

#### Software Defined Storage: Moving Beyond the Hype Greg Scott Director Software Defined Storage Intel Corporation











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### Data Explosion:

From 2013 to 2020, the Digital Universe Will Grow by a Factor of 10, from 4.4 ZB to 44 ZB





### Slow Response to New Demands

# Internal Resource Resources Requests

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### Cloud Readiness





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Doubles Every 20 Months

50%

Utilization



200

LOCK IN

and a



3





# Real World Example

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### **Oregon State University**





**Oregon State University:** A top research university \$206,000,000,000 economic impact \$263,000,000 research funding **28,000** Students 3,500 faculty 3 campuses and 1 marine science center

15 agricultural experiment stations

5 datacenters

- 2 ocean-going research vessels
- **1** (of 2) universities in the U.S. to be a Land, Sea, Space and Sun Grant university



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#### Healthy people, healthy planet, healthy economy



Oregon State

# **Ocean Observatories:** Networked infrastructure of sensors to measure variables in the ocean and seafloor.





#### Total cost of storage



Gartner: Key IT Metrics 2014 www.gartner.com



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#### Intel and software defined storage



Oregon State

How Does Datacenter Storage Need to Change?





### **SDS** Architecture











HIGH



Risk Assessmen t



#### Recommendation

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### SDS Controller Use Case: Application Assignment



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### SDS Controller Use Case: Storage Overflow



### **SDS** Architecture - Standards





Community Top 5!

**SDS Controller** 

**Standards** 

**Reference Architectures** 

**Ecosystem** 



### This is YOUR Opportunity



**SDS Controller Standardization** 

**SDS Controller Prototype** 

Innovative Data Services

Expose your storage system value through the SDS Controller



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# Let's Work Together To Move SDS Beyond the Hype

