

kaminario.



All-Flash Arrays Require Scalable, Cost-Efficient Software-Defined Architectures

Shachar Fienblit, CTO

Flash is Fast



Flash Benefits are Way Beyond Performance

Operational
Expenses

IT Productivity

Lower
Power/Cooling
and Rack-Space

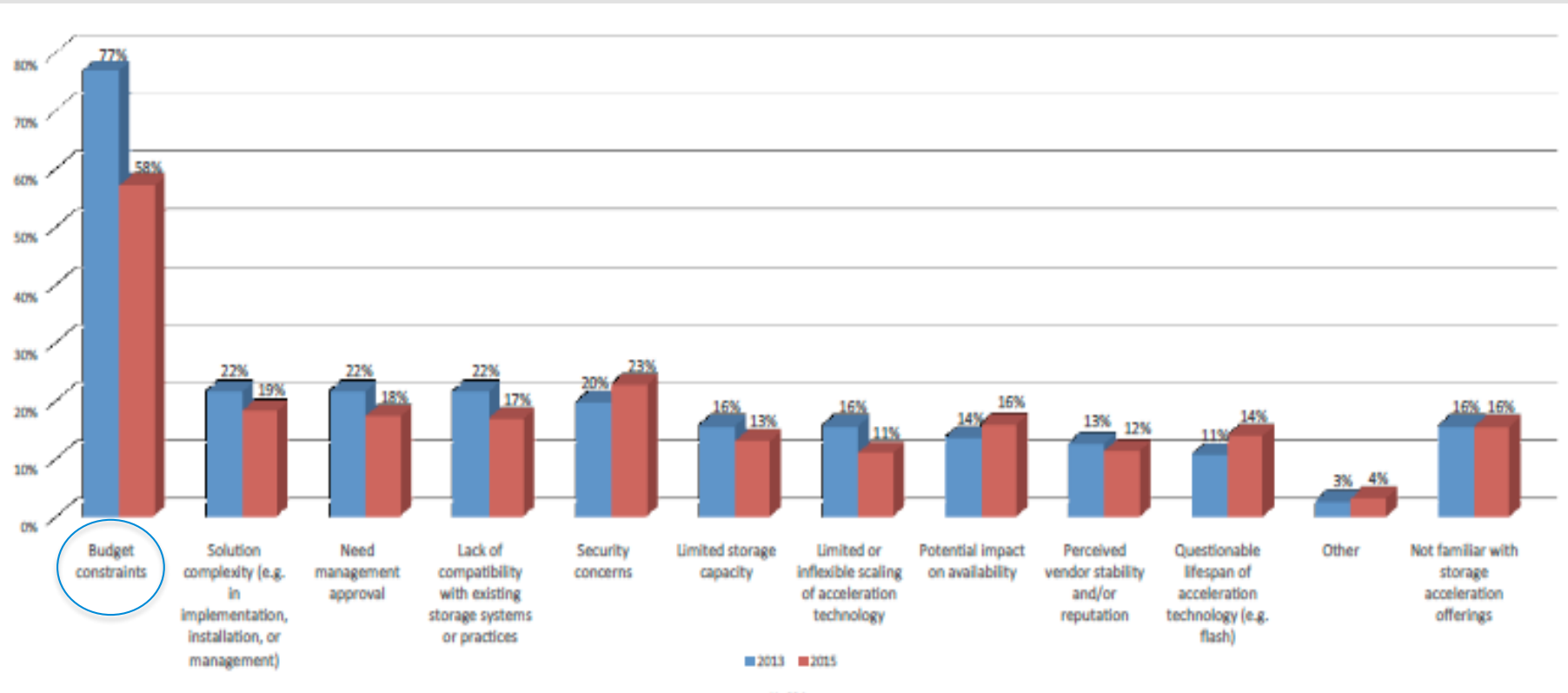
Business
Decision Support

Compliance

Performance
Consistency

Is it affordable?

What are the Primary obstacles prevent you from deploying storage acceleration solutions?



77% of the costumers mentioned “**budget constrains**” as the main reason in 2013
Dropped to **58%** in 2015

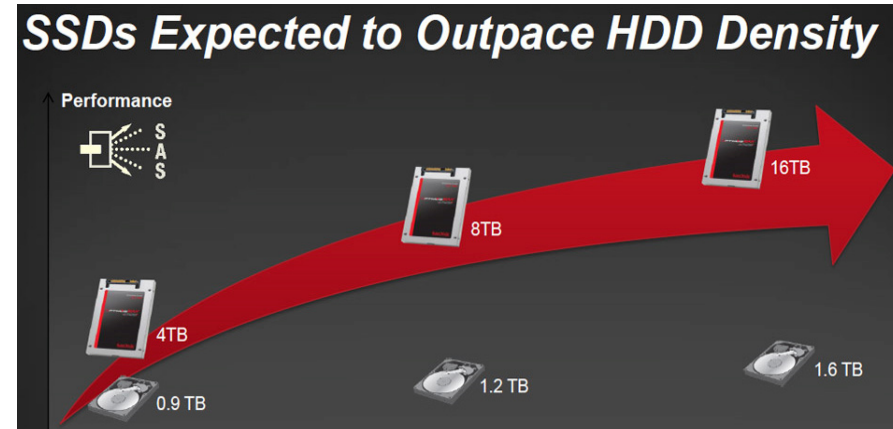
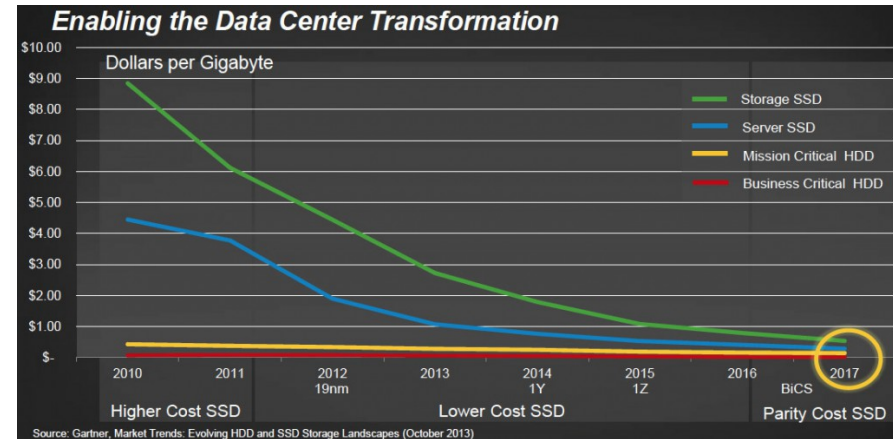
Study by Taneja Group

Some Flash Technology Trends

SSD Capacity/cost improves faster than Moore's law

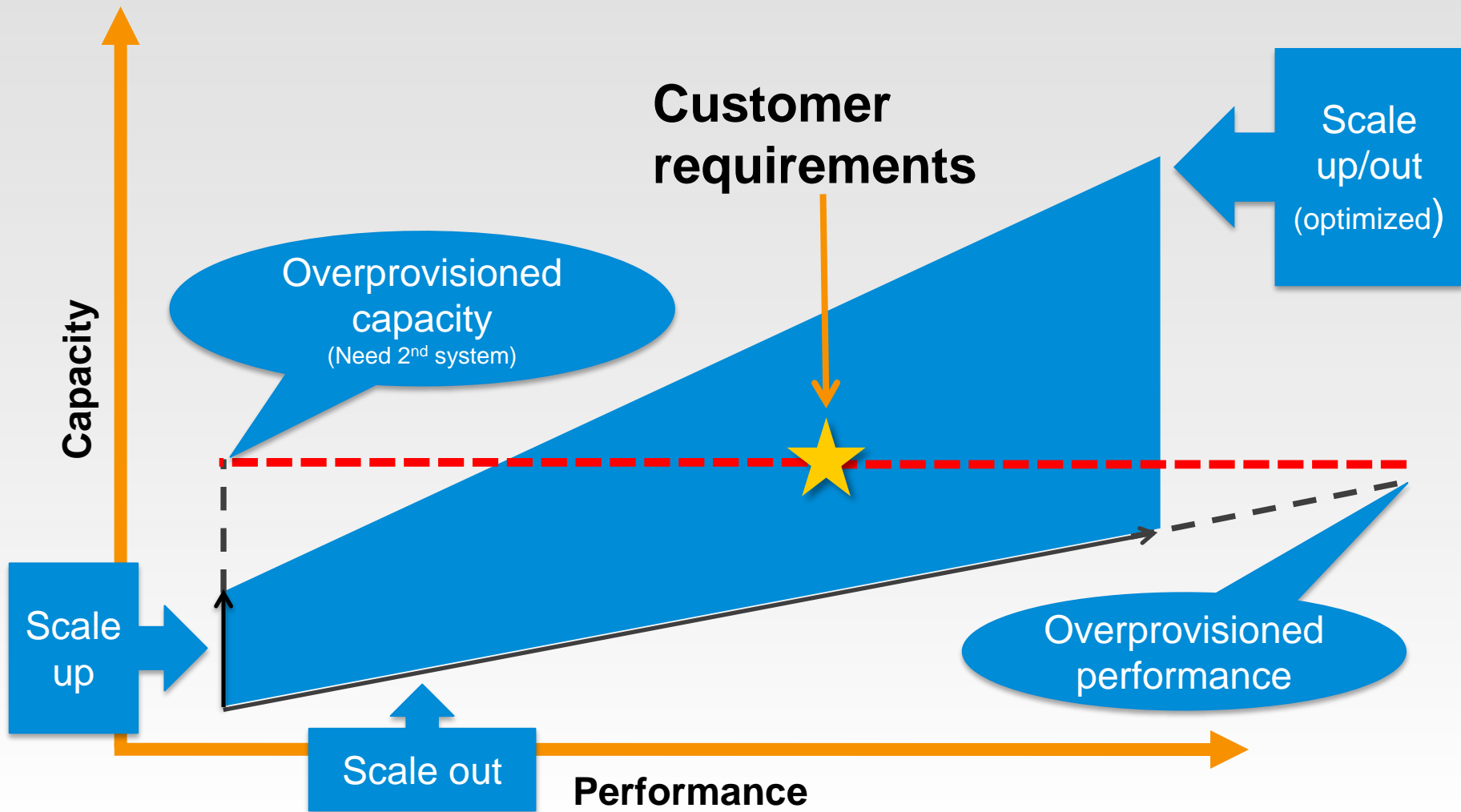
- Driven by 3D NAND and TLC
- Comes with lower endurance

Efficient adoption of these high density SSDs is the future of all-flash arrays



Source: SanDisk

AFA Efficiency in practice



**Modern Software Defined
AFA Architecture improves
SSD endurance by 4-8x**

97% of the customers write the capacity less than once per day



Translates to 0.15 write per day

Dynamic and scalable AFA architecture



Scale According to Datacenter Needs



Mix and Match Controllers and SSDs



Decommission When Needed



Scale-Out Cluster is Online Forever

Kaminario's Mission

We enable our customers to **scale** their business **easily and cost-efficiently**



What Is Unique About Kaminario K2



Flexi-Scale

- General purpose storage
- Scale-out
- Scale-up



Easy

- Consistency
- Easy to scale – NDU everything
- HealthShield



Cost-Efficiency

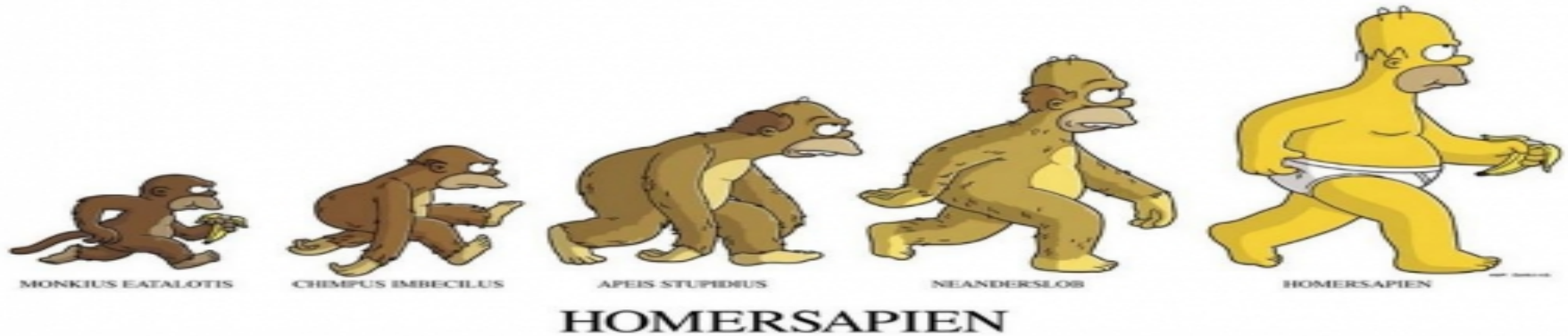
- Lower cost than Hybrid arrays
- Guaranteed capacity
- Inline compression and deduplication
- Get more from same HW
 - Highest utilization



Safe

- Resiliency for multiple simultaneous failures
- Enterprise features

Evolution of All-Flash Arrays



- Solving **single** application
- Flash technology SLC
- Legacy architecture with SSD



- Solving **Multiple** applications
- Flash technology MLC
- Scale-out or scale-up



- **General Purpose storage**
- Flash technology 3D MLC/TLC
- Scale-out and Scale-up



Kaminario is Making the All-Flash Datacenter a *Reality*



kaminario.



Questions?