



We believe that redefining the economics of Enterprise Storage helps businesses to grow and thrive

Customers will have access to technology solutions that work harder for them



Complex and costly legacy

- 1. Fixed and predictable Storage array upgrade & migration cycles
- 2. Software re-licensing required with each upgrade or usage change
- 3. Data rigidly coupled to hardware
- 4. Capacity overprovisioning required to meet SLA's
- 5. Storage not part and optimized for a broader datacenter/cloud ecosystem

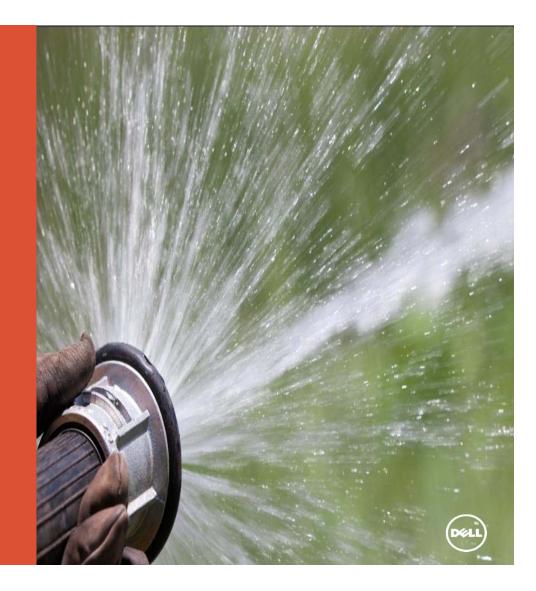
Five important Storage industry trends



1: Budgets constraints continue

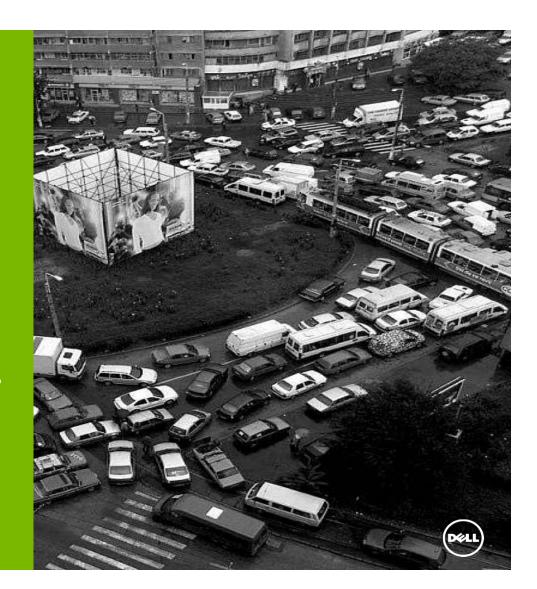


2: Growth in unstructured data

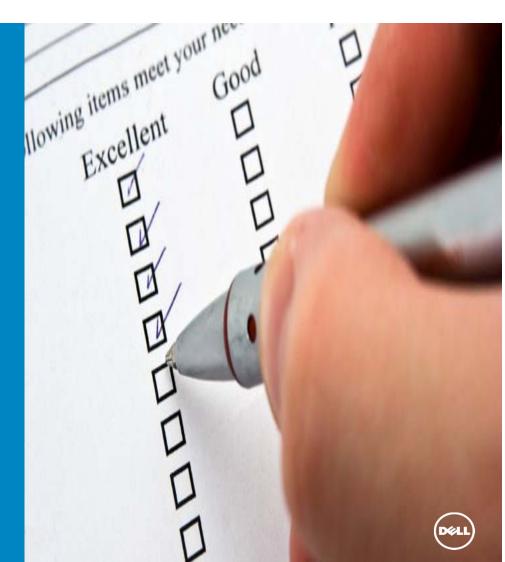


3: Technology is dramatically changing traditional storage architectures

4: Seeking to build upon virtualization for incremental efficiency

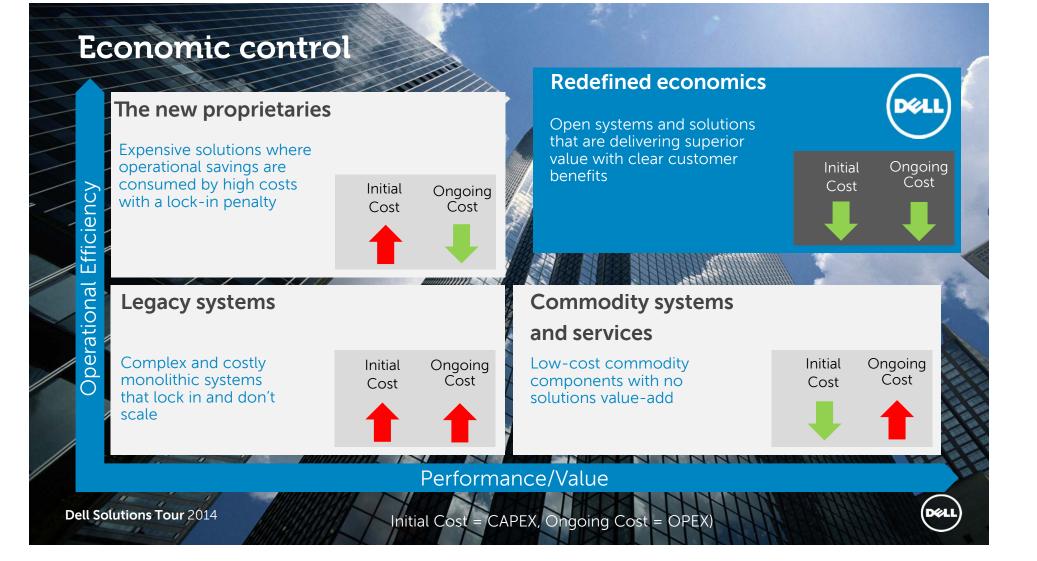


5: Need to leverage data to make better business decisions



Dell's Storage strategy removes legacy limitations and incorporate trends for clear customer benefits





Customer benefits



Acquire, deploy, and grow Storage on demand



Adapt seamlessly to changing business needs



Intelligently manage data assuring business continuity

Delivering superior value

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Dell Storage strategy



Harness **state-of-the-art** technologies to deliver **innovative**, **simple** and **affordable** solutions



Deliver **workload-driven** architectures that are **flexible** and **modular**



Accelerate **software** and **service** integration

Redefining the economics of Enterprise storage

Dell is a **committed partner** as we embarked on a journey to create a new storage foundation

Modern Storage Architectures

- Designed from the ground up to be flexible and agile
- Uncoupled from the limitations of any legacy architecture

Deep Integration

- Offering customers easy access to new, sophisticated technologies
- Deploying common technologies across a family of storage products

Design philosophy

- Easy to use
- Fully virtualized
- Intelligent tiering

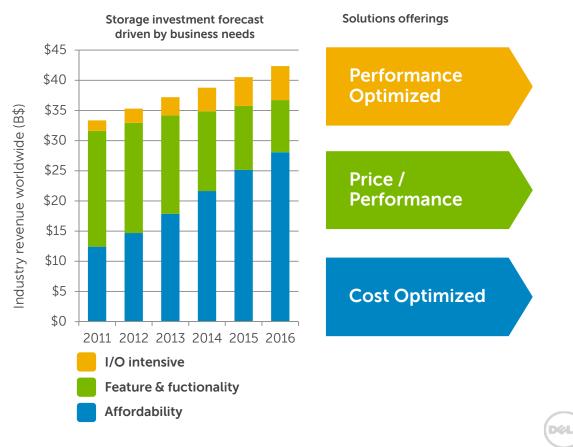
- Highly Scalable
- No forklifts upgrades
- Innovative licensing

Elaborating on the Dell Storage strategy

DELL

Harness state-ofthe-art technologies to deliver innovative, simple and affordable solutions

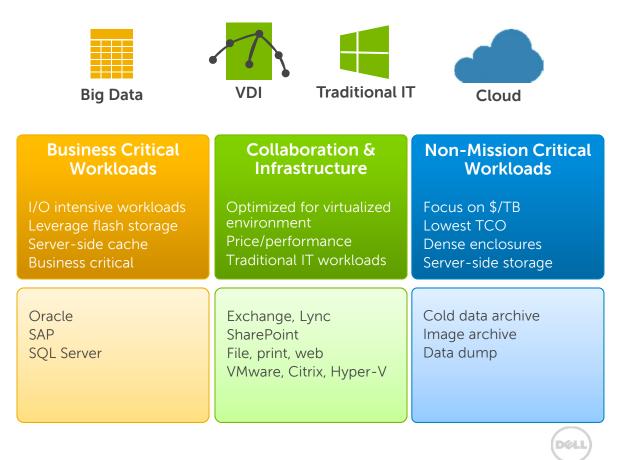
Industry storage trends are changing traditional storage architectures

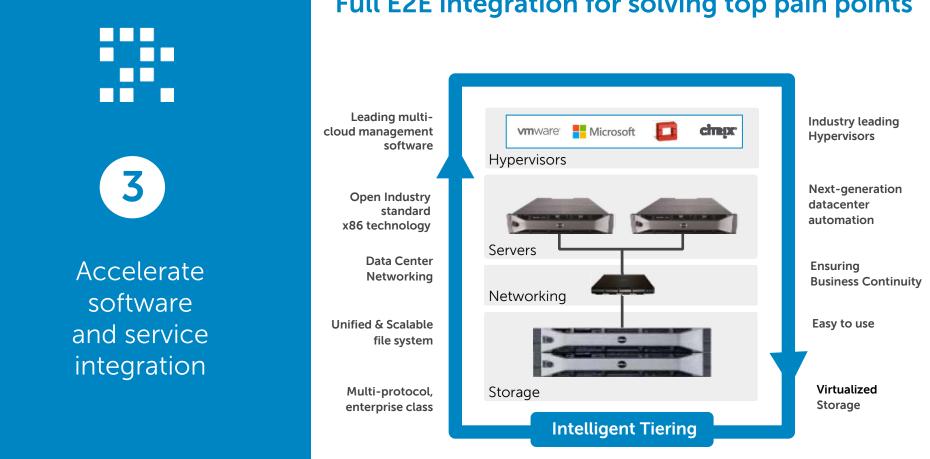


Deliver workloaddriven architectures that are flexible and modular

2

Right architecture for right workloads





Full E2E integration for solving top pain points

Dell is your most reliable Storage partner

>\$1B Storage revenue	Gartner Leader in General Purpose Disk Arrays MQ	#1 Vendor of choice for Flash
#1 iSCSI Market Leader	#1 Cloud Infrastructure provider	4.900+ Patents on granted or pending
41.000+ Service Professionals	140.000+ Channel partners worldwide	#1 Midrange Storage Arrays by Storage Magazine

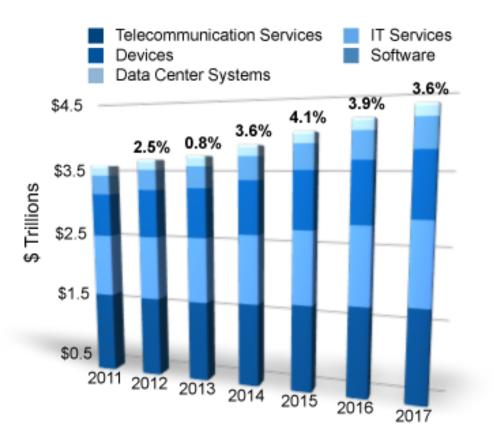
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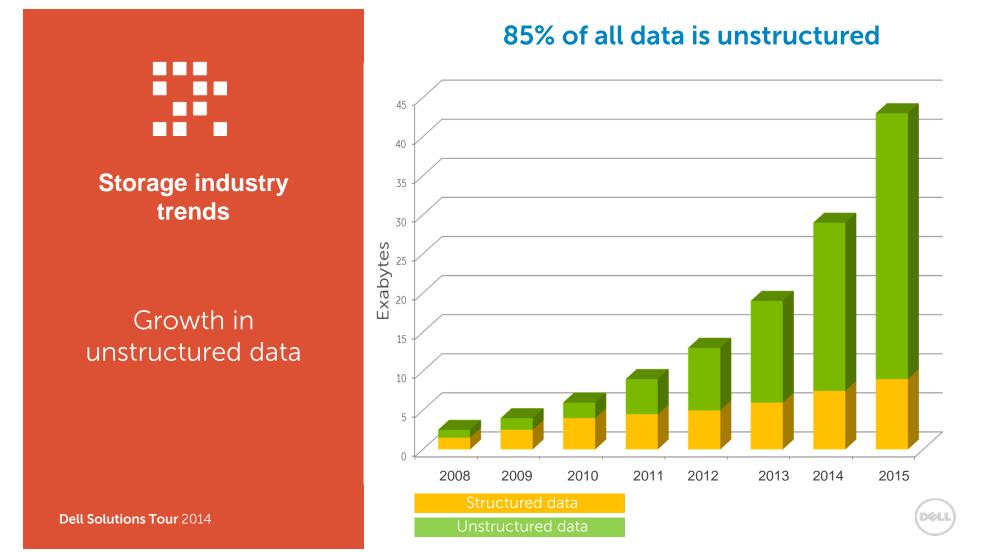


Global IT spending only grows 0.8% in 2013



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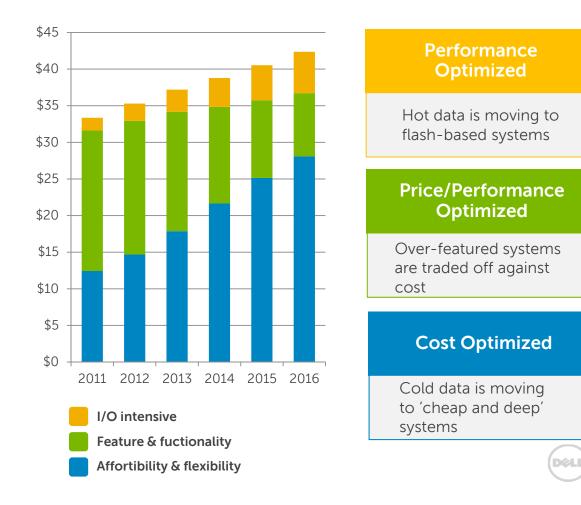


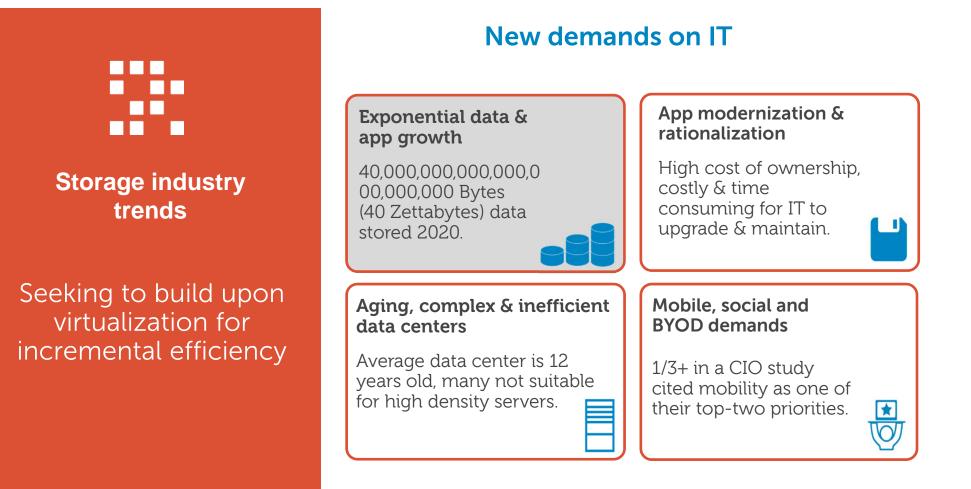
Storage industry trends

Technology dramatically changing traditional storage architectures

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Storage technology market mix shift





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Many data sources might hold valuable information to run business better



Social & Sensor Data

- Facebook, Twitter, LinkedIn
- RFID, cell phone, temp sensor, etc.
- Multiple formats and different speeds of data creation
- Exponential growth

Databases

- Structured data
- Transactional apps
- Moderate growth



File Data

- Documents, images, videos, etc.
- Multiple formats
- Fast growth

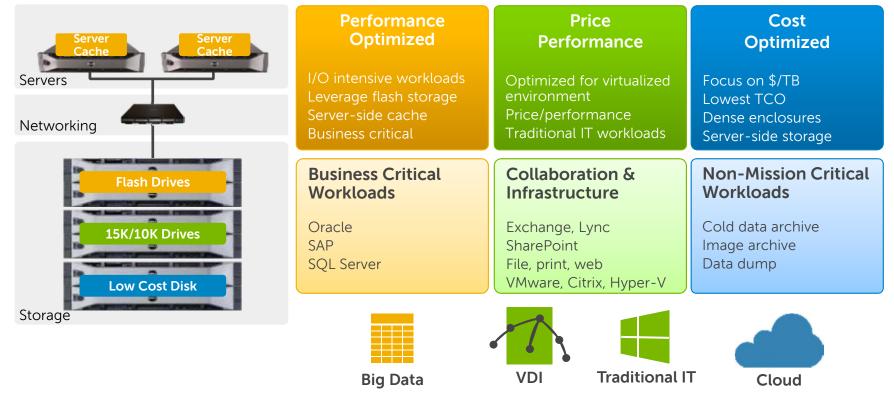


Big industry Industry Storage trends Dell strategy for best Optimized solutions that themes workload-driven are changing traditional deliver superior customer value storage architectures architectures \$45 High **Performance Optimized** Dell \$40 performance SC, FS Hot data is moving to storage Series \$35 flash-based systems Adapt seamlessly to changing business needs Big Data / Best for Business Critical \$30 Data Insights Workloads Flash at the price of disk \$25 **Price/Performance** Easy-to-use Dell \$20 Optimized virtualized PS, FS **Over-featured systems are** VDI storage Series \$15 traded off against cost Great for Collaboration & Acquire, deploy, and grow on demand \$10 Peers scaling with application integration Infrastructures Traditional IT \$5 Affordable, Dell \$0 **Cost Optimized** entry level MD, NX, DL, 2011 2012 2013 2014 2015 2016 Cold data is moving to 'cheap storage **DR Series** I/O intensive and deep' systems Cloud Intelligently manage data, business continuity Ideal for non-Mission Feature & fuctionality High density & Software defined Storage Critical Workloads Affortibility

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Dell's Next Generation storage architecture Best of 3 worlds in one single end-to-end architecture!



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Elaborating on the Dell Storage design philosophy

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Dell's Storage design philosophy

Easy to use

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Enterprise power with everyday simplicity

Streamlines management

Management costs associated with comparable vendors are up to **60% more affordable** with Dell Storage

Integrates easily

Approximately 89% of Dell Storage customers use their arrays in virtualized environments

- Enterprise features that IT generalists can use
- Designed to scale performance and capacity linearly without disruption
- Automation to optimize resources and performance

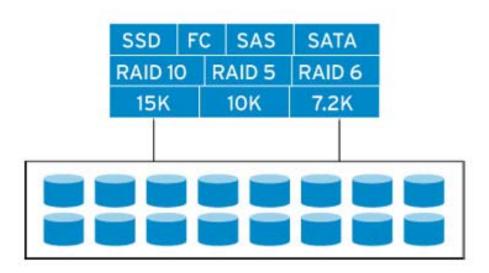
- Tight integration with common application environments
- Environment flexibility that allows mix-and-match arrays to build tiered storage
- Designed to support virtualization

Dell's Storage design philosophy

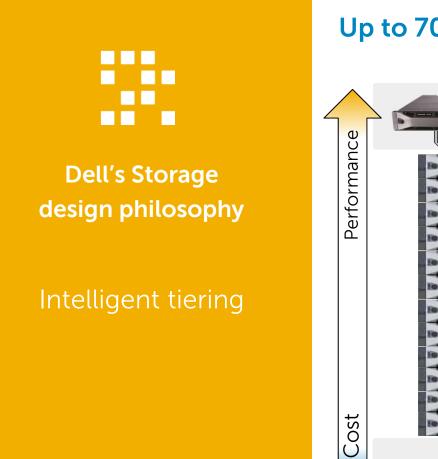
Fully virtualized

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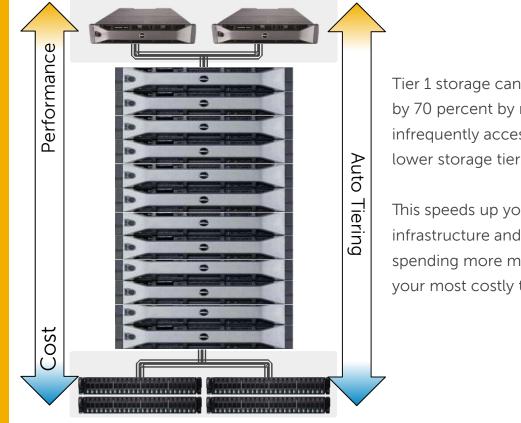
Reduce storage costs up to 80 percent



Dell Storage virtualization complements any leading virtualization environment. Storage is presented to Virtual Machines as a single, virtualized pool of capacity, regardless of disk type, RAID level or server connectivity. This can help you can optimize efficiency, agility and resiliency.



Up to 70% reduction of tier-1 Storage capacity



Tier 1 storage can be reduced by 70 percent by moving infrequently accessed data to lower storage tiers.

This speeds up your infrastructure and eliminates spending more money in your most costly tier

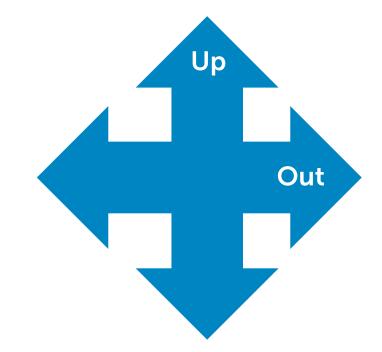
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Dell's Storage design philosophy

Highly Scalable

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Removing barriers to grow

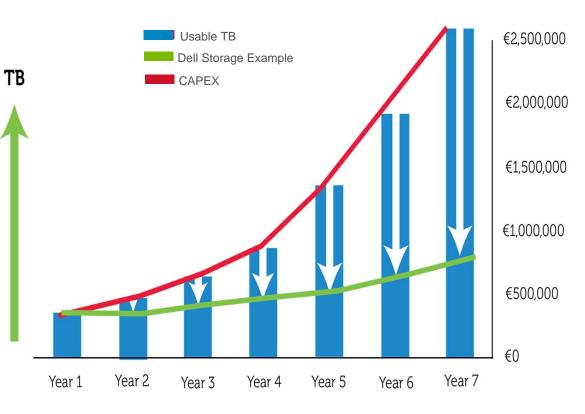


Dell allows you to purchase only the storage you need when you need it, knowing you can grow your infrastructure with your needs. Through Scale-out and Scale-up architectural designs we offer linear capacity and performance scaling for any business.

Dell's Storage design philosophy

No forklifts upgrades

The architecture that saves money over time



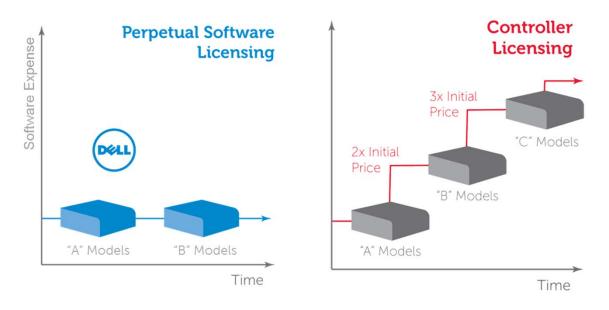
Eliminating fork lift upgrades has a tremendous positive impact on capital and operating expenses.

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Dell's Storage design philosophy

Innovative licensing

No hidden cost on software licensing



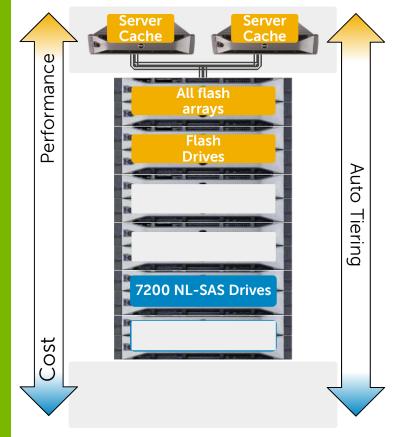
All-inclusive & perpetual software licensing is eliminating hidden cost by making software all-inclusive lets your data grow without the need for extra software licensing

Explaining the power of Dell Storage technology

Performance optimized storage architectures

A single architecture serving customer who need high performance Storage solutions

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Dell Delivers:

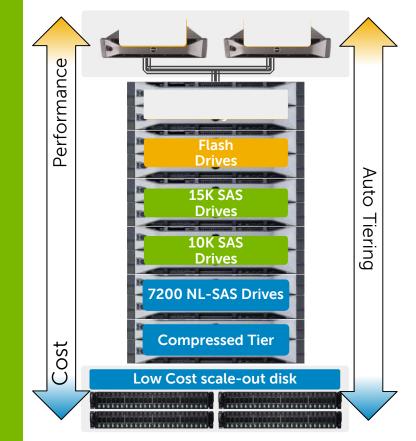
- High performance through full Flash technology
- End-to-end Storage architecture that includes Server based cache (vSAN)
- Single, simple but powerful management framework

Storing the right data, at the right place, at the right time for the right cost

Price/Performance optimized storage architectures

A single architecture serving customer who want to balance performance and technology

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Dell Delivers:

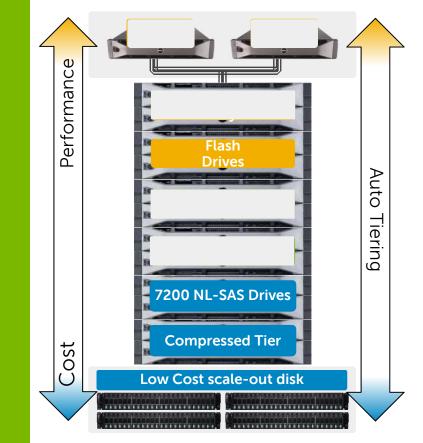
- Best performing configurations for highly virtualized environments
- Fast deployments through automated setups
- Ready for full Unified
 Storage implementations

Storing the right data, at the right place, at the right time for the right cost

Cost optimized storage architectures

A single architecture serving customer who need the right balance between technology and performance

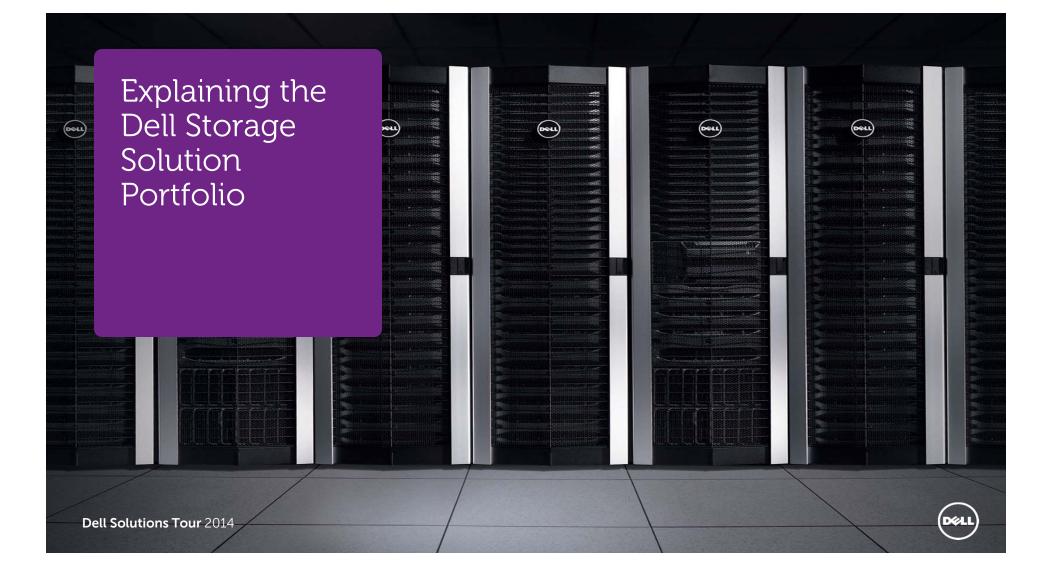
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Storage offering that accelerate your business



Big Data / Data Insights



Flash at the Price of Disk

Flash: 56% lower cost with 90% latency reduction

Flexible Form-Factors

Double the useable capacity of competitive solutions

Optimized for Virtualization

Industry leading VMware vSphere & Hyper-V certified server and storage solutions

Dense Enclosures

Highest capacity footprint in the market through ultra high dense enclosures









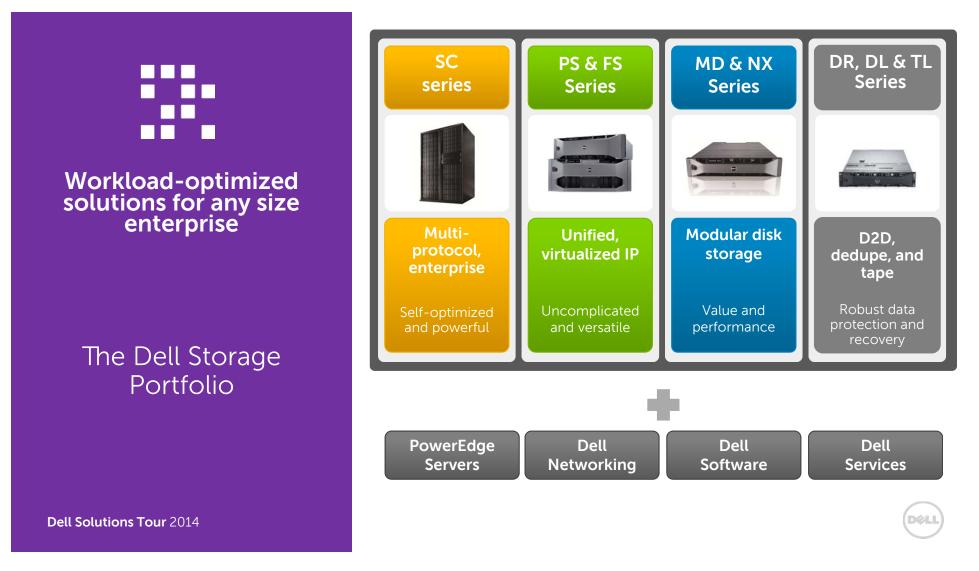
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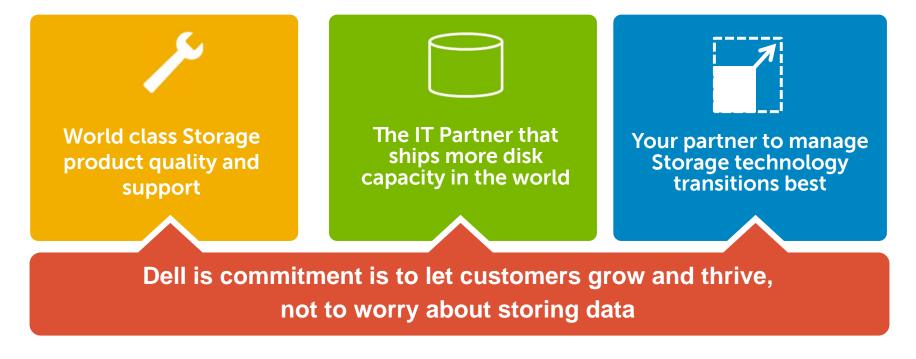
Dell portfolio differentiation







Dell is **your partner** on Storage as we serve your business best



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Our strategy in action -Flash for the price of disk

Redefining the Economics of Enterprise Storage

- 56% lower cost on disk
- 90% latency reduction
- 75% lower cost versus the competition
 - Dell moves hot data to Flash with industry's first MLC/SLC intelligent tiering
 - It improves performance for dataintensive applications and OLTP workloads
 - It gives you the best performance at lowest cost



Why Dell Storage?

Innovating technology like from a start-up

Provided by the largest Cloud builder in the world

Serviced by a Global leading IT company



Customers should not worry about building the ship, but about sailing to the right destination

Redefining the economics of Enterprise Storage



The power to do more