

Next Great Breakthrough in Flash

Rory Bolt
Principal Architect, Sr. Fellow
Toshiba Memory America



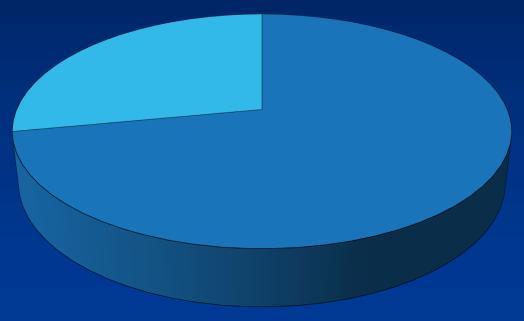
Disclaimer

- Views expressed are my own:
 - Not necessarily shared with my employer: Toshiba Memory America
 - Not to be construed as product roadmap or product commitment
- Forward looking statements on technology may be wrong:
 - "Spam will be a thing of the past in two years' time."
 - Bill Gates, 2004
- Forward looking statements on technology may be right:
 - "Computers in the future may weigh no more than 1.5 tons."
 - Popular Mechanics, 1949



Storage has moved to the cloud...

NVMe[™] SSD shipments (units or capacity...)



Hyperscale

■ Everyone else



Questions to Industry:

- Why does practically every hyperscaler also have an "in house" SSD design/build program?
- Will the requirements of the hyperscalers drive the creation of new types of SSDs?
- Will the "Next Great Breakthrough in Flash" be new ways of interacting with Flash and new functionality tailored to the needs of the hyperscalers?