#VNANDgoesFurther

V-NAND Reshapes Storage for the Crowded "Digital Universe"

The digital universe is growing 40% annually





2020 ZETTABYTES



Once quiet, the flat NAND suburbs are becoming crowded





CRAMPED, NOISY, **WEARING OUT**

RESHAPIN







2D PLANAR

NAND FLASH

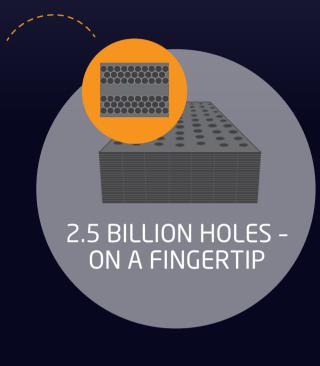




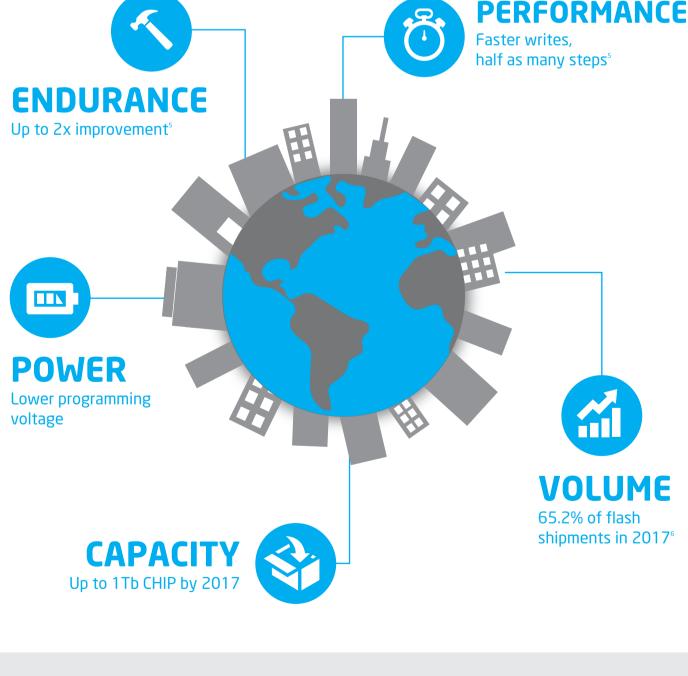
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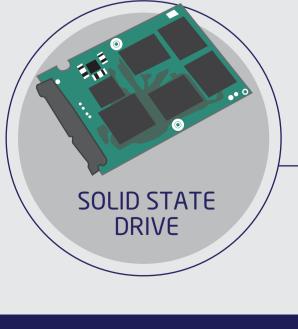


FLASH, OR V-NAND



BEYOND PLANAR FLASH LIMITS A MORE EFFICIENT **MEMORY METROPOLIS**





SSDs WITH

V-NAND Keep up with growing high-value data Perform well on both reads and writes Deliver better quality-of-service (QoS)

Continue evolving for even greater value

www.samsung.com/enterprisessd

Extend lifespan with more endurance

- 1. YouTube Statistics, Google,
- http://www.youtube.com/yt/press/statistics.html 2. Tweet from @TwitterData (official statistics of Twitter),
- July 8, 2014 3. EMC Digital Universe Study, IDC,
- 4. "Cisco Visual Networking Index: Forecast and Methodology, 2013-2018", June 2014
- 5. Samsung performance comparison against planar NAND-based SSDs 6. "NAND Flash Moves Into the Next Dimension", IHS Technology, October 2013

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http://www.emc.com/leadership/digital-universe/index.htm