



Jan Silverman

VP Server Storage Business
Spancion Inc.

Transforming the Internet Data Center



FLASH FORWARD

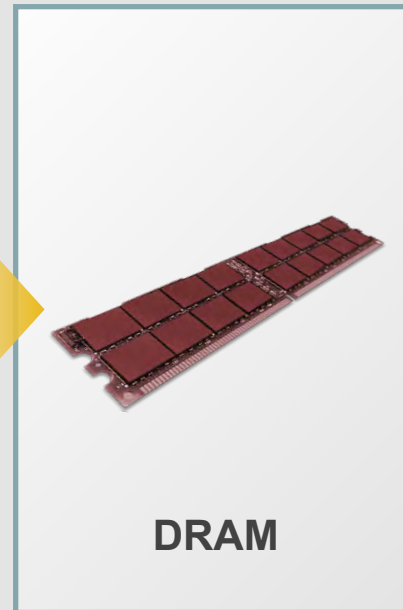
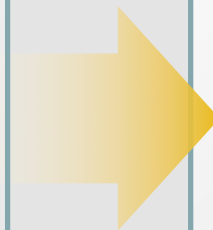


Future of Memory in Internet Servers



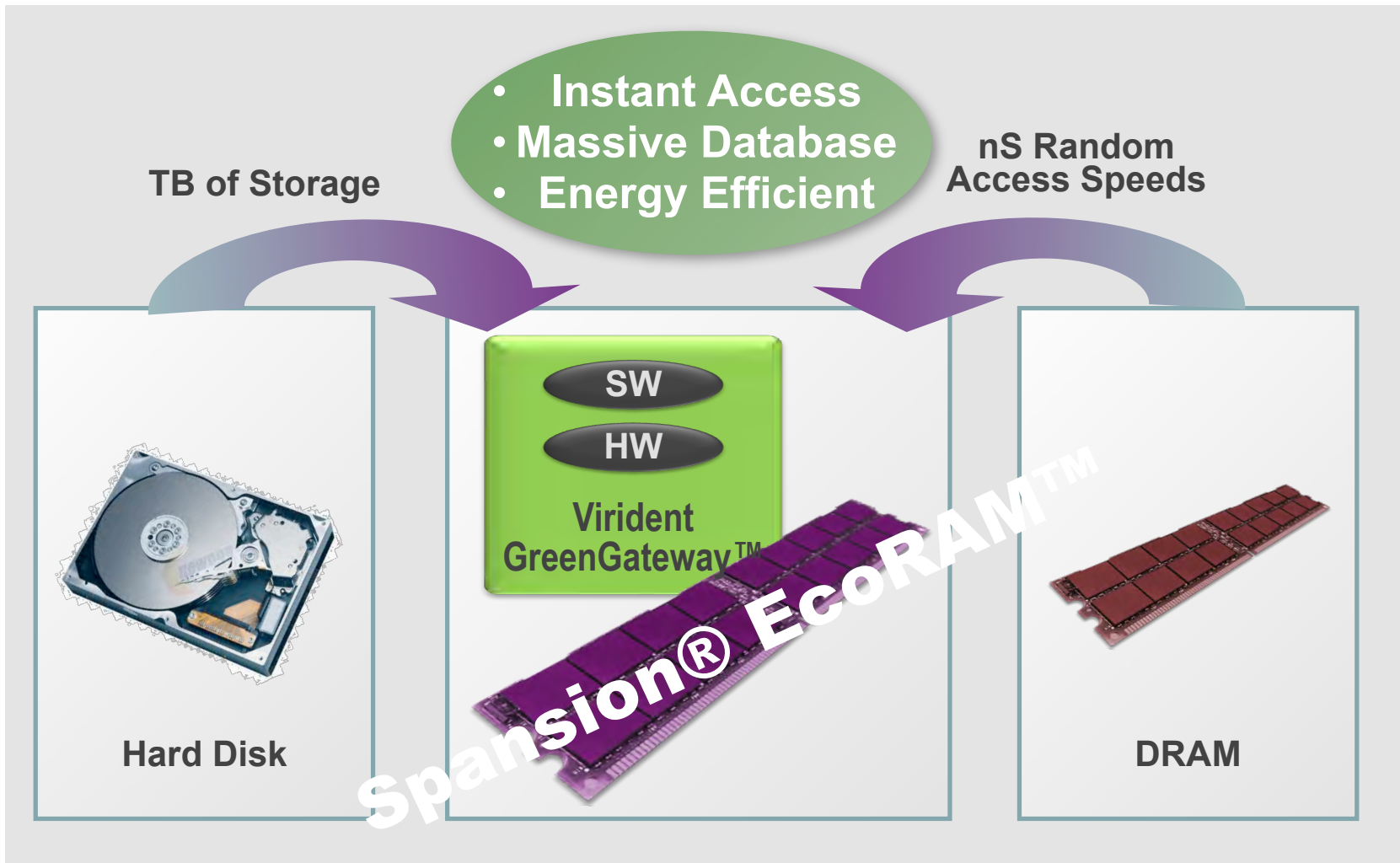
Step 1: The Past

**Instant
Access**

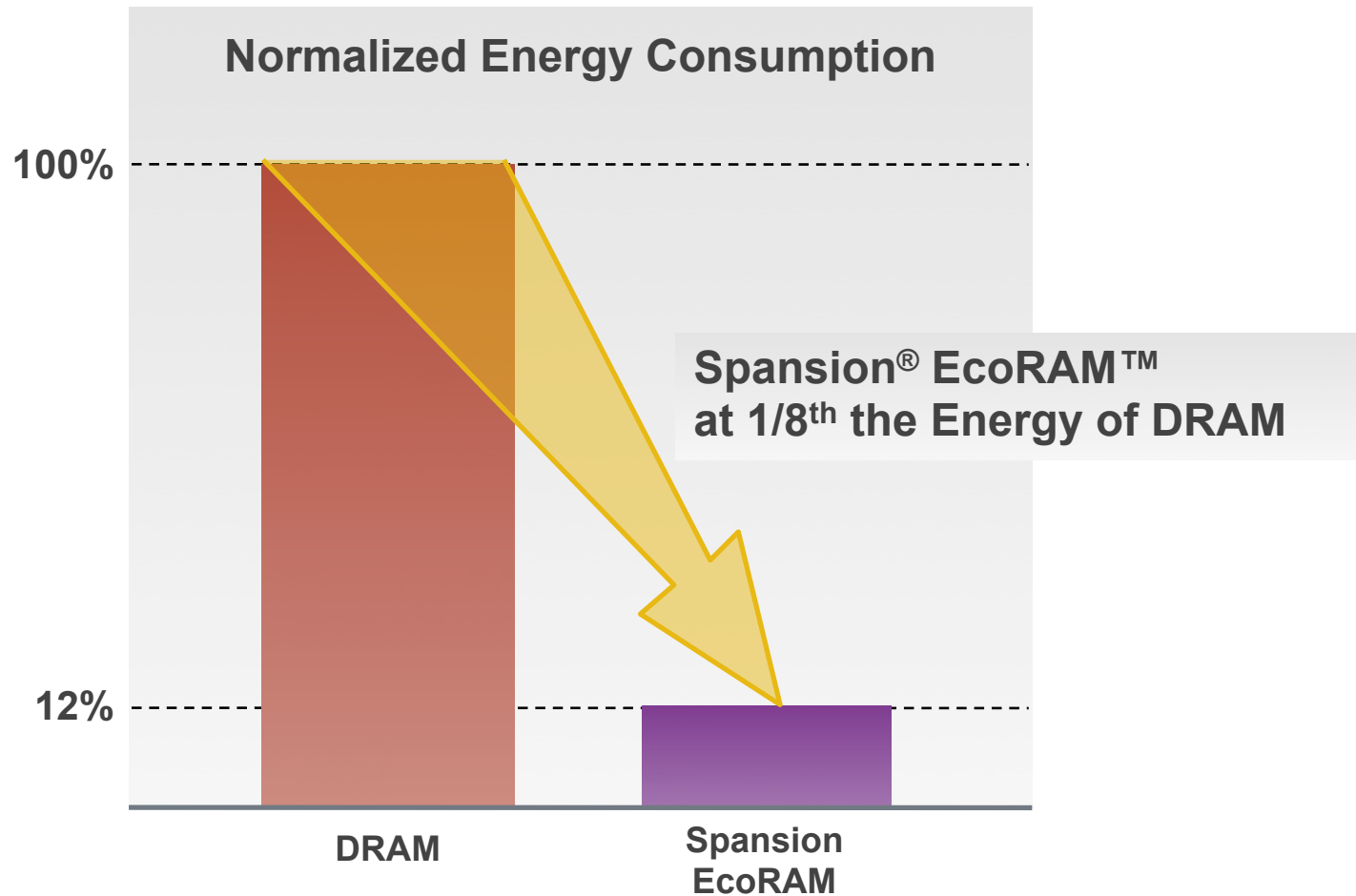


**But only for a
subset of the data**

Future of Memory in Internet Servers



Spansion® EcoRAM™: Low Energy Consumption

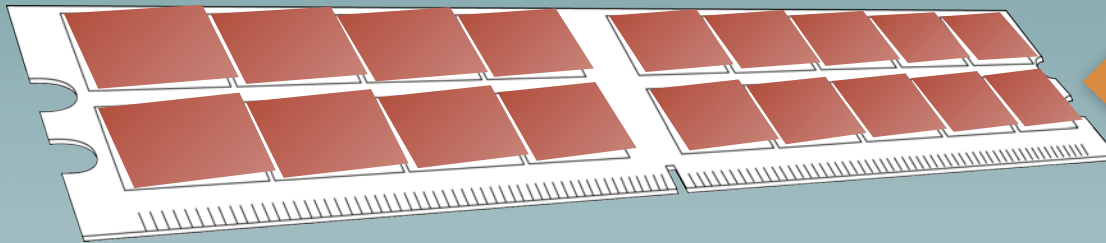


Source: Spansion estimates

DIMM Capacity



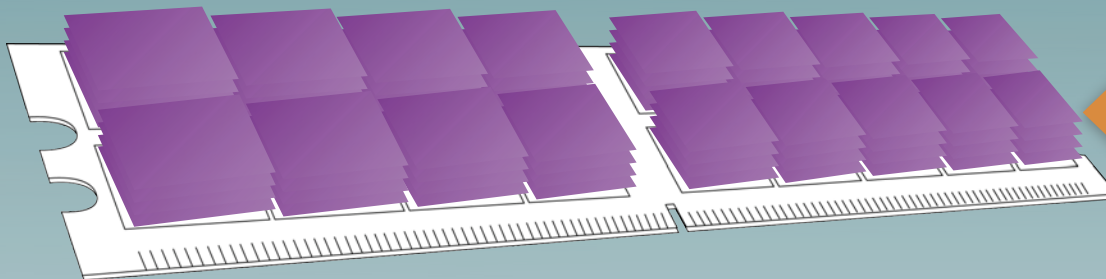
4GB
DRAM
DIMM



10 watts power*

8x Capacity
10x Reliability

32GB
Spansion®
EcoRAM™
DIMM



10 watts power*

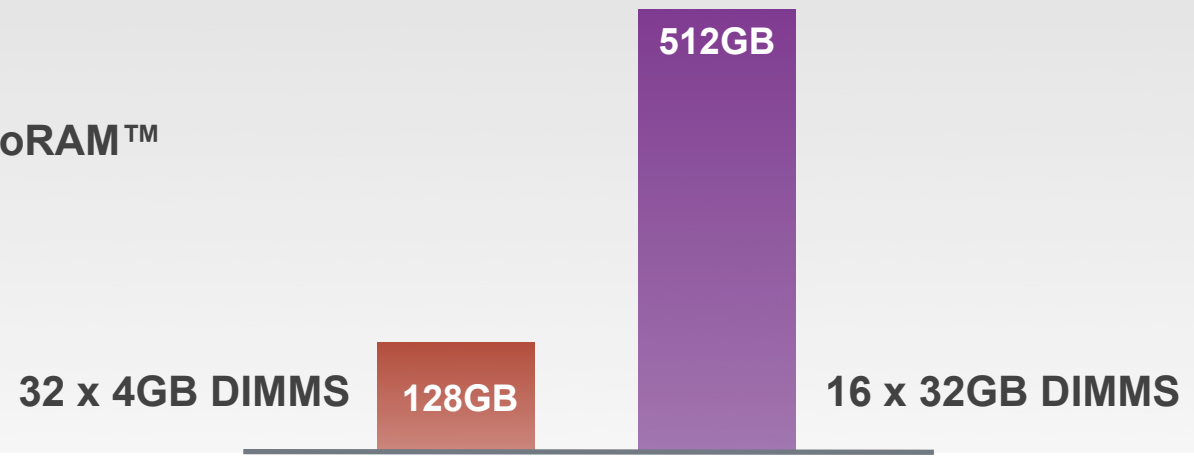
* Average DIMM power consumption

Lower Memory Power: Enables 4:1 Server Consolidation



Memory per Server

■ Spansion® EcoRAM™
■ DRAM



0.5TB

0.5TB

Conventional
DRAM-only
Servers



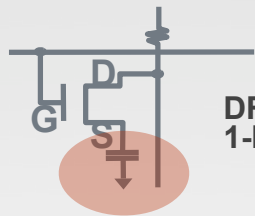
Spansion® EcoRAM™ +
Virident GreenGateway™
based Server

Source: Spansion estimates

Roadmaps



DIMM

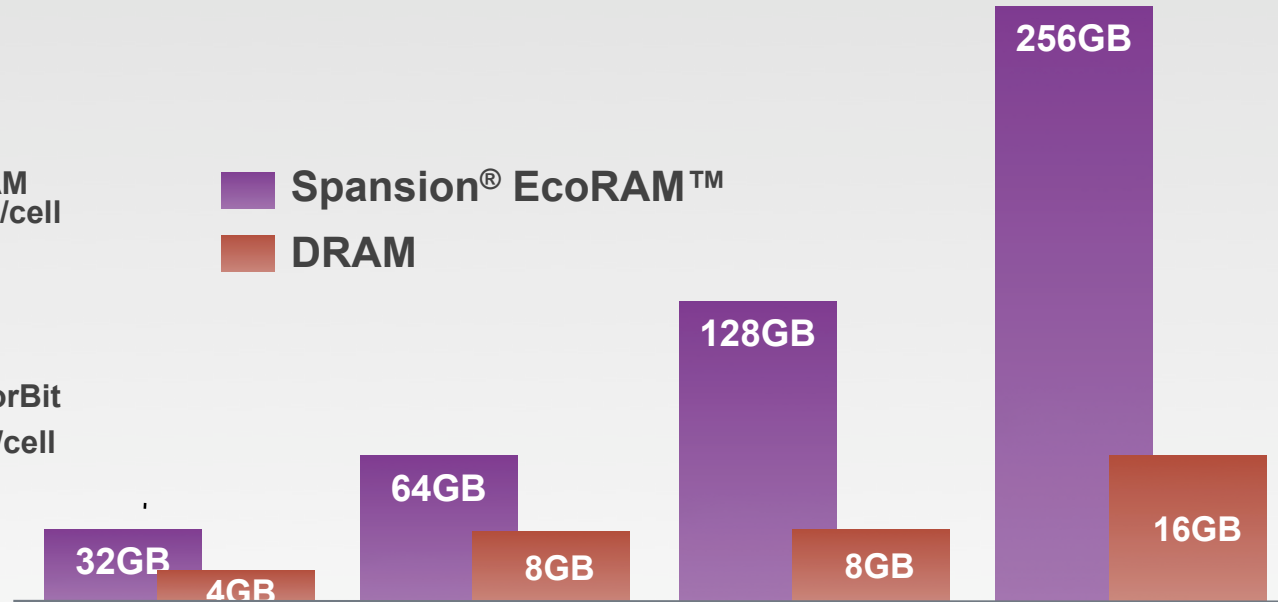


DRAM
1-bit/cell



MirrorBit
2-bit/cell

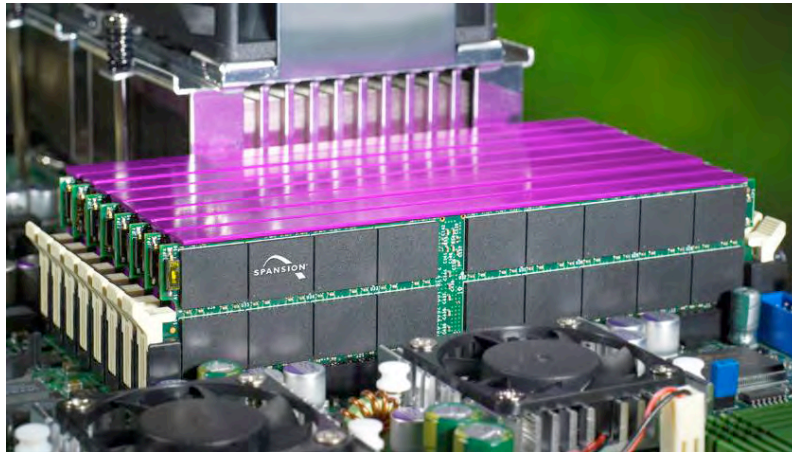
SpanSION® EcoRAM™
DRAM



SpanSION EcoRAM Die	2008	2009	2010	2012
Technology	65nm	45nm	32nm	22nm
Memory Size	2Gb	4Gb	8Gb	16Gb
DIMM Size	32GB	64GB	128GB	256GB

Source: Spansion estimates

About Spansion Inc.



Spansion is the largest company in the world exclusively focused on Flash memory solutions. Flash memory can be found in nearly every electronic device – in cell phones, cars, printers, networking equipment, set-top boxes, high-definition TVs, games and other consumer electronics. As people continue to demand more multimedia content in their homes, at work and on the go, and as electronic products become increasingly

complex, the amount of Flash memory in electronic devices will continue to grow.

With a primary focus on the integrated Flash memory market, our solutions are incorporated into electronic products from Original Equipment Manufacturers (OEMs), including the top ten handset, consumer electronics and automotive OEMs around the world.

Spansion, publicly traded on NASDAQ [SPSN], was previously a joint venture of AMD and Fujitsu and draws upon a rich history of technological innovation and market leadership that dates back to the early days of the Flash memory market. Spansion has approximately 8,900 employees around the globe focused on enabling our customers to innovate more quickly, more efficiently and more broadly.

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