



Introduce Whamcloud Lustre Product – Integrated Manager for Lustre

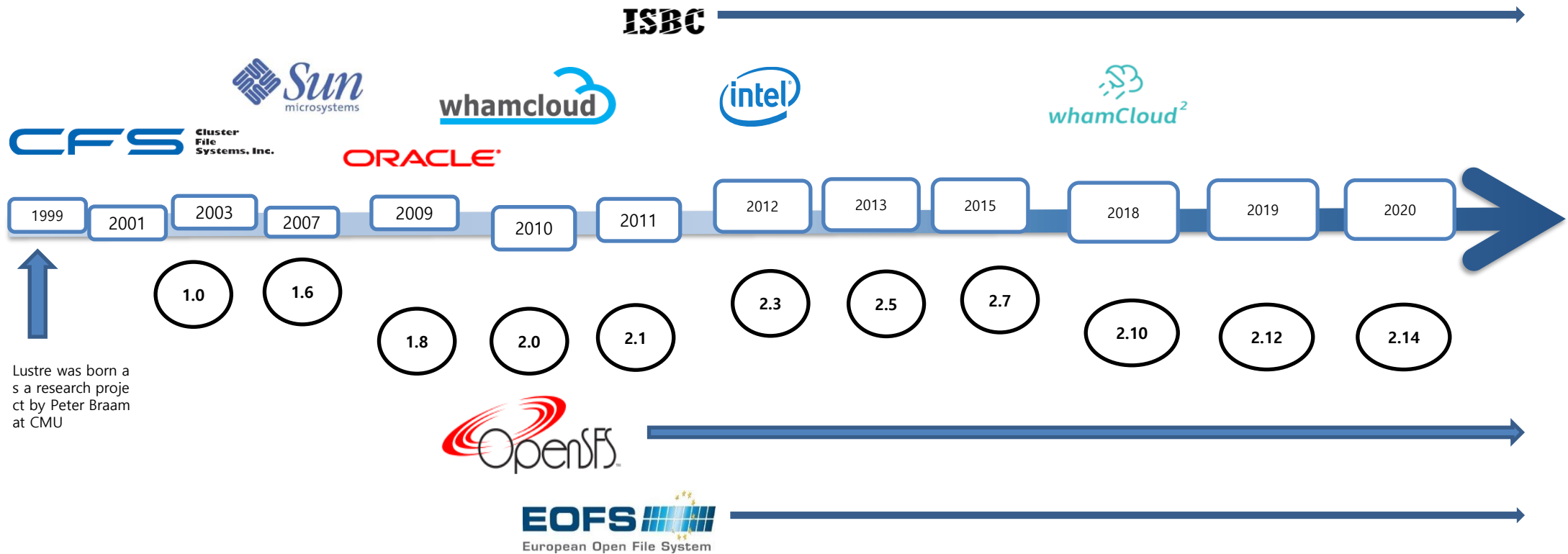
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2021-02-01

What is Lustre*

- Lustre* is an object based, open source, distributed, parallel, clustered file system
 - Runs externally from compute cluster
 - Accessed by clients over network (Ethernet, InfiniBand)
 - Up to 512 PB file system size, 32 PB per file
 - Production file systems have exceeded 2TB/sec
- Designed for maximum performance at massive scale
- POSIX compliant
- Global, shared name space
- All clients can access all data
- Very resource efficient and cost effective

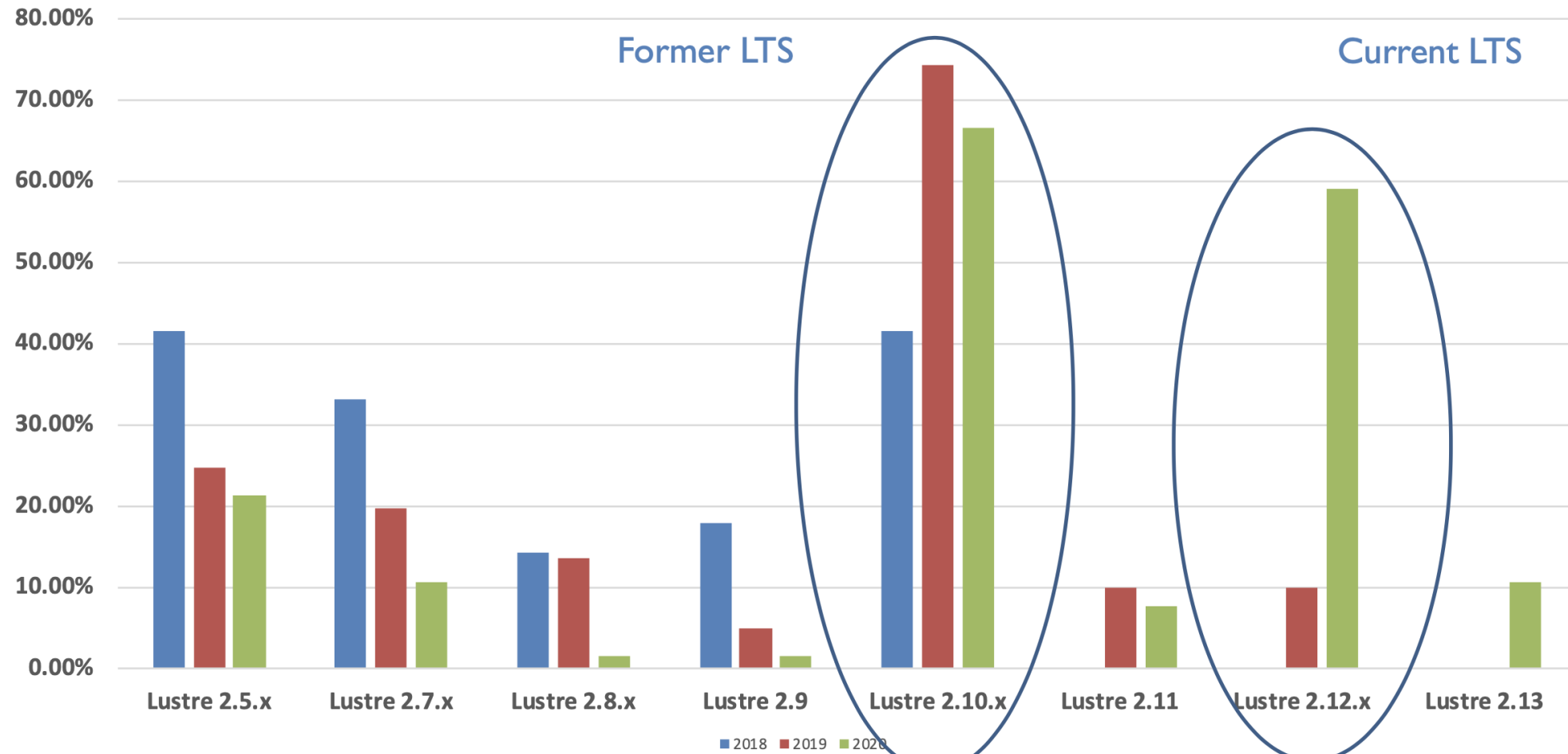
HISTORY of lustre , A journey into innovation and freedom



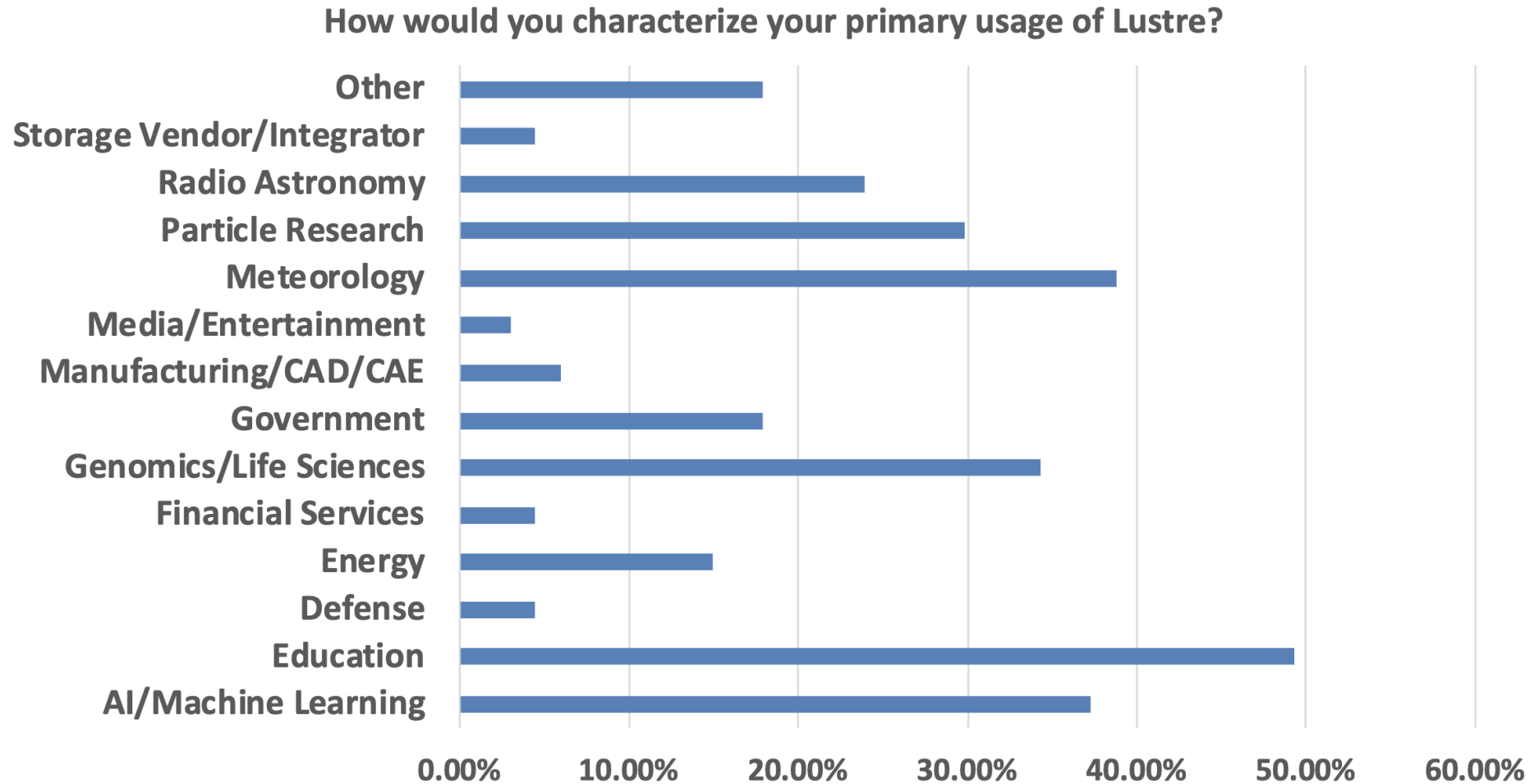
Lustre was born as a research project by Peter Braam at CMU

Lustre User Community Group Survey – Version Used 2020

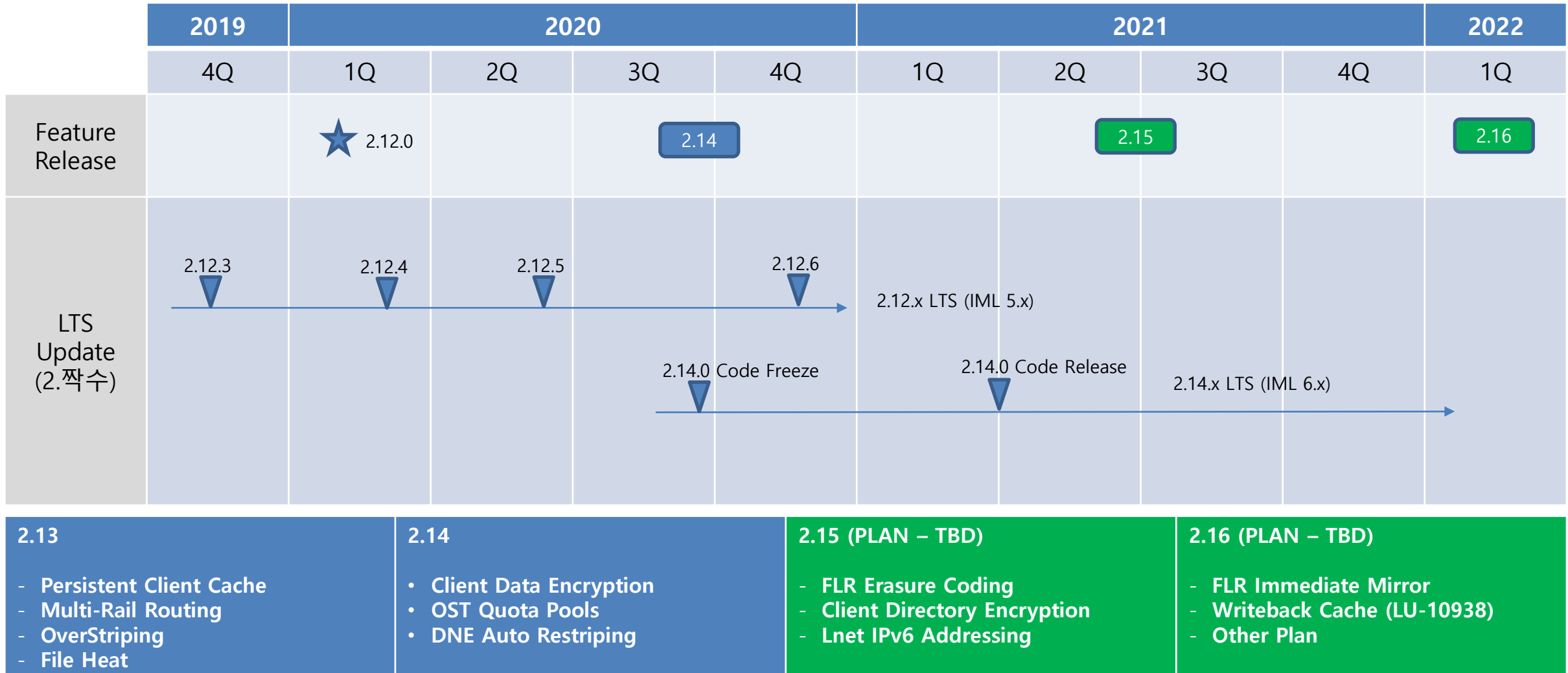
Which Lustre versions do you use in production? (select all that apply)



Lustre User Community Group Survey – Usage Reference 2020



Lustre Version Roadmap



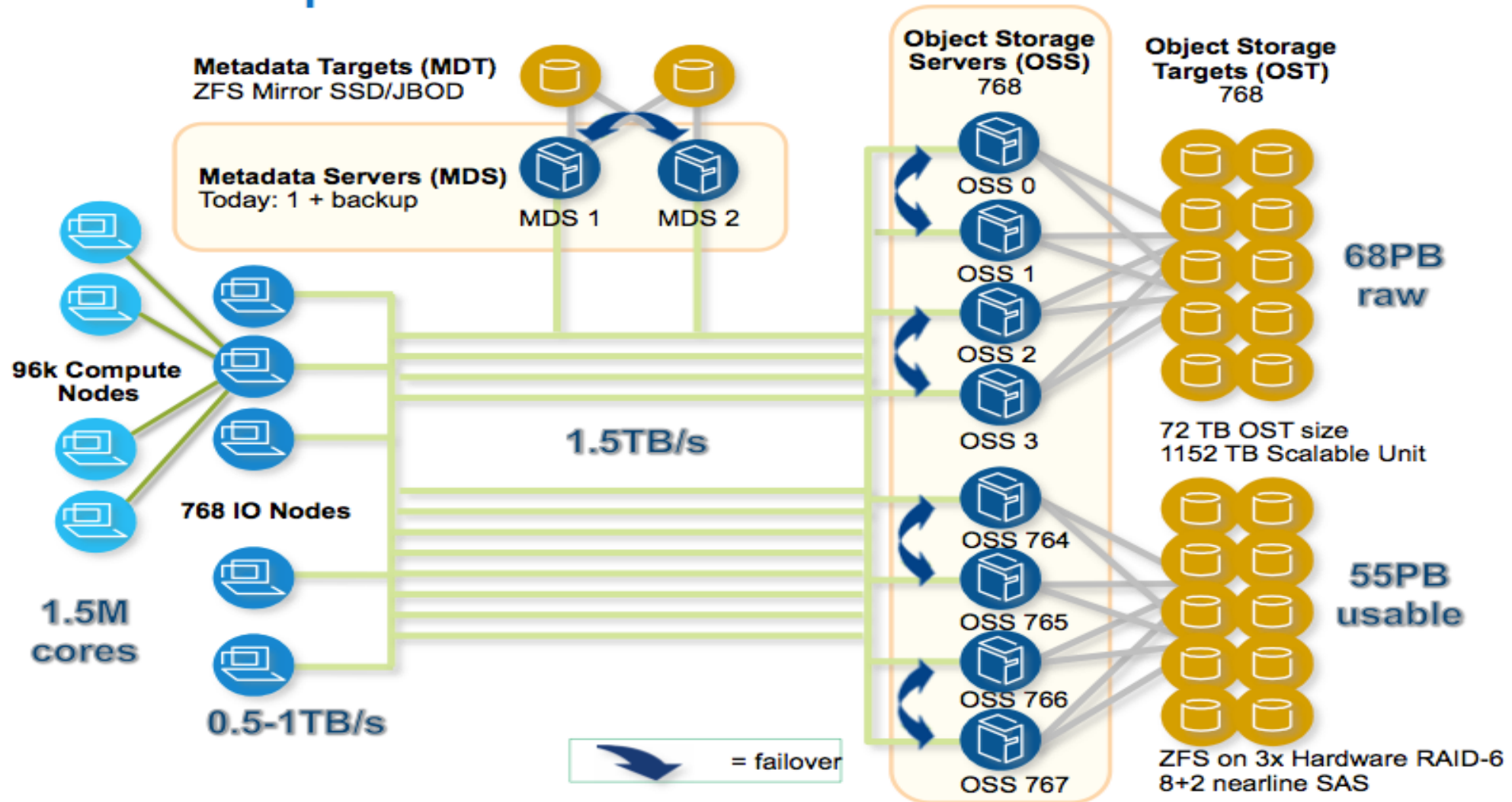
Whamcloud Lustre Version

Enterprise

HPC, commercial technical computing, and analytics

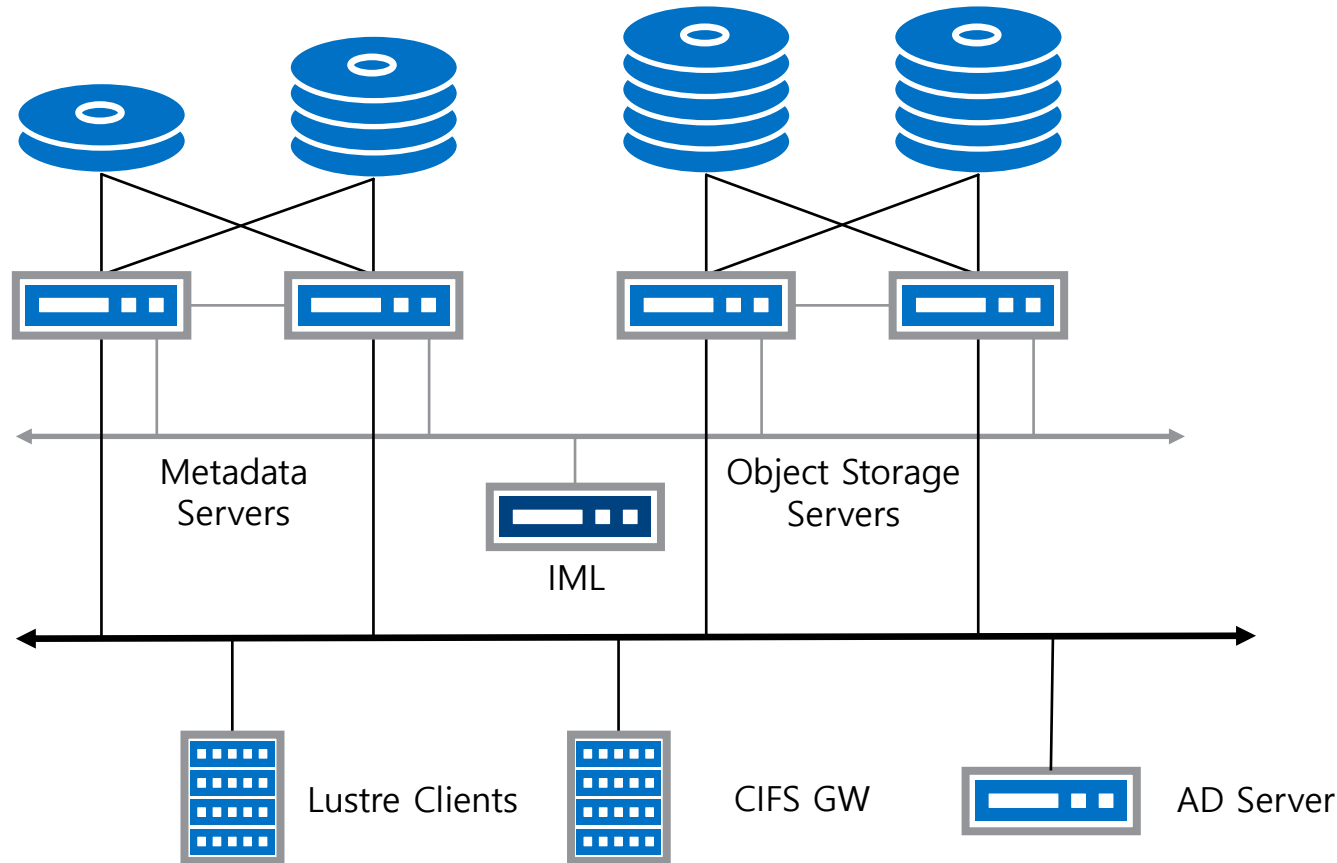
Whamcloud (IML)	OS	Lustre
V6.x	RHEL/CentOS7.9	V2.14.x
V5.0.0.0	RHEL/CentOS7.6	V2.12.x
V4.0.10.2	RHEL/CentOS7.6	V2.10.8.0
V4.0.10.1	RHEL/CentOS7.6	V2.10.7.0
V3.1.1.0	RHEL/CentOS7.3	V2.7.19.10
V2.4.2.5	RHEL/CentOS6.8	V2.5.42.23
V2.2.0.2	RHEL/CentOS6.6	V2.5.34
V2.0.1.2	RHEL/CentOS6.5	V2.5.29

LLNL Sequoia Lustre Architecture



Performance Sample Design #1

- OSS 서버 2대에, 12G SAS HBA 4장 구성
- 최소 구성

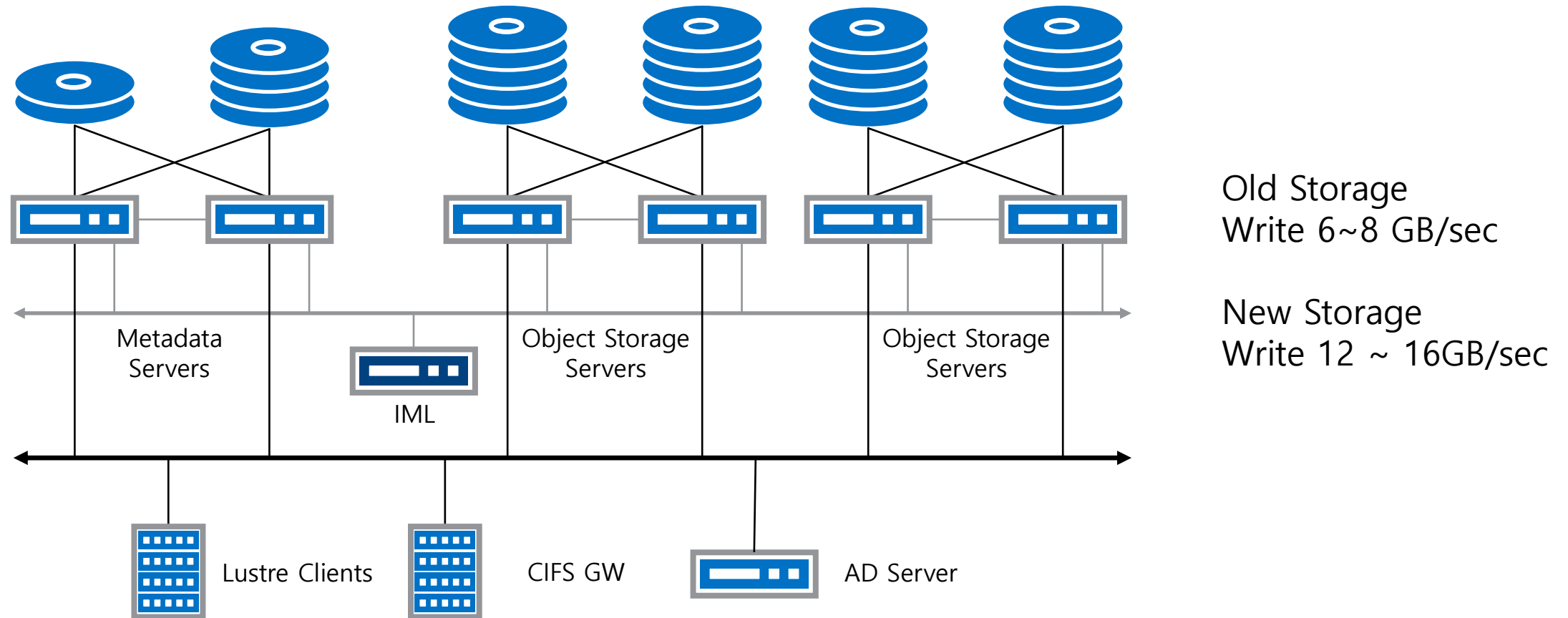


Old Storage
Write 4~5 GB/sec

New Storage
Write 6~8 GB/sec

Performance Sample Design #2

- 4 OSS , 12G SAS HBA 8EA Design
- OSS 2 + Storage Group Extension , Use Old and New Storage with Mixed Design



Key Customers in different markets are using Enterprise Lustre today



ŠKODA

