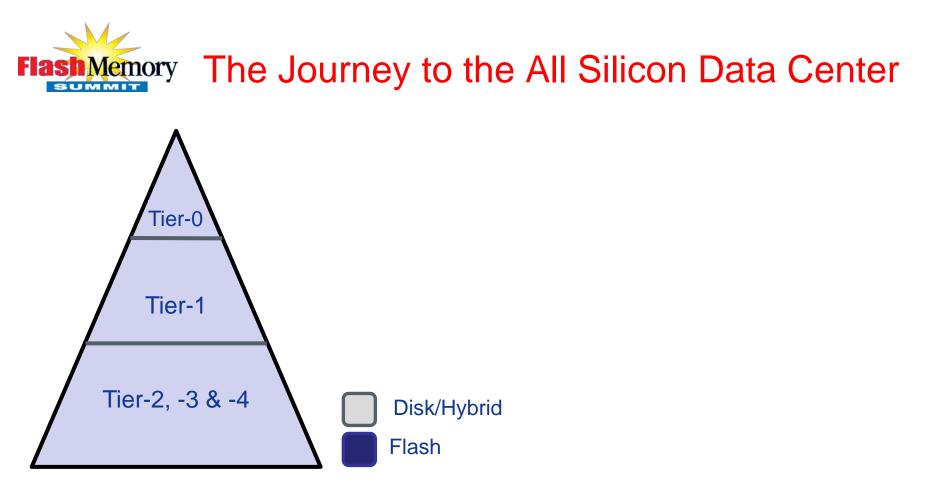
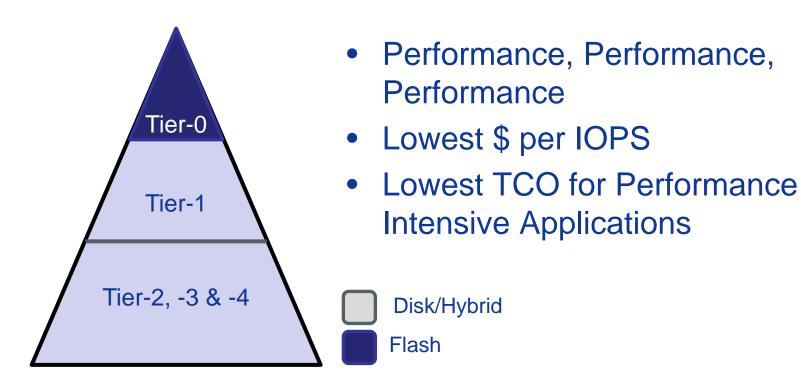


Disk is Dead! Storage Buyers at a Crossroads... Flash Memory Summit 2015 Andrew Chen VP, Product Management, Violin Memory achen@vmem.com

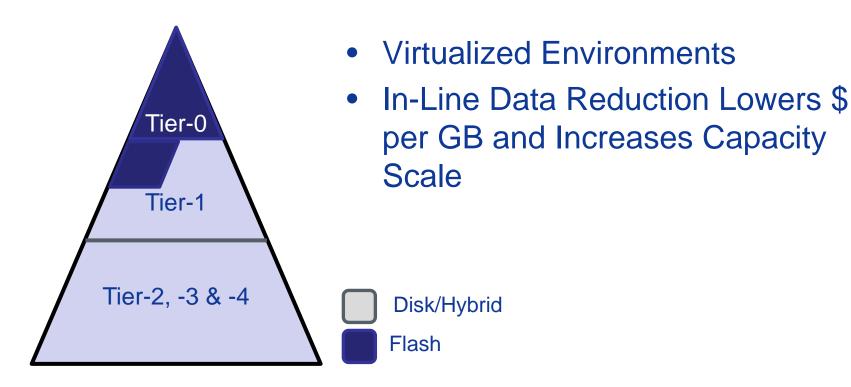


The Journey to the All Silicon Data Center



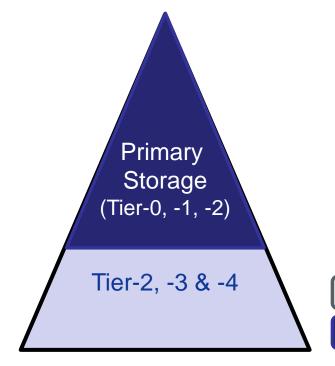
Memory

The Journey to the All Silicon Data Center



Memory

The Journey to the All Silicon Data Center



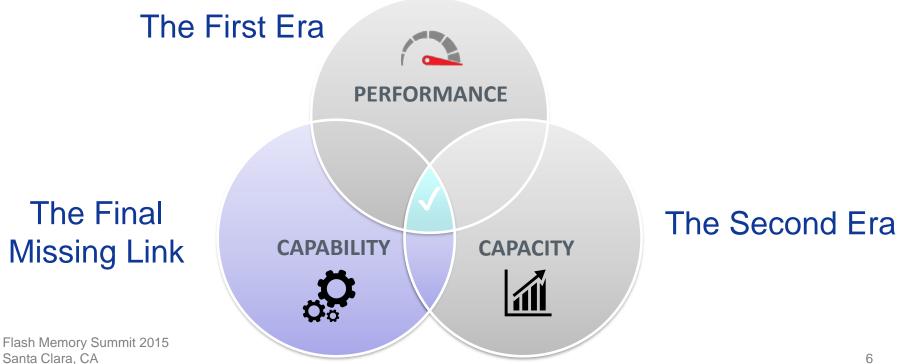
Memory

- Comprehensive Data Management Services
- The End of Compromises
- +Legacy Technologies
 Increasingly Fail to meet IT
 Demands of Present and Future

Disk/Hybrid

Flash







Past and Future – A Tale of Two Technologies

Hard Disk Drives

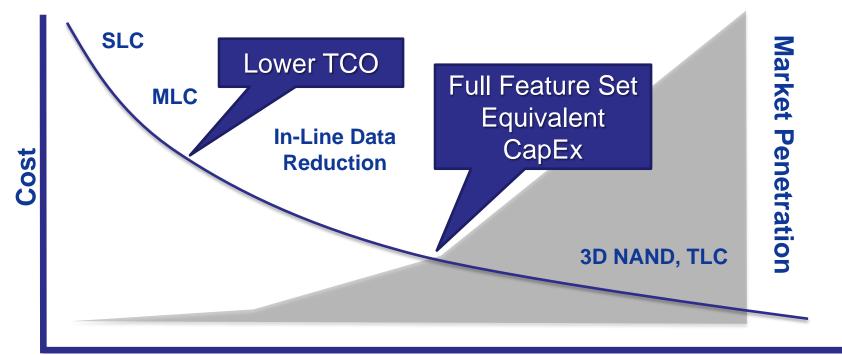
- Declining in Volume Base
- Performance Stagnation
- Prohibitive Investment Requirements

NAND Flash

- Consumer Demand
 Provides Volume Scale
- Multiple Technology Innovations Ahead



Acceleration of Flash Adoption







Architecture Matters

SSD Retrofit

Benefits: ✓ Rich Feature Set

Drawbacks:

- Low Performance
- High Cost
- Low Density

SSD-Based All-Flash Array

Benefits: ✓ In-line Data Reduction → Low \$/GB *Effective*

Drawbacks:

- Low Performance
- Low Density
- Limited Features

Purpose Built All-Flash Array

Benefits:

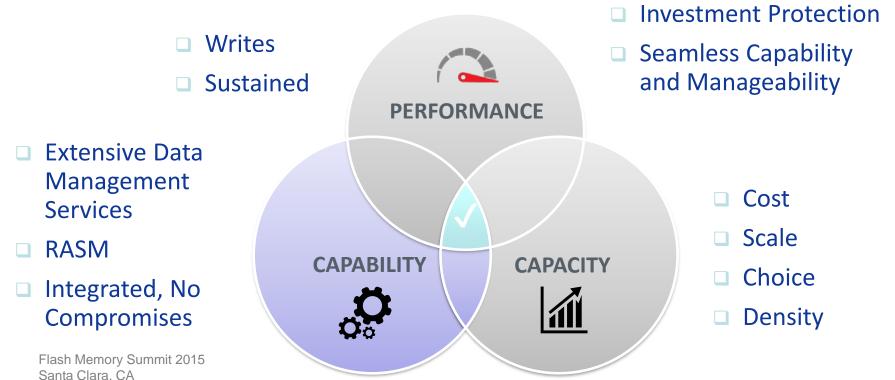
 ✓ Most Effective Use of Flash

Drawbacks:

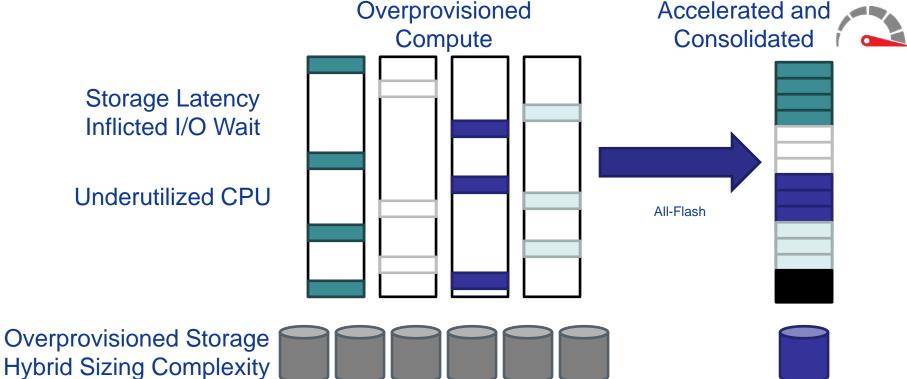
 High Investment to Develop



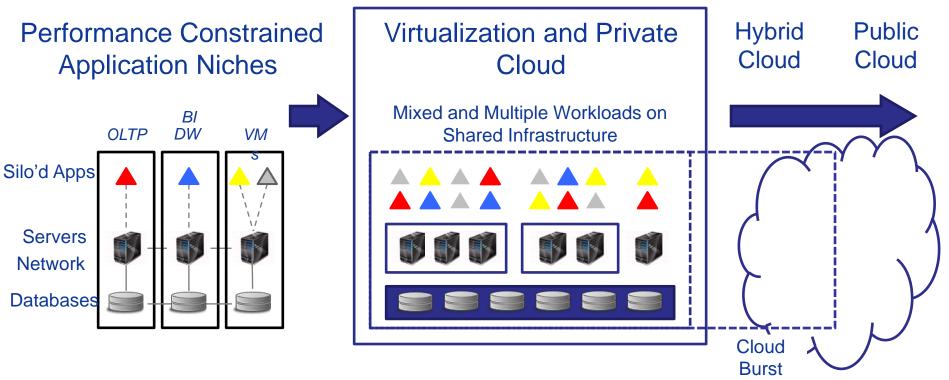
Enterprise Primary Storage Requirements













The Effects of Flash in a Data Center





STORAGE CONSOLIDATION











Business Transformation

- Enabling Workflows
- Meeting Customer SLA's
- Speed to Insight as a Differentiator
- New Revenue Sources

Data Center Transformation

- Consolidation and Build Out Avoidance
- Power, Cooling, Space
- No More Compromises
 Required



EVERYONE!



Thank You!