

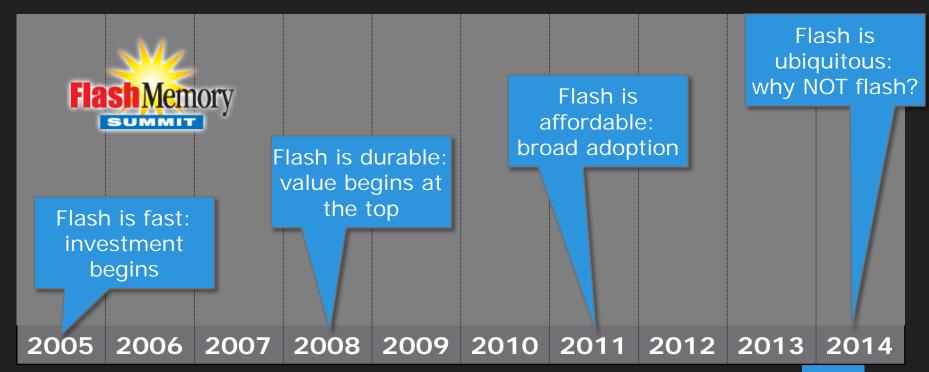
Flash Memory Summit '14

Daniel Cobb – EMC Distinguished Engineer VP Non-Volatile Memory Strategy



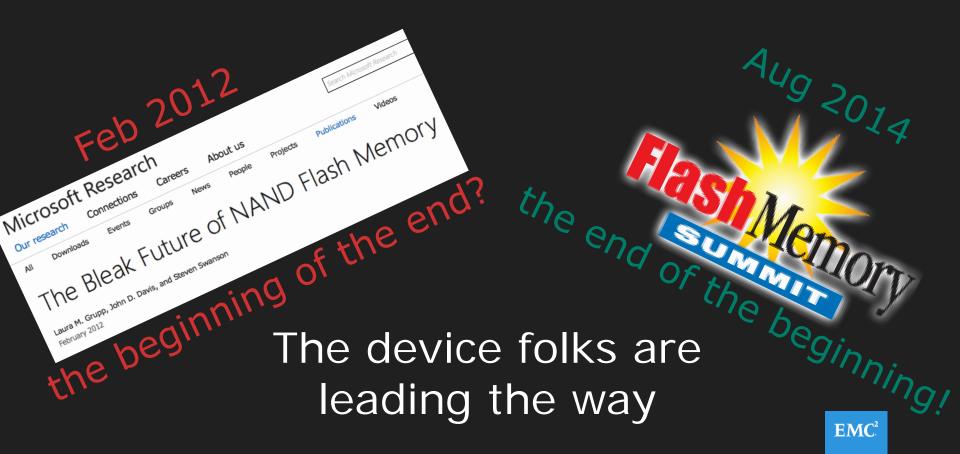
EMC's 10 year journey

enabled by the creativity and innovation of flash pioneers



EMC²

Poll: Where do you think we are?



Top things you MUST know about flash

designing with flash is like walking a Slinky Dog™



- the head enthusiastically seeks new interesting things
- the tail comes along in good time, or things break
- infrastructure designers judiciously manage the tension



managing tension while breaking boundaries



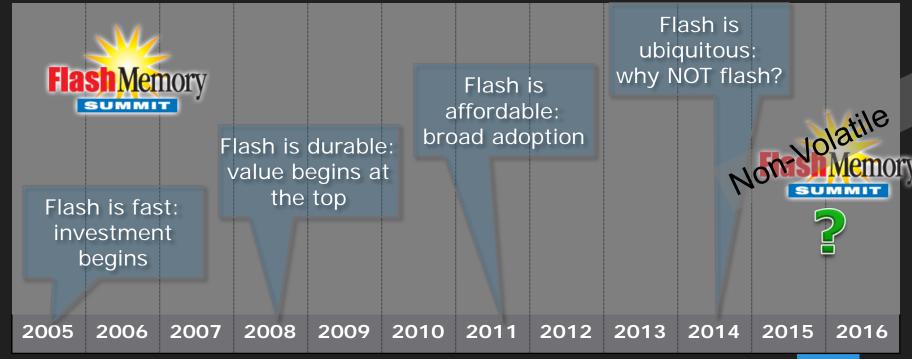
| HDD | HDD | DRAM |
|-------------------|-----------------------|-----------------------|
| HDD tiers | SSD | DRAM |
| dense HDD | affordable SSD | DRAM |
| HDD optional | SSD tiers | DRAM |
| dense read SSD | fast write SSD | NG NVM |
| dense "cold core" | intelligent placement | persistent "hot edge" |

The system folks are keeping pace

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Flash Memory Summit's 10 year journey

"flash as storage" blurs into "persistent memory"





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