for payments made under the Programs, the same as our other accounts payable, as a reduction to our cash flows from operations. We do not believe that changes in the availability of supply chain financing will have a significant impact on our liquidity.

#### Material cash requirements for contractual obligations

We believe our balances of cash and cash equivalents of \$9.25 billion and time deposits of \$964 million as of December 31, 2021, along with cash generated by ongoing operations and continued access to debt markets, will be sufficient to satisfy our cash requirements over the next 12 months and beyond.

We have committed cash outflow related to postretirement benefit obligations, long-term debt and operating lease agreements. See Notes 12, 14 and 20, respectively, of Part II, Item 8 "Financial Statements and Supplementary Data" for additional information.

We have short-term obligations related to the purchase of goods and services made in the ordinary course of business. These consist of invoices received and recorded as liabilities as of December 31, 2021, but scheduled for payment in 2022 of \$8.15 billion. In addition, we have contractual obligations for material and services on order at December 31, 2021, but not yet invoiced or delivered, of \$7.28 billion.

We also have long-term contractual obligations primarily for logistics services agreements; systems support, software licenses and development contracts; information technology consulting contracts and outsourcing contracts for benefit plan administration. These obligations total \$1.16 billion, with \$550 million due in the next 12 months.

#### **Machinery, Energy & Transportation**

Net cash provided by operating activities was \$7.18 billion in 2021, compared with \$4.05 billion in 2020. The increase was primarily due to higher profit in 2021 adjusted for non-cash items, which included higher accruals for short-term incentive compensation. In addition, lower payments for short-term incentive compensation favorably impacted cash flow. Partially offsetting these items were increased working capital requirements. Within working capital, changes in inventory and accounts receivable unfavorably impacted cash flow but were partially offset by favorable changes in accounts payable and accrued expenses.

Net cash used for investing activities in 2021 was \$1.23 billion, compared with net cash used of \$1.34 billion in 2020. The change was primarily due to increased activity related to intercompany lending with Financial Products, mostly offset by increased investments in securities. During 2021, we invested \$1.19 billion in bank time deposits with varying maturity dates within one year and received proceeds from time deposits that matured of \$225 million. We also acquired the Oil & Gas division of the Weir Group PLC for \$359 million, net of cash acquired in February 2021.

Net cash used for financing activities during 2021 was \$6.30 billion, compared with net cash used of \$1.18 billion in 2020. The change was primarily due to the repayment of debt and lower proceeds from the issuance of debt. In addition, we repurchased \$2.67 billion of Caterpillar common stock in 2021 compared to \$1.13 billion in 2020.

While our short-term priorities for the use of cash may vary from time to time as business needs and conditions dictate, our long-term cash deployment strategy is focused on the following priorities. Our top priority is to maintain a strong financial position in support of a Mid-A rating. Next, we intend to fund operational requirements and commitments. Then, we intend to fund priorities that profitably grow the company and return capital to shareholders through dividend growth and share repurchases. Additional information on cash deployment is as follows:

**Strong financial position** — Our top priority is to maintain a strong financial position in support of a mid-A rating. We track a diverse group of financial metrics that focus on liquidity, leverage, cash flow and margins which align with our cash deployment actions and the various methodologies used by the major credit rating agencies.

**Operational excellence and commitments** — Capital expenditures were \$1.13 billion during 2021, compared to \$994 million in 2020. We expect ME&T's capital expenditures in 2022 to be around \$1.4 billion. We made \$340 million of contributions to our OPEB plans during 2021. By comparison, we made \$262 million of contributions to our OPEB plans in 2020. We expect to make approximately \$357 million of contributions to our pension and OPEB plans in 2022.

**Fund strategic growth initiatives and return capital to shareholders** — We intend to utilize our liquidity and debt capacity to fund targeted investments that drive long-term profitable growth focused in the areas of expanded offerings and services, including acquisitions.

As part of our capital allocation strategy, ME&T free cash flow is a liquidity measure we use to determine the cash generated

and available for financing activities including debt repayments, dividends and share repurchases. We define ME&T free cash flow as cash from ME&T operations excluding discretionary pension and other postretirement benefit plan contributions less capital expenditures. A goal of our capital allocation strategy is to return substantially all ME&T free cash flow to shareholders over time in the form of dividends and share repurchases, while maintaining our mid-A rating.

Our share repurchase plans are subject to the company's cash deployment priorities and are evaluated on an ongoing basis considering the financial condition of the company and the economic outlook, corporate cash flow, the company's liquidity needs and the health and stability of global credit markets. The timing and amount of future repurchases may vary depending on market conditions and investing priorities. In July 2018, the Board of Directors approved an authorization to repurchase up to \$10 billion of Caterpillar common stock (the 2018 Authorization) effective January 1, 2019, with no expiration. In 2021, we repurchased \$2.67 billion of Caterpillar common stock, with \$2.10 billion remaining under the 2018 Authorization as of December 31, 2021. Caterpillar's basic shares outstanding as of December 31, 2021 were approximately 536 million.

Each quarter, our Board of Directors reviews the company's dividend for the applicable quarter. The Board evaluates the financial condition of the company and considers the economic outlook, corporate cash flow, the company's liquidity needs, and the health and stability of global credit markets to determine whether to maintain or change the quarterly dividend. In December 2021, the Board of Directors approved maintaining our quarterly dividend representing \$1.11 per share and we continue to expect our strong financial position to support the dividend. Dividends paid totaled \$2.33 billion in 2021.

#### **Financial Products**

Financial Products operating cash flow was \$1.42 billion in 2021, compared with \$1.27 billion in 2020. Net cash used for investing activities was \$1.40 billion in 2021, compared with net cash provided by investing activities of \$791 million in 2020. The change was primarily due to portfolio related activity. Net cash provided by financing activities was \$257 million in 2021, compared with net cash used of \$2.50 billion in 2020. The change was primarily due to higher portfolio funding requirements.

#### **Off-balance sheet arrangements**

We are a party to certain off-balance sheet arrangements, primarily in the form of guarantees. Information related to guarantees appears in Note 21 – "Guarantees and product warranty" of Part II, Item 8 "Financial Statements and Supplementary Data."

# **RECENT ACCOUNTING PRONOUNCEMENTS**

For a discussion of recent accounting pronouncements, see Note 1J — "New accounting guidance" of Part II, Item 8 "Financial Statements and Supplementary Data."

# **CRITICAL ACCOUNTING ESTIMATES**

The preparation of financial statements in conformity with generally accepted accounting principles requires management to make estimates and assumptions that affect reported amounts. The more significant estimates include: residual values for leased assets, fair values for goodwill impairment tests, warranty liability, reserves for product liability and insurance losses, postretirement benefits, post-sale discounts, credit losses and income taxes. We have incorporated many years of data into the determination of each of these estimates and we have not historically experienced significant adjustments. We review these assumptions at least annually with the Audit Committee of the Board of Directors. Following are the methods and assumptions used in determining our estimates and an indication of the risks inherent in each.

**Residual values for leased assets** – We determine the residual value of Cat Financial's leased equipment based on its estimated end-of-term market value. We estimate the residual value of leased equipment at the inception of the lease based on a number of factors, including historical wholesale market sales prices, past remarketing experience and any known significant market/ product trends. We also consider the following critical factors in our residual value estimates: lease term, market size and demand, total expected hours of usage, machine configuration, application, location, model changes, quantities, third-party residual guarantees and contractual customer purchase options.

Upon termination of the lease, the equipment is either purchased by the lessee or sold to a third party, in which case we may record a gain or a loss for the difference between the estimated residual value and the sale price.

During the term of our leases, we monitor residual values. For operating leases, we record adjustments to depreciation expense reflecting changes in residual value estimates prospectively on a straight-line basis. For finance leases, we recognize residual value adjustments through a reduction of finance revenue over the remaining lease term.

We evaluate the carrying value of equipment on operating leases for potential impairment when we determine a triggering event has occurred. When a triggering event occurs, we perform a test for recoverability by comparing projected undiscounted future cash flows to the carrying value of the equipment on operating leases. If the test for recoverability identifies a possible impairment, we measure the fair value of the equipment on operating leases in accordance with the fair value measurement framework. We recognize an impairment charge for the amount by which the carrying value of the equipment on operating leases exceeds its estimated fair value.

At December 31, 2021, the aggregate residual value of equipment on operating leases was \$1.87 billion. Without consideration of other factors such as third-party residual guarantees or contractual customer purchase options, a 10 percent non-temporary decrease in the market value of our equipment subject to operating leases would reduce residual value estimates and result in the recognition of approximately \$85 million of additional annual depreciation expense.

**Fair values for goodwill impairment tests** – We test goodwill for impairment annually, at the reporting unit level, and whenever events or circumstances make it more likely than not that an impairment may have occurred, such as a significant adverse change in the business climate or a decision to sell all or a portion of a reporting unit. We perform our annual goodwill impairment test as of October 1 and monitor for interim triggering events on an ongoing basis.

We review goodwill for impairment utilizing either a qualitative assessment or a quantitative goodwill impairment test. If we choose to perform a qualitative assessment and determine the fair value more likely than not exceeds the carrying value, no further evaluation is necessary. For reporting units where we perform the quantitative goodwill impairment test, we compare the fair value of each reporting unit, which we primarily determine using an income approach based on the present value of discounted cash flows, to the respective carrying value, which includes goodwill. If the fair value of the reporting unit exceeds its carrying value, we do not consider the goodwill impaired. If the carrying value is higher than the fair value, we recognize the difference as an impairment loss.

For reporting units where we perform a quantitative goodwill impairment test, the process requires valuation of the respective reporting unit, which we primarily determine using an income approach based on a discounted five year forecasted cash flow with a year-five residual value. We compute the residual value using the constant growth method, which values the forecasted cash flows in perpetuity. The assumptions about future cash flows and growth rates are based on each reporting unit's long-term forecast and are subject to review and approval by senior management. A reporting unit's discount rate is a risk-adjusted weighted average cost of capital, which we believe approximates the rate from a market participant's perspective. The estimated fair value could be impacted by changes in market conditions, interest rates, growth rates, tax rates, costs, pricing and capital expenditures. We categorize the fair value determination as Level 3 in the fair value hierarchy due to its use of internal projections and unobservable measurement inputs.

We completed our annual assessment of goodwill in the fourth quarter of 2021 and determined that there was no impairment of goodwill. Caterpillar's market capitalization has remained significantly above the net book value of the Company.

An unfavorable change in our expectations for the financial performance of our reporting units, particularly long-term growth and profitability, would reduce the fair value of our reporting units. The demand for our equipment and related parts is highly cyclical and significantly impacted by commodity prices, although the impact may vary by reporting unit. The energy and mining industries are major users of our products, including the mineral extraction, oil and natural gas industries. Decisions to purchase our products are dependent upon the performance of those industries, which in turn are dependent in part on commodity prices. Lower commodity prices or industry specific circumstances that have a negative impact to the valuation assumptions may reduce the fair value of our reporting units. Should such events occur and it becomes more likely than not that a reporting unit's fair value has fallen below its carrying value, we will perform an interim goodwill impairment test(s), in addition to the annual impairment test. Future impairment tests may result in a goodwill impairment, depending on the outcome of the quantitative impairment test. We would report a goodwill impairment as a non-cash charge to earnings.

**Warranty liability** – At the time we recognize a sale, we record estimated future warranty costs. We determine the warranty liability by applying historical claim rate experience to the current field population and dealer inventory. Generally, we base historical claim rates on actual warranty experience for each product by machine model/engine size by customer or dealer location (inside or outside North America). We develop specific rates for each product shipment month and update them monthly based on actual warranty claim experience. Warranty costs may differ from those estimated if actual claim rates are higher or lower than our historical rates. **Product liability and insurance loss reserve** – We determine these reserves based upon reported claims in process of settlement and actuarial estimates for losses incurred but not reported. Loss reserves, including incurred but not reported reserves, are based on estimates and ultimate settlements may vary significantly from such estimates due to increased claims frequency or severity over historical levels. The amount of these reserves totaled \$1.2 billion at both December 31, 2021 and 2020. The majority of the balance in both 2021 and 2020 consisted of unearned insurance premiums.

**Postretirement benefits** – We sponsor defined benefit pension plans and/or other postretirement benefit plans (retirement healthcare and life insurance) to employees in many of our locations throughout the world. There are assumptions used in the accounting for these defined benefit plans that include discount rate, expected return on plan assets, expected rate of compensation increase, the future health care trend rate, mortality and other economic and demographic assumptions. The actuarial assumptions we use may change or differ significantly from actual results, which may result in a material impact to our consolidated financial statements.

The effects of actual results differing from our assumptions and the effects of changing assumptions are considered actuarial gains or losses. We utilize a mark-to-market approach in recognizing actuarial gains or losses immediately through earnings upon the annual remeasurement in the fourth quarter, or on an interim basis as triggering events warrant remeasurement.

Primary actuarial assumptions were determined as follows:

• We use the assumed discount rate to discount future benefit obligations back to today's dollars. The U.S. discount rate is based on a benefit cash flow-matching approach and represents the rate at which our benefit obligations could effectively be settled as of our measurement date, December 31. The benefit cash flow-matching approach involves analyzing Caterpillar's projected cash flows against a high quality bond yield curve, calculated using a wide population of corporate Aa bonds available on the measurement date. We use a similar approach to determine the assumed discount rate for our most significant non-U.S. plans. In estimating the service and interest cost components of net periodic benefit cost, we utilize a full yield curve approach in determining a discount rate. This approach applies the specific spot rates along the yield curve used in the determination of the benefit obligation to the relevant projected cash flows. Discount rates are sensitive to changes in interest rates. A decrease in the discount rate would increase our obligation and future expense.

- The expected long-term rate of return on plan assets is based on our estimate of long-term passive returns for equities and fixed income securities weighted by the allocation of our plan assets. Based on historical performance, we increase the passive returns due to our active management of the plan assets. This rate is impacted by changes in general market conditions, but because it represents a long-term rate, it is not significantly impacted by short-term market swings. Changes in our allocation of plan assets would also impact this rate. For example, a shift to more fixed income securities would lower the rate. A decrease in the rate would increase our expense. The expected return on plan assets is based on the fair value of plan assets allocations as of our measurement date, December 31.
- We use the expected rate of compensation increase to develop benefit obligations using projected pay at retirement. It represents average long-term salary increases. This rate is influenced by our long-term compensation policies. An increase in the rate would increase our obligation and expense.
- The assumed health care trend rate represents the rate at which health care costs are assumed to increase and is based on historical and expected experience. Changes in our projections of future health care costs due to general economic conditions and those specific to health care (e.g., technology driven cost changes) will impact this trend rate. An increase in the trend rate would increase our obligation and expense.
- We use the mortality assumption to estimate the life expectancy of plan participants. An increase in the life expectancy of plan participants will result in an increase in our obligation and expense.

#### Postretirement Benefit Plan Actuarial Assumptions Sensitivity

The effects of a one percentage-point change in certain actuarial assumptions on 2021 pension and OPEB costs and obligations are as follows:

ssumed discount rate xpected long-term rate of return on plan assets n-U.S. Pension benefits: ssumed discount rate xpected rate of compensation increase xpected long-term rate of return on plan assets her postretirement benefits:	2	2021 Benefit ( Decr)		Year-end Benefit Obligation Increas (Decrease)						
Pension benefits: 1 numed discount rate eccted long-term rate of return on plan assets U.S. Pension benefits: numed discount rate eccted rate of compensation increase eccted long-term rate of return on plan assets er postretirement benefits: numed discount rate		rcentage- ncrease		rcentage- decrease		ercentage- t increase		ercentage- decrease		
U.S. Pension benefits: 1										
Assumed discount rate	\$	115	\$	(149)	\$	(1,910)	\$	2,329		
Expected long-term rate of return on plan assets		(171)		171		_		_		
Non-U.S. Pension benefits:										
Assumed discount rate		22		(30)		(591)		756		
Expected rate of compensation increase		5		(4)		39		(32)		
Expected long-term rate of return on plan assets		(44)		44		_		_		
Other postretirement benefits:										
Assumed discount rate		12		(14)		(343)		413		
Expected rate of compensation increase		_		_		1		(1)		
Expected long-term rate of return on plan assets		(1)		1		_		-		
			c.							

Effective December 31, 2019, all U.S. pension benefits were frozen, and accordingly the expected rate of compensation increase assumption is no longer applicable.

#### **Actuarial Assumptions**

	U.S. F	Pension Ben	efits	Non-U.S	. Pension B	enefits	Other Pos	tretirement	Benefits
	2021	2020	2019	2021	2020	2019	2021	2020	2019
Weighted-average assumptions used to determine benefit obligation, end of year:									
Discount rate	2.8%	2.4%	3.2%	1.8%	1.4%	1.9%	2.7%	2.3%	3.2%
Rate of compensation increase <sup>1</sup>	%	%	%	2.0%	2.0%	2.0%	4.0%	4.0%	4.0%
Weighted-average assumptions used to determine net periodic benefit cost:									
Discount rate used to measure service cost <sup>1</sup>	%	%	4.3%	1.4%	1.5%	2.5%	2.5%	3.2%	4.1%
Discount rate used to measure interest cost	1.8%	2.8%	3.9%	1.2%	1.7%	2.3%	1.6%	2.8%	3.9%
Expected rate of return on plan assets	4.2%	5.1%	5.9%	2.9%	3.3%	3.8%	6.5%	7.0%	7.2%
Rate of compensation increase <sup>1</sup>	-%	%	4.0%	2.0%	2.0%	3.0%	4.0%	4.0%	4.1%
Health care cost trend rates at year-end:									
Health care trend rate assumed for next year							5.6%	5.8%	6.1%
Rate that the cost trend rate gradually declines to							5.0%	5.0%	5.0%
Year that the cost trend rate reaches ultimate rate							2025	2025	2025
Health care trend rate assumed for next year Rate that the cost trend rate gradually declines to			1.41				5.0%	5.0%	

Effective December 31, 2019, all U.S. pension benefits were frozen, and accordingly this assumption is no longer applicable.

See Note 12 - "Postemployment benefit plans" of Part II, Item 8 "Financial Statement and Supplemental Data" for further information regarding the accounting for postretirement benefits.

**Post-sale discount reserve** – We provide discounts to dealers through merchandising programs. We have numerous programs that are designed to promote the sale of our products. The most common dealer programs provide a discount when the dealer sells a product to a targeted end user. The amount of accrued post-sale discounts was \$1.4 billion at both December 31, 2021 and 2020. The reserve represents discounts that we expect to pay on previously sold units and is reviewed at least quarterly. We adjust the reserve if discounts paid differ from those estimated. Historically, those adjustments have not been material.

Allowance for credit losses – The allowance for credit losses is management's estimate of expected losses over the life of our finance receivable portfolio calculated using loss forecast models that take into consideration historical credit loss experience, current economic conditions and forecasts and scenarios that capture country and industry-specific economic factors. In addition, we consider qualitative factors not able to be fully captured in our loss forecast models, including borrower-specific and company-specific factors. These qualitative factors are subjective and require a degree of management judgment.

We measure the allowance for credit losses on a collective (pool) basis when similar risk characteristics exist and on an individual basis when we determine that similar risk characteristics do not exist. We identify finance receivables for individual evaluation based on past-due status and information available about the customer, such as financial statements, news reports and published credit ratings, as well as general information regarding industry trends and the economic environment in which our customers operate. The allowance for credit losses attributable to finance receivables that are individually evaluated is based on the present value of expected future cash flows discounted at the receivables' effective interest rate, the fair value of the collateral for collateral-dependent receivables or the observable market price of the receivable. In determining collateral value, we estimate the current fair market value of the collateral less selling costs. We also consider credit enhancements such as additional collateral and contractual third-party guarantees.

While management believes it has exercised prudent judgment and applied reasonable assumptions, there can be no assurance that in the future, changes in economic conditions or other factors would not cause changes in the financial health of our customers. If the financial health of our customers deteriorates, the timing and level of payments received could be impacted and therefore, could result in a change to our estimated losses.

**Income taxes** – We are subject to the income tax laws of the many jurisdictions in which we operate. These tax laws are complex, and the manner in which they apply to our facts is sometimes open to interpretation. In establishing the provision for income taxes, we must make judgments about the application of these inherently complex tax laws. Our income tax positions and analysis are based on currently enacted tax law. Future changes in tax law or related interpretations could significantly impact the provision for income tax asset and liability balances. Changes in tax law are reflected in the period of enactment with related interpretations considered in the period received.

Despite our belief that our tax return positions are consistent with applicable tax laws, we believe that taxing authorities could challenge certain positions. Settlement of any challenge can result in no change, a complete disallowance, or some partial adjustment reached through negotiations or litigation. We record tax benefits for uncertain tax positions based upon management's evaluation of the information available at the reporting date. To be recognized in the financial statements, a tax benefit must be at least more likely than not of being sustained based on technical merits. The benefit for positions meeting the recognition threshold is measured as the largest benefit more likely than not of being realized upon ultimate settlement with a taxing authority that has full knowledge of all relevant information. Significant judgment is required in making these determinations and adjustments to unrecognized tax benefits may be necessary to reflect actual taxes payable upon settlement. Adjustments related to positions impacting the effective tax rate affect the provision for income taxes. Adjustments related to positions impacting the timing of deductions impact deferred tax assets and liabilities. For tax years 2007 to 2012 including the impact of a loss carryback to 2005, the IRS has proposed to tax in the United States profits earned from certain parts transactions by Caterpillar SARL (CSARL), based on the IRS examination team's application of "substance-over-form" or "assignment-of-income" judicial doctrines. CSARL is primarily taxable locally in Switzerland. We are vigorously contesting the proposed increases to tax and penalties for these years of approximately \$2.3 billion. We believe that the relevant transactions complied with applicable tax laws and did not violate judicial doctrines. The purchase of parts by CSARL from unrelated parties and the subsequent sale of those parts to unrelated dealers outside the United States have substantial legal,

commercial, and economic consequences for the parties involved. Therefore, we have concluded that the largest amount of benefit that is more likely than not to be sustained related to this position is the entire benefit. As a result, no amount related to these IRS adjustments is reflected in unrecognized tax benefits. We have filed U.S. income tax returns on this same basis for years after 2012. We currently believe the ultimate disposition of this matter will not have a material adverse effect on our consolidated financial position, liquidity or results of operations.

Deferred tax assets generally represent tax benefits for tax deductions or credits available in future tax returns. Certain estimates and assumptions are required to determine whether it is more likely than not that all or some portion of the benefit of a deferred tax asset will not be realized. In making this assessment, management analyzes the trend of U.S. GAAP earnings and estimates the impact of future taxable income, reversing temporary differences and available prudent and feasible tax planning strategies. We give less weight in this analysis to mark-to-market adjustments to remeasure our pension and OPEB plans as we do not consider these adjustments indicative of ongoing earnings trends. Should a change in facts or circumstances lead to a change in judgment about the ultimate realizability of a deferred tax asset, we record or adjust the related valuation allowance in the period that the change in facts and circumstances occurs, along with a corresponding increase or decrease in the provision for income taxes.

Additional information related to income taxes is included in Note 6 - "Income taxes" of Part II, Item 8 "Financial statements and Supplementary Data."

# **OTHER MATTERS**

Information related to legal proceedings appears in Note 22— Environmental and Legal Matters of Part II, Item 8 "Financial Statements and Supplementary Data."

### **RETIREMENT BENEFITS**

We recognize mark-to-market gains and losses immediately through earnings upon the remeasurement of our pension and OPEB plans. Mark-to-market gains and losses represent the effects of actual results differing from our assumptions and the effects of changing assumptions. Changes in discount rates and differences between the actual return on plan assets and the expected return on plan assets generally have the largest impact on mark-to-market gains and losses.

The table below summarizes the amounts of net periodic benefit cost recognized for 2021, 2020 and 2019, respectively, and includes expected cost for 2022.

(Millions of dollars)	2022	Expected	 2021	 2020	 2019
U.S. Pension Benefits	\$	(269)	\$ (388)	\$ (309)	\$ (7)
Non-U.S. Pension Benefits		(13)	(19)	18	19
Other Postretirement Benefits		161	118	147	158
Mark-to-market loss (gain)		1	(833)	383	468
Total net periodic benefit cost (benefit)	\$	(121)	\$ (1,122)	\$ 239	\$ 638

<sup>1</sup> Expected net periodic benefit cost (benefit) does not include an estimate for mark-to-market gains or losses.

- Expected increase in expense in 2022 compared to 2021 Excluding the impact of mark-to-market gains and losses, our net periodic benefit cost is expected to increase \$168 million in 2022. The expected increase is primarily due to changes in assumptions causing higher interest cost in 2022 as a result of higher discount rates at year-end 2021 (U.S. pension plans discount rate for 2022 interest cost is 2.3% compared to 1.8% for 2021) and lower expected return on plan assets in 2022 (U.S. pension plans expected return on plans assets is 4.0 percent for 2022 compared to 4.2 percent in 2021).
- Decrease in expense in 2021 compared to 2020 Primarily due to mark-to-market gains in 2021 compared to mark-to-market losses in 2020 and lower interest cost in 2021 as a result of lower discount rates at year-end 2020.
- Decrease in expense in 2020 compared to 2019 Primarily due to lower interest cost in 2020 as a result of lower discount rates at year-end 2019, the elimination of service cost for our U.S. pension plans freezing benefit accruals and lower mark-to-market losses in 2020 compared to 2019.

The primary factors that resulted in mark-to-market losses (gains) for 2021, 2020 and 2019 are described below. We include the net mark-to-market losses (gains) in Other income (expense) in the Results of Operations.

 2021 net mark-to-market gain of \$833 million – Primarily due to higher discount rates at the end of 2021 compared to the end of 2020. This was partially offset by various assumption changes and a lower actual return on plan assets compared to the expected return on plan assets (U.S. pension plans had an actual rate of return of 3.6 percent compared to an expected rate of return of 4.2 percent).

- 2020 net mark-to-market loss of \$383 million Primarily due to lower discount rates at the end of 2020 compared to the end of 2019. This was partially offset by a higher actual return on plan assets compared to the expected return on plan assets (U.S. pension plans had an actual rate of return of 16.7 percent compared to an expected rate of return of 5.1 percent).
- 2019 net mark-to-market loss of \$468 million Primarily due to lower discount rates at the end of 2019 compared to the end of 2018. This was partially offset by a higher actual return on plan assets compared to the expected return on plan assets (U.S. pension plans had an actual rate of return of 22.3 percent compared to an expected rate of return of 5.9 percent).

#### SENSITIVITY

#### **Foreign Exchange Rate Sensitivity**

ME&T operations use foreign currency forward and option contracts to manage unmatched foreign currency cash inflow and outflow. Our objective is to minimize the risk of exchange rate movements that would reduce the U.S. dollar value of our foreign currency cash flow. Our policy allows for managing anticipated foreign currency cash flow for up to approximately five years. Based on the anticipated and firmly committed cash inflow and outflow for our ME&T operations for the next 12 months and the foreign currency derivative instruments in place at year-end, a hypothetical 10 percent weakening of the U.S. dollar relative to all other currencies would adversely affect our expected 2022 cash flow for our ME&T operations by approximately \$89 million. Last year similar assumptions and calculations yielded a potential \$126 million adverse impact on 2021 cash flow. We determine our net exposures by calculating the difference in cash inflow and outflow by currency and adding or subtracting outstanding foreign currency derivative instruments. We multiply these net amounts by 10 percent to determine the sensitivity.

In managing foreign currency risk for our Financial Products operations, our objective is to minimize earnings volatility resulting from conversion and the remeasurement of net foreign currency balance sheet positions and future transactions denominated in foreign currencies. Since our policy allows the use of foreign currency forward, option and cross currency contracts to offset the risk of currency mismatch between our assets and liabilities and exchange rate risk associated with future transactions denominated in foreign currencies, a 10 percent change in the value of the U.S. dollar relative to all other currencies would not have a material effect on our consolidated financial position, results of operations or cash flow. Neither our policy nor the effect of a 10 percent change in the value of the U.S. dollar has changed from that reported at the end of last year.

The effect of the hypothetical change in exchange rates ignores the effect this movement may have on other variables, including competitive risk. If it were possible to quantify this competitive impact, the results would probably be different from the sensitivity effects shown above. In addition, it is unlikely that all currencies would uniformly strengthen or weaken relative to the U.S. dollar. In reality, some currencies may weaken while others may strengthen. Our primary exposure (excluding competitive risk) is to exchange rate movements in the Australian dollar, Chinese yuan, Euro, Japanese yen and Swiss franc.

#### **Interest Rate Sensitivity**

For our ME&T operations, we have the option to use interest rate contracts to lower the cost of borrowed funds by attaching fixed-to-floating interest rate contracts to fixed-rate debt, and by entering into forward rate agreements on future debt issuances. A hypothetical 100 basis point adverse move in interest rates along the entire interest rate yield curve would have a minimal impact to the 2022 pre-tax earnings of ME&T. Last year, similar assumptions and calculations yielded a minimal impact to 2021 pre-tax earnings.

For our Financial Products operations, we use interest rate derivative instruments primarily to meet our match-funding objectives and strategies. We have a match-funding policy that addresses the interest rate risk by aligning the interest rate profile (fixed or floating rate and duration) of our debt portfolio with the interest rate profile of our finance receivable portfolio within a predetermined range on an ongoing basis. In connection with that policy, we use interest rate derivative instruments to modify the debt structure to match assets within the finance receivable portfolio. Match funding reduces the volatility of margins between interest-bearing assets and interest-bearing liabilities, regardless of which direction interest rates move.

In order to properly manage sensitivity to changes in interest rates, Financial Products measures the potential impact of different interest rate assumptions on pre-tax earnings. All on-balance sheet positions, including derivative financial instruments, are included in the analysis. The primary assumptions included in the analysis are that there are no new fixed rate assets or liabilities, the proportion of fixed rate debt to fixed rate assets remains unchanged and the level of floating rate assets and debt remain constant. An analysis of the December 31, 2021 balance sheet, using these assumptions, estimates the impact of a 100 basis point immediate and sustained adverse change in interest rates to have a minimal impact on 2022 pre-tax earnings. Last year, similar assumptions and calculations yielded a minimal impact to 2021 pre-tax earnings.

This analysis does not necessarily represent our current outlook of future market interest rate movement, nor does it consider any actions management could undertake in response to changes in interest rates. Accordingly, no assurance can be given that actual results would be consistent with the results of our estimate.

# **NON-GAAP FINANCIAL MEASURES**

We provide the following definitions for the non-GAAP financial measures used in this report. These non-GAAP financial measures have no standardized meaning prescribed by U.S. GAAP and therefore are unlikely to be comparable to the calculation of similar measures for other companies. Management does not intend these items to be considered in isolation or as a substitute for the related GAAP measures.

We believe it is important to separately quantify the profit impact of two significant items in order for our results to be meaningful to our readers. These items consist of (i) pension and OPEB mark-to-market (gains) losses resulting from plan remeasurements and (ii) restructuring (income) costs, which were incurred to generate longer-term benefits. We do not consider these items indicative of earnings from ongoing business activities and believe the non-GAAP measures will provide investors with useful perspective on underlying business results and trends and aid with assessing our period-over-period results. In addition, we provide a calculation of ME&T free cash flow as we believe it is an important measure for investors to determine the cash generation available for financing activities including debt repayments, dividends and share repurchases.

Reconciliations of adjusted results to the most directly comparable GAAP measures are as follows:

(Dollars in millions except per share data)	0	perating Profit	Operating Profit Margin	Profit Before Taxes	(	Provision Benefit) or Income Taxes	Effective Tax Rate	Profit	rofit per Share
Three Months Ended December 31, 2021 – US GAAP	\$	1,611	11.7%	\$ 2,562	\$	429	16.7%	\$ 2,120	\$ 3.91
Pension/OPEB mark-to-market (gains) losses		_	—%	(833)		(190)	22.8%	(643)	\$ (1.19)
Restructuring (income) costs		(34)	(0.2)%	(34)		(15)	44.1%	(19)	\$ (0.03)
Three Months Ended December 31, 2021 – Adjusted	\$	1,577	11.4%	\$ 1,695	\$	224	13.2%	\$ 1,458	\$ 2.69
Three Months Ended December 31, 2020 – US GAAP	\$	1,380	12.3%	\$ 941	\$	167	17.7%	\$ 780	\$ 1.42
Pension/OPEB mark-to-market (gains) losses		_	_%	438		92	21.0%	346	\$ 0.63
Restructuring (income) costs		58	0.5%	 58		18	31.0%	 40	\$ 0.07
Three Months Ended December 31, 2020 – Adjusted	\$	1,438	12.8%	\$ 1,437	\$	277	19.3%	\$ 1,166	\$ 2.12
Twelve Months Ended December 31, 2021 – US GAAP	\$	6,878	13.5%	\$ 8,204	\$	1,742	21.2%	\$ 6,489	\$ 11.83
Pension/OPEB mark-to-market (gains) losses		—	—%	(833)		(190)	22.8%	(643)	\$ (1.17)
Restructuring (income) costs		90	0.2%	 90		4	4.4%	 86	\$ 0.15
Twelve Months Ended December 31, 2021 – Adjusted	\$	6,968	13.7%	\$ 7,461	\$	1,556	20.9%	\$ 5,932	\$ 10.81
Twelve Months Ended December 31, 2020 – US GAAP	\$	4,553	10.9%	\$ 3,995	\$	1,006	25.2%	\$ 2,998	\$ 5.46
Pension/OPEB mark-to-market (gains) losses		_	—%	383		82	21.4%	301	\$ 0.55
Restructuring (income) costs		354	0.8%	 354		53	15.0%	 301	\$ 0.55
Twelve Months Ended December 31, 2020 – Adjusted	\$	4,907	11.8%	\$ 4,732	\$	1,141	24.1%	\$ 3,600	\$ 6.56

Reconciliations of ME&T free cash flow to the most directly comparable GAAP measure, net cash provided by operating activities are as follows:

(Millions of dollars)	Twelve M Dece	 
	2021	2020
ME&T net cash provided by operating activities <sup>1</sup>	\$ 7,177	\$ 4,054
ME&T discretionary pension contributions	_	_
ME&T capital expenditures	(1,129)	(994)
ME&T free cash flow	\$ 6,048	\$ 3,060
<sup>1</sup> See reconciliation of ME&T net cash provided by operating activities to consolidated net cash provided by operating activities on page 42.		

#### **Supplemental Consolidating Data**

We are providing supplemental consolidating data for the purpose of additional analysis. We have grouped the data as follows:

Consolidated - Caterpillar Inc. and its subsidiaries.

**Machinery, Energy & Transportation** – We define ME&T as it is presented in the supplemental data as Caterpillar Inc. and its subsidiaries, excluding Financial Products. ME&T's information relates to the design, manufacturing and marketing of our products.

**Financial Products** – We define Financial Products as it is presented in the supplemental data as our finance and insurance subsidiaries, primarily Caterpillar Financial Services Corporation (Cat Financial) and Cat Insurance Holdings Inc. (Insurance Services). Financial Products' information relates to the financing to customers and dealers for the purchase and lease of Caterpillar and other equipment. **Consolidating Adjustments** – Eliminations of transactions between ME&T and Financial Products.

The nature of the ME&T and Financial Products businesses is different, especially with regard to the financial position and cash flow items. Caterpillar management utilizes this presentation internally to highlight these differences. We believe this presentation will assist readers in understanding our business.

Pages 40 to 42 reconcile ME&T and Financial Products to Caterpillar Inc. consolidated financial information. Certain amounts for prior periods have been reclassified to conform to current year presentation.

# Supplemental Data for Results of Operations

# For The Years Ended December 31

						S	upplement	tal consolid	ating data			
		Consolidate	d		chinery, Ene Fransportati		Fin	ancial Proc	lucts	Consoli	dating Adjus	tments
(Millions of dollars)	2021	2020	2019	2021	2020	2019	2021	2020	2019	2021	2020	2019
Sales and revenues:												
Sales of Machinery, Energy & Transportation	\$ 48,188	\$ 39,022	\$ 50,755	\$ 48,188	\$ 39,022	\$ 50,755	\$ —	\$ —	\$ —	\$ —	\$ —	\$ —
Revenues of Financial Products	2,783	2,726	3,045				3,172	3,110	3,571	(389) <sup>1</sup>	(384) <sup>1</sup>	(526) <sup>1</sup>
Total sales and revenues	50,971	41,748	53,800	48,188	39,022	50,755	3,172	3,110	3,571	(389)	(384)	(526)
Operating costs:												
Cost of goods sold	35,513	29,082	36,630	35,521	29,088	36,634	_	_	_	<b>(8)</b> <sup>2</sup>	(6) <sup>2</sup>	(4) <sup>2</sup>
Selling, general and administrative expenses	5,365	4,642	5,162	4,724	3,915	4,444	654	746	737	(13) <sup>2</sup>	(19) <sup>2</sup>	(19) <sup>2</sup>
Research and development expenses	1,686	1,415	1,693	1,686	1,415	1,693	_	_	_	_	_	_
Interest expense of Financial Products	455	589	754	_	_	_	455	591	786	_	(2) <sup>3</sup>	(32) <sup>3</sup>
Other operating (income) expenses	1,074	1,467	1,271	(106)	283	14	1,247	1,236	1,297	(67) <sup>2</sup>	(52) <sup>2</sup>	(40) <sup>2</sup>
Total operating costs	44,093	37,195	45,510	41,825	34,701	42,785	2,356	2,573	2,820	(88)	(79)	(95)
Operating profit	6,878	4,553	8,290	6,363	4,321	7,970	816	537	751	(301)	(305)	(431)
Interest expense excluding Financial Products	488	514	421	488	513	429	_	_	_	_	1 <sup>3</sup>	(8) 3
Other income (expense)	1,814	(44)	(57)	2,276	(62)	(535)	87	32	80	(549) 4	(14)4	398 4
Consolidated profit before taxes	8,204	3,995	7,812	8,151	3,746	7,006	903	569	831	(850)	(320)	(25)
Provision (benefit) for income taxes	1,742	1,006	1,746	1,517	853	1,512	225	153	234	_	_	_
Profit of consolidated companies	6,462	2,989	6,066	6,634	2,893	5,494	678	416	597	(850)	(320)	(25)
Equity in profit (loss) of unconsolidated affiliated companies	31	14	28	42	29	49				(11) 5	(15) 5	(21) 5
Profit of consolidated and affiliated companies	6,493	3,003	6,094	6,676	2,922	5,543	678	416	597	(861)	(335)	(46)
Less: Profit (loss) attributable to noncontrolling interests	4	5	1	3	5	_	12	15	22	(11) <sup>6</sup>	(15) <sup>6</sup>	(21) 6
Profit 7	\$ 6,489	\$ 2,998	\$ 6,093	\$ 6,673	\$ 2,917	\$ 5,543	\$ 666	\$ 401	\$ 575	\$ (850)	\$ (320)	\$ (25)

1 Elimination of Financial Products' revenues earned from ME&T.

2 Elimination of net expenses recorded by ME&T paid to Financial Products.

3 Elimination of interest expense recorded between Financial Products and ME&T.

4 Elimination of discount recorded by ME&T on receivables sold to Financial Products and of interest earned between ME&T and Financial Products as well as dividends paid by Financial Products to ME&T.

5 Elimination of equity profit (loss) earned from Financial Products' subsidiaries partially owned by ME&T subsidiaries.

6 Elimination of noncontrolling interest profit (loss) recorded by Financial Products for subsidiaries partially owned by ME&T subsidiaries.

Profit attributable to common shareholders.

## **Supplemental Data for Financial Position**

### At December 31

							Si	lqqı	emental o	con	solidating	j dat	a		
	Co	nsoli	dated		Machine Trans	-	•••		Fina Pro				Conso Adju		•
(Millions of dollars)	2021		2020		2021		2020		2021		2020		2021		2020
Assets															
Current assets:															
Cash and cash equivalents	\$ 9,2	54 3	9,352	\$	8,428	\$	8,822	\$	826	\$	530	\$	-	\$	_
Receivables - trade and other	8,4	77	7,317		3,279		3,846		435		397		4,763 <sup>1,2</sup>		3,074 1,2
Receivables - finance	8,8	98	9,463		_		_		13,828		13,681		(4,930) <sup>2</sup>		(4,218) <sup>2</sup>
Prepaid expenses and other current assets	2,7	88	1,930		2,567		1,376		358		624		(137) <sup>3</sup>		(70) <sup>3</sup>
Inventories	14,0	38	11,402		14,038		11,402		_		_		_		_
Total current assets	43,4	55	39,464		28,312		25,446		15,447	_	15,232		(304)		(1,214)
Property, plant and equipment - net	12,0	90	12,401		8,172		8,309		3,918		4,092		_		_
Long-term receivables - trade and other	1,2	04	1,185		375		363		204		164		625 <sup>1,2</sup>		658 <sup>1,2</sup>
Long-term receivables - finance	12,7	07	12,222		-		_		13,358		12,895		(651) <sup>2</sup>		(673) <sup>2</sup>
Noncurrent deferred and refundable income taxes	1,8	40	1,523		2,396		2,058		105		110		(661) 4		(645) 4
Intangible assets	1,0	42	1,308		1,042		1,308		-		_		_		_
Goodwill	6,3	24	6,394		6,324		6,394		_		_		_		_
Other assets	4,1		3,827		3,388		3,158		1,952		1,871		(1,209) ⁵		(1,202) 5
Total assets	\$ 82,7		· · · · · · · · · · · · · · · · · · ·	\$	50,009	\$	47,036	\$	34,984	\$	34,364	\$	(2,200)	\$	(3,076)
Liabilities								_				_		_	
Current liabilities:															
Short-term borrowings	\$ 5,4	04 3	5 2,015	\$	9	\$	10	\$	5,395	\$	2,005	\$	-	\$	_
Short-term borrowings with consolidated companies			_		_		_		-		1,000		_		(1,000) 6
Accounts payable	8,1	54	6,128		8,079		6,060		242		212		(167) 7		(144) 7
Accrued expenses	3,7		3,642		3,385		3,099		372		543		_		_
Accrued wages, salaries and employee benefits	2,2		1,096		2,186		1,081		56		15		_		_
Customer advances	1,0		1,108		1,086		1,108		1		_		_		_
Dividends payable	,	95	562		595		562		_		_		_		_
Other current liabilities	2,2		2,017		1,773		1,530		642		580		(159) <sup>4,8</sup>		(93) <sup>4,1</sup>
Long-term debt due within one year	6,3		9,149		45		1,420		6,307		7,729		(		()
Total current liabilities	29,8		25,717		17,158		14,870		13,015		12,084		(326)		(1,237)
Long-term debt due after one year	26,0		25,999		9,772		9,764		16,287		16,250		(26) 6		(15) 6
Liability for postemployment benefits	5,5		6,872		5,592		6,872		_						
Other liabilities	4,8		4,358		4,106		3,691		1,425		1,385		(726) 4		(718) 4
Total liabilities	66,2		62,946		36,628		35,197		30,727		29,719		(1,078)		(1,970)
Commitments and contingencies			,	_	,	_		_				_	(.,)		(.,)
Shareholders' equity															
Common stock	6,3	98	6,230		6,398		6,230		919		919		(919) <sup>9</sup>		(919) <sup>9</sup>
Treasury stock	(27,6		(25,178)		(27,643)		(25,178)		_		_		_		
Profit employed in the business	39,2		35,167		35,390		31,091		3,881		4,065		11 <sup>9</sup>		11 <sup>9</sup>
Accumulated other comprehensive income (loss)	(1,5		(888)		(799)		(352)		(754)		(536)		_		
Noncontrolling interests		32	(000)		35		48		211		197		(214) <sup>9</sup>		(198) <sup>9</sup>
Total shareholders' equity	16,5		15,378		13,381		11,839		4,257		4,645		(1,122)		(1,106)
					,		,		-,		.,		(.,,		(.,)

<sup>1</sup> Elimination of receivables between ME&T and Financial Products.

<sup>2</sup> Reclassification of ME&T's trade receivables purchased by Financial Products and Financial Products' wholesale inventory receivables.

<sup>3</sup> Elimination of ME&T's insurance premiums that are prepaid to Financial Products.

<sup>4</sup> Reclassification reflecting required netting of deferred tax assets/liabilities by taxing jurisdiction.

<sup>5</sup> Elimination of other intercompany assets between ME&T and Financial Products.

<sup>6</sup> Elimination of debt between ME&T and Financial Products.

7 Elimination of payables between ME&T and Financial Products.

<sup>8</sup> Elimination of prepaid insurance in Financial Products' other liabilities.

<sup>9</sup> Eliminations associated with ME&T's investments in Financial Products' subsidiaries.

## Supplemental Data for Statement of Cash Flow

## For the Years Ended December 31

								hhi	emental			y ud			
	Co	nsoli	dated	Ene	Mach ergy & Tra		-			anci duc			Conso Adjus		•
(Millions of dollars)	2021		2020		2021		2020		2021		2020	2021		;	2020
Cash flow from operating activities:															
Profit (loss) of consolidated and affiliated companies	\$ 6,49	3 \$	3,003	\$	6,676	\$	2,922	\$	678	\$	416	\$	(861) <sup>1,5</sup>	\$	(335) 1
Adjustments for non-cash items:															
Depreciation and amortization	2,35	2	2,432		1,550		1,630		802		802		_		_
Actuarial (gain) loss on pension and postretirement benefits	(83	3)	383		(833)		384		_		(1)		_		_
Provision (benefit) for deferred income taxes	(38	3)	(74)		(329)		(85)		(54)		11		_		_
Other	21	6	1,000		131		613		(209)		98		294 <sup>2</sup>		289 <sup>2</sup>
Changes in assets and liabilities, net of acquisitions and divestitures	:														
Receivables - trade and other	(1,25	9)	1,442		(463)		395		47		50		(843) <sup>2,3</sup>		997 <sup>2,3</sup>
Inventories	(2,58	6)	(34)		(2,581)		(29)		_				(5) <sup>2</sup>		(5) <sup>2</sup>
Accounts payable	2,04	1	98		2,015		51		49		18		(23) <sup>2</sup>		29 <sup>2</sup>
Accrued expenses	19	6	(366)		288		(364)		(92)		(2)		_		_
Accrued wages, salaries and employee benefits	1,10	7	(544)		1,066		(510)		41		(34)		-		_
Customer advances	,	4	(126)		33		(126)		1		_		_		_
Other assets—net	(9	7)	(201)		(200)		(133)		25		(71)		78 <sup>2</sup>		3²
Other liabilities—net		3)	(686)		(176)		(694)		132		(22)		(39) <sup>2</sup>		30 <sup>2</sup>
Net cash provided by (used for) operating activities	7,19	<u> </u>	6,327		7,177		4,054		1,420	_	1,265	_	(1,399)		1,008
Cash flow from investing activities:			-,				.,		.,		.,		(1,000)		.,
Capital expenditures—excluding equipment leased to others	(1,09	3)	(978)		(1,088)		(976)		(16)		(14)		11 <sup>2</sup>		12 <sup>2</sup>
Expenditures for equipment leased to others	(1,37		(1,137)		(41)		(18)		(1,347)		(1,139)		<b>9</b> <sup>2</sup>		20 <sup>2</sup>
Proceeds from disposals of leased assets and property, plant	(-,	-,	(.,)		()		()		(.,)		(.,)				
and equipment	1,26	5	772		186		147		1,095		651		(16) <sup>2</sup>		(26) <sup>2</sup>
Additions to finance receivables	(13,00	2)	(12,385)		_		_		(13,845)		(13,525)		843 <sup>3</sup>		1,140 <sup>3</sup>
Collections of finance receivables	12,43	0	12,646		_		_		13,337		14,077		(907) <sup>3</sup>	í	(1,431) <sup>3</sup>
Net intercompany purchased receivables	-	-	_		_		_		(609)		1,043		609 <sup>3</sup>	1	(1,043) <sup>3</sup>
Proceeds from sale of finance receivables	5	1	42		_		_		51		42		_		_
Net intercompany borrowings	-	_	_		1,000		(401)		5		7		(1,005) 4		394 4
Investments and acquisitions (net of cash acquired)	(49	0)	(111)		(490)		(111)		_				_		_
Proceeds from sale of businesses and investments (net of cash sold	) 3	6	25		36		25		_		_		_		_
Proceeds from sale of securities	78	5	345		274		24		511		321		_		_
Investments in securities	(1,76	6)	(638)		(1,189)		(21)		(577)		(617)		_		_
Other-net	7	9	(66)		81		(11)		(2)		(55)		-		_
Net cash provided by (used for) investing activities	(3,08	4)	(1,485)		(1,231)		(1,342)		(1,397)		791		(456)		(934)
Cash flow from financing activities:		<i>.</i>	/		<u>, , ,</u>					_					
Dividends paid	(2,33	2)	(2,243)		(2,332)		(2,243)		(850)		(320)		850⁵		320⁵
Common stock issued, including treasury shares reissued	13	'	229		135		229		()		()		_		_
Common shares repurchased	(2,66		(1,130)		(2,668)		(1,130)		_		_		_		_
Net intercompany borrowings	(_,••	_	(1,100)		(5)		(1,100)		(1,000)		401		1.005⁴		(394) 4
Proceeds from debt issued (original maturities greater than three months)	6.98	9	10.431		494		1.991		6.495		8.440		_		
Payments on debt (original maturities greater than three months)	(9,79		(8,237)		(1,919)		(26)		(7,877)		(8,211)		-		_
Short-term borrowings - net (original maturities groups and more months) less)	3.48		(2,804)		(1,010)		5		3,489		(2,809)		_		_
Other—net	., .	4)	(1)		(4)		(1)				(_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		_		
Net cash provided by (used for) financing activities	(4,18		(3,755)		(6,300)		(1,182)		257		(2,499)		1,855		(74)
Effect of exchange rate changes on cash		<u>9)</u>	(13)		(35)		(1,102)	-	6	_	(3)	-	1,000	-	(7-1)
Increase (decrease) in cash, cash equivalents and restricted cash	(10		1,074		(389)		1,520		286		(446)		_		_
Cash, cash equivalents and restricted cash at beginning of period	9,36		8,292		8,822		7,302		544		990		_		
				•		•				•				•	
Cash, cash equivalents and restricted cash at end of period	\$ 9,26	3_\$	9,366	\$	8,433	\$	8,822	\$	830	\$	544	\$		\$	

1 Elimination of equity profit earned from Financial Products' subsidiaries partially owned by ME&T subsidiaries.

2 Elimination of non-cash adjustments and changes in assets and liabilities related to consolidated reporting.

3 Reclassification of Financial Products' cash flow activity from investing to operating for receivables that arose from the sale of inventory.

4 Elimination of net proceeds and payments to/from ME&T and Financial Products.

5 Elimination of dividend activity between Financial Products and ME&T.

# Item 7A. Quantitative and Qualitative Disclosures About Market Risk.

Information required by Item 7A appears in Note 1 — "Operations and summary of significant accounting policies," Note 4 — "Derivative financial instruments and risk management," Note 18 — "Fair value disclosures" and Note 19 — "Concentration of credit risk" of Part II, Item 8 "Financial Statements and Supplementary Data." Other information required by Item 7A is included in Part II, Item 7 "Management's Discussion and Analysis of Financial Condition and Results of Operations."

# Item 8. Financial Statements and Supplementary Data.

# MANAGEMENT'S REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING

The management of Caterpillar Inc. (company) is responsible for establishing and maintaining adequate internal control over financial reporting as such term is defined in Rule 13a-15(f) under the Exchange Act. Our internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of our financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. Our internal control over financial reporting includes those policies and procedures that (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (iii) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

Management assessed the effectiveness of the company's internal control over financial reporting as of December 31, 2021. In making this assessment, we used the criteria set forth by the Committee of Sponsoring Organizations of the Treadway Commission (COSO) in *Internal Control—Integrated Framework* (2013). Based on our assessment we concluded that, as of December 31, 2021, the company's internal control over financial reporting was effective based on those criteria.

The effectiveness of the company's internal control over financial reporting as of December 31, 2021 has been audited by PricewaterhouseCoopers LLP, an independent registered public accounting firm. Their report appears on pages 45-46.

/s/ D. James Umpleby III

D. James Umpleby III Chief Executive Officer

/s/ Andrew R.J. Bonfield

Andrew R.J. Bonfield Chief Financial Officer

February 16, 2022

# REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Board of Directors and Shareholders of Caterpillar Inc.

#### **Opinions on the Financial Statements and Internal Control over Financial Reporting**

We have audited the accompanying consolidated statement of financial position of Caterpillar Inc. and its subsidiaries (the "Company") as of December 31, 2021 and 2020, and the related consolidated statements of results of operations, of comprehensive income (loss), of changes in shareholders' equity and of cash flow for each of the three years in the period ended December 31, 2021, including the related notes (collectively referred to as the "consolidated financial statements"). We also have audited the Company's internal control over financial reporting as of December 31, 2021, based on criteria established in *Internal Control - Integrated Framework* (2013) issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO).

In our opinion, the consolidated financial statements referred to above present fairly, in all material respects, the financial position of the Company as of December 31, 2021 and 2020, and the results of its operations and its cash flows for each of the three years in the period ended December 31, 2021 in conformity with accounting principles generally accepted in the United States of America. Also in our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2021, based on criteria established in *Internal Control - Integrated Framework* (2013) issued by the COSO.

#### **Basis for Opinions**

The Company's management is responsible for these consolidated financial statements, for maintaining effective internal control over financial reporting, and for its assessment of the effectiveness of internal control over financial reporting, included in the accompanying Management's Report on Internal Control Over Financial Reporting. Our responsibility is to express opinions on the Company's consolidated financial statements and on the Company's internal control over financial reporting based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audits in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement, whether due to error or fraud, and whether effective internal control over financial reporting was maintained in all material respects.

Our audits of the consolidated financial statements included performing procedures to assess the risks of material misstatement of the consolidated financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the consolidated financial statements. Our audits also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

#### Definition and Limitations of Internal Control over Financial Reporting

A company's internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company's internal control over financial reporting includes those policies and procedures that (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (iii) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company's assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

### **Critical Audit Matters**

The critical audit matter communicated below is a matter arising from the current period audit of the consolidated financial statements that was communicated or required to be communicated to the audit committee and that (i) relates to accounts or disclosures that are material to the consolidated financial statements and (ii) involved our especially challenging, subjective, or complex judgments. The communication of critical audit matters does not alter in any way our opinion on the consolidated financial statements, taken as a whole, and we are not, by communicating the critical audit matter below, providing a separate opinion on the critical audit matter or on the accounts or disclosures to which it relates.

#### Uncertain Tax Position - Caterpillar SARL IRS Examination

As described in Note 6 to the consolidated financial statements, as a result of the audits of the Company's U.S. 2007 to 2012 income tax returns, including the impact of a loss carryback to 2005, the Internal Revenue Service ("IRS") has proposed to tax in the U.S. profits earned from certain parts transactions by Caterpillar SARL ("CSARL"). This proposal is based on the IRS examination team's application of the "substance-over-form" or "assignment-of-income" judicial doctrines. As described by management, the Company is vigorously contesting the proposed increases to tax and penalties for these years of approximately \$2.3 billion, as management believes that the relevant transactions complied with applicable tax laws and did not violate judicial doctrines. As disclosed by management, the purchase of parts by CSARL from unrelated parties and the subsequent sale of those parts to unrelated dealers outside the U.S. have substantial legal, commercial, and economic consequences for the parties involved. Management has concluded that the largest amount of benefit that is more likely than not to be sustained related to this position is the entire benefit. As a result, no amount related to these IRS adjustments is reflected in the Company's unrecognized tax benefits. The Company has filed U.S. income tax returns on this same basis for years after 2012.

The principal considerations for our determination that performing procedures relating to the uncertain tax position arising from the CSARL IRS Examination is a critical audit matter are (i) the significant judgment by management in evaluating the amount of the benefit that is more likely than not to be sustained related to the position; (ii) a high degree of auditor judgment, subjectivity and effort in performing procedures and evaluating whether the position was more likely than not to be sustained; and (iii) the audit effort involved the use of professionals with specialized skill and knowledge.

Addressing the matter involved performing procedures and evaluating audit evidence in connection with forming our overall opinion on the consolidated financial statements. These procedures included testing the effectiveness of controls relating to the uncertain tax position arising from the CSARL IRS Examination. These procedures also included, among others (i) evaluating management's process for determining the reasonableness of the uncertain tax position, including reading certain intercompany and third-party agreements which are relevant to evaluating the legal form and substance of the CSARL transaction flows; (ii) evaluating management's assessment of whether the position was more likely than not to produce a tax benefit and the determination by management of the largest amount of benefit that is more likely than not to be sustained related to this position; and (iii) evaluating the Revenue Agent Reports ("RARs") from the IRS and management's protests of the RARs. Professionals with specialized skill and knowledge were used to assist in evaluating the applicable tax laws and judicial doctrines related to this matter as well as changes in relevant tax regulations, rulings, and case law.

/s/ PricewaterhouseCoopers LLP

Chicago, Illinois February 16, 2022

We have served as the Company's auditor since 1925.

# **Consolidated Results of Operations for the Years Ended December 31**

(Dollars in millions except per share data)

	_	2021	 2020	 2019
Sales and revenues:				
Sales of Machinery, Energy & Transportation	\$	48,188	\$ 39,022	\$ 50,755
Revenues of Financial Products	_	2,783	 2,726	3,045
Total sales and revenues		50,971	41,748	53,800
Operating costs:				
Cost of goods sold		35,513	29,082	36,630
Selling, general and administrative expenses		5,365	4,642	5,162
Research and development expenses		1,686	1,415	1,693
Interest expense of Financial Products		455	589	754
Other operating (income) expenses		1,074	1,467	1,271
Total operating costs	_	44,093	37,195	45,510
Operating profit	_	6,878	4,553	8,290
Interest expense excluding Financial Products		488	514	421
Other income (expense)		1,814	(44)	(57
Consolidated profit before taxes	_	8,204	3,995	 7,812
Provision (benefit) for income taxes		1,742	1,006	1,746
Profit of consolidated companies	_	6,462	 2,989	6,066
Equity in profit (loss) of unconsolidated affiliated companies		31	14	28
Profit of consolidated and affiliated companies	_	6,493	3,003	6,094
Less: Profit (loss) attributable to noncontrolling interests		4	5	1
Profit <sup>1</sup>	\$	6,489	\$ 2,998	\$ 6,093
Profit per common share	\$	11.93	\$ 5.51	\$ 10.85
Profit per common share — diluted <sup>2</sup>	\$	11.83	\$ 5.46	\$ 10.74
Weighted-average common shares outstanding (millions)				
- Basic		544.0	544.1	561.6
- Diluted <sup>2</sup>		548.5	548.6	567.5

<sup>2</sup> Diluted by assumed exercise of stock-based compensation awards using the treasury stock method.

# Consolidated Comprehensive Income (Loss) for the Years Ended December 31

(Millions of dollars)

	\$ 6,094
577	16
(29)	(34)
97	(8)
34	35
679	9
3,682	6,103
5	1
\$ 3,677	\$ 6,102
\$	3,682 5

# **Consolidated Financial Position at December 31**

#### (Dollars in millions)

	2021		2020
Assets			
Current assets:			
Cash and cash equivalents	\$ 9,2	254 \$	9,352
Receivables – trade and other	8,4	177	7,317
Receivables – finance	8,8	898	9,463
Prepaid expenses and other current assets	2,7	788	1,930
Inventories	14,0	38	11,402
Total current assets	43,4	55	39,464
Property, plant and equipment – net	12,0	90	12,401
Long-term receivables – trade and other	1,2	204	1,185
Long-term receivables – finance	12,7	' <b>07</b>	12,222
Noncurrent deferred and refundable income taxes	1,8	340	1,523
Intangible assets	1,0	)42	1,308
Goodwill	6,3	324	6,394
Other assets	4,1	31	3,827
Total assets	\$ 82,7	793 \$	78,324
Liabilities		=	
Current liabilities:			
Short-term borrowings:			
Machinery, Energy & Transportation	\$	9 \$	5 10
Financial Products		895	2,005
Accounts payable	•	54	6,128
Accrued expenses		757	3,642
Accrued wages, salaries and employee benefits		242	1,096
Customer advances		)87	1,108
Dividends payable	•	595	562
Other current liabilities		256	2,017
Long-term debt due within one year:	-,-		2,011
Machinery, Energy & Transportation		45	1,420
Financial Products	6.3	307	7,729
Total current liabilities	29,8		25,717
	20,0		20,717
Long-term debt due after one year: Machinery, Energy & Transportation	0.7	746	9,749
Machinery, Energy & Transportation Financial Products		746 097	,
Liability for postemployment benefits	16,2		16,250
Other liabilities		592 205	6,872
Total liabilities		305	4,358
	66,2	.//	62,946
Commitments and contingencies (Notes 21 and 22)			
Shareholders' equity			
Common stock of \$1.00 par value:			
Authorized shares: 2,000,000,000 Issued shares: (2021 and 2020 – 814,894,624 shares) at paid-in amount	6,3	898	6,230
Treasury stock: (2021 - 279,006,573 shares; and 2020 - 269,590,777 shares) at cost	(27,6	(43)	(25,178)
Profit employed in the business	39,2	:82	35,167
Accumulated other comprehensive income (loss)	(1,	553)	(888)
Noncontrolling interests		32	47
Total shareholders' equity	16,5	16	15,378
Total liabilities and shareholders' equity	\$ 82,7	<b>793</b> \$	78,324

# Changes in Consolidated Shareholders' Equity for the Years Ended December 31

(Dollars in millions)	-	ommon stock	Treasury stock	Profit employed in the business		Accumulated other comprehensive income (loss)	Noncontrolling interests		Total
Balance at December 31, 2018	\$	5,827	\$ (20,531)	\$ 30,427	\$	(1,684)	\$ 41	\$	14,080
Adjustments to adopt new accounting guidance									
Lease accounting		_	_	235		_	_		235
Reclassification of certain tax effects from accumulated other comprehensive income	9	_	_	(108)		108	_		_
Balance at January 1, 2019	\$	5,827	\$ (20,531)	\$ 30,554	\$	(1,576)	\$ 41	\$	14,315
Profit (loss) of consolidated and affiliated companies		_	_	6,093		_	1		6,094
Foreign currency translation, net of tax			_	_		16	_		16
Pension and other postretirement benefits, net of tax		_	_	_		(34)	_		(34)
Derivative financial instruments, net of tax		—	—	_		(8)			(8)
Available-for-sale securities, net of tax			_	_		35	_		35
Dividends declared			_	(2,210)		—			(2,210)
Distribution to noncontrolling interests			_	_		—	(3	)	(3)
Common shares issued from treasury stock for stock-based compensation: 5,126,379		(4)	242	_		_	_		238
Stock-based compensation expense		205	_	_		_			205
Common shares repurchased: 30,586,507		_	(3,928)	_		_	_		(3,928)
Other		(93)	_	_		_	2		(91)
Balance at December 31, 2019	\$	5,935	\$ (24,217)	\$ 34,437	\$	(1,567)	\$ 41	\$	14,629
Adjustments to adopt new accounting guidance									
Credit losses			_	(25)		—	_		(25)
Balance at January 1, 2020	\$	5,935	\$ (24,217)	\$ 34,412	\$	(1,567)	\$ 41	\$	14,604
Profit (loss) of consolidated and affiliated companies		_	_	2,998		_	5		3,003
Foreign currency translation, net of tax		_	_	_		577	_		577
Pension and other postretirement benefits, net of tax		_	_	_		(29)	_		(29)
Derivative financial instruments, net of tax		_	_	_		97	_		97
Available-for-sale securities, net of tax		_	_	_		34	_		34
Dividends declared		_	_	(2,247)		_	_		(2,247)
Common shares issued from treasury stock for stock-based compensation: 5,317,243		(61)	290	_		_	_		229
Stock-based compensation expense		202	_	_		—	_		202
Common shares repurchased: 10,096,006		—	(1,250)						(1,250)
Other		154	(1)	 4	_		1		158
Balance at December 31, 2020	\$	6,230	\$ (25,178)	\$ 35,167	\$	(888)	\$ 47	\$	15,378

# Changes in Consolidated Shareholders' Equity for the Years Ended December 31

(Dollars in millions)	ommon stock	Treasury stock	Profit employed in the business	Accumulated other comprehensive income (loss)	Noncontrolling interests	 Total
Balance at January 1, 2021	\$ 6,230	\$ (25,178)	\$ 35,167	\$ (888)	\$ 47	\$ 15,378
Profit (loss) of consolidated and affiliated companies	_	_	6,489	_	4	6,493
Foreign currency translation, net of tax	_	_	_	(598)	_	(598)
Pension and other postretirement benefits, net of tax	_	_	_	(30)	_	(30)
Derivative financial instruments, net of tax	_	_	_	(3)	_	(3)
Available-for-sale securities, net of tax	_	_	_	(34)	_	(34)
Change in ownership from noncontrolling interests	_	_	_	_	(14)	(14)
Dividends declared <sup>1</sup>	_	_	(2,374)	_	_	(2,374)
Distribution to noncontrolling interests	_	_	_	_	(4)	(4)
Common shares issued from treasury stock for stock-based compensation: 3,571,503	(68)	203	_	_	_	135
Stock-based compensation expense	200	_	_	_	_	200
Common shares repurchased: 12,987,299 <sup>2</sup>	_	(2,668)	_	_	_	(2,668)
Other	36	_	_	_	(1)	35
Balance at December 31, 2021	\$ 6,398	\$ (27,643)	\$ 39,282	\$ (1,553)	\$ 32	\$ 16,516

<sup>1</sup> Dividends per share of common stock of \$4.36, \$4.12 and \$3.95 were declared in the years ended December 31, 2021, 2020 and 2019, respectively.

<sup>2</sup> See Note 16 regarding shares repurchased.

STATEMENT 5				C	Cater	rpillar Inc.
Consolidated Statement of Cash Flow for the Years Ended December 31						
(Millions of dollars)		2021		2020		2019
Cash flow from operating activities:						
Profit (loss) of consolidated and affiliated companies	\$	6,493	\$	3,003	\$	6,094
Adjustments for non-cash items:						
Depreciation and amortization		2,352		2,432		2,577
Actuarial (gain) loss on pension and postretirement benefits		(833)		383		468
Provision (benefit) for deferred income taxes		(383)		(74)		28
Other		216		1,000		675
Changes in assets and liabilities, net of acquisitions and divestitures:						
Receivables – trade and other		(1,259)		1,442		171
Inventories		(2,586)		(34)		274
Accounts payable		2,041		98		(1,025)
Accrued expenses		196		(366)		172
Accrued wages, salaries and employee benefits		1,107		(544)		(757)
Customer advances		34		(126)		(10)
Other assets – net		(97)		(201)		(93)
Other liabilities – net		(83)		(686)		(1,662)
Net cash provided by (used for) operating activities		7,198		6,327		6,912
Cash flow from investing activities:						
Capital expenditures – excluding equipment leased to others		(1,093)		(978)		(1,056)
Expenditures for equipment leased to others		(1,379)		(1,137)		(1,613)
Proceeds from disposals of leased assets and property, plant and equipment		1,265		772		1,153
Additions to finance receivables		(13,002)		(12,385)		(12,777)
Collections of finance receivables		12,430		12,646		12,183
Proceeds from sale of finance receivables		51		42		235
Investments and acquisitions (net of cash acquired)		(490)		(111)		(47)
Proceeds from sale of businesses and investments (net of cash sold)		36		25		41
Proceeds from sale of securities		785		345		529
Investments in securities		(1,766)		(638)		(552)
Other – net		79		(66)		(24)
Net cash provided by (used for) investing activities		(3,084)		(1,485)		(1,928)
Cash flow from financing activities:		(0,001)		(1,100)		(1,020)
Dividends paid		(2,332)		(2,243)		(2,132)
Common stock issued, including treasury shares reissued		135		229		238
Common shares repurchased		(2,668)		(1,130)		(4,047)
Proceeds from debt issued (original maturities greater than three months):		(2,000)		(1,100)		(4,047)
- Machinery, Energy & Transportation		494		1,991		1,479
- Financial Products		6,495		8,440		8,362
Payments on debt (original maturities greater than three months):		0,435		0,440		0,502
- Machinery, Energy & Transportation		(1,919)		(26)		(12)
- Financial Products		(7,877)		(8,211)		(8,285)
Short-term borrowings – net (original maturities three months or less)						
Other – net		3,488		(2,804)		(138)
Net cash provided by (used for) financing activities		(4)	_	(1) (3,755)	_	(3)
Effect of exchange rate changes on cash		(4,188)		<u>,</u>	_	(4,538)
5 5		(29)		(13)		(44)
Increase (decrease) in cash, cash equivalents and restricted cash		(103)		1,074		402
Cash, cash equivalents and restricted cash at beginning of period	¢	9,366	¢	8,292	¢	7,890
Cash, cash equivalents and restricted cash at end of period	<u>φ</u>	9,263	φ	9,366	\$	8,292

# NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

#### 1. Operations and summary of significant accounting policies

#### A. Nature of operations

Information in our financial statements and related commentary are presented in the following categories:

**Machinery, Energy & Transportation** (ME&T) – We define ME&T as Caterpillar Inc. and its subsidiaries, excluding Financial Products. ME&T's information relates to the design, manufacturing and marketing of our products.

**Financial Products** – We define Financial Products as our finance and insurance subsidiaries, primarily Caterpillar Financial Services Corporation (Cat Financial) and Caterpillar Insurance Holdings Inc. (Insurance Services). Financial Products' information relates to the financing to customers and dealers for the purchase and lease of Caterpillar and other equipment.

We sell our products primarily under the brands "Caterpillar," "CAT," design versions of "CAT" and "Caterpillar," "EMD," "FG Wilson," "MaK," "MWM," "Perkins," "Progress Rail," "SEM" and "Solar Turbines."

We conduct operations in our ME&T line of business under highly competitive conditions, including intense price competition. We place great emphasis on the high quality and performance of our products and our dealers' service support. Although no one competitor is believed to produce all of the same types of equipment that we do, there are numerous companies, large and small, which compete with us in the sale of each of our products.

We distribute our machines principally through a worldwide organization of dealers (dealer network), 44 located in the United States and 116 located outside the United States, serving 193 countries. We sell reciprocating engines principally through the dealer network and to other manufacturers for use in products. We also sell some of the reciprocating engines manufactured by our subsidiary Perkins Engines Company Limited through its worldwide network of 90 distributors covering 171 countries. We sell the FG Wilson branded electric power generation systems through its worldwide network of 110 distributors covering 109 countries. We also sell some of the large, medium speed reciprocating engines under the MaK brand through a worldwide network of 20 distributors covering 130 countries. Our dealers do not deal exclusively with our products; however, in most cases sales and servicing of our products are the dealers' principal business. We sell some products, primarily turbines and locomotives, to end customers through sales forces employed by the company. At times, these employees are assisted by independent sales representatives.

The Financial Products line of business also conducts operations under highly competitive conditions. Financing for users of Caterpillar products is available through a variety of competitive sources, principally commercial banks and finance and leasing companies. We offer various financing, insurance and risk management products designed to support sales of our products and generate financing income for our company. We conduct a significant portion of Financial Products activity in North America, with additional offices in Latin America, Asia/Pacific, Europe, Africa and the Middle East.

#### B. Basis of presentation

The consolidated financial statements include the accounts of Caterpillar Inc. and its subsidiaries where we have a controlling financial interest.

Investments in companies where our ownership exceeds 20 percent and we do not have a controlling interest or where the ownership is less than 20 percent and for which we have a significant influence are accounted for by the equity method.

We consolidate all variable interest entities (VIEs) where Caterpillar Inc. is the primary beneficiary. For VIEs, we assess whether we are the primary beneficiary as prescribed by the accounting guidance on the consolidation of VIEs. The primary beneficiary of a VIE is the party that has both the power to direct the activities that most significantly impact the entity's economic performance and the obligation to absorb losses or the right to receive benefits that could potentially be significant to the VIE. See Note 21 for further discussion on a consolidated VIE.

Cat Financial has end-user customers that are VIEs of which we are not the primary beneficiary. Although we have provided financial support to these entities and therefore have a variable interest, we do not have the power to direct the activities that most significantly impact their economic performance. Our maximum exposure to loss from our involvement with these VIEs is limited to the credit risk inherently present in the financial support that we have provided. These risks were evaluated and reflected in our financial statements as part of our overall portfolio of finance receivables and related allowance for credit losses.

We include shipping and handling costs in Cost of goods sold in Statement 1. Other operating (income) expenses primarily include Cat Financial's depreciation on equipment leased to others, Insurance Services' underwriting expenses, (gains) losses on disposal of long-lived assets, long-lived asset impairment charges, legal settlements and accruals, contract termination costs and employee separation charges.

Prepaid expenses and other current assets in Statement 3 primarily include time deposits, prepaid insurance, contract assets, right of return assets, prepaid and refundable income taxes, assets held for sale, core to be returned for remanufacturing, restricted cash and other short-term investments.

Certain amounts for prior years have been reclassified to conform with the current-year financial statement presentation.

#### C. Inventories

We state inventories at the lower of cost or net realizable value. We principally determine cost using the last-in, first-out (LIFO) method. The value of inventories on the LIFO basis represented about 60 percent of total inventories at December 31, 2021 and 2020.

If the FIFO (first-in, first-out) method had been in use, inventories would have been \$2,599 million and \$2,132 million higher than reported at December 31, 2021 and 2020, respectively.

#### D. Depreciation and amortization

We compute depreciation of plant and equipment principally using accelerated methods. We compute depreciation on equipment leased to others, primarily for Financial Products, using the straightline method over the term of the lease. The depreciable basis is the original cost of the equipment less the estimated residual value of the equipment at the end of the lease term. In 2021, 2020 and 2019, Cat Financial depreciation on equipment leased to others was \$755 million, \$758 million and \$813 million, respectively, which we include in Other operating (income) expenses in Statement 1. In 2021, 2020 and 2019, consolidated depreciation expense was \$2,050 million, \$2,122 million and \$2,253 million, respectively. We compute amortization of purchased finite-lived intangibles principally using the straight-line method, generally not to exceed a period of 20 years.

#### E. Foreign currency translation

The functional currency for most of our ME&T consolidated subsidiaries is the U.S. dollar. The functional currency for most of our Financial Products consolidated subsidiaries is the respective local currency. We include gains and losses resulting from the remeasurement of foreign currency amounts to the functional currency in Other income (expense) in Statement 1. We include gains and losses resulting from translating assets and liabilities from the functional currency to U.S. dollars in Accumulated other comprehensive income (loss) (AOCI) in Statement 3.

### F. Derivative financial instruments

Our earnings and cash flow are subject to fluctuations due to changes in foreign currency exchange rates, interest rates and commodity prices. Our Risk Management Policy (policy) allows for the use of derivative financial instruments to prudently manage foreign currency exchange rate, interest rate and commodity price exposures. Our policy specifies that derivatives are not to be used for speculative purposes. Derivatives that we use are primarily foreign currency forward, option and cross currency contracts, interest rate contracts and commodity forward and option contracts. All derivatives are recorded at fair value. See Note 4 for more information.

### G. Income taxes

We determine the provision for income taxes using the asset and liability approach taking into account guidance related to uncertain tax positions. Tax laws require items to be included in tax filings at different times than the items are reflected in the financial statements. We recognize a current liability for the estimated taxes payable for the current year. Deferred taxes represent the future tax consequences expected to occur when the reported amounts of assets and liabilities are recovered or paid. We adjust deferred taxes for enacted changes in tax rates and tax laws. We record valuation allowances to reduce deferred tax assets when it is more likely than not that a tax benefit will not be realized. See Note 6 for further discussion.

### H. Goodwill

For acquisitions accounted for as a business combination, goodwill represents the excess of the cost over the fair value of the net assets acquired. We are required to test goodwill for impairment, at the reporting unit level, annually and when events or circumstances make it more likely than not that an impairment may have occurred. A reporting unit is an operating segment or one level below an operating segment (referred to as a component) to which goodwill is assigned when initially recorded. We assign goodwill to reporting units based on our integration plans and the expected synergies resulting from the acquisition. Because Caterpillar is a highly integrated company, the businesses we acquire are sometimes combined with or integrated into existing reporting units. When changes occur in the composition of our operating segments or reporting units, we reassign goodwill to the affected reporting units based on their relative fair values.

We perform our annual goodwill impairment test as of October 1 and monitor for interim triggering events on an ongoing basis. We review goodwill for impairment utilizing either a qualitative assessment or a quantitative goodwill impairment test. If we choose to perform a qualitative assessment and determine the fair value more likely than not exceeds the carrying value, no further evaluation is necessary. For reporting units where we perform the quantitative goodwill impairment test, we compare the fair value of each reporting unit, which we primarily determine using an income approach based on the present value of discounted cash flows, to the respective carrying value, which includes goodwill. If the fair value of the reporting unit exceeds its carrying value, we do not consider the goodwill impaired. If the carrying value is higher than the fair value, we would recognize the difference as an impairment loss. See Note 10 for further details.

### I. Estimates in financial statements

The preparation of financial statements in conformity with accounting principles generally accepted in the United States of America requires management to make estimates and assumptions that affect reported amounts. The more significant estimates include: residual values for leased assets; fair values for goodwill impairment tests; warranty liability and reserves for product liability and insurance losses, postretirement benefits, post-sale discounts, credit losses and income taxes.

### J. New accounting guidance

### A. Adoption of new accounting standards

**Reference rate reform** (Accounting Standards Update (ASU) 2020-04) – In March 2020, the Financial Accounting Standards Board (FASB) issued accounting guidance to ease the potential burden in accounting for reference rate reform related activities that impact debt, leases, derivatives and other contracts. The guidance is optional and may be elected over time as reference rate reform activities occur between March 12, 2020 through December 31, 2022. In January 2021, we elected to adopt optional expedients impacting our derivative instruments. In addition, in October 2021, we elected to adopt optional expedients did not have a material impact on our financial statements.

We adopted the following ASUs effective January 1, 2021, none of which had a material impact on our financial statements:

ASU	Description
2020-01	Investments - Equity securities, equity method and joint ventures and derivatives and hedging
2020-08	Codification improvements - Receivables - Nonrefundable fees and other costs
2021-01	Reference rate reform - Scope

#### B. Accounting standards issued but not yet adopted

We consider the applicability and impact of all ASUs. We assessed ASUs not listed above and determined that they either were not applicable or were not expected to have a material impact on our financial statements.

#### 2. Sales and revenue recognition

#### A. Sales of Machinery, Energy & Transportation

We recognize sales of ME&T when all the following criteria are satisfied: (i) a contract with an independently owned and operated dealer or an end user exists which has commercial substance; (ii) it is probable we will collect the amount charged to the dealer or end user; and (iii) we have completed our performance obligation whereby the dealer or end user has obtained control of the product. A contract with commercial substance exists once we receive and accept a purchase order under a dealer sales agreement, or once we enter into a contract with an end user. If collectibility is not probable, the sale is deferred and not recognized until collection is probable or payment is received. Control of our products typically transfers when title and risk of ownership of the product has transferred to the dealer or end user. Typically, where product is produced and sold in the same country, title and risk of ownership transfer when we ship the product. Products that are exported from a country for sale typically transfer title and risk of ownership at the border of the destination country.

Our remanufacturing operations are primarily focused on the remanufacture of Cat engines and components and rail related products. In this business, we inspect, clean and remanufacture used engines and related components (core). In connection with the sale of our remanufactured product to dealers, we collect a deposit that is repaid if the dealer returns an acceptable core within a specified time period. Caterpillar owns and has title to the cores when they are returned from dealers. The rebuilt engine or component (the core plus any new content) is then sold as a remanufactured product to dealers and end users. We recognize revenue pursuant to the same transfer of control criteria as ME&T sales noted above. At the time of sale, we recognize the deposit in Other current liabilities in Statement 3, and we recognize the core to be returned as an asset in Prepaid expenses and other current assets in Statement 3 at the estimated replacement cost (based on historical experience with usable cores). Upon receipt of an acceptable core, we repay the deposit and relieve the liability. We then transfer the returned core asset into inventory. In the event that the deposit is forfeited (i.e., upon failure by the dealer to return an acceptable core in the specified time period), we recognize the core deposit and the cost of the core in Sales and Cost of goods sold, respectively.

We provide discounts to dealers through merchandising programs. We have numerous programs that are designed to promote the sale of our products. The most common dealer programs provide a discount when the dealer sells a product to a targeted end user. Generally, we estimate the cost of these discounts for each product by model by geographic region based on historical experience and known changes in merchandising programs. We report the cost of these discounts as a reduction to the transaction price when we recognize the product sale. We accrue a corresponding post-sale discount reserve in Statement 3, which represents discounts we expect to pay on units sold. If discounts paid differ from those estimated, we report the difference as a change in the transaction price.

Except for replacement parts, no right of return exists on the sale of our products. We estimate replacement part returns based on historical experience and recognize a parts return asset in Prepaid expenses and other current assets in Statement 3, which represents our right to recover replacement parts we expect will be returned. We also recognize a refund liability in Other current liabilities in Statement 3 for the refund we expect to pay for returned parts. If actual replacement part returns differ from those estimated, we recognize the difference in the estimated replacement part return asset and refund liability in Cost of goods sold and Sales, respectively.

Our standard dealer invoice terms are established by marketing region. Our invoice terms for end user sales are established by the responsible business unit. Payments from dealers are due shortly after the time of sale. When we make a sale to a dealer, the dealer is responsible for payment even if the product is not sold to an end user. Dealers and end users must make payment within the established invoice terms to avoid potential interest costs. Interest at or above prevailing market rates may be charged on any past due balance, and generally our practice is to not forgive this interest. In addition, Cat Financial provides wholesale inventory financing for a dealer's purchase of inventory. Wholesale inventory receivables have varying payment terms. We include wholesale inventory receivables in Receivables - trade and other and Long-term receivables - trade and other in Statement 3. See Note 7 for further information. We recognize trade receivables from dealers and end users in Receivables - trade and other and Long-term receivables trade and other in Statement 3. Trade receivables from dealers and end users were \$7,267 million, \$6,310 million and \$7,648 million as of December 31, 2021, 2020 and 2019, respectively. Long-term trade receivables from dealers and end users were \$624 million, \$657 million and \$693 million as of December 31, 2021, 2020 and 2019, respectively.

We establish an allowance for credit losses for ME&T receivables when it becomes probable that we will not collect the receivable. Our allowance for credit losses is not significant.

We invoice in advance of recognizing the sale of certain products. We recognize advanced customer payments as a contract liability in Customer advances and Other liabilities in Statement 3. Contract liabilities were \$1,557 million, \$1,526 million and \$1,654 million as of December 31, 2021, 2020 and 2019, respectively. We reduce the contract liability when we recognize revenue. During 2021, we recognized \$903 million of revenue that was recorded as a contract liability at the beginning of 2021. During 2020, we recognized \$1,012 million of revenue that was recorded as a contract liability at the beginning of 2020.

We have elected the practical expedient to not adjust the amount of revenue to be recognized under a contract with a dealer or end user for the effects of time value of money when the timing difference between receipt of payment and recognition of revenue is less than one year. As of December 31, 2021, we have entered into contracts with dealers and end users for which sales have not been recognized as we have not satisfied our performance obligations and transferred control of the products. The dollar amount of unsatisfied performance obligations for contracts with an original duration greater than one year is \$6.4 billion, with about one-third of the amount expected to be completed and revenue recognized in the twelve months following December 31, 2021. We have elected the practical expedient to not disclose unsatisfied performance obligations with an original contract duration of one year or less. Contracts with an original duration of one year or less are primarily sales to dealers for machinery, engines and replacement parts.

We exclude sales and other related taxes from the transaction price. We account for shipping and handling costs associated with outbound freight after control over a product has transferred as a fulfillment cost which is included in Cost of goods sold.

We provide a standard manufacturer's warranty of our products at no additional cost. At the time we recognize a sale, we record estimated future warranty costs. See Note 21 for further discussion of our product warranty liabilities.

See Note 23 for further disaggregated sales and revenues information.

#### **B.** Revenues of Financial Products

Revenues of Financial Products are generated primarily from finance revenue on finance receivables and rental payments on operating leases. We record finance revenue over the life of the related finance receivable using the interest method, including the accretion of certain direct origination costs that are deferred. We recognize revenue from rental payments received on operating leases on a straight-line basis over the term of the lease.

We suspend recognition of finance revenue and operating lease revenue and place the account on non-accrual status when management determines that collection of future income is not probable (generally after 120 days past due). We resume recognition of revenue, and recognize previously suspended income, when we consider collection of remaining amounts to be probable. We write off interest earned but uncollected prior to the receivable being placed on non-accrual status through Provision for credit losses when, in the judgment of management, we consider it to be uncollectible. See Note 7 for more information.

#### 3. Stock-based compensation

Our stock-based compensation plans primarily provide for the granting of stock options, restricted stock units (RSUs) and performance-based restricted stock units (PRSUs) to Officers and other key employees, as well as non-employee Directors. Stock options permit a holder to buy Caterpillar stock at the stock's price when the option was granted. RSUs are agreements to issue shares of Caterpillar stock at the time of vesting. PRSUs are similar to RSUs and include performance conditions in the vesting terms of the award.

Our long-standing practices and policies specify that the Compensation Committee (the Committee) of the Board of Directors approve all stock-based compensation awards. The award approval process specifies the grant date, value and terms of the award. We consistently apply the same terms and conditions to all employee grants, including Officers. The Committee approves all individual Officer grants. We determine the number of stock-based compensation award units included in an individual's award based on the methodology approved by the Committee. The exercise price methodology approved by the Committee is the closing price of the Company stock on the date of the grant. In June of 2014, shareholders approved the Caterpillar Inc. 2014 Long-Term Incentive Plan (the Plan) under which all new stock-based compensation awards are granted. In June of 2017, shareholders amended and restated the Plan. The Plan initially provided that up to 38,800,000 Common Shares would be reserved for future issuance under the Plan, subject to adjustment in certain events. Subsequent to the shareholder approval of the amendment and restatement of the Plan, an additional 36,000,000 Common Shares became available for all awards under the Plan.

Common stock issued from Treasury stock under the plans totaled 3,571,503 for 2021, 5,317,243 for 2020 and 5,126,379 for 2019. The total number of shares authorized for equity awards under the amended and restated Caterpillar Inc. 2014 Long-Term Incentive Plan is 74,800,000, of which 33,880,674 shares remained available for issuance as of December 31, 2021.

Stock option and RSU awards generally vest according to a three-year graded vesting schedule. One-third of the award will become vested on the first anniversary of the grant date, one-third of the award will become vested on the second anniversary of the grant date and one-third of the award will become vested on the third anniversary of the grant date. PRSU awards generally have a three-year performance period and cliff vest at the end of the period based upon achievement of performance targets established at the time of grant.

Upon separation from service, if the participant is 55 years of age or older with more than five years of service, the participant meets the criteria for a "Long Service Separation." Award terms for stock option and RSU grants allow for continued vesting as of each vesting date specified in the award document for employees who meet the criteria for a "Long Service Separation" and fulfill a requisite service period of six months. We recognize compensation expense for eligible employees for the grants over the period from the grant date to the end date of the six-month requisite service Separation" subsequent to the end date of the six-month requisite service service period and prior to the completion of the vesting period, we recognized compensation expense over the period from the grant date to the date eligibility is achieved.

Award terms for PRSU grants allow for continued vesting upon achievement of the performance target specified in the award document for employees who meet the criteria for a "Long Service Separation" and fulfill a requisite service period of six months. We recognize compensation expense for the PRSU grants with respect to employees who have met the criteria for a "Long Service Separation" over the period from the grant date to the end of the six-month requisite service period. For employees who become eligible for a "Long Service Separation" subsequent to the end date of the six-month requisite service period and prior to the completion of the vesting period, we recognize compensation expense over the period from the grant date to the date eligibility is achieved.

At grant, option awards have a term life of ten years. For awards granted prior to 2016, if the "Long Service Separation" criteria are met, the vested options have a life that is the lesser of ten years from the original grant date or five years from the separation date. For awards granted beginning in 2016, the vested options have a life equal to ten years from the original grant date.

Accounting guidance on share-based payments requires companies to estimate the fair value of options on the date of grant using an option-pricing model. The fair value of our option grants was estimated using the Black-Scholes option-pricing model. The Black-Scholes option-pricing model considers a range of assumptions related to volatility, risk-free interest rate and historical employee behavior. Expected volatility was based on historical Caterpillar stock price movement and current implied volatilities from traded options on Caterpillar stock. The risk-free interest rate was based on U.S. Treasury security yields at the time of grant. The weightedaverage dividend yield was based on historical information. We determine the expected life from the actual historical employee exercise behavior. The following table provides the assumptions used in determining the fair value of the Option awards for the years ended December 31, 2021, 2020 and 2019, respectively.

		Grant Year	
	2021	2020	2019
Weighted-average dividend yield	2.6%	2.5%	2.6%
Weighted-average volatility	32.9%	25.7%	29.1%
Range of volatilities	29.2%-45.8%	24.5%-29.7%	25.1%- 38.7%
Range of risk-free interest rates	0.06%-1.41%	1.21%-1.39%	2.48%-2.68%
Weighted-average expected lives	8 years	8 years	7 years

Beginning with the 2018 grant, we credit RSU and PRSU awards with dividend equivalent units on each date that we pay a cash dividend to holders of Common stock. We determine the fair value of the RSU and PRSU awards granted in 2021, 2020 and 2019 as the closing stock price on the date of the grant.

Please refer to Tables I and II below for additional information on our stock-based compensation awards.

	Stock	c optio	ns	R	SUs		PRSUs			
	Shares		Veighted- Average Exercise Price	Shares	G	Veighted- Average rant Date air Value	Shares	Av Gra	ighted- verage nt Date r Value	
Outstanding at January 1, 2021	10,076,983	\$	109.60	1,327,950	\$	134.89	727,757	\$	132.81	
Granted to officers and key employees	1,084,821	\$	219.76	472,698	\$	216.50	285,056	\$	215.45	
Exercised	(3,399,720)	\$	103.45	_	\$	_	_	\$	_	
Vested	_	\$	_	(665,357)	\$	138.90	(356,618)	\$	138.35	
Forfeited / expired	(39,664)	\$	161.34	(35,110)	\$	167.12	(10,822)	\$	163.02	
Outstanding at December 31, 2021	7,722,420	\$	127.52	1,100,181	\$	166.50	645,373	\$	165.74	
Exercisable at December 31, 2021	4,914,111	\$	106.36							

Stock options outstanding and exercisable as of December 31, 2021:

		Out	standi	ing				Exerc	isable			
Exercise Prices	Shares Outstanding at 12/31/2021	Weighted- Average Remaining Contractual Life (Years)	Æ	eighted- Average xercise Price		Aggregate Intrinsic Value <sup>1</sup>	Shares Outstanding at 12/31/2021	Weighted- Average Remaining Contractual Life (Years)	Α	eighted- verage cise Price		Aggregate Intrinsic Value <sup>1</sup>
\$74.77-\$83.00	1,846,000	3.75	\$	78.65	\$	236	1,846,000	3.75	\$	78.65	\$	236
\$89.75-\$96.31	1,225,687	4.01	\$	95.20		137	1,225,182	4.01	\$	95.20		137
\$110.09	39,909	0.17	\$	110.09		4	39,909	0.17	\$	110.09		4
\$127.60-\$138.35	2,675,475	7.88	\$	131.81		200	936,141	7.68	\$	134.01		68
\$151.12-\$219.76	1,935,349	7.93	\$	189.01		34	866,879	6.26	\$	151.12		48
	7,722,420		\$	127.52	\$	611	4,914,111		\$	106.36	\$	493
<sup>1</sup> The difference be	etween a stock aw	vard's exercise pric	e and t	he underlying	stoc	k's closing market	t price at December 31	, 2021, for awards v	vith mar	ket price grea	ter tl	nan the exercise

price. Amounts are in millions of dollars.

The computations of weighted-average exercise prices and aggregate intrinsic values are not applicable to RSUs or PRSUs since these awards represent an agreement to issue shares of stock at the time of vesting. At December 31, 2021, there were 1,100,181 outstanding RSUs with a weighted average remaining contractual life of 1.4 years and 645,373 outstanding PRSUs with a weighted-average remaining contractual life of 1.4 years.

TABLE II—Additional Stock-base	ed Award Informa	ation		
(Dollars in millions except per share data)		2021	 2020	 2019
Stock options activity:				
Weighted-average fair value per share of stock awards granted	\$	56.30	\$ 25.98	\$ 40.98
Intrinsic value of stock awards exercised	\$	374	\$ 386	\$ 264
Fair value of stock awards vested 1	\$	59	\$ 64	\$ 100
Cash received from stock awards exercised	\$	212	\$ 282	\$ 298
RSUs activity:				
Weighted-average fair value per share of stock awards granted	\$	216.50	\$ 128.07	\$ 138.61
Fair value of stock awards vested <sup>2</sup>	\$	136	\$ 87	\$ 110
PRSUs activity:				
Weighted-average fair value per share of stock awards granted	\$	215.45	\$ 128.41	\$ 138.67
Fair value of stock awards vested <sup>2</sup>	\$	74	\$ 59	\$ 59
<sup>1</sup> Based on the grant date fair value.				
<sup>2</sup> Based on the underlying stock's closing market price on the vesting date.				

In accordance with guidance on share-based payments, stockbased compensation expense is based on the grant date fair value and is classified within Cost of goods sold, Selling, general and administrative expenses and Research and development expenses corresponding to the same line item as the cash compensation paid to respective employees, officers and non-employee directors. We recognize stock-based compensation expense on a straight-line basis over the requisite service period for awards with terms that specify cliff or graded vesting and contain only service conditions. Stock-based compensation expense for PRSUs is based on the probable number of shares expected to vest and is recognized primarily on a straight-line basis.

Before tax, stock-based compensation expense for 2021, 2020 and 2019 was \$200 million, \$202 million and \$205 million, respectively, with a corresponding income tax benefit of \$23 million, \$34 million and \$35 million, respectively.

The amount of stock-based compensation expense capitalized for the years ended December 31, 2021, 2020 and 2019 did not have a significant impact on our financial statements.

At December 31, 2021, there was \$143 million of total unrecognized compensation cost from stock-based compensation arrangements granted under the plans, which is related to non-vested stock-based awards. We expect to recognize the compensation expense over a weighted-average period of approximately 1.7 years.

We currently use shares in Treasury stock to satisfy share award exercises.

The cash tax benefits realized from stock awards exercised for 2021, 2020 and 2019 were \$102 million, \$108 million and \$89 million, respectively. We use the direct only method and tax law ordering approach to calculate the tax effects of stock-based compensation.

#### 4. Derivative financial instruments and risk management

Our earnings and cash flow are subject to fluctuations due to changes in foreign currency exchange rates, interest rates and commodity prices. Our Risk Management Policy (policy) allows for the use of derivative financial instruments to prudently manage foreign currency exchange rate, interest rate and commodity price exposures. Our policy specifies that derivatives are not to be used for speculative purposes. Derivatives that we use are primarily foreign currency forward, option and cross currency contracts, interest rate contracts and commodity forward and option contracts. Our derivative activities are subject to the management, direction and control of our senior financial officers. We present at least annually to the Audit Committee of the Board of Directors on our risk management practices, including our use of financial derivative instruments.

We recognize all derivatives at their fair value in Statement 3. On the date the derivative contract is entered into, we designate the derivative as (1) a hedge of the fair value of a recognized asset or liability (fair value hedge), (2) a hedge of a forecasted transaction or the variability of cash flow (cash flow hedge) or (3) an undesignated instrument. We record in current earnings changes in the fair value of a derivative that is gualified, designated and highly effective as a fair value hedge, along with the gain or loss on the hedged recognized asset or liability that is attributable to the hedged risk. We record in AOCI changes in the fair value of a derivative that is qualified, designated and highly effective as a cash flow hedge, to the extent effective, in Statement 3 until we reclassify them to earnings in the same period or periods during which the hedged transaction affects earnings. We report changes in the fair value of undesignated derivative instruments in current earnings. We classify cash flows from designated derivative financial instruments within the same category as the item being hedged on Statement 5. We include cash flows from undesignated derivative financial instruments in the investing category on Statement 5.

We formally document all relationships between hedging instruments and hedged items, as well as the risk-management objective and strategy for undertaking various hedge transactions. This process includes linking all derivatives that are designated as fair value hedges to specific assets and liabilities in Statement 3 and linking cash flow hedges to specific forecasted transactions or variability of cash flow.

We also formally assess, both at the hedge's inception and on an ongoing basis, whether the designated derivatives that are used in hedging transactions are highly effective in offsetting changes in fair values or cash flow of hedged items. When a derivative is determined not to be highly effective as a hedge or the underlying hedged transaction is no longer probable, we discontinue hedge accounting prospectively, in accordance with the derecognition criteria for hedge accounting.

#### A. Foreign currency exchange rate risk

Foreign currency exchange rate movements create a degree of risk by affecting the U.S. dollar value of sales made and costs incurred in foreign currencies. Movements in foreign currency rates also affect our competitive position as these changes may affect business practices and/or pricing strategies of non-U.S.-based competitors. Additionally, we have balance sheet positions denominated in foreign currencies, thereby creating exposure to movements in exchange rates. Our ME&T operations purchase, manufacture and sell products in many locations around the world. As we have a diversified revenue and cost base, we manage our future foreign currency cash flow exposure on a net basis. We use foreign currency forward and option contracts to manage unmatched foreign currency cash inflow and outflow. Our objective is to minimize the risk of exchange rate movements that would reduce the U.S. dollar value of our foreign currency cash flow. Our policy allows for managing anticipated foreign currency cash flow for up to approximately five years. As of December 31, 2021, the maximum term of these outstanding contracts at inception was approximately 60 months.

We generally designate as cash flow hedges at inception of the contract any Australian dollar, Brazilian real, British pound, Canadian dollar, Chinese yuan, Euro, Indian rupee, Japanese yen, Mexican peso, Norwegian Krona, Singapore dollar or Thailand baht forward or option contracts that meet the requirements for hedge accounting and the maturity extends beyond the current quarter-end. We perform designation on a specific exposure basis to support hedge accounting. The remainder of ME&T foreign currency contracts are undesignated.

In managing foreign currency risk for our Financial Products operations, our objective is to minimize earnings volatility resulting from conversion and the remeasurement of net foreign currency balance sheet positions and future transactions denominated in foreign currencies. Our policy allows the use of foreign currency forward, option and cross currency contracts to offset the risk of currency mismatch between our assets and liabilities and exchange rate risk associated with future transactions denominated in foreign currencies. Our foreign currency forward and option contracts are primarily undesignated. We designate fixed-to-fixed cross currency contracts as cash flow hedges to protect against movements in exchange rates on foreign currency fixed-rate assets and liabilities.

#### B. Interest rate risk

Interest rate movements create a degree of risk by affecting the amount of our interest payments and the value of our fixed-rate debt. Our practice is to use interest rate contracts to manage our exposure to interest rate changes.

Our ME&T operations generally use fixed-rate debt as a source of funding. Our objective is to minimize the cost of borrowed funds. Our policy allows us to enter into fixed-to-floating interest rate contracts and forward rate agreements to meet that objective. We designate fixed-to-floating interest rate contracts as fair value hedges at inception of the contract, and we designate certain

forward rate agreements as cash flow hedges at inception of the contract.

Financial Products operations has a match-funding policy that addresses interest rate risk by aligning the interest rate profile (fixed or floating rate and duration) of Cat Financial's debt portfolio with the interest rate profile of our receivables portfolio within predetermined ranges on an ongoing basis. In connection with that policy, we use interest rate derivative instruments to modify the debt structure to match assets within the receivables portfolio. This matched funding reduces the volatility of margins between interest-bearing assets and interest-bearing liabilities, regardless of which direction interest rates move.

Our policy allows us to use fixed-to-floating, floating-to-fixed and floating-to-floating interest rate contracts to meet the match-funding objective. We designate fixed-to-floating interest rate contracts as fair value hedges to protect debt against changes in fair value due to changes in the benchmark interest rate. We designate most floating-to-fixed interest rate contracts as cash flow hedges to protect against the variability of cash flows due to changes in the benchmark interest rate.

We have, at certain times, liquidated fixed-to-floating and floating-tofixed interest rate contracts at both ME&T and Financial Products. We amortize the gains or losses associated with these contracts at the time of liquidation into earnings over the original term of the previously designated hedged item.

#### C. Commodity price risk

Commodity price movements create a degree of risk by affecting the price we must pay for certain raw materials. Our policy is to use commodity forward and option contracts to manage the commodity risk and reduce the cost of purchased materials.

Our ME&T operations purchase base and precious metals embedded in the components we purchase from suppliers. Our suppliers pass on to us price changes in the commodity portion of the component cost. In addition, we are subject to price changes on energy products such as natural gas and diesel fuel purchased for operational use.

Our objective is to minimize volatility in the price of these commodities. Our policy allows us to enter into commodity forward and option contracts to lock in the purchase price of a portion of these commodities within a five-year horizon. All such commodity forward and option contracts are undesignated. The location and fair value of derivative instruments reported in Statement 3 were as follows:

(Millions of dollars)	Consolidated Statement of Financial Position Location		Asset (Liability) Fair Value			
		Years ended December 31,				
		2021		2020		
Designated derivatives						
Foreign exchange contracts						
Machinery, Energy & Transportation	Receivables — trade and other	\$	58	\$	74	
Machinery, Energy & Transportation	Long-term receivables — trade and other		28		71	
Machinery, Energy & Transportation	Accrued expenses		(26)		(36)	
Machinery, Energy & Transportation	Other liabilities		(6)		(1)	
Financial Products	Receivables — trade and other		109		1	
Financial Products	Long-term receivables — trade and other		33		1	
Financial Products	Accrued expenses		(32)		(148)	
Interest rate contracts						
Machinery, Energy & Transportation	Long-term receivables — trade and other		_		4	
Financial Products	Receivables — trade and other		7		2	
Financial Products	Long-term receivables — trade and other		31		57	
Financial Products	Accrued expenses		(15)		(5)	
		\$	187	\$	20	
Undesignated derivatives						
Foreign exchange contracts						
Machinery, Energy & Transportation	Receivables — trade and other	\$	18	\$	10	
Machinery, Energy & Transportation	Accrued expenses		(6)		(1)	
Financial Products	Receivables — trade and other		21		17	
Financial Products	Long-term receivables — trade and other		7		7	
Financial Products	Accrued expenses		(36)		(107)	
Commodity contracts						
Machinery, Energy & Transportation	Receivables — trade and other		30		35	
Machinery, Energy & Transportation	Long-term receivables — trade and other		_		2	
Machinery, Energy & Transportation	Accrued expenses		(9)		_	
		\$	25	\$	(37)	

The total notional amounts of the derivative instruments were as follows:

	Years end	Years ended December 31,			
(Millions of dollars)	2021		2020		
Machinery, Energy & Transportation	\$ 5,0	<b>35</b> \$	3,553		
Financial Products	\$ 13,8	<b>52</b> \$	11,260		

The notional amounts of the derivative financial instruments do not represent amounts exchanged by the parties. We calculate the amounts exchanged by the parties by reference to the notional amounts and by other terms of the derivatives, such as foreign currency exchange rates, interest rates or commodity prices.

The effect of derivatives designated as hedging instruments on Statement 1 was as follows:

Cash Flow Hedges							
(Millions of dollars)			Year ended December 31, 2021				
			Recognized in Earn				
	Amour Gains (Lo Recogniz AOC	osses) zed in	Classification of Gains (Losses)	Gains Recla	Amount of Gains (Losses) Reclassified from AOCI		ount of the e items in atement 1
Foreign exchange contracts							
Machinery, Energy & Transportation	\$	(21)	Sales of Machinery, Energy & Transportation	\$	(13)	\$	48,188
			Cost of goods sold		46		35,513
Financial Products		190	Interest expense of Financial Products		(5)		455
			Other income (expense)		199		1,814
nterest rate contracts							
Machinery, Energy & Transportation		7	Interest expense excluding Financial Products		(3)		488
Financial Products		19	Interest expense of Financial Products		(28)		455
	\$	195		\$	196		
			Year ended December 31, 2020				
			Recognized in Earn	ngs			
	Amour Gains (Lo Recogni: AOC	osses) zed in	Classification of Gains (Losses)	Gains Recla	ount of (Losses) assified n AOCI	lin	ount of the e items in atement 1
Foreign exchange contracts							
Machinery, Energy & Transportation	\$	48	Sales of Machinery, Energy & Transportation	\$	2	\$	39,022
			Cost of goods sold		(55)		29,082
Financial Products		(130)	Interest expense of Financial Products		32		589
			Other income (expense)		(164)		(44
Interest rate contracts							
Machinery, Energy & Transportation		(11)	Interest expense excluding Financial Products		(4)		514
Financial Products		(23)	Interest expense of Financial Products		(52)		589
	\$	(116)		\$	(241)		
			Year ended December 31, 2019				
			Recognized in Earnings				
	Amoun Gains (Lo Recogniz AOC	isses) zed in	Classification of Gains (Losses)	Gains Recla	ount of (Losses) assified n AOCI		Amount of the line items in Statement
Foreign exchange contracts							
Machinery, Energy & Transportation	\$	34	Sales of Machinery, Energy & Transportation	\$	11	\$	50,755
			Cost of goods sold		(3)		36,630
Financial Products		93	Interest expense of Financial Products		33		754
			Other income (expense)		37		(57
Interest rate contracts							
Machinery, Energy & Transportation			Interest expense excluding Financial Products		(4)		421
Financial Products		(70)	Interest expense of Financial Products		(8)		754
	\$	57		\$	66		

The effect of derivatives not designated as hedging instruments on Statement 1 was as follows:

(Millions of dollars) Foreign exchange contracts	Classification of Gains (Losses)		2021	 2020		2019
Machinery, Energy & Transportation	Other income (expense)	\$	15	\$ 38	\$	13
Financial Products	Other income (expense)		89	(112)		(37)
Commodity contracts						
Machinery, Energy & Transportation	Other income (expense)		56	11		18
		\$	160	\$ (63)	\$	(6)

We enter into International Swaps and Derivatives Association (ISDA) master netting agreements within ME&T and Financial Products that permit the net settlement of amounts owed under their respective derivative contracts. Under these master netting agreements, net settlement generally permits the company or the counterparty to determine the net amount payable for contracts due on the same date and in the same currency for similar types of derivative transactions. The master netting agreements generally also provide

for net settlement of all outstanding contracts with a counterparty in the case of an event of default or a termination event.

Collateral is generally not required of the counterparties or of our company under the master netting agreements. As of December 31, 2021 and 2020, no cash collateral was received or pledged under the master netting agreements.

**Gross Amounts Not Offset in the** 

Statement of Financial Position

The effect of the net settlement provisions of the master netting agreements on our derivative balances upon an event of default or termination event was as follows:

December 31, 2021			G	ross	let Amount of Assets	 • • • • • • • • • •	 Offset in the ial Position	
(Millions of dollars)	of Rec	Amount ognized sets	Offse Stat of Fir	ounts et in the ement nancial sition	Presented in the Statement If Financial Position	 ancial ruments	Cash Collateral Received	 et Amount of Assets
Derivatives								
Machinery, Energy & Transportation	\$	134	\$	—	\$ 134	\$ (47)	\$ —	\$ 87
Financial Products		208		—	208	(67)	—	141
Total	\$	342	\$	_	\$ 342	\$ (114)	\$ 	\$ 228

#### December 31, 2021

(Millions of dollars) Derivatives	of Red	Amount cognized pilities	0 5 0	Gross Amounts ffset in the Statement f Financial Position	(	Net Amount of Liabilities Presented in the Statement of Financial Position	 Financial Instruments	 Cash Collateral Pledged	Net Amount of Liabilities
Machinery, Energy & Transportation	\$	(47)	\$	-	\$	(47)	\$ 47	\$ _	\$ _
Financial Products		(83)		_		(83)	67	_	(16)
Total	\$	(130)	\$	—	\$	(130)	\$ 114	\$ _	\$ (16)

. . . .

December 31, 2020					Gross Amounts Statement of Fir	 	
(Millions of dollars)	of Red	s Amount cognized ssets	Gross Amounts Offset in the Statement of Financial Position	Net Amount of Assets Presented in the Statement of Financial Position	 Financial Instruments	 Cash Collateral Received	 Net Amount of Assets
Derivatives							
Machinery, Energy & Transportation	\$	196	\$ —	\$ 196	\$ (38)	\$ _	\$ 158
Financial Products		85	 _	 85	 (57)	 —	 28
Total	\$	281	\$ _	\$ 281	\$ (95)	\$ _	\$ 186

#### December 31, 2020

Gross Amounts Not Off set in the Statement of Financial Position

(Millions of dollars) Derivatives	Gross Am of Recogn Liabilitie	ized	0	Gross Amounts Offset in the Statement of Financial Position	Net Amount of Liabilities Presented in the Statement of Financial Position	_	Financial Instruments	 Cash Collateral Pledged	-	Net Amount of Liabilities
Machinery, Energy & Transportation	\$	(38)	\$	_	\$ (38)	\$	38	\$ 	\$	_
Financial Products		(260)		_	(260)		57	_		(203)
Total	\$	(298)	\$		\$ (298)	\$	95	\$ 	\$	(203)

#### 5. Other income (expense)

	 Ye	ars ended De	ecember	r 31,	
(Millions of dollars)	2021	2020		:	2019
Investment and interest income	\$ 80	\$	112	\$	202
Foreign exchange gains (losses) 1	110		(193)		(67)
License fee income	123		104		121
Gains (losses) on securities	134		37		65
Net periodic pension and OPEB income (cost), excluding service cost	1,279		(90)		(363)
Miscellaneous income (loss)	88		(14)		(15)
Total	\$ 1,814	\$	(44)	\$	(57)
<sup>1</sup> Includes gains (losses) from foreign exchange derivative contracts. See Note 4 for further details.					

#### 6. Income taxes

#### Reconciliation of the U.S. federal statutory rate to effective rate:

				Ye	ears ended De	cember 31,		
(Millions of dollars)		2021			2020		2019	
Taxes at U.S. statutory rate	\$	1,723	21.0%	\$	839	21.0%	\$ 1,641	21.0%
(Decreases) increases resulting from:								
Non-U.S. subsidiaries taxed at other than the U.S. rate		211	2.6%		285	7.1%	365	4.7%
State and local taxes, net of federal <sup>1</sup>		28	0.3%		32	0.8%	59	0.8%
Interest and penalties, net of tax		45	0.6%		28	0.7%	34	0.4%
U.S. tax incentives		(123)	(1.5)%		(52)	(1.3)%	(149)	(1.9)%
Net excess tax benefits from stock-based compensation		(63)	(0.8)%		(49)	(1.2)%	(41)	(0.5)%
Prior year tax adjustments		(36)	(0.4)%		(80)	(2.0)%	(178)	(2.3)%
Other-net		(43)	(0.6)%		3	0.1%	15	0.2%
Provision (benefit) for income taxes	\$	1,742	21.2%	\$	1,006	25.2%	\$ 1,746	22.4%
<sup>1</sup> Excludes amounts included in net excess tax benefits from stock-basi	ed corr	npensation.						

Included in the line item above labeled "Non-U.S. subsidiaries taxed at other than the U.S. rate" are the effects of local and U.S. taxes related to earnings of non-U.S. subsidiaries, changes in the amount of unrecognized tax benefits associated with these earnings, losses at non-U.S. subsidiaries without local tax benefits due to valuation allowances and other permanent differences between tax and U.S. GAAP results. The line item above labeled "Prior year tax adjustments" includes a \$36 million benefit in 2021 to reflect changes in estimates and an \$80 million benefit in 2020 including the impact of regulations received. During 2019, we recorded a \$178 million tax benefit to adjust previously unrecognized tax benefits as a result of receipt of additional guidance related to the calculation of the one-time mandatory deemed repatriation of non-U.S. earnings required by U.S. tax legislation enacted on December 22, 2017. Distributions of profits from non-U.S. subsidiaries are not expected to cause a significant incremental U.S. tax impact in the future. However, these distributions may be subject to non-U.S. withholding taxes if profits are distributed from certain jurisdictions. Undistributed profits of non-U.S. subsidiaries of approximately \$15 billion are considered indefinitely reinvested. Determination of the amount of unrecognized deferred tax liability related to indefinitely reinvested profits is not feasible primarily due to our legal entity structure and the complexity of U.S. and local tax laws.

#### The components of profit (loss) before taxes were:

	Years ended December 31,									
(Millions of dollars)		2021		2020		2019				
U.S.	\$	2,740	\$	590	\$	2,888				
Non-U.S.		5,464		3,405		4,924				
	\$	8,204	\$	3,995	\$	7,812				

Profit before taxes, as shown above, is based on the location of the entity to which such earnings are attributable. Where an entity's earnings are subject to taxation, however, may not correlate solely to where an entity is located. Thus, the income tax provision shown below as U.S. or non-U.S. may not correspond to the earnings shown above.

#### The components of the provision (benefit) for income taxes were:

		ded December 31,				
Millions of dollars)		2021		2020		2019
Current tax provision (benefit):						
U.S. <sup>1</sup>	\$	766	\$	18	\$	405
Non-U.S.		1,283		1,031		1,261
State (U.S.)		76		31		52
		2,125		1,080		1,718
Deferred tax provision (benefit):						
U.S. <sup>1</sup>		(387)		(44)		17
Non-U.S.		54		(34)		(7)
State (U.S.)		(50)		4		18
		(383)		(74)		28
Total provision (benefit) for income taxes	\$	1,742	\$	1,006	\$	1,746

<sup>1</sup> Includes U.S. taxes related to non-U.S. earnings. We account for U.S. taxes on global intangible low-taxed income as a period cost.

We paid net income tax and related interest of \$1,759 million, \$1,311 million and \$1,847 million in 2021, 2020 and 2019, respectively.

Accounting for income taxes under U.S. GAAP requires that individual tax-paying entities of the company offset all deferred tax liabilities and assets within each particular tax jurisdiction and present them as a noncurrent deferred tax liability or asset in the Consolidated Financial Position. Amounts in different tax jurisdictions cannot be offset against each other. The amount of deferred income taxes at December 31, included on the following lines in Statement 3, were as follows:

	Decem	ber 31,	
(Millions of dollars)	2021		2020
Assets:			
Noncurrent deferred and refundable income taxes	\$ 1,669	\$	1,358
Liabilities:			
Other liabilities	412		418
Deferred income taxes—net	\$ 1,257	\$	940

	Dece	December 31,					
(Millions of dollars)	2021	2020					
Deferred income tax assets:							
Tax carryforwards	\$ 1,380	\$ 1,346					
Postemployment benefits other than pensions	848	919					
Employee compensation and benefits	464	267					
Research expenditures	415	193					
Intercompany prepayments	280	_					
Warranty reserves	266	247					
Lease obligations	159	154					
Post sale discounts	143	153					
Pension	111	396					
Allowance for credit losses	106	126					
Other-net	235	317					
	4,407	4,118					
Deferred income tax liabilities:							
Capital and intangible assets, including lease basis differences	(1,457)	(1,526)					
Other outside basis differences	(264)	(284)					
Translation	(188)	(147)					
Bond discount	(112)	(117)					
Undistributed profits of non-U.S. subsidiaries	(101)	(95)					
	(2,122)	(2,169)					
Valuation allowance for deferred tax assets	(1,028)	(1,009)					
Deferred income taxes—net	\$ 1,257	\$ 940					

At December 31, 2021, approximately \$890 million of U.S. state tax net operating losses (NOLs) and \$130 million of U.S. state tax credit carryforwards were available. The state NOLs primarily expire over the next twenty years. The state tax credit carryforwards primarily expire over the next fifteen years, with some credits having an unlimited carryforward period. In total, we have established a valuation allowance of \$150 million related to certain of these carryforwards. At December 31, 2021, approximately \$790 million of capital losses are available to carryforward on the U.S. federal tax return. These losses have a five-year carryforward period and will expire in 2027.

At December 31, 2021, approximately \$90 million of U.S. foreign tax credits were available to carryforward on the U.S. federal tax return. These credits have a ten-year carryforward period and begin to expire in 2028.

At December 31, 2021, amounts and expiration dates of net operating loss and interest carryforwards in various non-U.S. taxing jurisdictions were:

	(Millions of dollars)										
2022	2023	2024	2025-2027	2028-2042	Unlimited	Total					
\$4	\$ 3	\$ 14	\$ 32	\$ 844	\$ 3,876	\$ 4,773					

At December 31, 2021, non-U.S. entities that have not yet demonstrated consistent and/or sustainable profitability to support the realization of net deferred tax assets have recorded valuation allowances of \$770 million, including certain entities in Luxembourg.

A reconciliation of the beginning and ending amount of gross unrecognized tax benefits for uncertain tax positions, including positions impacting only the timing of tax benefits, follows.

	Years ended December 31,								
(Millions of dollars)		2021				2019			
Beginning balance	\$	1,759	\$	1,778	\$	1,796			
Additions for tax positions related to current year		141		44		72			
Additions for tax positions related to prior years		43		46		112			
Reductions for tax positions related to prior years		(30)		(12)		(201)			
Reductions for settlements <sup>2</sup>		(24)		(94)		_			
Reductions for expiration of statute of limitations		(3)		(3)		(1)			
Ending balance	\$	1,886	\$	1,759	\$	1,778			
Amount that, if recognized, would impact the effective tax rate	\$	1,688	\$	1,657	\$	1,616			
1 Foreign aurreney impacts are included within each line as applicable									

Foreign currency impacts are included within each line as applicable.
 Includes cash payment or other reduction of assets to settle liability.

We classify interest and penalties on income taxes as a component of the provision for income taxes. We recognized a net provision for interest and penalties of \$54 million, \$38 million and \$43 million during the years ended December 31, 2021, 2020 and 2019, respectively. The total amount of interest and penalties accrued was \$297 million and \$264 million as of December 31, 2021 and 2020, respectively.

In Revenue Agent's Reports issued at the end of the field examinations of our U.S. income tax returns for 2007 to 2012 including the impact of a loss carryback to 2005, the Internal Revenue Service has proposed to tax in the United States profits earned from certain parts transactions by Caterpillar SARL (CSARL) based on the examination team's application of the "substanceover-form" or "assignment-of-income" judicial doctrines. We are vigorously contesting the proposed increases to tax and penalties for these years of approximately \$2.3 billion. We believe that the relevant transactions complied with applicable tax laws and did not violate judicial doctrines. We have filed U.S. income tax returns on this same basis for years after 2012. Based on the information currently available, we do not anticipate a significant change to our unrecognized tax benefits for this position within the next 12 months. We currently believe the ultimate disposition of this matter will not have a material adverse effect on our consolidated financial position, liquidity or results of operations.

With the exception of a loss carryback to 2005, tax years prior to 2007 are generally no longer subject to U.S. tax assessment. In our major non-U.S. jurisdictions including Australia, Brazil, China, Germany, India, Japan, Mexico, Switzerland, Singapore and the U.K., tax years are typically subject to examination for three to ten years. Due to the uncertainty related to the timing and potential outcome of audits, we cannot estimate the range of reasonably possible change in unrecognized tax benefits in the next 12 months.

#### 7. Cat Financial Financing Activities

#### A. Wholesale inventory receivables

Wholesale inventory receivables are receivables of Cat Financial that arise when Cat Financial provides financing for a dealer's purchase of inventory and were \$1,098 million and \$1,233 million, at December 31, 2021 and 2020, respectively. We include these receivables in Receivables—trade and other and Long-term receivables—trade and other in Statement 3.

#### Contractual maturities of outstanding wholesale inventory receivables:

(Millions of dollars)	December 31, 2021								
	\	Vholesale Loans	Wholesale Leases		Total				
Amounts Due In									
2022	\$	421	\$ 46	\$	467				
2023		237	38		275				
2024		117	30		147				
2025		56	22		78				
2026		21	9		30				
Thereafter		5	—		5				
Total		857	145		1,002				
Guaranteed residual value <sup>1</sup>		68	27		95				
Unguaranteed residual value 1		2	29		31				
Less: Unearned income		(11)	(19)		(30)				
Total	\$	916	\$ 182	\$	1,098				
<sup>1</sup> For Wholesale loans, represents residual value on failed sale leasebacks.									

Cat Financial's wholesale inventory receivables generally may be repaid or refinanced without penalty prior to contractual maturity. Please refer to Note 18 for fair value information.

#### B. Finance receivables

Finance receivables are receivables of Cat Financial and are reported in Statement 3 net of an allowance for credit losses.

#### Contractual maturities of outstanding finance receivables:

(Millions of dollars)	December 31, 2021									
		Retail Loans		Retail Leases		Total				
Amounts Due In										
2022	\$	5,839	\$	3,137	\$	8,976				
2023		3,892		2,070		5,962				
2024		2,571		1,101		3,672				
2025		1,448		510		1,958				
2026		647		217		864				
Thereafter		195		34		229				
Total		14,592		7,069		21,661				
Guaranteed residual value 1		16		386		402				
Unguaranteed residual value <sup>1</sup>		3		720		723				
Less: Unearned income		(304)		(554)		(858)				
Total	\$	14,307	\$	7,621	\$	21,928				
<sup>1</sup> For Retail loans, represents residual value on failed sale leasebacks.										

Cat Financial's finance receivables generally may be repaid or refinanced without penalty prior to contractual maturity.

Please refer to Note 18 for fair value information.

#### C. Allowance for credit losses

#### **Portfolio segments**

A portfolio segment is the level at which Cat Financial develops a systematic methodology for determining its allowance for credit losses. Cat Financial's portfolio segments and related methods for estimating expected credit losses are as follows:

#### Customer

Cat Financial provides loans and finance leases to end-user customers primarily for the purpose of financing new and used Caterpillar machinery, engines and equipment for commercial use, the majority of which operate in construction-related industries. Cat Financial also provides financing for vehicles, power generation facilities and marine vessels that, in most cases, incorporate Caterpillar products. The average original term of Cat Financial's customer finance receivable portfolio was approximately 50 months with an average remaining term of approximately 27 months as of December 31, 2021.

Cat Financial typically maintains a security interest in financed equipment and requires physical damage insurance coverage on the financed equipment, both of which provide Cat Financial with certain rights and protections. If Cat Financial's collection efforts fail to bring a defaulted account current, Cat Financial generally can repossess the financed equipment, after satisfying local legal requirements, and sell it within the Caterpillar dealer network or through third-party auctions.

Cat Financial estimates the allowance for credit losses related to its customer finance receivables based on loss forecast models utilizing probabilities of default and the estimated loss given default based on past loss experience adjusted for current conditions and reasonable and supportable forecasts capturing country and industry-specific economic factors. During the year ended December 31, 2021, Cat Financial's forecasts for the markets in which it operates reflected a general improvement in economic conditions, which had deteriorated due to the COVID-19 pandemic, resulting from a growing economy, improved unemployment rates and a decrease in delinquencies. The company believes the economic forecasts employed represent reasonable and supportable forecasts, followed by a reversion to long-term trends.

#### Dealer

Cat Financial provides financing to Caterpillar dealers in the form of wholesale financing plans. Cat Financial's wholesale financing plans provide assistance to dealers by financing their mostly new Caterpillar equipment inventory and rental fleets on a secured and unsecured basis. In addition, Cat Financial provides a variety of secured and unsecured loans to Caterpillar dealers.

Cat Financial estimates the allowance for credit losses for dealer finance receivables based on historical loss rates with consideration of current economic conditions and reasonable and supportable forecasts.

In general, Cat Financial's Dealer portfolio segment has not historically experienced large increases or decreases in credit losses based on changes in economic conditions due to its close working relationships with the dealers and their financial strength. Therefore, Cat Financial made no adjustments to historical loss rates during the year ended December 31, 2021.

#### **Classes of finance receivables**

Cat Financial further evaluates portfolio segments by the class of finance receivables, which is defined as a level of information (below a portfolio segment) in which the finance receivables have the same initial measurement attribute and a similar method for assessing and monitoring credit risk. Cat Financial's classes, which align with management reporting for credit losses, are as follows:

• North America - Finance receivables originated in the United States and Canada.

- **EAME** Finance receivables originated in Europe, Africa, the Middle East and the Commonwealth of Independent States.
- Asia/Pacific Finance receivables originated in Australia, New Zealand, China, Japan, Southeast Asia and India.
- **Mining** Finance receivables related to large mining customers worldwide.
- Latin America Finance receivables originated in Mexico and Central and South American countries.
- Caterpillar Power Finance Finance receivables originated worldwide related to marine vessels with Caterpillar engines

An analysis of the allowance for credit losses was as follows:

and Caterpillar electrical power generation, gas compression and co-generation systems and non-Caterpillar equipment that is powered by these systems.

Receivable balances, including accrued interest, are written off against the allowance for credit losses when, in the judgment of management, they are considered uncollectible (generally upon repossession of the collateral). Generally, the amount of the writeoff is determined by comparing the fair value of the collateral, less cost to sell, to the amortized cost. Subsequent recoveries, if any, are credited to the allowance for credit losses when received.

(Millions of dollars)	December 31, 2021							
		Customer		ealer	Total			
Allowance for Credit Losses:								
Beginning balance	\$	431	\$	44	\$	475		
Adjustment to adopt new accounting guidance <sup>1</sup>		_		_		—		
Write-offs		(256)		_		(256)		
Recoveries		51		_		51		
Provision for credit losses		30		38		68		
Other		(5)		—		(5)		
Ending Balance	\$	251	\$	82	\$	333		
Finance Receivables	\$	20,135	\$	1,793	\$	21,928		
<sup>1</sup> Adjustment to adopt new accounting guidance related to credit losses.								

(Millions of dollars)		Dec	ember 31, 2020	
	 Customer		Dealer	Total
Allowance for Credit Losses:				
Beginning balance	\$ 375	\$	45	\$ 420
Adjustment to adopt new accounting guidance 1	12		_	12
Write-offs	(263)		_	(263)
Recoveries	41		_	41
Provision for credit losses	262		(1)	261
Other	4		_	4
Ending Balance	\$ 431	\$	44	\$ 475
Finance Receivables	\$ 19,238	\$	2,922	\$ 22,160
<sup>1</sup> Adjustment to adopt new accounting guidance related to credit losses.				

#### **Credit quality of finance receivables**

At origination, Cat Financial evaluates credit risk based on a variety of credit quality factors including prior payment experience, customer financial information, credit ratings, loan-to-value ratios, probabilities of default, industry trends, macroeconomic factors and other internal metrics. On an ongoing basis, Cat Financial monitors credit quality based on past-due status as there is a meaningful correlation between the past-due status of customers and the risk of loss. In determining past-due status, Cat Financial considers the entire finance receivable past due when any installment is over 30 days past due.

#### Customer

The tables below summarize the aging category of Cat Financial's amortized cost of finance receivables in the Customer portfolio segment by origination year:

(Millions of dollars)	December 31, 2021												
	 2021		2020		2019		2018		2017		Prior	Revolving Finance Receivables	Total Finance Receivables
North America													
Current	\$ 4,792	\$	2,596	\$	1,426	\$	630	\$	182	\$	32	\$ 182	\$ 9,840
31-60 days past due	27		32		20		12		4		1	5	101
61-90 days past due	7		8		5		3		1		1	5	30
91+ days past due	9		17		12		13		5		4	5	65
EAME													
Current	1,499		836		577		352		140		26	_	3,430
31-60 days past due	5		4		3		1		1		—	—	14
61-90 days past due	3		3		3		1		—		—	_	10
91+ days past due	3		11		2		2		_		2	—	20
Asia/Pacific													
Current	1,271		803		307		71		16		2	_	2,470
31-60 days past due	10		14		10		2		—		—	—	36
61-90 days past due	3		7		4		1		_		_	—	15
91+ days past due	2		10		10		3		—		—	—	25
Mining													
Current	851		347		307		193		36		161	36	1,931
31-60 days past due	6		_		_		_		_		_		6
61-90 days past due	1		_		_		_		4		_	_	5
91+ days past due	_		1		8		9		3		1	_	22
Latin America													
Current	617		299		160		70		17		18	_	1,181
31-60 days past due	4		7		3		3		1		_	_	18
61-90 days past due	3		3		1		1		_		_	_	8
91+ days past due	4		9		9		7		7		14	_	50
Caterpillar Power Finance													
Current	117		145		97		70		180		104	101	814
31-60 days past due	_		_		_		_		_		_	_	_
61-90 days past due	_		_		_		_		_		_	_	_
91+ days past due	_		_		_		_		_		44	_	44
Total Customer	\$ 9,234	\$	5,152	\$	2,964	\$	1,444	\$	597	\$	410	\$ 334	\$ 20,135

(Millions of dollars)			Γ	)ecei	mber 31, 202	0				
	 2020	 2019	 2018		2017		2016	 Prior	Revolving Finance Receivables	l Finance eivables
North America										
Current	\$ 3,777	\$ 2,423	\$ 1,344	\$	522	\$	212	\$ 27	\$ 89	\$ 8,394
31-60 days past due	52	49	33		16		7	2	-	159
61-90 days past due	22	25	16		9		2	1	—	75
91+ days past due	14	35	31		20		9	4	2	115
EAME										
Current	1,605	931	501		203		60	18	_	3,318
31-60 days past due	5	15	3		2		_	_	—	25
61-90 days past due	1	1	2		1		_	_	—	5
91+ days past due	7	7	12		4		39	43	—	112
<u>Asia/Pacific</u>										
Current	1,375	745	321		61		10	3	—	2,515
31-60 days past due	12	22	13		6		_	_	_	53
61-90 days past due	7	11	7		1		—	—	—	26
91+ days past due	4	10	9		3		_	_	_	26
Mining										
Current	490	571	287		152		92	151	137	1,880
31-60 days past due	5	_	5		1		_	_	_	11
61-90 days past due	_	_	_		_		_	_	_	_
91+ days past due	_	11	8		2		_	_	1	22
Latin America										
Current	561	348	151		48		13	34	_	1,155
31-60 days past due	3	6	4		3		_	_	_	16
61-90 days past due	1	7	6		3		2	_	_	19
91+ days past due	2	14	11		24		5	4	_	60
Caterpillar Power Finance										
Current	217	172	111		273		99	117	119	1,108
31-60 days past due	_	_	6		_		_	_	_	6
61-90 days past due	_	_	_		_		_	9	_	9
91+ days past due	2		20		3		25	79	_	129
Total Customer	\$ 8,162	\$ 5,403	\$ 2,901	\$	1,357	\$	575	\$ 492	\$ 348	\$ 19,238

Finance receivables in the Customer portfolio segment are substantially secured by collateral, primarily in the form of Caterpillar and other equipment. For those contracts where the borrower is experiencing financial difficulty, repayment of the outstanding amounts is generally expected to be provided through the operation or repossession and sale of the equipment.

#### Dealer

As of December 31, 2021, Cat Financial's total amortized cost of finance receivables within the Dealer portfolio segment was current, with the exception of \$78 million that was 91+ days past due in Latin America, all of which was originated in 2017. As of December 31, 2020, Cat Financial's total amortized cost of finance receivables within the Dealer portfolio segment was current, with the exception of \$81 million that was 91+ days past due in Latin America. Of these past due receivables, \$78 million were originated in 2017 and \$3 million were originated prior to 2016.

#### Non-accrual finance receivables

Recognition of income is suspended and the finance receivable is placed on non-accrual status when management determines that collection of future income is not probable. Contracts on non-accrual status are generally more than 120 days past due or have been restructured in a troubled debt restructuring (TDR). Recognition is resumed and previously suspended income is recognized when the collection of remaining amounts is considered probable. Payments received while the finance receivable is on non-accrual status are applied to interest and principal in accordance with the contractual terms. Interest earned but uncollected prior to the receivable being placed on non-accrual status is written off through Provision for credit losses when, in the judgment of management, it is considered uncollectible.

In Cat Financial's Customer portfolio segment, finance receivables which were on non-accrual status and finance receivables over 90 days past due and still accruing income were as follows:

	December 31, 2021								
	Amortized Cost								
(Millions of dollars)	Non-accrual With an Allowance	Non-accrual Without an Allowance	91+ Sti Accrui						
North America	\$ 47	\$ 9	\$	12					
EAME	18	1		2					
Asia/Pacific	19	_		7					
Mining	8	1		14					
Latin America	52	4		1					
Caterpillar Power Finance	40	11		_					
Total	\$ 184	\$ 26	\$	36					

		December 31, 2020	
		Amortized Cost	
(Millions of dollars)	Non-accrual With an Allowance	Non-accrual Without an Allowance	91+ Still Accruing
North America	\$ 86	\$ 1	\$ 34
EAME	113	1	1
Asia/Pacific	13		13
Mining	21	1	_
Latin America	63		1
Caterpillar Power Finance	170	17	_
Total	\$ 466	\$ 20	\$ 49

There was \$12 million, \$12 million and \$28 million of interest income recognized during the years ended December 31, 2021, 2020 and 2019, respectively, for customer finance receivables on non-accrual status.

As of December 31, 2021 and 2020, finance receivables in Cat Financial's Dealer portfolio segment on non-accrual status were \$78 million and \$81 million, respectively, all of which was in Latin America. There were no finance receivables in Cat Financial's Dealer portfolio segment more than 90 days past due and still accruing income as of December 31, 2021 and 2020 and no interest income was recognized on dealer finance receivables on non-accrual status during the years ended December 31, 2021, 2020 and 2019.

#### **Troubled Debt Restructurings**

A restructuring of a finance receivable constitutes a TDR when the lender grants a concession it would not otherwise consider to a borrower experiencing financial difficulties. Concessions granted may include extended contract maturities, inclusion of interest only periods, below market interest rates, payment deferrals and reduction of principal and/or accrued interest. Cat Financial individually evaluates TDR contracts and establishes an allowance based on the present value of expected future cash flows discounted at the receivable's effective interest rate, the fair value of the collateral for collateral-dependent receivables or the observable market price of the receivable. There were no finance receivables modified as TDRs during the years ended December 31, 2021, 2020 and 2019 for the Dealer portfolio segment. Cat Financial's finance receivables in the Customer portfolio segment modified as TDRs for the years ended December 31, were as follows:

	Year	ended De	cember 31, 2021	Year end	led Deo	cember 31, 2020	Year ended December 31, 2019			
(Millions of dollars)	Pre-TDR Amortized Cost		Post-TDR Amortized Cost	Pre-TDF Amortized	-	Post-TDR Amortized Cost	Pre-TDR Amortized Cost	Post-TDR Amortized Cost		
Customer										
North America	\$	6	\$6	\$	13	\$ 13	\$ 11	\$ 11		
EAME		3	3		_	_	17	17		
Asia/Pacific		4	4		12	12	_	—		
Mining		11	5		35	35	8	8		
Latin America		12	12		45	45	5	3		
Caterpillar Power Finance		26	22		115	115	168	165		
Total	\$	62	\$ 52	\$	220	\$ 220	\$ 209	\$ 204		

The Post-TDR amortized costs in the Customer portfolio segment with a payment default (defined as 91+ days past due) which had been modified within twelve months prior to the default date, were as follows:

Millions of dollars	Years ended December 31,									
Customer	202	2021			2019					
North America	\$	1	\$	8	\$	5				
EAME		-		10		_				
Asia/Pacific		6		2		_				
Mining		-		10		_				
Latin America		15		1		_				
Caterpillar Power Finance		7		18		10				
Total	\$	29	\$	49	\$	15				

#### 8. Inventories

Inventories (principally using the LIFO method) are comprised of the following:

	December 31,							
(Millions of dollars)	2021		2020					
Raw materials	\$ 5,52	8 \$	4,021					
Work-in-process	1,31	8	1,052					
Finished goods	6,90	7	6,054					
Supplies	28	5	275					
Total inventories	\$ 14,03	8 \$	11,402					

#### 9. Property, plant and equipment

					31,
(Millions of dollars)	Useful Lives (Years)		2021		2020
Land		\$	648	\$	681
Buildings and land improvements	20-45		7,113		7,091
Machinery, equipment and other	2-10		12,868		13,004
Software	3-7		1,697		1,679
Equipment leased to others	1-7		5,733		6,077
Construction-in-process	—		812		739
Total property, plant and equipment, at cost			28,871		29,271
Less: Accumulated depreciation			(16,781)		(16,870)
Property, plant and equipment-net		\$	12,090	\$	12,401

#### 10. Intangible assets and goodwill

### A. Intangible assets

Intangible assets were comprised of the following:

			Dece	mber 31, 2021		
(Millions of dollars)	Weighted Amortizable Life (Years)	Gross Carrying Amount		Accumulated Amortization		Net
Customer relationships	15	\$ 2,421	\$	(1,709)	\$	712
Intellectual property	12	1,472		(1,192)		280
Other	14	156		(106)		50
Total finite-lived intangible assets	14	\$ 4,049	\$	(3,007)	\$	1,042

			December 31, 2020							
	Weighted Gross Amortizable Carrying Life (Years) Amount		Accumulated Amortization			Net				
Customer relationships	15	\$	2,493	\$	(1,600)	\$	893			
Intellectual property	12		1,439		(1,073)		366			
Other	14		164		(115)		49			
Total finite-lived intangible assets	14	\$	4,096	\$	(2,788)	\$	1,308			

Finite-lived intangible assets are amortized over their estimated useful lives and tested for impairment if events or changes in circumstances indicate that the asset may be impaired.

Amortization expense related to intangible assets was \$302 million, \$311 million and \$324 million for 2021, 2020 and 2019, respectively.

As of December 31, 2021, amortization expense related to intangible assets is expected to be:

(Millions of dollars)										
2022	2023	2024	2025	2026	Thereafter					
\$ 286	\$ 227	\$ 169	\$ 159	\$ 88	\$ 113					

#### B. Goodwill

There were no goodwill impairments during 2021, 2020 or 2019.

The changes in carrying amount of goodwill by reportable segment for the years ended December 31, 2021 and 2020 were as follows:

(Millions of dollars)	D	ecember 31, 2020	Acquisitions	Other Adjustments <sup>1</sup>	December 31, 2021
Construction Industries					
Goodwill	\$	320	\$ 4	\$ (22)	\$ 302
Impairments		(22)	_	_	(22)
Net goodwill		298	4	(22)	280
Resource Industries					
Goodwill		4,253	22	(93)	4,182
Impairments		(1,175)	_	_	(1,175)
Net goodwill		3,078	22	(93)	3,007
Energy & Transportation					
Goodwill		2,959	49	(23)	2,985
All Other <sup>2</sup>					
Goodwill		59	_	(7)	52
Consolidated total					
Goodwill		7,591	75	(145)	7,521
Impairments		(1,197)	_	_	(1,197)
Net goodwill	\$	6,394	\$ 75	\$ (145)	\$ 6,324

	December 31, 2019		Acqu	uisitions	Other Adjustments <sup>1</sup>		December 31, 202	
Construction Industries								
Goodwill	\$	306	\$	_	\$	14	\$	320
Impairments		(22)		_		_		(22)
Net goodwill		284		_		14		298
Resource Industries								
Goodwill		4,156		_		97		4,253
Impairments		(1,175)		_		_		(1,175)
Net goodwill		2,981				97		3,078
Energy & Transportation								
Goodwill		2,875		41		43		2,959
All Other <sup>2</sup>								
Goodwill		56		_		3		59
Consolidated total								
Goodwill		7,393		41		157		7,591
Impairments		(1,197)		_		_		(1,197)
Net goodwill	\$	6,196	\$	41	\$	157	\$	6,394
1 Other adjustments are comprised primarily of foreign currency translation. 2 Includes All Other operation segment (See Note 23)								

2 Includes All Other operating segment (See Note 23).

## 11. Investments in debt and equity securities

We have investments in certain debt and equity securities, primarily at Insurance Services, which we record at fair value and primarily include in Other assets in Statement 3.

We classify debt securities primarily as available-for-sale. We include the unrealized gains and losses arising from the revaluation of available-for-sale debt securities, net of applicable deferred income taxes, in equity (AOCI in Statement 3). We include the unrealized gains and losses arising from the revaluation of the equity securities in Other income (expense) in Statement 1. We generally determine realized gains and losses on sales of investments using the specific identification method for available-for-sale debt and equity securities and include them in Other income (expense) in Statement 1.

The cost basis and fair value of available-for-sale debt securities with unrealized gains and losses included in equity (AOCI in Statement 3) were as follows:

		Dece	ember 31, 2021	l			Dece	mber 31, 2020	
(Millions of dollars) Government debt	 Cost Basis	F	Inrealized Pretax Net ins (Losses)		Fair Value	 Cost Basis	P	nrealized retax Net ns (Losses)	 Fair Value
U.S. treasury bonds	\$ 10	\$	_	\$	10	\$ 10	\$	_	\$ 10
Other U.S. and non-U.S. government bonds	61		_		61	58		1	59
Corporate bonds									
Corporate bonds	1,027		19		1,046	962		50	1,012
Asset-backed securities	175		1		176	156		3	159
Mortgage-backed debt securities									
U.S. governmental agency	319		6		325	362		12	374
Residential	4		_		4	5			5
Commercial	98		1		99	60		4	64
Total debt securities	\$ 1,694	\$	27	\$	1,721	\$ 1,613	\$	70	\$ 1,683

As of December 31, 2021, the total unrealized losses for available-for-sale investments with net losses in AOCI was \$6 million. As of December 31, 2020, there was no available-for-sale investments with net losses in AOCI.

The cost basis and fair value of available-for-sale debt securities at December 31, 2021, by contractual maturity, are shown below. Expected maturities will differ from contractual maturities because borrowers may have the right to prepay and creditors may have the right to call obligations.

	Decer	December 31, 2021					
(Millions of dollars)	Cost Basis		Fair Value				
Due in one year or less	\$ 12	0 \$	121				
Due after one year through five years	75	D	763				
Due after five years through ten years	33	2	337				
Due after ten years	7	1	72				
U.S. governmental agency mortgage-backed securities	31	9	325				
Residential mortgage-backed securities		4	4				
Commercial mortgage-backed securities	9	В	99				
Total debt securities – available-for-sale	\$ 1,69	4 \$	1,721				

#### Sales of available-for-sale debt securities:

	Years Ended December 31,									
(Millions of dollars)	20	21		2020		2019				
Proceeds from the sale of available-for-sale securities	\$	454	\$	290	\$	260				
Gross gains from the sale of available-for-sale securities	\$	4	\$	2	\$	1				
Gross losses from the sale of available-for-sale securities	\$	_	\$	1	\$	1				

In addition, we had \$964 million of investments in time deposits classified as held-to-maturity debt securities as of December 31, 2021. All these investments mature within one year and we include them in Prepaid expenses and other current assets in Statement 3. We did not have any investments classified as held-to-maturity debt securities as of December 31, 2020. We record held-to-maturity debt securities at amortized cost, which approximates fair value. We did not have any unrealized gains or losses on these securities as of December 31, 2021 and 2020.

For the years ended December 31 2021 and 2020, the net unrealized gains (losses) for equity securities held at December 31, 2021 and 2020 were \$105 million and \$47 million, respectively.

#### 12. Postemployment benefit plans

We provide defined benefit pension plans, defined contribution plans and/or other postretirement benefit plans (retirement health care and life insurance) to employees in many of our locations throughout the world. Our defined benefit pension plans provide a benefit based on years of service and/or the employee's average earnings near retirement. Our defined contribution plans allow employees to contribute a portion of their salary to help save for retirement, and in most cases, we provide a matching contribution. The benefit obligation related to our non-U.S. defined benefit pension plans are for employees located primarily in Europe, Japan and Brazil. For other postretirement benefits (OPEB), substantially all of our benefit obligation is for employees located in the United States.

Our U.S. defined benefit pension plans for support and management employees were frozen for certain employees on December 31, 2010 and were frozen for the remaining employees on December 31, 2019. On the respective transition dates employees moved to a retirement benefit that provided a frozen pension benefit and a 401(k) plan that will include a matching contribution and an annual employer contribution.

#### A. Obligations, assets and funded status

	U.S. Pensior	n Benefits	Non-U.S. Pens	ion Benefits	Other Postretiren	nent Benefits
	2021	2020	2021	2020	2021	2020
Weighted-average assumptions used to determine benefit obligation, end of year:						
Discount rate	2.8%	2.4%	1.8%	1.4%	2.7%	2.3%
Rate of compensation increase <sup>1</sup>	%	—%	2.0%	2.0%	4.0%	4.0%
<sup>1</sup> Effective December 31, 2019, all U.S. pension benefits were frozen,	and accordingly this	s assumption is no lo	onger applicable.			

We use the assumed discount rate to discount future benefit obligations back to today's dollars. The U.S. discount rate is based on a benefit cash flow-matching approach and represents the rate at which our benefit obligations could effectively be settled as of our measurement date, December 31. The benefit cash flow-matching approach involves analyzing Caterpillar's projected cash flows against a high quality bond yield curve, calculated using a wide population of corporate Aa bonds available on the measurement date. We use a similar process to determine the assumed discount rate for our most significant non-U.S. plans. This rate is sensitive to changes in interest rates. A decrease in the discount rate would increase our obligation and future expense.

		U.S. Per	nsion Be	nefits	Non-U.S. Pe	ension	Benefits	Other Postreti	remen	t Benefits
(Millions of dollars)		2021		2020	 2021		2020	 2021		2020
Accumulated benefit obligation, end of year	\$	17,895	\$	19,177	\$ 4,311	\$	4,680			
Change in benefit obligation:										
Benefit obligation, beginning of year	\$	19,177	\$	17,773	\$ 4,847	\$	4,666	\$ 4,051	\$	3,960
Service cost <sup>1</sup>		_		_	57		55	100		94
Interest cost		330		483	53		68	64		103
Plan amendments		_		_	_		6	_		(8)
Actuarial losses (gains) <sup>2</sup>		(610)		1,922	(142)		258	(211)		192
Foreign currency exchange rates		_		—	(154)		213	(15)		(25)
Participant contributions		_		_	4		4	48		44
Benefits paid - gross		(996)		(997)	(184)		(159)	(310)		(317)
Less: federal subsidy on benefits paid		_		_	_		_	9		8
Curtailments, settlements and termination benefits		(6)		(4)	(45)		(264)	_		_
Benefit obligation, end of year	\$	17,895	\$	19,177	\$ 4,436	\$	4,847	\$ 3,736	\$	4,051
Change in plan assets:										
Fair value of plan assets, beginning of year	\$	17,589	\$	15,994	\$ 4,731	\$	4,525	\$ 147	\$	255
Actual return on plan assets		595		2,552	99		385	34		23
Foreign currency exchange rates		—		—	(139)		164	—		—
Company contributions		45		44	84		76	211		142
Participant contributions		_		_	4		4	48		44
Benefits paid		(996)		(997)	(184)		(159)	(310)		(317)
Settlements and termination benefits		(6)		(4)	(43)		(264)	 _		_
Fair value of plan assets, end of year	\$	17,227	\$	17,589	\$ 4,552	\$	4,731	\$ 130	\$	147
Over (under) funded status	\$	(668)	\$	(1,588)	\$ 116	\$	(116)	\$ (3,606)	\$	(3,904)
Components of net amount recognized in financial position:	_									
Other assets (non-current asset)	\$	592	\$	409	\$ 538	\$	556	\$ -	\$	_
Accrued wages, salaries and employee benefits (current liability)		(45)		(44)	(16)		(25)	(240)		(186)
Liability for postemployment benefits (non-current liability) <sup>3</sup>		(1,215)		(1,953)	(406)		(647)	(3,366)		(3,718)
Net (liability) asset recognized	\$	(668)	\$	(1,588)	\$ 116	\$	(116)	\$ (3,606)	\$	(3,904)
Amounts recognized in Accumulated other comprehensive income (pre-tax) consist of:										
Prior service cost (credit)	\$	_	\$	_	\$ 23	\$	24	\$ (5)	\$	(46)

<sup>1</sup> Effective December 31, 2019, all U.S. pension benefits were frozen, and accordingly there is no longer any service cost.

<sup>2</sup> For 2021, Actuarial loss (gain) impacting the benefit obligation was primarily due to higher discount rates at the end of 2021 compared to the end of 2020. For 2020, Actuarial loss (gain) impacting the benefit obligation was primarily due to lower discount rates at the end of 2020 compared to the end of 2019.

<sup>3</sup> The Liability for postemployment benefits reported in Statement 3 includes our liability for other postemployment benefits and our liability for non-qualified deferred compensation plans. For 2021, these liabilities were \$67 million and \$538 million, respectively. For 2020, these liabilities were \$63 million and \$491 million, respectively.

	U.S. Pensior			enefits	Non-U.S. Pe	ension	Benefits
(Millions of dollars)		2021		2020	2021		2020
Pension plans with projected benefit obligation in excess of plan assets:							
Projected benefit obligation	\$	14,403	\$	15,300	\$ 743	\$	2,171
Fair value of plan assets	\$	13,143	\$	13,302	\$ 319	\$	1,499
Pension plans with accumulated benefit obligation in excess of plan assets:							
Accumulated benefit obligation	\$	14,403	\$	15,300	\$ 603	\$	1,988
Fair value of plan assets	\$	13,143	\$	13,302	\$ 234	\$	1,425

The accumulated postretirement benefit obligation exceeds plan assets for all of our other postretirement benefit plans for all years presented.

#### B. Net periodic benefit cost

		U.S	S. Pe	ension Be	nefit	s	Non-l	J.S.	Pension B	lene	fits		Other F	ostr	etirement	Ben	efits
(Millions of dollars)		2021	_	2020		2019	2021		2020		2019	_	2021		2020		2019
Components of net periodic benefit cost:																	
Service cost <sup>1</sup>	\$	—	\$	_	\$	115	\$ 57	\$	55	\$	80	\$	100	\$	94	\$	80
Interest cost		330		483		600	53		68		94		64		103		136
Expected return on plan assets		(718)		(791)		(721)	(128)		(135)		(148)		(6)		(12)		(18)
Curtailments, settlements and termination benefits		_		(1)		(1)	(1)		30		(7)		_		_		_
Amortization of prior service cost (credit)		_		_		_	_		_		_		(40)		(38)		(40)
Actuarial loss (gain) <sup>2</sup>	(	487)		162		72	<b>(115</b> )		32		90		<b>(231</b> )		189		306
Net Periodic benefit cost (benefit) <sup>3</sup>	\$	(875)	\$	(147)	\$	65	\$ (134)	\$	50	\$	109	\$	(113)	\$	336	\$	464
Other changes in plan assets and benefit obligations recognized in other comprehensive income (pre-tax):																	
Current year prior service cost (credit)	\$	_	\$	_	\$	_	\$ _	\$	8	\$	(4)	\$	_	\$	(7)	\$	8
Amortization of prior service (cost) credit		_		_		_	_		_		_		40		38		40
Total recognized in other comprehensive income		_		_		_	_		8		(4)		40		31		48
Total recognized in net periodic cost and other comprehensive income		(875)	\$	(147)	\$	65	\$ <b>(134</b> )	\$	58	\$	105	\$	(73)	\$	367	\$	512
Weighted-average assumptions used to determine net periodic benefit cost:																	
Discount rate used to measure service cost <sup>1</sup>		%		—%		4.3%	1.4%		1.5%		2.5%		2.5%		3.2%		4.19
Discount rate used to measure interest cost		1.8%		2.8%		3.9%	1.2%		1.7%		2.3%		1.6%		2.8%		3.99
Expected rate of return on plan assets <sup>4</sup>		4.2%		5.1%		5.9%	2.9%		3.3%		3.8%		6.5%		7.0%		7.29
Rate of compensation increase <sup>1</sup>		-%		%		4.0%	2.0%		2.0%		3.0%		4.0%		4.0%		4.1%

<sup>1</sup> Effective December 31, 2019, all U.S. pension benefits were frozen, and accordingly there is no longer any service cost and certain assumptions are no longer applicable.

<sup>2</sup> Actuarial loss (gain) represents the effects of actual results differing from our assumptions and the effects of changing assumptions. We recognize actuarial loss (gain) immediately through earnings upon the annual remeasurement in the fourth quarter, or on an interim basis as triggering events warrant remeasurement.

<sup>3</sup> The service cost component is included in Operating costs and all other components are included in Other income (expense) in Statement 1.

<sup>4</sup> The weighted-average rates for 2022 are 4.0 percent and 3.1 percent for U.S. and non-U.S. pension plans, respectively.

The discount rates used in the determination of our service and interest cost components utilize a full yield curve approach which applies specific spot rates along the yield curve used in the calculation of the benefit obligation to the relevant projected cash flows.

Our U.S. expected long-term rate of return on plan assets is based on our estimate of long-term passive returns for equities and fixed income securities weighted by the allocation of our pension assets. Based on historical performance, we increase the passive returns due to our active management of the plan assets. To arrive at our expected long-term return, the amount added for active management was 0.35 percent for 2021, and 0.40 percent for 2020 and 2019. We use a similar process to determine this rate for our non-U.S. plans.

The assumed health care trend rate represents the rate at which health care costs are assumed to increase. We assumed a weighted-average increase of 5.8 percent in our calculation of 2021 benefit expense. We expect a weighted-average increase of 5.6 percent during 2022. The 2022 rates are assumed to decrease gradually to the ultimate health care trend rate of 5 percent in 2025. This rate represents 3 percent general inflation plus 2 percent additional health care inflation.

#### C. Expected contributions and benefit payments

The following table presents information about expected contributions and benefit payments for pension and other postretirement benefit plans:

(Millions of dollars)	2	2022							
Expected employer contributions:									
U.S. Pension Benefits	\$	46							
Non-U.S. Pension Benefits	\$	55							
Other Postretirement Benefits	\$	256							
Expected benefit payments:	2	2022	 2023	 2024	 2025	 2026	2	027-2031	 Total
U.S. Pension Benefits	\$	1,035	\$ 1,020	\$ 1,020	\$ 1,020	\$ 1,020	\$	4,960	\$ 10,075
Non-U.S. Pension Benefits	\$	210	\$ 175	\$ 180	\$ 185	\$ 195	\$	1,045	\$ 1,990
Other Postretirement Benefits	\$	275	\$ 270	\$ 265	\$ 260	\$ 260	\$	1,250	\$ 2,580
Expected Medicare Part D subsidy:	\$	7	\$ 7	\$ 7	\$ 7	\$ 6	\$	26	\$ 60

The above table reflects the total expected employer contributions and expected benefits to be paid from the plan or from company assets and does not include the participants' share of the cost. The expected benefit payments for our other postretirement benefits include payments for prescription drug benefits. The above table also includes Medicare Part D subsidy amounts expected to be received by the company which will offset other postretirement benefit payments.

#### D. Plan assets

In general, our strategy for both the U.S. and non-U.S. pensions includes ongoing alignment of our investments to our liabilities, while reducing risk in our portfolio. The current U.S. pension target asset allocation is 85 percent fixed income and 15 percent equities. We will revise this target allocation periodically to ensure it reflects our overall objectives. The non-U.S. pension weighted-average target allocations are 82 percent fixed income, 10 percent equities, 5 percent real estate and 3 percent other. The target allocations for each plan vary based upon local statutory requirements, demographics of plan participants and funded status. We primarily invest the non-U.S. plan assets in non-U.S. securities.

Our target allocation for the other postretirement benefit plans is 70 percent equities and 30 percent fixed income.

We rebalance the U.S. plans to within the appropriate target asset allocation ranges on a monthly basis. The frequency of rebalancing for the non-U.S. plans varies depending on the plan. As a result of our diversification strategies, there are no significant concentrations of risk within the portfolio of investments.

We permit the use of certain derivative instruments where appropriate and necessary for achieving overall investment policy objectives. The plans do not use derivative contracts for speculative purposes.

The accounting guidance on fair value measurements specifies a fair value hierarchy based upon the observability of inputs used in valuation techniques (Level 1, 2 and 3). Certain assets that are measured at fair value using the net asset value per share (or its equivalent) practical expedient have not been classified in the fair value hierarchy. See Note 18 for a discussion of the fair value hierarchy.

We determine fair values as follows:

- Equity securities are primarily based on valuations for identical instruments in active markets.
- Fixed income securities are primarily based upon models that take into consideration such market-based factors as recent sales, risk-free yield curves and prices of similarly rated bonds.
- Real estate is stated at the fund's net asset value or at appraised value.
- Cash, short-term instruments and other are based on the carrying amount, which approximates fair value, or the fund's net asset value.

The fair value of the pension and other postretirement benefit plan assets by category is summarized below:

			D	)ecember 31, 202	21			
(Millions of dollars) U.S. Pension	 Level 1	 Level 2		Level 3		Measured at NAV	-	fotal Assets at Fair Value
Equity securities:								
U.S. equities	\$ 1,644	\$ 25	\$	23	\$	149	\$	1,841
Non-U.S. equities	1,398	_		2		_		1,400
Fixed income securities:								
U.S. corporate bonds	_	7,289		40		37		7,366
Non-U.S. corporate bonds	_	1,569		_		_		1,569
U.S. government bonds	_	4,341		-		_		4,341
U.S. governmental agency mortgage-backed securities	_	24		_		_		24
Non-U.S. government bonds	_	172		_		_		172
Real estate	_	_		7		_		7
Cash, short-term instruments and other	228	60		_		219		507
Total U.S. pension assets	\$ 3,270	\$ 13,480	\$	72	\$	405	\$	17,227

				D	ecember 31, 202	20			
(Millions of dollars) U.S. Pension	_	Level 1	 Level 2		Level 3	Measu NA		1	fotal Assets at Fair Value
Equity securities:									
U.S. equities	\$	2,292	\$ 5	\$	28	\$	133	\$	2,458
Non-U.S. equities		1,838	_		1		—		1,839
Fixed income securities:									
U.S. corporate bonds		_	7,395		53		119		7,567
Non-U.S. corporate bonds		_	1,372		_		_		1,372
U.S. government bonds		_	3,618		_		_		3,618
U.S. governmental agency mortgage-backed securities		_	27		_		_		27
Non-U.S. government bonds		_	133		_		_		133
Real estate		_	_		9		_		9
Cash, short-term instruments and other		363	22		_		181		566
Total U.S. pension assets	\$	4,493	\$ 12,572	\$	91	\$	433	\$	17,589

				December 3	<b>31, 202</b>	21		
(Millions of dollars) Non-U.S. Pension		Level 1	 Level 2	Level 3		Measured at NAV	T	otal Assets at Fair Value
Equity securities:								
U.S. equities	\$	72	\$ _	\$	—	\$ —	\$	72
Non-U.S. equities		266	32		—	37		335
Global equities <sup>1</sup>		31	15		—	46		92
Fixed income securities:								
U.S. corporate bonds		_	327		—	_		327
Non-U.S. corporate bonds		_	889		—	_		889
U.S. government bonds		_	152		—	_		152
Non-U.S. government bonds		_	1,752		—	_		1,752
Global fixed income <sup>1</sup>		_	88		—	297		385
Real estate		_	225		—	_		225
Cash, short-term instruments and other <sup>2</sup>		56	267		—	_		323
Total non-U.S. pension assets	\$	425	\$ 3,747	\$	—	\$ 380	\$	4,552

					De	ecember 31, 202	20	
(Millions of dollars)		Level 1		Level 2		Level 3	Measured at NAV	Total Assets at Fair Value
Non-U.S. Pension								
Equity securities:								
U.S. equities	\$	97	\$	_	\$	_	\$ —	\$ 97
Non-U.S. equities		368		33		_	50	451
Global equities <sup>1</sup>		29		17		_	49	95
Fixed income securities:								
U.S. corporate bonds		_		314		_	_	314
Non-U.S. corporate bonds		_		987		_	_	987
U.S. government bonds		_		2		_	_	2
Non-U.S. government bonds		_		1,743		_	_	1,743
Global fixed income <sup>1</sup>		_		131		_	325	456
Real estate		_		239		_	_	239
Cash, short-term instruments and other <sup>2</sup>		71		276		_	_	347
Total non-U.S. pension assets	\$	565	\$	3,742	\$	_	\$ 424	\$ 4,731
1 Includes funds that invest in both U.S. and non-U.S. securities	_		_		_			

Includes funds that invest in both U.S. and non-U.S. securities.
 Includes funds that invest in multiple asset classes, bodge funds and c

 $^{\rm 2}$   $\,$   $\,$  Includes funds that invest in multiple asset classes, hedge funds and other.

				D	ecember 31, 202	1		
(Millions of dollars)	Le	vel 1	 Level 2		Level 3	Measured at NAV	Т	otal Assets at Fair Value
Other Postretirement Benefits								
Equity securities:								
U.S. equities	\$	49	\$ —	\$	—	\$ —	\$	49
Non-U.S. equities		17	_		_	_		17
Cash, short-term instruments and other		_	2		_	62		64
Total other postretirement benefit assets	\$	66	\$ 2	\$	_	\$ 62	\$	130

				D	ecember 31, 202	0		
(Millions of dollars) Other Postretirement Benefits	_	Level 1	 Level 2		Level 3	Measured at NAV	1	Fotal Assets at Fair Value
Equity securities:								
U.S. equities	\$	88	\$ _	\$	_	\$ —	\$	88
Non-U.S. equities		21	_		_	_		21
Fixed income securities:								
U.S. corporate bonds		_	11		_	1		12
Non-U.S. corporate bonds		_	2		_	_		2
U.S. government bonds		_	3		_	_		3
U.S. governmental agency mortgage-backed securities		_	6		_	_		6
Non-U.S. government bonds		_	3		_	_		3
Cash, short-term instruments and other			2		_	10		12
Total other postretirement benefit assets	\$	109	\$ 27	\$		\$ 11	\$	147

The activity attributable to U.S. pension assets measured at fair value using Level 3 inputs for the years ended December 31, 2021 and 2020 was insignificant. We valued these instruments using pricing models that, in management's judgment, reflect the assumptions a market participant would use.

#### E. Defined contribution plans

We have both U.S. and non-U.S. employee defined contribution plans to help employees save for retirement. Our primary U.S. 401(k) plan allows eligible employees to contribute a portion of their cash compensation to the plan on a tax-deferred basis. Employees with frozen defined benefit pension accruals are eligible for matching contributions equal to 100 percent of employee contributions to the plan up to 6 percent of cash compensation and an annual employer contribution that ranges from 3 to 5 percent of cash compensation (depending on years of service and age). Employees that were still accruing benefits under a defined benefit pension plan up to December 31, 2019 were eligible for matching contributions equal to 50 percent of employee contributions up to 6 percent of cash compensation. All our U.S. defined benefit pension plans were frozen on December 31, 2019 for remaining employees still accruing a benefit. Starting in 2020, these employees receive matching contributions equal to 100 percent of employee contributions to the plan up to 6 percent of cash compensation and an annual employer contribution that ranges from 3 to 5 percent of cash compensation and an annual employees.

These 401(k) plans include various investment funds, including a non-leveraged employee stock ownership plan (ESOP). As of December 31, 2021 and 2020, the ESOP held 12.4 million and 13.2 million shares, respectively. We allocate all of the shares held by the ESOP to participant accounts. Dividends paid to participants are automatically reinvested into company shares unless the participant elects to have all or a portion of the dividend paid to the participant. Various other U.S. and non-U.S. defined contribution plans generally allow eligible employees to contribute a portion of their cash compensation to the plans, and in most cases, we provide a matching contribution to the funds.

Total company costs related to U.S. and non-U.S. defined contribution plans were as follows:

(Millions of dollars)	2	2021	2020	2019
U.S. plans	\$	440	\$ 384	\$ 414
Non-U.S. plans		114	89	83
	\$	554	\$ 473	\$ 497

#### 13. Short-term borrowings

	Dec	December 31,							
(Millions of dollars)	2021		2020						
Machinery, Energy & Transportation:									
Notes payable to banks	\$	9\$	10						
		9	10						
Financial Products:									
Notes payable to banks	21	3	307						
Commercial paper	4,89	6	1,321						
Demand notes	28	6	377						
	5,39	5	2,005						
Total short-term borrowings	\$ 5,40	4 \$	2,015						

The weighted-average interest rates on short-term borrowings outstanding were:

	Decembe	r 31,	
	2021	2020	
Notes payable to banks	4.4%	3.7%	
Commercial paper	0.1%	0.1%	
Demand notes	0.2%	0.3%	

Please refer to Note 18 for fair value information on short-term borrowings.

			Decem	ber 31,	
(Millions of dollars)	Effective Yield to Maturity <sup>1</sup>	2021			2020
Machinery, Energy & Transportation:					
Notes—\$759 million of 5.200% due 2041 <sup>2</sup>	5.27%	\$	752	\$	752
Debentures—\$500 million of 2.600% due 2022 <sup>2</sup>	2.70%		_		499
Debentures—\$82 million of 8.000% due 2023	8.06%		82		82
Debentures—\$1,000 million of 3.400% due 2024	3.46%		999		998
Debentures—\$193 million of 6.625% due 2028 <sup>2</sup>	6.68%		192		192
Debentures—\$500 million of 2.600% due 2029 <sup>2</sup>	2.67%		498		497
Debentures—\$800 million of 2.600% due 2030 <sup>2</sup>	2.72%		793		793
Debentures—\$500 million of 1.900% due 2031 <sup>2</sup>	2.04%		495		_
Debentures—\$242 million of 7.300% due 2031 <sup>2</sup>	7.38%		240		240
Debentures—\$307 million of 5.300% due 2035 <sup>2</sup>	8.64%		226		223
Debentures—\$460 million of 6.050% due 2036 <sup>2</sup>	6.12%		456		456
Debentures—\$65 million of 8.250% due 2038 <sup>2</sup>	8.38%		64		64
Debentures—\$160 million of 6.950% due 2042 <sup>2</sup>	7.02%		158		158
Debentures—\$1,722 million of 3.803% due 2042 <sup>2</sup>	6.39%		1,316		1,296
Debentures—\$500 million of 4.300% due 2044	4.39%		493		493
Debentures—\$1,000 million of 3.250% due 2049 <sup>2</sup>	3.34%		983		983
Debentures—\$1,200 million of 3.250% due 2050 <sup>2</sup>	3.32%		1,185		1,185
Debentures—\$500 million of 4.750% due 2064	4.81%		494		494
Debentures—\$246 million of 7.375% due 2097 <sup>2</sup>	7.51%		241		241
Finance lease obligations & other			79		103
Total Machinery, Energy & Transportation			9,746		9,749
Financial Products:					
Medium-term notes			16,127		16,012
Other			160		238
Total Financial Products			16,287		16,250
Total long-term debt due after one year		\$	26,033	\$	25,999
1 Effective yield to maturity includes the impact of discounts, promiums and dobt issuence costs					-

Effective yield to maturity includes the impact of discounts, premiums and debt issuance costs.

<sup>2</sup> Redeemable at our option in whole or in part at any time at a redemption price equal to the greater of (i) 100% of the principal amount or (ii) the discounted present value of the notes or debentures, calculated in accordance with the terms of such notes or debentures.

All outstanding notes and debentures are unsecured and rank equally with one another.

On April 9, 2020, we issued \$1.2 billion of 3.250% Senior Notes due 2050 and \$800 million of 2.600% Senior Notes due 2030. On March 12, 2021 we issued \$500 million of 1.900% Senior Notes due 2031.

Cat Financial's medium-term notes are offered by prospectus and are issued through agents at fixed and floating rates. Medium-term notes due after one year have a weighted average interest rate of 1.5% with remaining maturities up to 6 years at December 31, 2021.

The aggregate amounts of maturities of long-term debt during each of the years 2022 through 2026, including amounts due within one year and classified as current, are:

	December 31,										
(Millions of dollars)		2022		2023		2024		2025		2026	
Machinery, Energy & Transportation	\$	45	\$	103	\$	1,013	\$	10	\$	6	
Financial Products		6,307		5,221		7,129		1,629		1,555	
	\$	6,352	\$	5,324	\$	8,142	\$	1,639	\$	1,561	

The above table includes \$5 million of medium-term notes that can be called at par.

Medium-term notes of \$1.35 billion maturing in the first quarter of 2022 were excluded from the current maturities of long-term debt in Statement 3 as of December 31, 2021 due to a \$2.0 billion issuance of medium-term notes on January 10, 2022 of which \$1.5 billion mature in 2024 and \$500 million mature in 2027. The preceding maturity table reflects the reclassification of \$1.35 billion from maturities in 2022 to 2024.

Interest paid on short-term and long-term borrowings for 2021, 2020 and 2019 was \$920 million, \$1,089 million and \$1,057 million, respectively.

Please refer to Note 18 for fair value information on long-term debt.

		December 31, 2021	
(Millions of dollars) Credit lines available:	Consolidated	Machinery, Energy & Transportation	Financial Products
Global credit facilities	\$ 10,500	\$ 2,750	\$ 7,750
Other external	3,251	184	3,067
Total credit lines available	13,751	2,934	10,817
Less: Commercial paper outstanding	(4,896)	_	(4,896)
Less: Utilized credit	(568)	(9)	(559)
Available credit	\$ 8,287	\$ 2,925	\$ 5,362

We have three global credit facilities with a syndicate of banks totaling \$10.50 billion (Credit Facility) available in the aggregate to both Caterpillar and Cat Financial for general liquidity purposes. Based on management's allocation decision, which can be revised from time to time, the portion of the Credit Facility available to ME&T as of December 31, 2021 was \$2.75 billion. Information on our Credit Facility is as follows:

- The 364-day facility of \$3.15 billion (of which \$825 million is available to ME&T) expires on September 1, 2022.
- The three-year facility, as amended and restated in September 2021, of \$2.73 billion (of which \$715 million is available to ME&T) expires in September 2024.
- The five-year facility, as amended and restated in September 2021, of \$4.62 billion (of which \$1.21 billion is available to ME&T) expires in September 2026.

Other consolidated credit lines with banks as of December 31, 2021 totaled \$3.25 billion. These committed and uncommitted credit lines, which may be eligible for renewal at various future dates or have no specified expiration date, are used primarily by our subsidiaries for local funding requirements. Caterpillar or Cat Financial may guarantee subsidiary borrowings under these lines.

At December 31, 2021, Caterpillar's consolidated net worth was \$16.58 billion, which was above the \$9.00 billion required under the Credit Facility. The consolidated net worth is defined as the consolidated shareholders' equity including preferred stock but excluding the pension and other postretirement benefits balance within AOCI.

At December 31, 2021, Cat Financial's covenant interest coverage ratio was 2.51 to 1. This is above the 1.15 to 1 minimum ratio, calculated as (1) profit excluding income taxes, interest expense and net gain/(loss) from interest rate derivatives to (2) interest expense calculated at the end of each calendar quarter for the rolling four quarter period then most recently ended, required by the Credit Facility.

In addition, at December 31, 2021, Cat Financial's six-month covenant leverage ratio was 7.25 to 1 and year-end covenant leverage ratio was 7.91 to 1. This is below the maximum ratio of debt to net worth of 10 to 1, calculated (1) on a monthly basis as the average of the leverage ratios determined on the last day of each of the six preceding calendar months and (2) at each December 31, required by the Credit Facility.

In the event Caterpillar or Cat Financial does not meet one or more of their respective financial covenants under the Credit Facility in the future (and are unable to obtain a consent or waiver), the syndicate of banks may terminate the commitments allocated to the party that does not meet its covenants. Additionally, in such event, certain of Cat Financial's other lenders under other loan agreements where similar financial covenants or cross default provisions are applicable may, at their election, choose to pursue remedies under those loan agreements, including accelerating the repayment of outstanding borrowings. At December 31, 2021, there were no borrowings under the Credit Facility.

#### 16. Profit per share

Computations of profit per share:			
(Dollars in millions except per share data)	2021	2020	2019
Profit for the period (A) <sup>1</sup>	\$ 6,489	\$ 2,998	\$ 6,093
Determination of shares (in millions):			
Weighted average number of common shares outstanding (B)	544.0	544.1	561.6
Shares issuable on exercise of stock awards, net of shares assumed to be purchased out of proceeds at average market price	4.5	4.5	5.9
Average common shares outstanding for fully diluted computation (C) <sup>2</sup>	548.5	548.6	567.5
Profit per share of common stock:			
Assuming no dilution (A/B)	\$ 11.93	\$ 5.51	\$ 10.85
Assuming full dilution (A/C) <sup>2</sup>	\$ 11.83	\$ 5.46	\$ 10.74
Shares outstanding as of December 31 (in millions)	535.9	545.3	550.1
<sup>1</sup> Profit attributable to common shareholders.			
<sup>2</sup> Diluted by assumed exercise of stock-based compensation awards using the treasury stock method.			

For the year ended December 31, 2021, 2020 and 2019, we excluded 1.1 million, 4.6 million and 3.0 million outstanding stock options, respectively, from the computation of diluted earnings per share because the effect would have been antidilutive.

In July 2018, the Board approved a share repurchase authorization (the 2018 Authorization) of up to \$10.0 billion of Caterpillar common stock effective January 1, 2019, with no expiration. As of

December 31, 2021, approximately \$2.1 billion remained available under the 2018 Authorization.

During 2021, 2020 and 2019, we repurchased 13.0 million, 10.1 million and 30.6 million shares of Caterpillar common stock, respectively, at an aggregate cost of \$2.7 billion, \$1.3 billion and \$4.0 billion respectively. We made these purchases through a combination of accelerated stock repurchase agreements with third-party financial institutions and open market transactions.

#### 17. Accumulated other comprehensive income (loss)

We present comprehensive income and its components in Statement 2. Changes in the balances for each component of Accumulated other comprehensive income (loss) were as follows:

(Millions of dollars)		2021		2020		2019
Foreign currency translation:	¢	(910)	¢	(1 407)	¢	(1 601)
Beginning balance Adjustments to adopt new accounting guidance related to reclassification of certain tax	\$	(910)	φ	(1,487)	φ	(1,601)
effects from AOCI		_				98
Balance at January 1		(910)		(1,487)		(1,503)
Gains (losses) on foreign currency translation		(559)		513		21
Less: Tax provision /(benefit)		41		(42)		5
Net gains (losses) on foreign currency translation		(600)		555		16
(Gains) losses reclassified to earnings		2		22		
Less: Tax provision /(benefit)		_		_		_
Net (gains) losses reclassified to earnings		2		22		_
Other comprehensive income (loss), net of tax		(598)		577		16
Ending balance	\$	(1,508)	\$	(910)	\$	(1,487)
Pension and other postretirement benefits						
Beginning balance	\$	(32)	\$	(3)	\$	12
Adjustments to adopt new accounting guidance related to reclassification of certain tax effects from AOCI	Ψ	(32)	Ψ	(3)	Ψ	19
Balance at January 1		(32)	_	(3)		31
Current year prior service credit (cost)		(32)		(1)		(4)
Less: Tax provision /(benefit)		_		(1)		(+)
Net current year prior service credit (cost)		_		(1)		(4)
Amortization of prior service (credit) cost		(40)		(38)		(40)
Less: Tax provision /(benefit)		(10)		(10)		(10)
Net amortization of prior service (credit) cost		(30)	_	(28)		(30)
Other comprehensive income (loss), net of tax		(30)		(29)		(34)
Ending balance	\$	(62)	\$	(32)	\$	(3)
Derivative financial instruments						
Beginning balance	\$	_	\$	(97)	\$	(80)
Adjustments to adopt new accounting guidance related to reclassification of certain tax	Ŧ		Ŧ	(0.)	Ŧ	(00)
effects from AOCI		_		_		(9)
Balance at January 1		_		(97)		(89)
Gains (losses) deferred		195		(116)		57
Less: Tax provision /(benefit)		21		(25)		14
Net gains (losses) deferred		174		(91)		43
(Gains) losses reclassified to earnings		(196)		241		(66)
Less: Tax provision /(benefit)		(19)		53		(15)
Net (gains) losses reclassified to earnings		(177)		188		(51)
Other comprehensive income (loss), net of tax		(3)		97		(8)
Ending balance	\$	(3)	\$	_	\$	(97)
Available-for-sale securities						
Beginning balance	\$	54	\$	20	\$	(15)
Adjustments to adopt recognition and measurement of financial assets and liabilities guidance		_		_		_
Balance at January 1		54		20		(15)
Gains (losses) deferred		(39)		45		45
Less: Tax provision /(benefit)		(8)		10		10
Net gains (losses) deferred		(31)		35		35
(Gains) losses reclassified to earnings		(4)		(1)		_
Less: Tax provision /(benefit)		(1)		_		_
Net (gains) losses reclassified to earnings		(3)	_	(1)	_	
Other comprehensive income (loss), net of tax		(34)		34		35
Ending balance	\$	20	\$	54	\$	20
Total AOCI Ending Balance at December 31	\$	(1,553)	\$	(888)	\$	(1,567)

#### 18. Fair value disclosures

#### A. Fair value measurements

The guidance on fair value measurements defines fair value as the exchange price that would be received for an asset or paid to transfer a liability (an exit price) in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants. This guidance also specifies a fair value hierarchy based upon the observability of inputs used in valuation techniques. Observable inputs (highest level) reflect market data obtained from independent sources, while unobservable inputs (lowest level) reflect internally developed market assumptions. In accordance with this guidance, fair value measurements are classified under the following hierarchy:

- Level 1 Quoted prices for identical instruments in active markets.
- Level 2 Quoted prices for similar instruments in active markets; quoted prices for identical or similar instruments in markets that are not active; and model-derived valuations in which all significant inputs or significant value-drivers are observable in active markets.
- Level 3 Model-derived valuations in which one or more significant inputs or significant value-drivers are unobservable.

When available, we use quoted market prices to determine fair value, and we classify such measurements within Level 1. In some cases where market prices are not available, we make use of observable market based inputs to calculate fair value, in which case the measurements are classified within Level 2. If quoted or observable market prices are not available, fair value is based upon valuations in which one or more significant inputs are unobservable, including internally developed models that use, where possible, current market-based parameters such as interest rates, yield curves and currency rates. These measurements are classified within Level 3.

We classify fair value measurements according to the lowest level input or value-driver that is significant to the valuation. We may therefore classify a measurement within Level 3 even though there may be significant inputs that are readily observable.

Fair value measurement includes the consideration of nonperformance risk. Nonperformance risk refers to the risk that an obligation (either by a counterparty or Caterpillar) will not be fulfilled. For financial assets traded in an active market, the nonperformance risk is included in the market price. For certain other financial assets and liabilities, our fair value calculations have been adjusted accordingly.

#### Investments in debt and equity securities

We have investments in certain debt and equity securities, primarily at Insurance Services, that are recorded at fair value. Fair values for our U.S. treasury bonds and large capitalization value and smaller company growth equity securities are based upon valuations for identical instruments in active markets. Fair values for other government bonds, corporate bonds and mortgage-backed debt securities are based upon models that take into consideration such market-based factors as recent sales, risk-free yield curves and prices of similarly rated bonds.

We also have investments in time deposits classified as held-tomaturity debt securities. The fair value of these investments is based upon valuations observed in less active markets than Level 1. These investments have a maturity of less than one year and are recorded at amortized costs, which approximate fair value.

In addition, Insurance Services has an equity investment in a real estate investment trust (REIT) which is recorded at fair value based on the net asset value (NAV) of the investment and is not classified within the fair value hierarchy.

See Note 11 for additional information on our investments in debt and equity securities.

#### Derivative financial instruments

The fair value of interest rate contracts is primarily based on a standard industry accepted valuation model that utilizes the appropriate market-based forward swap curves and zero-coupon interest rates to determine discounted cash flows. The fair value of foreign currency and commodity forward, option and cross currency contracts is based on standard industry accepted valuation models that discount cash flows resulting from the differential between the contract price and the market-based forward rate.

See Note 4 for additional information.

Assets and liabilities measured on a recurring basis at fair value, primarily related to Financial Products, included in Statement 3 as of December 31, 2021 and 2020 were as follows:

				0	)ecember 31, 2	021		
(Millions of dollars)	s of dollars) Level		 Level 2		Level 3	1	Measured at NAV	otal Assets/ Liabilities, at Fair Value
Assets								
Debt securities								
Government debt								
U.S. treasury bonds	\$	10	\$ _	\$	—	\$	_	\$ 10
Other U.S. and non-U.S. government bonds		-	61		—		_	61
Corporate bonds								
Corporate bonds		—	1,046		—		—	1,046
Asset-backed securities		_	176		_		_	176
Mortgage-backed debt securities								
U.S. governmental agency		_	325		—		—	325
Residential		_	4		—		_	4
Commercial		_	99		_		_	99
Total debt securities		10	1,711		_		_	1,721
Equity securities								
Large capitalization value		217	_		_		_	217
Smaller company growth		98	_		_		_	98
REIT		_	_		_		167	167
Total equity securities		315	_		_		167	482
Derivative financial instruments - assets								
Foreign currency contracts - net		_	168		_		_	168
Interest rate contracts - net		_	23		_		_	23
Commodity contracts - net		_	21		_		_	21
Total Assets	\$	325	\$ 1,923	\$	_	\$	167	\$ 2,415

				December 31, 2020									
(Millions of dollars)		evel 1		Level 2		Level 3	Measured at NAV		Total Assets/ Liabilities, at Fair Value				
Assets													
Debt securities													
Government debt													
U.S. treasury bonds	\$	10	\$		\$	— \$		\$	10				
Other U.S. and non-U.S. government bonds		—		59		—	_		59				
Corporate bonds													
Corporate bonds		_		1,012		—	_		1,012				
Asset-backed securities		—		159		—	_		159				
Mortgage-backed debt securities													
U.S. governmental agency		—		374		—	—		374				
Residential		_		5		_			5				
Commercial		—		64		—	_		64				
Total debt securities		10		1,673		_	_		1,683				
Equity securities													
Large capitalization value		199				_			199				
Smaller company growth		58		_		_	_		58				
REIT		_				_	148		148				
Total equity securities		257				_	148		405				
Derivative financial instruments - assets													
Interest rate contracts - net		_		58		_			58				
Commodity contracts - net		_		37		_	_		37				
Total Assets	\$	267	\$	1,768	\$	— \$	148	\$	2,183				
Liabilities			_										
Derivative financial instruments - liabilities													
Foreign currency contracts - net	\$	_	\$	112	\$	— \$	_	\$	112				
Total Liabilities	\$		\$	112	\$			\$	112				

In addition to the amounts above, certain Cat Financial loans are subject to measurement at fair value on a nonrecurring basis and are classified as Level 3 measurements. A loan is measured at fair value when management determines that collection of contractual amounts due is not probable and the loan is individually evaluated. In these cases, an allowance for credit losses may be established based either on the present value of expected future cash flows discounted at the receivables' effective interest rate, the fair value of the collateral for collateral-dependent receivables, or the observable market price of the receivable. In determining collateral value, Cat Financial estimates the current fair market value of the collateral less selling costs. Cat Financial had loans carried at fair value of \$100 million and \$243 million as of December 31, 2021 and 2020, respectively.

#### B. Fair values of financial instruments

In addition to the methods and assumptions we use to record the fair value of financial instruments as discussed in the Fair value measurements section above, we used the following methods and assumptions to estimate the fair value of our financial instruments:

#### Cash and cash equivalents

Carrying amount approximates fair value. We classify cash and cash equivalents as Level 1. See Statement 3.

#### Restricted cash and short-term investments

Carrying amount approximates fair value. We include restricted cash and short-term investments in Prepaid expenses and other current assets in Statement 3. We classify these instruments as

Our financial instruments not carried at fair value were as follows:

Level 1 except for time deposits which are Level 2. See Note 11 for additional information.

#### Finance receivables

We estimate fair value by discounting the future cash flows using current rates, representative of receivables with similar remaining maturities.

#### Wholesale inventory receivables

We estimate fair value by discounting the future cash flows using current rates, representative of receivables with similar remaining maturities.

#### Short-term borrowings

Carrying amount approximates fair value. We classify short-term borrowings as Level 1. See Note 13 for additional information.

#### Long-term debt

We estimate fair value for fixed and floating rate debt based on quoted market prices.

#### <u>Guarantees</u>

The fair value of guarantees is based upon our estimate of the premium a market participant would require to issue the same guarantee in a stand-alone arms-length transaction with an unrelated party. If quoted or observable market prices are not available, fair value is based upon internally developed models that utilize current market-based assumptions. We classify guarantees as Level 3. See Note 21 for additional information.

		20			20	)20				
(Millions of dollars)		Carrying Amount Fair Value		Carrying Amount Fair Value		air Value	Fair Value Levels	Reference		
Assets at December 31,									-	
Finance receivables-net (excluding finance leases) <sup>1</sup>	\$	13,837	\$	13,836	\$	14,028	\$	14,357	3	Notes 7 & 19
Wholesale inventory receivables-net (excluding finance leases) <sup>1</sup>		773		753		929		911	3	Notes 7 & 19
Liabilities at December 31,										
Long-term debt (including amounts due within one year):										
Machinery, Energy & Transportation		9,791		12,420		11,169		14,549	2	Note 14
Financial Products		22,594		22,797		23,979		24,614	2	Note 14
Represents finance leases and failed sale leasebacks of \$8,083 mill	ion an	d \$7,961 mil	lion a	at December	31, 2	021 and 202	D, res	pectively.		

#### 19. Concentration of credit risk

Financial instruments with potential credit risk consist primarily of trade and finance receivables and short-term and long-term investments. Additionally, to a lesser extent, we have a potential credit risk associated with counterparties to derivative contracts.

Trade receivables are primarily short-term receivables from independently owned and operated dealers and customers which arise in the normal course of business. We perform regular credit evaluations of our dealers and customers. Collateral generally is not required, and the majority of our trade receivables are unsecured. We do, however, when deemed necessary, make use of various devices such as security agreements and letters of credit to protect our interests. No single dealer or customer represents a significant concentration of credit risk.

Finance receivables and wholesale inventory receivables primarily represent receivables under installment sales contracts, receivables

arising from leasing transactions and notes receivable. We typically maintain a security interest in retail financed equipment and, in some instances, wholesale financed equipment. We also typically require physical damage insurance coverage on financed equipment. No single customer or dealer represented a significant concentration of credit risk.

Short-term and long-term investments are held with high quality institutions and, by policy, the amount of credit exposure to any one institution is limited. Long-term investments, primarily included in Other assets in Statement 3, are comprised primarily of available-for-sale debt securities and equity securities at Insurance Services.

For derivative contracts, collateral is generally not required of the counterparties or of our company. The company generally enters into International Swaps and Derivatives Association (ISDA) master netting agreements within ME&T and Financial Products that permit the net settlement of amounts owed under their respective derivative contracts. Our exposure to credit loss in the event of

nonperformance by the counterparties is limited to only those gains that we have recorded, but for which we have not yet received cash payment. The master netting agreements reduce the amount of loss the company would incur should the counterparties fail to meet their obligations. At December 31, 2021 and 2020, the maximum exposure to credit loss was \$342 million and \$281 million, respectively, before the application of any master netting agreements.

Please refer to Note 18 above for fair value information.

#### 20. Leases

#### A. Lessee arrangements

We lease certain property, information technology equipment, warehouse equipment, vehicles and other equipment through operating leases. We recognize a lease liability and corresponding right-of-use asset based on the present value of lease payments. To determine the present value of lease payments for most of our leases, we use our incremental borrowing rate based on information available on the lease commencement date. For certain property and information technology equipment leases, we have elected to separate payments for lease components from nonlease components. For all other leases, we have elected not to separate payments for lease and non-lease components. Our lease agreements may include options to extend or terminate the lease. When it is reasonably certain that we will exercise that option, we have included the option in the recognition of right-of-use assets and lease liabilities. We have elected not to recognize right-of-use assets or lease liabilities for leases with a term of twelve months or less.

Our finance leases are not significant and therefore are not included in the following disclosures.

The components of lease costs were as follows:

	Year Ended December 31,							
(Millions of dollars)		2021	20	20				
Operating lease cost	\$	214	\$	204				
Short-term lease cost	\$	46	\$	50				

We recognize operating lease right-of-use assets in Other assets in Statement 3. We recognize the operating lease liabilities in Other current liabilities and Other liabilities.

Supplemental information related to leases was as follows:

(Millions of dollars)	De	ecember 31, 2021	De	ecember 31, 2020
Operating Leases				
Other assets	\$	625	\$	603
Other current liabilities	\$	158	\$	163
Other liabilities	\$	484	\$	457
Weighted average remaining lease term				
Operating leases		7 years		7 years
Weighted average discount rates				
Operating leases		2%		2%

Maturities of operating lease liabilities were as follows:

(Millions of dollars)	Decemb	oer 31, 2021
Amounts Due In		
2022	\$	165
2023		126
2024		94
2025		69
2026		51
Thereafter		190
Total lease payments		695
Less: Imputed interest		(53)
Total	\$	642

Supplemental cash flow information related to leases was as follows:

(Millions of dollars)	Year ended December 31			
	2021	2020		
Cash paid for amounts included in the measurement of lease liabilities				
Operating cash flows from operating leases	\$ 206	\$	201	
Right-of-use assets obtained in exchange for lease obligations:				
Operating leases	\$ 238	\$	178	

#### B. Lessor arrangements

We lease Caterpillar machinery, engines and other equipment to customers and dealers around the world, primarily through Cat Financial. Cat Financial leases to customers primarily through salestype (non-tax) leases, where the lessee for tax purposes is considered to be the owner of the equipment during the term of the lease. Cat Financial also offers tax leases that are classified as either operating or direct finance leases for financial accounting purposes, depending on the characteristics of the lease. For tax purposes, Cat Financial is considered the owner of the equipment. Our lease agreements may include options for the lesse to purchase the underlying asset at the end of the lease term for either a stated fixed price or fair market value.

We determine the residual value of Cat Financial's leased equipment based on its estimated end-of-term market value. We estimate the residual value of leased equipment at the inception of the lease based on a number of factors, including historical wholesale market sales prices, past remarketing experience and any known significant market/product trends. We also consider the following critical factors in our residual value estimates: lease term, market size and demand, total expected hours of usage, machine configuration, application, location, model changes, quantities, third-party residual guarantees and contractual customer purchase options.

During the term of our leases, we monitor residual values. For operating leases, we record adjustments to depreciation expense reflecting changes in residual value estimates prospectively on a straight-line basis. For finance leases, we recognize residual value adjustments through a reduction of finance revenue over the remaining lease term.

See Note 7 for contractual maturities of finance lease receivables (sales-type and direct finance leases).

The carrying amount of equipment leased to others, included in Property, plant and equipment - net in Statement 3, under operating leases was as follows:

	December 31,				
(Millions of dollars)	 2021		2020		
Equipment leased to others - at original cost	\$ 5,733	\$	6,077		
Less: Accumulated depreciation	(1,870)		(2,035)		
Equipment leased to others - net	\$ 3,863	\$	4,042		

Payments due for operating leases as of December 31, 2021, were as follows:

(Millions of dollars)						
2022	2023	2024	2025	2026	Thereafter	Total
\$ 761	\$ 478	\$ 272	\$ 145	\$ 56	\$ 28	\$ 1,740

Revenues from finance and operating leases, primarily included in Revenues of Financial Products on Statement 1, were as follows:

	Year ende	Year ended December 31					
(Millions of dollars)	2021		2020				
Finance lease revenue	\$ 48	\$	492				
Operating lease revenue	1,12		1,124				
Total	\$ 1,61	\$	1,616				

We present revenues net of sales and other related taxes.

#### 21. Guarantees and product warranty

#### Caterpillar dealer performance guarantees

We have provided an indemnity to a third-party insurance company for potential losses related to performance bonds issued on behalf of Caterpillar dealers. The bonds have varying terms and are issued to insure governmental agencies against nonperformance by certain dealers. We also provided guarantees to third-parties related to the performance of contractual obligations by certain Caterpillar dealers. These guarantees have varying terms and cover potential financial losses incurred by the third parties resulting from the dealers' nonperformance.

In 2016, we provided a guarantee to an end user related to the performance of contractual obligations by a Caterpillar dealer. Under the guarantee, which expires in 2025, non-performance by the Caterpillar dealer could require Caterpillar to satisfy the contractual obligations by providing goods, services or financial compensation to the end user up to an annual designated cap.

#### Supplier consortium performance guarantee

We have provided a guarantee to a customer in Europe related to the performance of contractual obligations by a supplier consortium to which one of our Caterpillar subsidiaries is a member. The guarantee covers potential damages incurred by the customer resulting from the supplier consortium's non-performance. The damages are capped except for failure of the consortium to meet certain obligations outlined in the contract in the normal course of business. The guarantee will expire when the supplier consortium performs all of its contractual obligations, which is expected to be completed in 2022.

We have dealer performance guarantees and third-party performance guarantees that do not limit potential payment to end users related to indemnities and other commercial contractual obligations. In addition, we have entered into contracts involving industry standard indemnifications that do not limit potential payment. For these unlimited guarantees, we are unable to estimate a maximum potential amount of future payments that could result from claims made.

No significant loss has been experienced or is anticipated under any of these guarantees. At both December 31, 2021 and 2020, the related recorded liability was \$5 million. The maximum potential amount of future payments (undiscounted and without reduction for any amounts that may possibly be recovered under recourse or collateralized provisions) we could be required to make under the guarantees at December 31 was as follows:

2021		2020	
\$	747	\$	993
	242		258
	232		234
\$	1,221	\$	1,485
	\$	\$ 747 242 232	\$         747         \$           242         232

Cat Financial provides guarantees to purchase certain loans of Caterpillar dealers from a special-purpose corporation (SPC) that gualifies as a variable interest entity. The purpose of the SPC is to provide short-term working capital loans to Caterpillar dealers. This SPC issues commercial paper and uses the proceeds to fund its loan program. Cat Financial receives a fee for providing this guarantee. Cat Financial is the primary beneficiary of the SPC as its guarantees result in Cat Financial having both the power to direct the activities that most significantly impact the SPC's economic performance and the obligation to absorb losses, and therefore Cat Financial has consolidated the financial statements of the SPC. As of December 31, 2021 and 2020, the SPC's assets of \$888 million and \$1,026 million, respectively, were primarily comprised of loans to dealers, and the SPC's liabilities of \$888 million and \$1,025 million, respectively, were primarily comprised of commercial paper. The assets of the SPC are not available to pay Cat Financial's creditors. Cat Financial may be obligated to perform under the guarantee if the SPC experiences losses. No loss has been experienced or is anticipated under this loan purchase agreement.

Cat Financial has commitments to extend credit to customers and Caterpillar dealers through lines of credit and other pre-approved

credit arrangements. Cat Financial applies the same credit policies and approval process for these commitments to extend credit as we do for other financing. Collateral is not required for these commitments, but if credit is extended, collateral may be required upon funding. The amount of unused commitments to extend credit to Caterpillar dealers was \$10.71 billion at December 31, 2021. Cat Financial generally has the right to unconditionally cancel, alter, or amend the terms of these dealer commitments at any time. The amount of unused commitments to extend credit to customers was \$641 million at December 31, 2021. A significant portion of these commitments is not expected to be fully drawn upon; therefore, the total commitment amounts do not represent a future cash requirement.

We determine our product warranty liability by applying historical claim rate experience to the current field population and dealer inventory. Generally, we base historical claim rates on actual warranty experience for each product by machine model/engine size by customer or dealer location (inside or outside North America). We develop specific rates for each product shipment month and update them monthly based on actual warranty claim experience.

The reconciliation of the change in our product warranty liability balances for the years ended December 31 was as follows:

(Millions of dollars)	2021		2020
Warranty liability, beginning of period	\$ 1,612	\$	1,541
Reduction in liability (payments)	(854	)	(897)
Increase in liability (new warranties)	931		968
Warranty liability, end of period	\$ 1,689	\$	1,612

#### 22. Environmental and legal matters

The Company is regulated by federal, state and international environmental laws governing its use, transport and disposal of substances and control of emissions. In addition to governing our manufacturing and other operations, these laws often impact the development of our products, including, but not limited to, required compliance with air emissions standards applicable to internal combustion engines. We have made, and will continue to make, significant research and development and capital expenditures to comply with these emissions standards.

We are engaged in remedial activities at a number of locations, often with other companies, pursuant to federal and state laws. When it is probable we will pay remedial costs at a site, and those costs can be reasonably estimated, we accrue the investigation, remediation, and operating and maintenance costs against our earnings. We accrue costs based on consideration of currently available data and information with respect to each individual site, including available technologies, current applicable laws and regulations, and prior remediation experience. Where no amount within a range of estimates is more likely, we accrue the minimum. Where multiple potentially responsible parties are involved, we consider our proportionate share of the probable costs. In formulating the estimate of probable costs, we do not consider amounts expected to be recovered from insurance companies or others. We reassess these accrued amounts on a guarterly basis. The amount recorded for environmental remediation is not material and is included in Accrued expenses. We believe there is no more than a remote chance that a material amount for remedial activities at any individual site, or at all the sites in the aggregate, will be required.

On January 27, 2020, the Brazilian Federal Environmental Agency ("IBAMA") issued Caterpillar Brasil Ltda a notice of violation regarding allegations around the requirements for use of imported oils at the Piracicaba, Brazil facility. We have instituted processes to address the allegations. While we are still discussing resolution of these allegations with IBAMA, the initial notice from IBAMA included a proposed fine of approximately \$300,000. We do not expect this fine or our response to address the allegations to have a material adverse effect on the Company's consolidated results of operations, financial position or liquidity.

On January 7, 2015, the Company received a grand jury subpoena from the U.S. District Court for the Central District of Illinois. The subpoena requested documents and information from the Company relating to, among other things, financial information concerning U.S. and non-U.S. Caterpillar subsidiaries (including undistributed profits of non-U.S. subsidiaries and the movement of cash among U.S. and non-U.S. subsidiaries). The Company has received additional subpoenas relating to this investigation requesting additional documents and information relating to, among other things, the purchase and resale of replacement parts by Caterpillar Inc. and non-U.S. Caterpillar subsidiaries, dividend distributions of certain non-U.S. Caterpillar subsidiaries, and Caterpillar SARL (CSARL) and related structures. On March 2-3, 2017, agents with the Department of Commerce, the Federal Deposit Insurance Corporation and the Internal Revenue Service executed search and seizure warrants at three facilities of the Company in the Peoria, Illinois area, including its former corporate headquarters. The warrants identify, and agents seized, documents and information related to, among other things, the export of products from the United States, the movement of products between the United States and Switzerland, the relationship between Caterpillar Inc. and CSARL, and sales outside the United States. It is the Company's understanding that the warrants, which concern both tax and export activities, are related to the ongoing grand jury investigation. The Company is continuing to cooperate with this investigation. The Company is unable to predict the outcome or reasonably estimate any potential

loss; however, we currently believe that this matter will not have a material adverse effect on the Company's consolidated results of operations, financial position or liquidity.

In addition, we are involved in other unresolved legal actions that arise in the normal course of business. The most prevalent of these unresolved actions involve disputes related to product design, manufacture and performance liability (including claimed asbestos exposure), contracts, employment issues, environmental matters, intellectual property rights, taxes (other than income taxes) and securities laws. The aggregate range of reasonably possible losses in excess of accrued liabilities, if any, associated with these unresolved legal actions is not material. In some cases, we cannot reasonably estimate a range of loss because there is insufficient information regarding the matter. However, we believe there is no more than a remote chance that any liability arising from these matters would be material. Although it is not possible to predict with certainty the outcome of these unresolved legal actions, we believe that these actions will not individually or in the aggregate have a material adverse effect on our consolidated results of operations, financial position or liquidity.

#### 23. Segment information

#### A. Basis for segment information

Our Executive Office is comprised of a Chief Executive Officer (CEO), four Group Presidents, a Chief Financial Officer (CFO), a Chief Legal Officer and General Counsel and a Chief Human Resources Officer. The Group Presidents and CFO are accountable for a related set of end-to-end businesses that they manage. The Chief Legal Officer and General Counsel leads the Law, Security and Public Policy Division. The Chief Human Resources Officer leads the Human Resources Organization. The CEO allocates resources and manages performance at the Group President/CFO level. As such, the CEO serves as our Chief Operating Decision Maker, and operating segments are primarily based on the Group President/CFO reporting structure.

Three of our operating segments, Construction Industries, Resource Industries and Energy & Transportation are led by Group Presidents. One operating segment, Financial Products, is led by the CFO who also has responsibility for Corporate Services. Corporate Services is a cost center primarily responsible for the performance of certain support functions globally and to provide centralized services; it does not meet the definition of an operating segment. One Group President leads one smaller operating segment that is included in the All Other operating segment. The Law, Security and Public Policy Division and the Human Resources Organization are cost centers and do not meet the definition of an operating segment.

#### B. Description of segments

We have five operating segments, of which four are reportable segments. Following is a brief description of our reportable segments and the business activities included in the All Other operating segment:

**Construction Industries:** A segment primarily responsible for supporting customers using machinery in infrastructure and building construction applications. Responsibilities include business strategy, product design, product management and development, manufacturing, marketing and sales and product support. The product portfolio includes asphalt pavers; backhoe loaders; compactors; cold planers; compact track and multi-terrain loaders; mini, small, medium and large track excavators; motor graders; pipelayers; road reclaimers; skid steer loaders; telehandlers; small and medium track-type tractors; track-type loaders; utility vehicles; wheel excavators; compact, small and medium wheel loaders; and related parts and work tools. Inter-segment sales are a source of revenue for this segment. **Resource Industries:** A segment primarily responsible for supporting customers using machinery in mining, heavy construction and quarry and aggregates. Responsibilities include business strategy, product design, product management and development, manufacturing, marketing and sales and product support. The product portfolio includes large track-type tractors; large mining trucks; hard rock vehicles; longwall miners; electric rope shovels; draglines; hydraulic shovels; rotary drills; large wheel loaders; offhighway trucks; articulated trucks; wheel tractor scrapers; wheel dozers; landfill compactors; soil compactors; select work tools; machinery components; electronics and control systems and related parts. In addition to equipment, Resource Industries also develops and sells technology products and services to provide customers fleet management, equipment management analytics, autonomous machine capabilities, safety services and mining performance solutions. Resource Industries also manages areas that provide services to other parts of the company, including integrated manufacturing, research and development for drivetrains, hydraulic systems, electronics and software for Cat machines and engines. Inter-segment sales are a source of revenue for this segment.

Energy & Transportation: A segment primarily responsible for supporting customers using reciprocating engines, turbines, diesel-electric locomotives and related services across industries serving Oil and Gas, Power Generation, Industrial and Transportation applications, including marine- and rail-related businesses. Responsibilities include business strategy, product design, product management and development, manufacturing, marketing and sales and product support. The product and services portfolio includes turbines, centrifugal gas compressors, and turbinerelated services; reciprocating engine-powered generator sets; integrated systems used in the electric power generation industry; reciprocating engines and integrated systems and solutions for the marine and oil and gas industries; reciprocating engines supplied to the industrial industry as well as Cat machinery; and diesel-electric locomotives and components and other rail-related products and services, including remanufacturing and leasing. Responsibilities also include the remanufacturing of Caterpillar reciprocating engines and components and remanufacturing services for other companies; and product support of on-highway vocational trucks for North America. Inter-segment sales are a source of revenue for this segment.

Financial Products Segment: Provides financing alternatives to customers and dealers around the world for Caterpillar products, as well as financing for vehicles, power generation facilities and marine vessels that, in most cases, incorporate Caterpillar products. Financing plans include operating and finance leases, installment sale contracts, repair/rebuild financing, working capital loans and wholesale financing plans. The segment also provides insurance and risk management products and services that help customers and dealers manage their business risk. Insurance and risk management products offered include physical damage insurance, inventory protection plans, extended service coverage and maintenance plans for machines and engines, and dealer property and casualty insurance. The various forms of financing, insurance and risk management products offered to customers and dealers help support the purchase and lease of Caterpillar equipment. The segment also earns revenues from ME&T, but the related costs are not allocated to operating segments. Financial Products' segment profit is determined on a pretax basis and includes other income/ expense items.

**All Other operating segment:** Primarily includes activities such as: business strategy; product management and development; manufacturing and sourcing of filters and fluids, undercarriage, ground-engaging tools, fluid transfer products, precision seals, rubber sealing and connecting components primarily for Caterpillar products; parts distribution; integrated logistics solutions; distribution services responsible for dealer development and administration, including one wholly owned dealer in Japan; dealer portfolio management and ensuring the most efficient and effective distribution of machines, engines and parts; brand management and marketing strategy; and digital investments for new customer and dealer solutions that integrate data analytics with state-of-theart digital technologies while transforming the buying experience. Results for the All Other operating segment are included as a reconciling item between reportable segments and consolidated external reporting.

#### C. Segment measurement and reconciliations

There are several methodology differences between our segment reporting and our external reporting. The following is a list of the more significant methodology differences:

- ME&T segment net assets generally include inventories, receivables, property, plant and equipment, goodwill, intangibles, accounts payable and customer advances. We generally manage at the corporate level liabilities other than accounts payable and customer advances, and we do not include these in segment operations. Financial Products Segment assets generally include all categories of assets.
- We value segment inventories and cost of sales using a current cost methodology.
- We amortize goodwill allocated to segments using a fixed amount based on a 20-year useful life. This methodology difference only impacts segment assets. We do not include goodwill amortization expense in segment profit. In addition, we have allocated to segments only a portion of goodwill for certain acquisitions made in 2011 or later.
- We generally manage currency exposures for ME&T at the corporate level and do not include in segment profit the effects of changes in exchange rates on results of operations within the year. We report the net difference created in the translation of revenues and costs between exchange rates used for U.S. GAAP reporting and exchange rates used for segment reporting as a methodology difference.
- We do not include stock-based compensation expense in segment profit.
- Postretirement benefit expenses are split; segments are generally responsible for service costs, with the remaining elements of net periodic benefit cost included as a methodology difference.
- We determine ME&T segment profit on a pretax basis and exclude interest expense and most other income/expense items. We determine Financial Products Segment profit on a pretax basis and include other income/expense items.

Reconciling items are created based on accounting differences between segment reporting and our consolidated external reporting. Please refer to pages 93 to 95 for financial information regarding significant reconciling items. Most of our reconciling items are selfexplanatory given the above explanations. For the reconciliation of profit, we have grouped the reconciling items as follows:

- **Corporate costs:** These costs are related to corporate requirements primarily for compliance and legal functions for the benefit of the entire organization.
- Restructuring costs: May include costs for employee separation, long-lived asset impairments and contract terminations. These costs are included in Other operating (income) expenses except for defined-benefit plan curtailment losses and special termination benefits, which are included in Other income (expense). Restructuring costs also include other exit-related costs, which may consist of accelerated depreciation, inventory write-downs, building demolition, equipment relocation and project management costs and LIFO inventory decrement

benefits from inventory liquidations at closed facilities, all of which are primarily included in Cost of goods sold. Only certain restructuring costs in 2020 and 2019 were excluded from segment profit. See Note 25 for more information.

- **Methodology differences:** See previous discussion of significant accounting differences between segment reporting and consolidated external reporting.
- **Timing:** Timing differences in the recognition of costs between segment reporting and consolidated external reporting. For example, we report certain costs on the cash basis for segment reporting and the accrual basis for consolidated external reporting.

For the years ended December 31, 2021, 2020 and 2019, sales and revenues by geographic region reconciled to consolidated sales and revenues were as follows:

Sales and Revenues by Geographic	Regi	on										
(Millions of dollars)	ļ	North America	А	Latin Merica	EAME	Asia/ Pacific	S	External Sales and Revenues	S	ersegment ales and evenues	-	Fotal Sales and Revenues
<u>2021</u>					 	 		······································				
Construction Industries	\$	9,676	\$	1,913	\$ 4,858	\$ 5,547	\$	21,994	\$	112	\$	22,106
Resource Industries		2,987		1,724	1,987	2,804	\$	9,502		461		9,963
Energy & Transportation		7,611		1,233	4,908	2,918	\$	16,670		3,617		20,287
Financial Products Segment		1,935		265	402	471	\$	<b>3,073</b> <sup>1</sup>		_		3,073
Total sales and revenues from reportable segments		22,209		5,135	12,155	11,740		51,239		4,190		55,429
All Other operating segment		56		2	18	69		145		366		511
Corporate Items and Eliminations		(242)		(51)	(36)	(84)		(413)		(4,556)		(4,969)
Total Sales and Revenues	\$	22,023	\$	5,086	\$ 12,137	\$ 11,725	\$	50,971	\$	_	\$	50,971
2020												
Construction Industries	\$	7,365	\$	1,031	\$ 3,466	\$ 5,014	\$	16,876	\$	42	\$	16,918
Resource Industries		2,286		1,253	1,570	2,337		7,446		460		7,906
Energy & Transportation		6,843		932	4,448	2,441		14,664		2,806		17,470
Financial Products Segment		1,930		257	392	465		3,044 <sup>1</sup>		—		3,044
Total sales and revenues from reportable segments		18,424		3,473	9,876	10,257		42,030		3,308		45,338
All Other operating segment		27		4	26	56		113		354		467
Corporate Items and Eliminations		(237)		(45)	(44)	(69)		(395)		(3,662)		(4,057)
Total Sales and Revenues	\$	18,214	\$	3,432	\$ 9,858	\$ 10,244	\$	41,748	\$		\$	41,748
<u>2019</u>												
Construction Industries	\$	11,455	\$	1,533	\$ 4,012	\$ 5,556	\$	22,556	\$	93	\$	22,649
Resource Industries		3,632		1,533	1,836	2,812		9,813		463		10,276
Energy & Transportation		8,864		1,389	4,994	3,238		18,485		3,612		22,097
Financial Products Segment		2,235		299	408	492		3,434 <sup>1</sup>		—		3,434
Total sales and revenues from reportable segments		26,186		4,754	11,250	12,098		54,288		4,168		58,456
All Other operating segment		25		7	28	67		127		373		500
Corporate Items and Eliminations		(426)		(51)	 (55)	 (83)		(615)		(4,541)		(5,156)
Total Sales and Revenues	\$	25,785	\$	4,710	\$ 11,223	\$ 12,082	\$	53,800	\$		\$	53,800

Includes revenues from Construction Industries, Resource Industries, Energy & Transportation and All Other operating segment of \$351 million , \$362 million and \$524 million in the years ended December 31, 2021, 2020 and 2019, respectively.

For the years ended December 31, 2021, 2020 and 2019, Energy & Transportation segment sales by end user application were as follows:

Energy & Transportation External Sales					
(Millions of dollars)	2021		2020		2019
Oil and gas	\$ 4,460	\$	3,701	\$	5,205
Power generation	4,292		3,963		4,474
Industrial	3,612		2,945		3,749
Transportation	 4,306		4,055		5,057
Energy & Transportation External Sales	\$ 16,670	\$	14,664	\$	18,485

#### Reconciliation of Consolidated profit before taxes:

(Millions of dollars)	2021	2020	2019
Profit from reportable segments:			
Construction Industries	\$ 3,706	\$ 2,373	\$ 3,931
Resource Industries	1,291	896	1,629
Energy & Transportation	2,768	2,405	3,910
Financial Products Segment	908	590	832
Total profit from reportable segments	8,673	6,264	10,302
Profit from All Other operating segment	(14)	28	4
Cost centers	(4)	(4)	(6)
Corporate costs	(699)	(517)	(607)
Timing	(263)	(106)	(93)
Restructuring costs	(90)	(241)	(207)
Methodology differences:			
Inventory/cost of sales	122	4	(19)
Postretirement benefit income (expense)	1,171	(173)	(401)
Stock-based compensation expense	(199)	(202)	(205)
Financing costs	(449)	(444)	(248)
Currency	258	(266)	(175)
Other income/expense methodology differences	(267)	(322)	(481)
Other methodology differences	(35)	(26)	(52)
Total consolidated profit before taxes	\$ 8,204	\$ 3,995	\$ 7,812

## **Reconciliation of Assets:**

(Millions of dollars)		Decen	nber 31,		
		2021			
Assets from reportable segments:					
Construction Industries	\$	4,547	\$	4,259	
Resource Industries		5,962		6,035	
Energy & Transportation		9,253		8,582	
Financial Products Segment		34,860		34,278	
Total assets from reportable segments		54,622		53,154	
Assets from All Other operating segment		1,678		1,717	
Items not included in segment assets:					
Cash and cash equivalents		8,428		8,822	
Deferred income taxes		1,735		1,413	
Goodwill and intangible assets		4,859		4,847	
Property, plant and equipment – net and other assets		4,056		2,833	
Inventory methodology differences		(2,656)		(2,536)	
Liabilities included in segment assets		10,777		8,466	
Other		(706)		(392)	
Total assets	\$	82,793	\$	78,324	

Reconciliation of Depreciation and amortization:				
(Millions of dollars)	2021	2020	2019	
Depreciation and amortization from reportable segments:				
Construction Industries	\$ 237	\$ 245	\$	302
Resource Industries	403	418		450
Energy & Transportation	571	593		624
Financial Products Segment	772	773		829
Total depreciation and amortization from reportable segments	1,983	2,029		2,205
Items not included in segment depreciation and amortization:				
All Other operating segment	243	267		210
Cost centers	98	126		135
Other	28	10		27
Total depreciation and amortization	\$ 2,352	\$ 2,432	\$	2,577

#### **Reconciliation of Capital expenditures:**

(Millions of dollars)	2021		2020	2019	
Capital expenditures from reportable segments:					
Construction Industries	\$	255	\$ 213	\$ 201	
Resource Industries		199	125	168	
Energy & Transportation		627	495	613	
Financial Products Segment		1,218	1,100	1,534	
Total capital expenditures from reportable segments		2,299	1,933	2,516	
Items not included in segment capital expenditures:					
All Other operating segment		182	156	131	
Cost centers		56	47	101	
Timing		(74)	19	(11	
Other		9	(40)	(68	
Total capital expenditures	\$	2,472	\$ 2,115	\$ 2,669	

#### **Enterprise-wide Disclosures:**

#### Information about Geographic Areas:

							Property, plant and equipment - net		iipment - net	
		External sales and revenues <sup>1</sup>			December 31,			1,		
(Millions of dollars)		2021		2020		2019		2021		2020
Inside United States	\$	19,298	\$	16,269	\$	22,806	\$	7,035	\$	7,242
Outside United States		31,673		25,479		30,994		5,055		5,159
Total	\$	50,971	\$	41,748	\$	53,800	\$	12,090	\$	12,401
<sup>1</sup> Sales of ME&T are based on dealer or customer location. F	Revenues fro	om services prov	ided ar	e based on whei	re serv	ice is rendered.				

#### 24. Acquisitions

#### SPM Oil & Gas

On February 1, 2021, Caterpillar completed the acquisition of varying equity interests and assets of the Weir Group PLC, collectively known as SPM Oil & Gas (SPM). Headquartered near Fort Worth, Texas, SPM Oil & Gas produces a full line of pumps, flow iron, consumable parts, wellhead and pressure control products that are offered via an extensive global network of service centers. This acquisition, included in the Energy & Transportation segment, is consistent with our strategy of providing our customers expanded offerings and services which will now be one of the broadest in the well service industry. The purchase price, net of \$22 million of acquired cash, was approximately \$359 million.

We financed the transaction with available cash. Tangible assets as of the acquisition date were \$520 million, recorded at their fair values, and primarily included cash of \$22 million, receivables of \$106 million, inventories of \$159 million, leased assets of \$105 million, and property, plant, and equipment of \$117 million. Finite-lived intangible assets acquired of \$23 million included developed technology and trade names and will be amortized on a straight-line basis over a weighted-average amortization period of approximately 8 years. Liabilities assumed as of the acquisition date were \$192 million, recorded at their fair values, and primarily included lease liabilities of \$105 million and accounts payable of \$33 million. Goodwill of \$30 million represented the excess of the consideration transferred over the net assets acquired. Assuming this transaction had been made at the beginning of any period presented, the consolidated pro forma results would not be materially different from reported results.

#### 25. Restructuring costs

Our accounting for employee separations is dependent upon how the particular program is designed. For voluntary programs, we recognize eligible separation costs at the time of employee acceptance unless the acceptance requires explicit approval by the company. For involuntary programs, we recognize eligible costs when management has approved the program, the affected employees have been properly notified and the costs are estimable.

Restructuring costs for 2021, 2020 and 2019 were as follows:

(Millions of dollars)		2021	203	20	2019
Employee separations <sup>1</sup>	\$	<u>92</u>	\$	271	\$ 48
Contract terminations <sup>1</sup>		2		2	1
Long-lived asset impairments <sup>1</sup>		(63)		38	65
Other <sup>2</sup>		59		43	122
Total restructuring costs	\$	<u> </u>	\$	354	\$ 236
1 Pagagnized in Other operating (income) expanses	-				

<sup>1</sup> Recognized in Other operating (income) expenses.

Represents costs related to our restructuring programs, primarily for accelerated depreciation, inventory write-downs, project management, equipment relocation and building demolition, all of which are primarily included in Cost of goods sold.

The restructuring costs in 2021 were primarily related to actions across the company including strategic actions to address certain products, which were partially offset by a gain on the sale of a manufacturing facility that had been closed. The restructuring costs in 2020 were primarily related to various voluntary and involuntary employee separation programs implemented across the company and strategic actions to address certain products, which were partially offset by a gain on the sale of a manufacturing facility that had been closed. Both the gains in 2021 and 2020 were included in Long-lived asset impairments in the table above. The restructuring costs in 2019 were primarily related to restructuring actions across the company.

In 2021, all restructuring costs are excluded from segment profit. In 2020 and 2019, only certain restructuring costs were excluded from segment profit. Restructuring costs included in segment profit were as follows:

(Millions of dollars)	2021	2020	2019
Construction Industries	\$ —	\$ 13	\$ 4
Resource Industries	_	19	5
Energy & Transportation	—	55	7
Financial Products Segment	_	_	_

The following table summarizes the 2021 and 2020 employee separation activity:

(Millions of dollars)	2	2021		2020	
Liability balance, beginning of period	\$	164	\$	48	
Increase in liability (separation charges)		92		271	
Reduction in liability (payments)		(195)		(155)	
Liability balance, end of period	\$	61	\$	164	

Most of the remaining liability balance as of December 31, 2021 is expected to be paid in 2022.

In September 2015, we announced a large scale restructuring plan (the Plan) including a voluntary retirement enhancement program for qualifying U.S. employees, several voluntary separation programs outside of the United States, additional involuntary programs throughout the company and manufacturing facility consolidations and closures. The largest action among those included in the Plan was related to our European manufacturing footprint which led to the Gosselies, Belgium facility closure. We incurred \$43 million of restructuring costs associated with these actions in 2019. The Plan concluded in 2019, and total restructuring costs incurred since inception of the Plan were \$1,831 million.

# ITEM 9. Changes in and Disagreements with Accountants on Accounting and Financial Disclosure.

Not Applicable.

# ITEM 9A. Controls and Procedures.

## Disclosure Controls and Procedures

An evaluation was performed under the supervision and with the participation of the company's management, including the Chief Executive Officer (CEO) and Chief Financial Officer (CFO), of the effectiveness of the design and operation of the company's disclosure controls and procedures, as that term is defined in

Rule 13a-15(e) under the Exchange Act, as of the end of the period covered by this annual report. Based on that evaluation, the CEO and CFO concluded that the company's disclosure controls and procedures were effective as of the end of the period covered by this annual report.

## Management's Report on Internal Control Over Financial Reporting

Management's report on the company's internal control over financial reporting as of December 31, 2021 is included on page 44 of Part II, Item 8 "Financial Statements and Supplementary Data." The effectiveness of the company's internal control over financial reporting as of December 31, 2021 has been audited by PricewaterhouseCoopers LLP, an independent registered public accounting firm. Their report appears on pages 45-46 of Part II, Item 8 "Financial Statements and Supplementary Data."

## Changes in Internal Control over Financial Reporting

During the last fiscal quarter, there has been no significant change in the company's internal control over financial reporting that has materially affected, or is reasonably likely to materially affect, the company's internal control over financial reporting.

# ITEM 9B. Other Information.

# Disclosures Required Pursuant to Section 13(r) of the Securities Exchange Act of 1934

During the six months ended June 30, 2021, Caterpillar Eurasia LLC, one of our affiliates, engaged in limited transactions or dealings with the Federal Security Service of Russia (the "FSB"). Specifically, Caterpillar Eurasia LLC, from time to time, directly or indirectly, made required submissions to and received regulatory authorizations from the FSB related to the importation of software

used in the on-board telematics and control systems of Caterpillar machines that were imported into Russia. Caterpillar Eurasia LLC did not generate any net revenue or net profits from such approval activity and does not make any sales to or have other dealings with the FSB. Caterpillar Eurasia LLC plans to continue these activities as long as it remains lawful to do so.

# ITEM 9C. Disclosure Regarding Foreign Jurisdictions that Prevent Inspections.

Not Applicable.

# PART III

# ITEM 10. Directors, Executive Officers and Corporate Governance.

## Identification of Directors and Business Experience

Information required by this Item is incorporated by reference from the 2022 Proxy Statement.

## Identification of Executive Officers and Business Experience

Information required by this Item appears in Item 1C of this Form 10-K.

# Family Relationships

There are no family relationships between the officers and directors of the company.

## Legal Proceedings Involving Officers and Directors

If applicable, information required by this Item is incorporated by reference from the 2022 Proxy Statement.

## Audit Committee Financial Expert

Information required by this Item is incorporated by reference from the 2022 Proxy Statement.

# **ITEM 11. Executive Compensation.**

Information required by this Item is incorporated by reference from the 2022 Proxy Statement.

## Identification of Audit Committee

Information required by this Item is incorporated by reference from the 2022 Proxy Statement.

## Shareholder Recommendation of Board Nominees

Information required by this Item is incorporated by reference from the 2022 Proxy Statement.

## Compliance with Section 16(a) of the Exchange Act

If applicable, information required by this Item relating to compliance with Section 16(a) of the Exchange Act is incorporated by reference from the 2022 Proxy Statement.

# Code of Ethics

Our Worldwide Code of Conduct (Code), first published in 1974 and most recently updated in 2019, sets a high standard for honesty and ethical behavior by every director and employee, including the principal executive officer, principal financial officer and principal accounting officer. The Code is posted on our website at www.Caterpillar.com/code. To obtain a copy of the Code at no charge, submit a written request to the Corporate Secretary at 510 Lake Cook Road, Suite 100, Deerfield, IL 60015-4971. We post on our website at www.Caterpillar.com/code any required amendments to or waivers granted under our Code pursuant to SEC or New York Stock Exchange disclosure rules.

# ITEM 12. Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters.

Information required by this Item relating to security ownership of certain beneficial owners and management is incorporated by reference from the 2022 Proxy Statement.

Information required by this Item relating to securities authorized for issuance under equity compensation plans is included in the following table:

Equity Compensation Plan Information (as of December 31, 2021)							
Plan category	(a) Number of securities to be issued upon exercise of outstanding options, warrants and rights	(b) Weighted-average exercise price of outstanding options, warrants and rights	(c) Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected in column (a))				
Equity compensation plans approved by security holders	10,400,999	\$ 127.52	33,880,674				
Equity compensation plans not approved by security holders	N/A	N/A	N/A				
Total	10,400,999	\$ 127.52	33,880,674				

# ITEM 13. Certain Relationships and Related Transactions, and Director Independence.

Information required by this Item is incorporated by reference from the 2022 Proxy Statement.

# **ITEM 14. Principal Accountant Fees and Services.**

Our independent registered public accounting firm is PricewaterhouseCoopers LLP, Chicago, Illinois, Auditor Firm ID: 238. Information required by this Item is incorporated by reference from the 2022 Proxy Statement.

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# **CORPORATE** GOVERNANCE

Caterpillar's governance structure provides leadership, accountability and transparency to the management of the company and its businesses. Our corporate governance framework serves the interests of shareholders with the highest standards of responsibility, integrity and commitment to enhance shareholder value over the long term. These standards are developed and implemented by our Board of Directors and the Executive Office. Learn more at **www.caterpillar.com/governance.** 

# **BOARD OF DIRECTORS**

**Kelly A. Ayotte** Former U.S. Senator Representing New Hampshire

**David L. Calhoun** President and CEO The Boeing Company

**Daniel M. Dickinson** Managing Partner HCI Equity Partners

**Gerald Johnson** Executive Vice President, Global Manufacturing and Sustainability General Motors Company

**David W. MacLennan** Board Chair and CEO Cargill, Inc.

**Debra L. Reed-Klages** Former Chairman and CEO Sempra Energy

As of April 1, 2022

**Edward B. Rust, Jr.** Retired Chairman and CEO State Farm Mutual Automobile Insurance Company

**Susan C. Schwab** Professor Emerita at the University of Maryland School of Public Policy and Former U.S. Trade Representative

**D. James Umpleby III** Chairman and CEO Caterpillar Inc.

**Miles D. White** Executive Chairman of the Board Abbott Laboratories

**Rayford Wilkins, Jr.** Former CEO Diversified Businesses at AT&T

## **OFFICERS**

Chairman and CEO **D. James Umpleby III** 

Group Presidents Joseph E. Creed Bob De Lange Anthony D. Fassino Denise C. Johnson

Chief Financial Officer Andrew R.J. Bonfield

Chief Legal Officer and General Counsel **Suzette M. Long** 

Chief Human Resources Officer **Cheryl H. Johnson** 

Chief Sustainability & Strategy Officer Julie A. Lagacy

**Learn More** about our corporate governance framework and voting on matters for the annual meeting in Caterpillar's Proxy Statement: <u>https://www.caterpillar.com/en/investors/financial-information/proxy-statement.</u>



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# **2021 SUSTAINABILITY REPORT**

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