



HBM2E

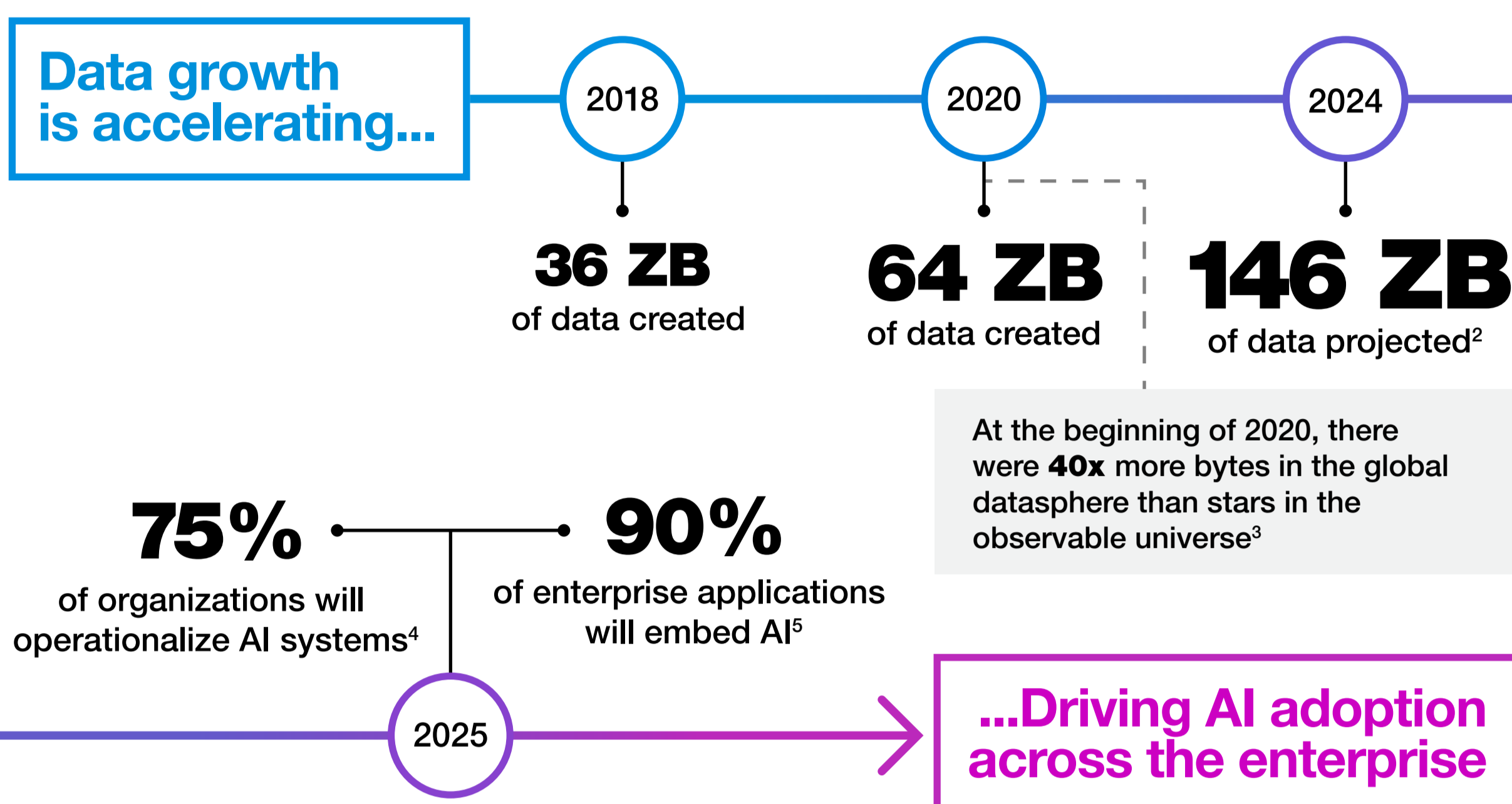
The Leader in High Bandwidth

Modern data centers are using artificial intelligence (AI) and high-performance computing (HPC) environments to solve today's most pressing challenges. But for AI and HPC to operate at their peak, each must be fed massive amounts of data — quickly, efficiently and continuously.

High Bandwidth Memory (HBM) offers ultra-wide bandwidth and scalable density¹ with low power consumption to do just that. At the forefront is HBM2E, the fastest memory on the planet and the flagship of Micron's complete Ultra-Bandwidth Solutions portfolio.

AI transforms data into actionable intelligence

Driving the need for High Bandwidth Memory



Why is HBM2E better?

Because it's closer.⁶

Closer is faster

Saving millimeters may not sound like a lot, but to data at nanoscale, it is.



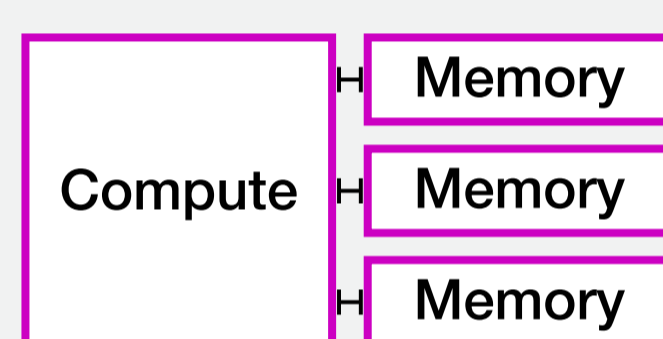
Closer means more bandwidth

It uses a wide (1,024 bits) multichannel I/O for maximum bandwidth and capacity.

1,024 bit multichannel I/O

Closer is cooler

Less power consumption, thanks to the memory's close physical placement next to the compute.



How does HBM2E performance stack up?⁷

8x

greater package density compared to GDDR6



7x

more package bandwidth than GDDR6



87.5%

smaller footprint than GDDR6*



*for estimated peak workloads in super compute bandwidth scenarios



Why Micron for High Bandwidth Memory

The industry's most complete high performance memory portfolio

1

and only company in the world to offer a complete portfolio of Ultra-Bandwidth Solutions

20+

years of innovation in stacked DRAM technology

40+

years of memory manufacturing expertise and leadership

1000+

patents in memory stacking and advanced packaging solutions

When performance is everything, choose the memory that outperforms all.

Learn more: micron.com/hbm2e

Sources

- ¹ Table at <https://www.micron.com/products/ultra-bandwidth-solutions>, <https://www.micron.com/products/ultra-bandwidth-solutions/gddr6x>, <https://www.micron.com/products/ultra-bandwidth-solutions/hbm2e>
- ² IDC, "Global DataSphere 2021," https://www.idc.com/getdoc.jsp?containerId=IDC_P38353
- ³ SeedScientific, "How Much Data Is Created Every Day?," <https://www.visualcapitalist.com/how-much-data-is-generated-each-day>
- ⁴ Gartner, "Top 10 Data and Analytics Technology Trends for 2020," <https://www.gartner.com/en/newsroom/press-releases/2020-06-22-gartner-identifies-top-10-data-and-analytics-technol>
- ⁵ IDC, "IDC FutureScape: Worldwide IT Industry 2020 Predictions," <https://www.idc.com/research/viewtoc.jsp?containerId=US4559219>
- ⁶ [Micron HBM2E: Performance Is Everything - YouTube](https://www.youtube.com/watch?v=...)
- ⁷ <http://www.micron.com/products/ultra-bandwidth-solutions>. Comparisons in table based on JEDEC standards and product definitions.

