

## EQUIPMENT

Maximize the value of your equipment.

## PRODUCTIVITY

Move more material in less time at a lower total cost.

## SAFETY

Send everyone home safely after every shift.

## SUSTAINABILITY

Reduce environmental impact with technology and innovation.

## FINANCIALS

Manage expenses and use capital more efficiently.



# EQUIPMENT CAPABILITIES

Caterpillar Job Site Solutions is committed to helping you get full value from your equipment assets. To do so, we focus on two areas: Adding structure and discipline to **Maintenance and Repair Process Management** and preparing your team for effective **Maintenance and Repair Execution**.

## MAINTENANCE AND REPAIR PROCESS MANAGEMENT

Managing the maintenance and repair process is often a low priority—until a machine goes down. Then in the scramble to resume operation, costs rise, availability suffers and it's hard to make smart repair-rebuild-replace decisions. Let Caterpillar equipment management experts bring structure and discipline to your maintenance and repair process. Together we can improve equipment availability, extend asset life and reduce operating costs.

### Maintenance and Repair Strategy

Success begins with a comprehensive Maintenance and Repair Strategy—one that outlines the lifecycle of each asset, identifies how and when maintenance and repairs will be done, and is backed by a realistic budget. We'll work together to create such a strategy, answering questions like: Which components should be changed based on hours and which should be based on condition? Should a component be repaired, rebuilt or replaced with a new or remanufactured

part? Combined with a Rolling Equipment Plan, your Maintenance and Repair Strategy will provide a clear picture of how and when to retire each asset to optimize long-term returns.

### Condition Monitoring

Equipment rarely fails without warning. But identifying and resolving problems before failure requires rigorous condition monitoring. Today's machines capture valuable data that enables us to predict and prevent failure—if it's analyzed systematically by trained experts using world-class tools. Our people have the resources and expertise to analyze, synthesize and interpret machine-delivered electronic data, fluid sampling reports, operator inspections, application and machine history and more. We report the results to you, providing a comprehensive assessment of equipment health that lets you schedule interventions proactively to reduce the risk of failure, minimize downtime and lower repair costs.

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### Backlog Management

It's not necessary to stop a machine every time a minor leak, event, alert or alarm occurs. However, these early-warning signs can't be ignored. Our Backlog Management process, fed with data from the Condition Monitoring process, ensures that minor issues are addressed in a timely manner. We prioritize repairs, separating issues that must be resolved immediately from those that can be backlogged. Then we track backlogged events and group them for attention at the next scheduled downtime. This reduces overall downtime while ensuring that minor issues do not turn into major, costly failures.

### Component Management

Like an equipment asset, every major component has a unique life cycle. Within the life cycle, various repair options are available. If you manage the options effectively, you'll get the longest life at the lowest cost. Caterpillar works with you to choose the right repair options based on site conditions, asset application and the component life cycle. We manage each component within the context of the whole machine and your overall fleet. Our focus is intervening before failure to maximize uptime, extend component life and reduce operating costs.



**BUILT FOR IT.**

## MAINTENANCE AND REPAIR EXECUTION

No matter how good your maintenance and repair processes are, it takes disciplined execution to be successful. To execute at the highest level, you need a systematic plan for allocating service resources, a parts inventory that supports that plan and a team of technicians with the right skills, tools and information. Caterpillar provides assistance on all fronts to help you build and sustain a high-performance service operation.

### Planning and Scheduling

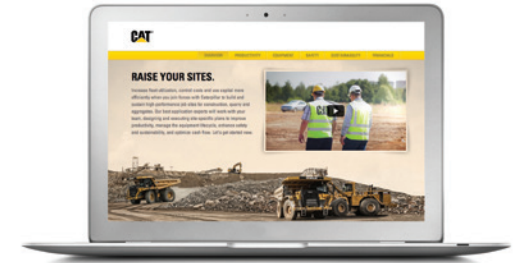
Planning and scheduling service work is a hands-on, day-to-day job. We create a comprehensive plan for your operation using input from your production team, the Maintenance and Repair Strategy, the Backlog Management plan and Condition Monitoring results. Then working closely with your team, we schedule the work to support your operational objectives.

### Parts Logistics

Having the right part at the right time for each scheduled maintenance or repair event can be a headache. Locating missing parts or unexpected items can increase downtime, driving expense and lost production. We leverage the Cat® parts system along with your maintenance and repair schedule, reducing your need to carry and manage a costly parts inventory.

### Repair Management

Completing repairs efficiently and economically takes skilled technicians using the right tools, processes, information and parts. We have the resources and expertise to manage these variables. And should an unexpected problem arise, we have the systems, processes and experience to respond. The result is quality repairs that return your equipment to full performance with minimal downtime.



**Put our capabilities to work in your business.**

Caterpillar equipment capabilities can be provided as individual services, but are most valuable when delivered as part of a comprehensive plan to optimize site performance. For more information about optimizing your site, contact an expert at [collaborativesolutions@cat.com](mailto:collaborativesolutions@cat.com) or visit [cat.com/collaborative-solutions-us-english](http://cat.com/collaborative-solutions-us-english).