



DATA & STORAGE MATTERS FOR END USERS

Steven Tan

SODA Foundation Chairman
VP & CTO Cloud Solution - Storage, Futurewei



#sodacon202
1

sodacon

— Global 2021 — July 13-14
Data and Storage Matters

Virtual #sodacon2021



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soda
TURNS
1 YEAR OLD!





EUROPE - KubeCon Barcelona 2019



JAPAN - CloudNativeDays Tokyo 2019



INDIA - Open Source India, Bengaluru 2019



CHINA - KubeCon Shanghai 2019

YEAR



soda foundation

PREMIER MEMBERS



GENERAL MEMBERS



SUPPORTERS



ASSOCIATE MEMBERS



ALLIANCE PARTNER

con2021



“We’re eager to contribute to the SODA Foundation. The technical and community momentum is impressive, and we believe our participation can have a deep impact on the future of data storage and management, both for our customers and the industry at large,”

- Mike Moritzkat, President, Seagate Federal and Ken Claffey, Seagate SVP, Cloud Systems



SEAGATE

Seagate Federal joins SODA Foundation

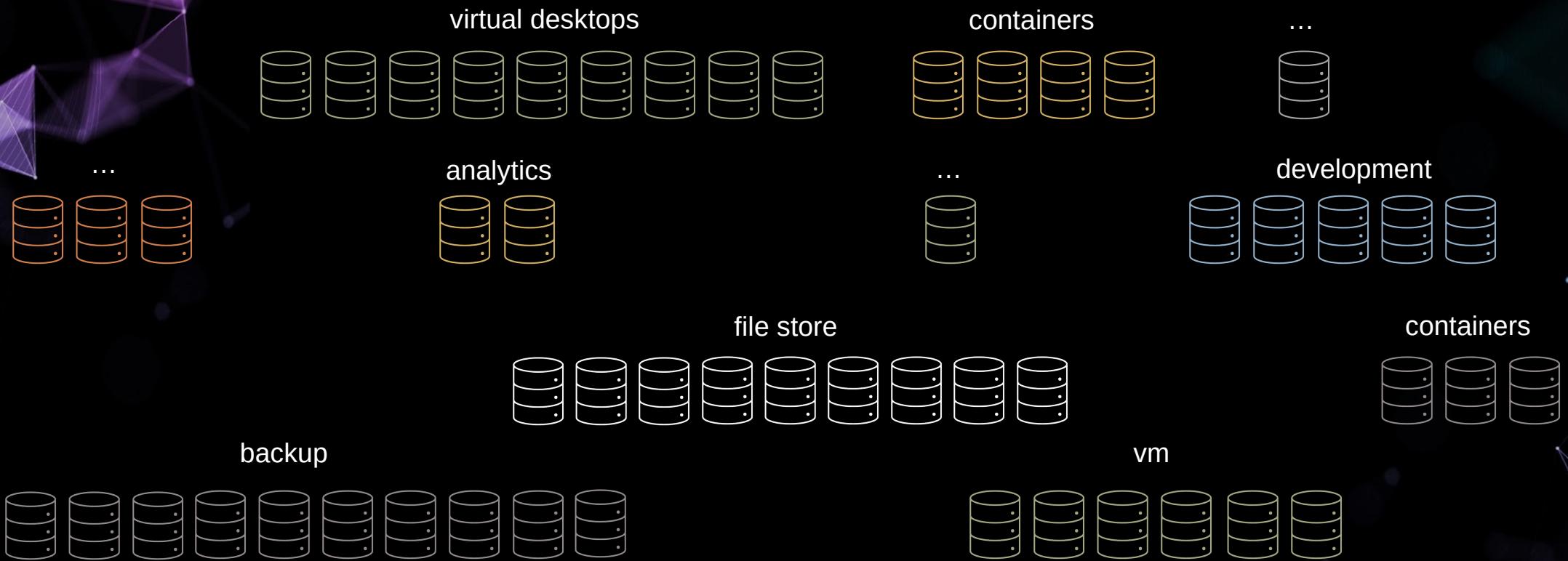


soda foundation

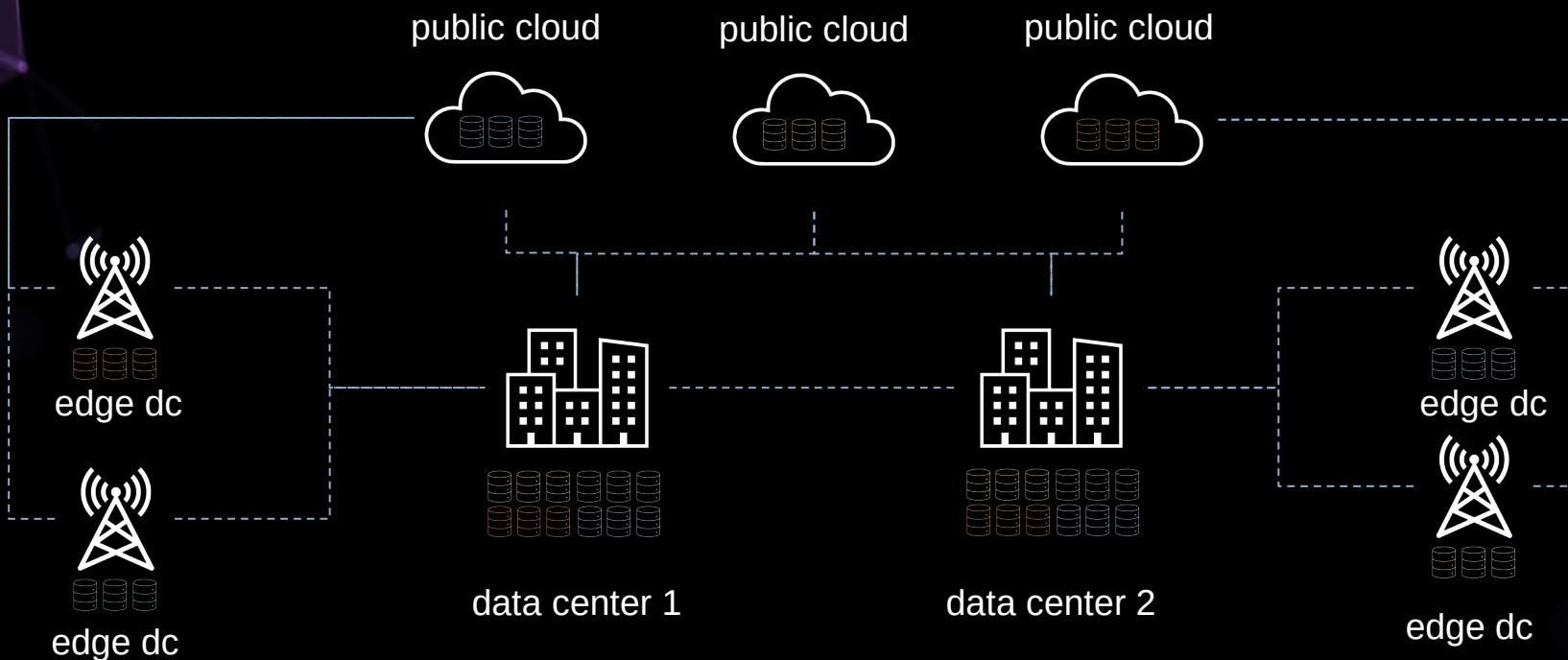


Open Infrastructure
FOUNDATION

SODA Foundation joins Open Infrastructure Foundation to advance open data & storage infrastructure
TOGETHER

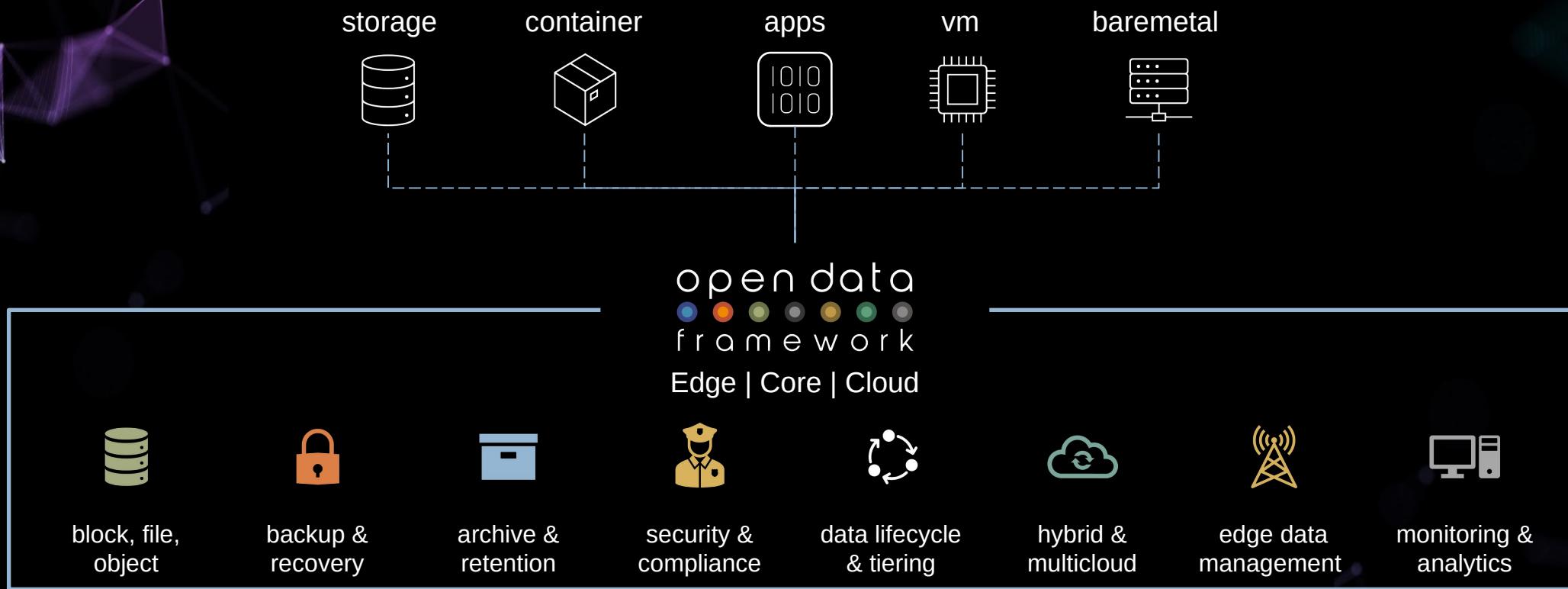


Vendor Proprietary Stacks Create Data Silos



key challenges: capacity - performance - data protection - data compliance - ...

Multi-DC, Cloud, and Edge Add To Monitor and Control Challenges



Unify Data And Storage Management With A Single Open Framework Across The Core, Cloud And Edge

OPEN SOURCE

Towards Open Data Autonomy

2017-2019
2017H2 Zealand
2018H1 Aruba
2018H2 Bali
2019H1 Capri
2019H2 Daito
2020Q1 Elba

JUL 2020

Heterogeneous Storage Management
Block/File Multi cloud
CSI Plug & Play experiment

OCT 2020

Prometheus & Kafka integration
Storage Performance Monitoring (SPM)
Multicloud object and file - AWS, Azure, GCP
CSI Plug & Play
Edge data management
NetApp ONTAP & more

JAN 2021

Performance anomaly detection
Performance visualization with Grafana
Enhanced cloud file shares for AWS, GCP, Azure, Huawei
Enhanced block AWS
More storage support - IBM SVC, HDS VSP, EMC

APR 2021

Improved storage monitoring
Monitor NAS performance
HA support with multi-cloud
Cold storage
CSI plug-n-play with more drivers
More on-prem and cloud backends

JUL 2021

Plug-in any CSI driver
Multiple CSI drivers in K8S
Container data protection (Restic)
Application consistent snapshot to cloud
Multi-cloud storage tiering
Storage performance monitoring with more metrics

OPENSDS
(PRE-SODA)

FAROE V1.0

GREENLAND V1.1

HAWAII V1.2

ISABLELA V1.3

JERBA V1.4

open data
framework

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WELCOME THE FIRST SODA ECO PROJECTS



Collaboration

Collaborate with other open source projects



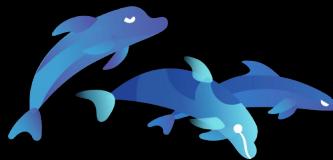
Solution

Build end-to-end solutions with ODF



Adoption

Accelerate adoption with POC's



soda eco
P R O J E C T

LIN³STOR

With native integration to Kubernetes, LINSTOR[®] makes building, running, and

 OpenEBS

OpenEBS builds on Kubernetes to enable Stateful applications to easily access Dynamic Local PVs or Replicated PVs.

 ZENKO

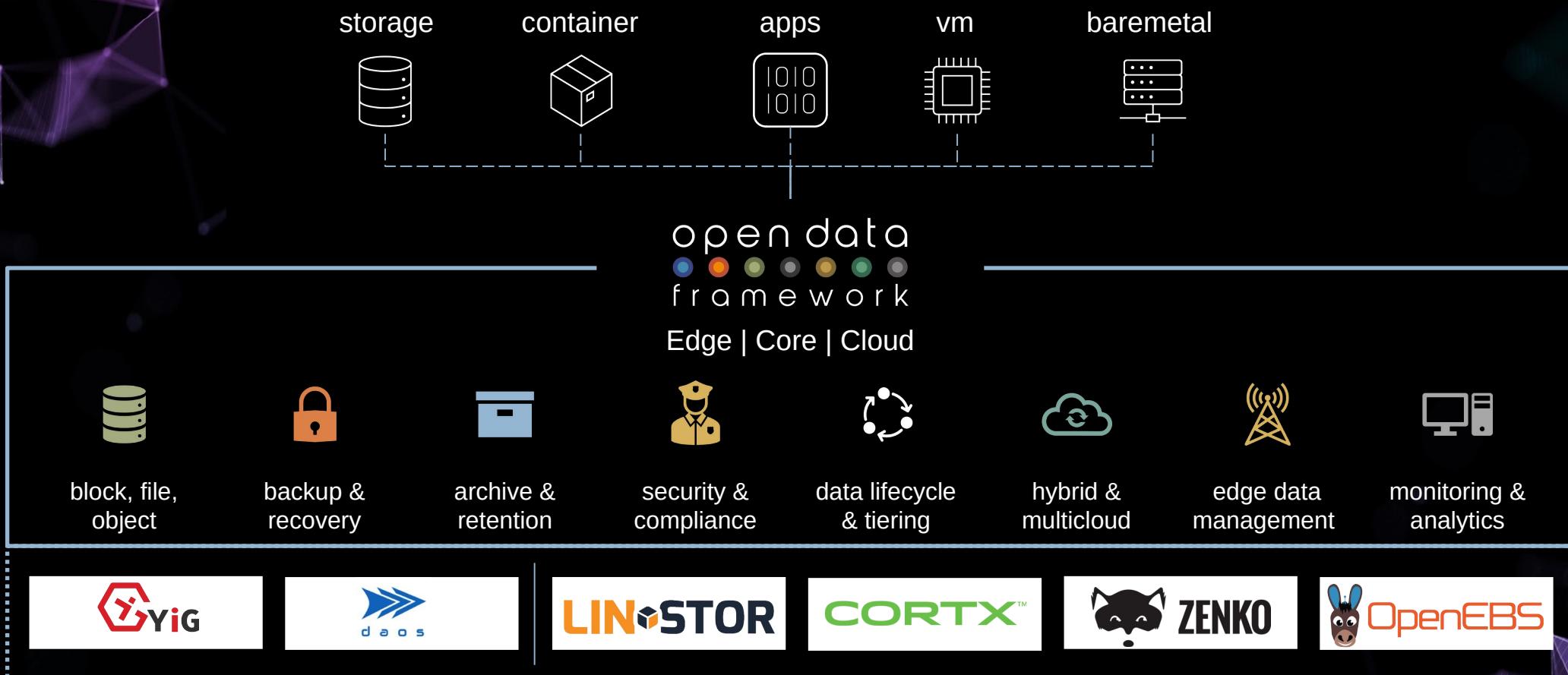
Zenko is open source infrastructure software, the most flexible way to manage your data without cloud lock-in.

CORTX™

CORTX is a distributed object storage system designed for great efficiency, massive capacity, and high HDD-utilization.

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Open Source • Open Standard • Open Ecosystem • Open Collaboration



Yuji Yazawa
Toyota Motor Corp



Cosimo Rossetti
Vodafone



Zhong Xin
CCB FINTECH



Kei Kusunoki
NTT Communications



Tomoko Kondo
Softbank



Zhan Shu
China Construction Bank Fintech



Yusuke Sato
Yahoo! JAPAN



Wim Jacobs
KPN



Michiharu Nakazawa
Sakura Internet



Mitchitaka Terada
Internet Initiative Japan



Wei Rao
China Railway



Shinya Tsunematsu
GMO Pepabo

END USER ADVISORY COMMITTEE

The background of the slide features a photograph of several dolphins swimming in clear blue ocean water. They are captured in various stages of motion, some leaping and others gliding. The water has gentle waves and white foam at the surface.

SODA Data & Storage Trends 2021 Survey

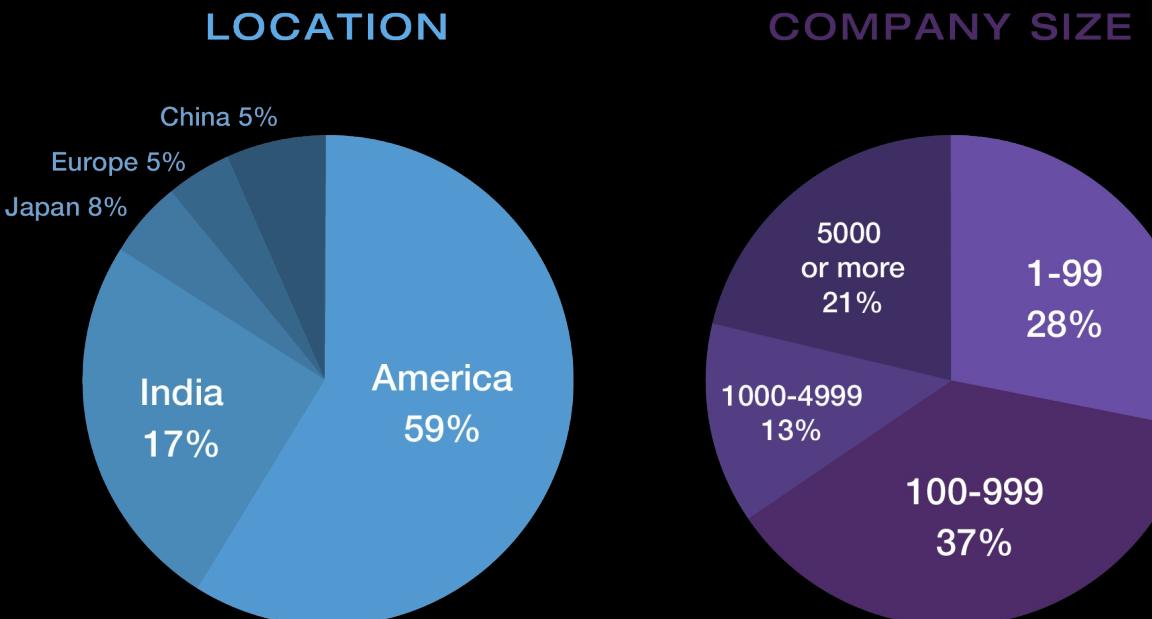
SODA Foundation &
Linux Foundation Research

SODA DATA & STORAGE TRENDS SURVEY

- Research Partner: Linux Foundation Research Team
- Survey Partners
 - Cloud Native Computing Foundation (CNCF)
 - Storage Networking Industry Association (SNIA)
 - Open Infrastructure Foundation (OIF)
 - Japan Data Storage Forum (JDSF)
 - China Open Source Cloud League (COSCL)
 - Mulan Open Source
 - Storage Performance Council (SPC)

SODA DATA & STORAGE TRENDS 2021 SURVEY

197
respondents



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1. WHICH PLATFORM DO YOU USE

 43.5%

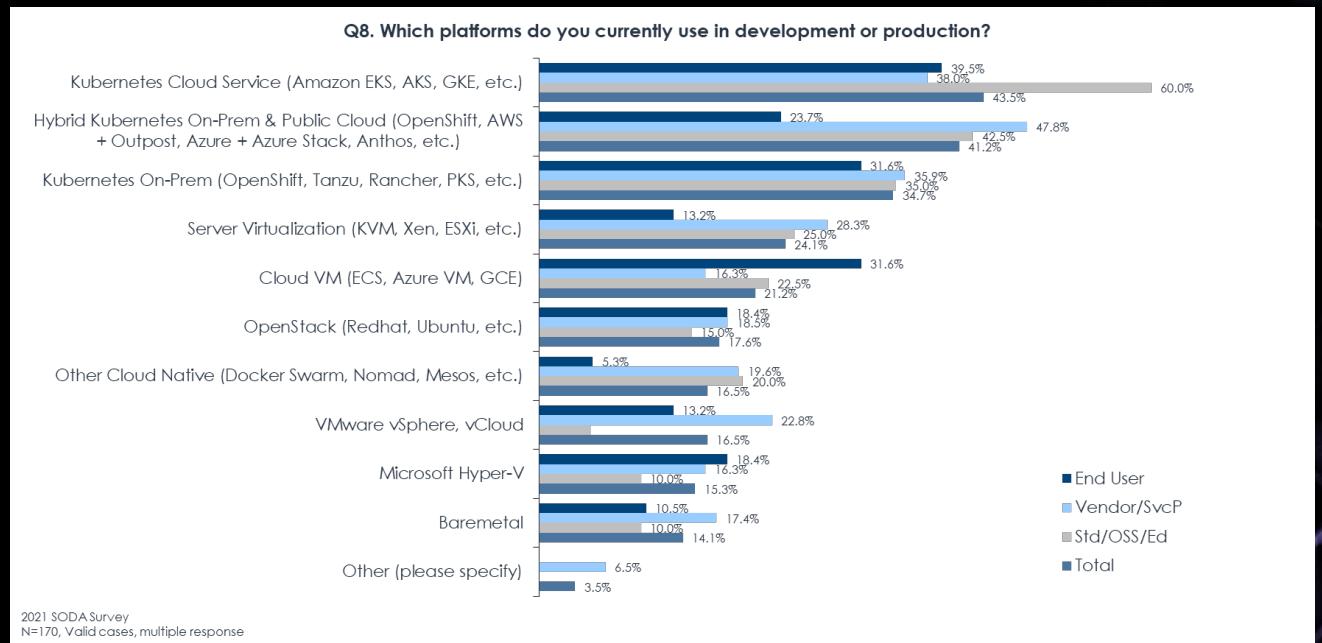
k8s cloud service

 41.2%

k8s hybrid

 34.7%

k8s on-prem

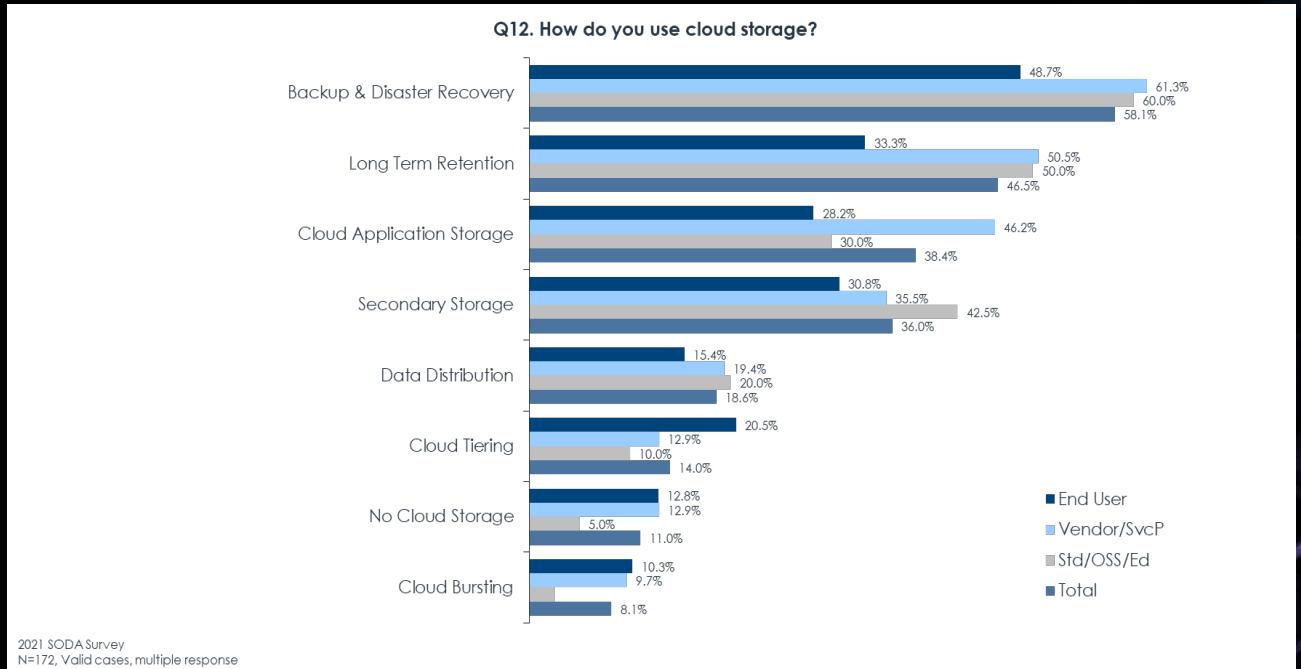


SODA DATA & STORAGE TRENDS 2021 SURVEY

2. CLOUD STORAGE FOCUSES ON BACKUP & DR

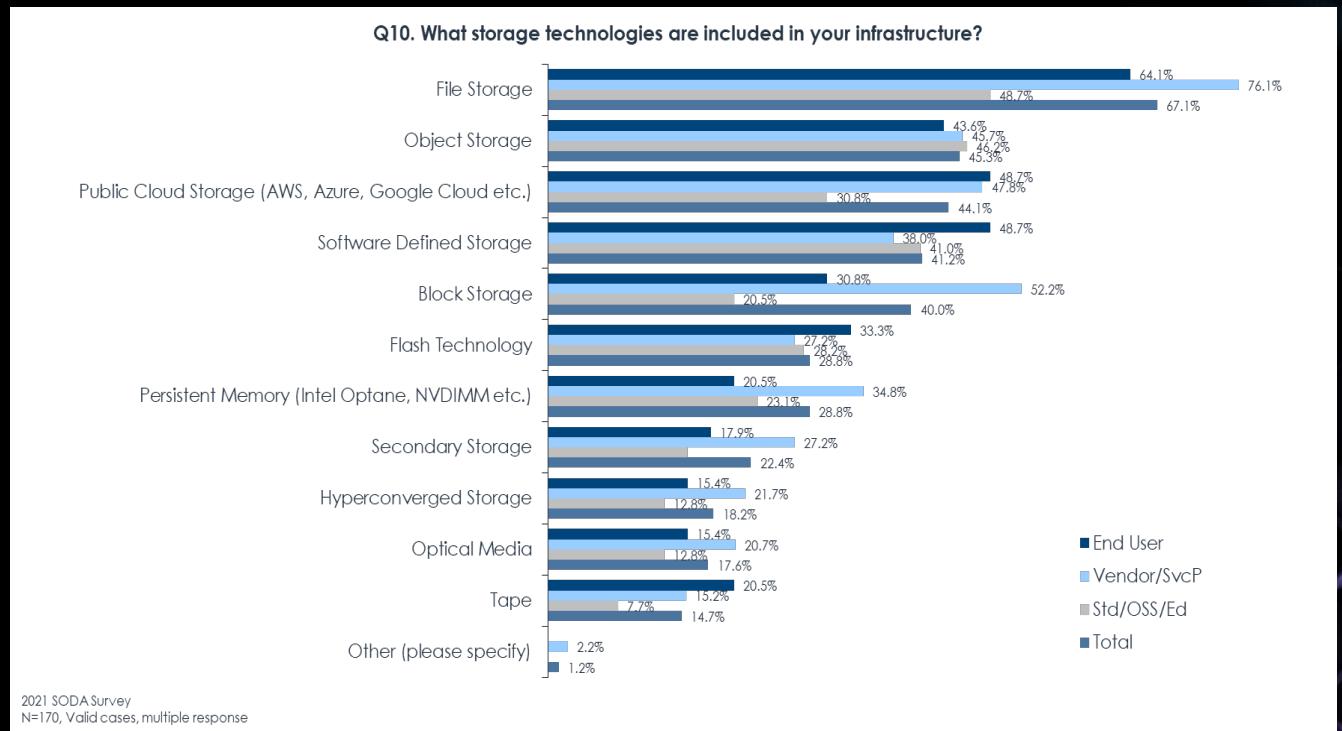
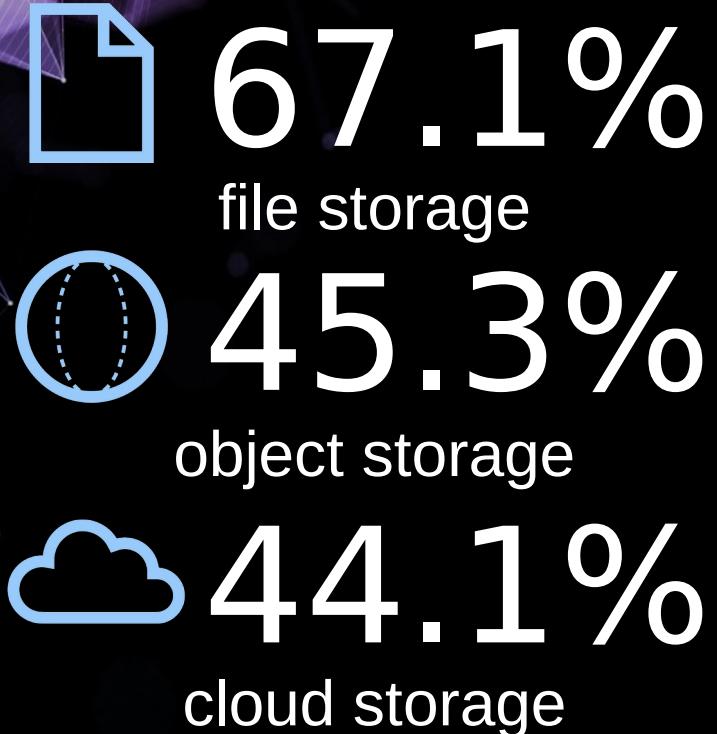
 58.1%
backup & disaster recovery

 46.5%
long term retention



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3. STORAGE TECHNOLOGIES IN USE



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4. END USERS DATA MANAGEMENT AND STORAGE STRATEGIES



87%

data security & compliance
important or very important



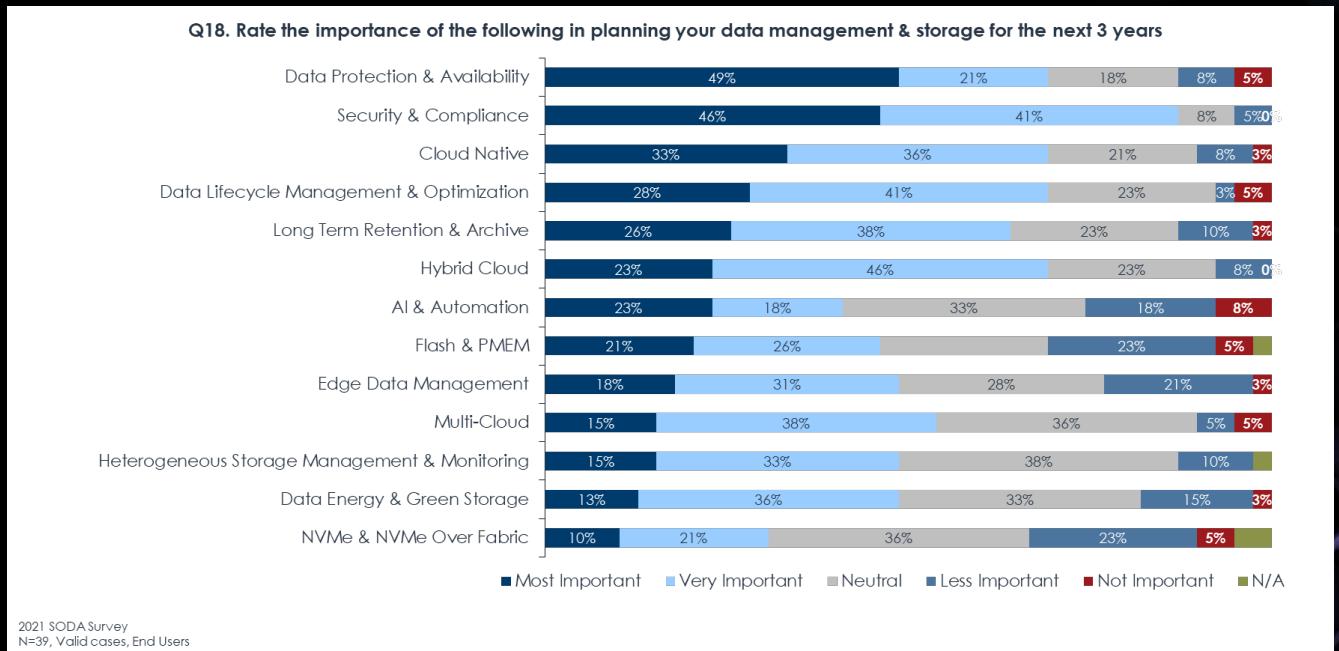
70%

data protection & availability
important or very important



70%

cloud native
important or very important



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5. END USERS OPEN SOURCE DATA & STORAGE PROJECTS USE



17.9%

end users

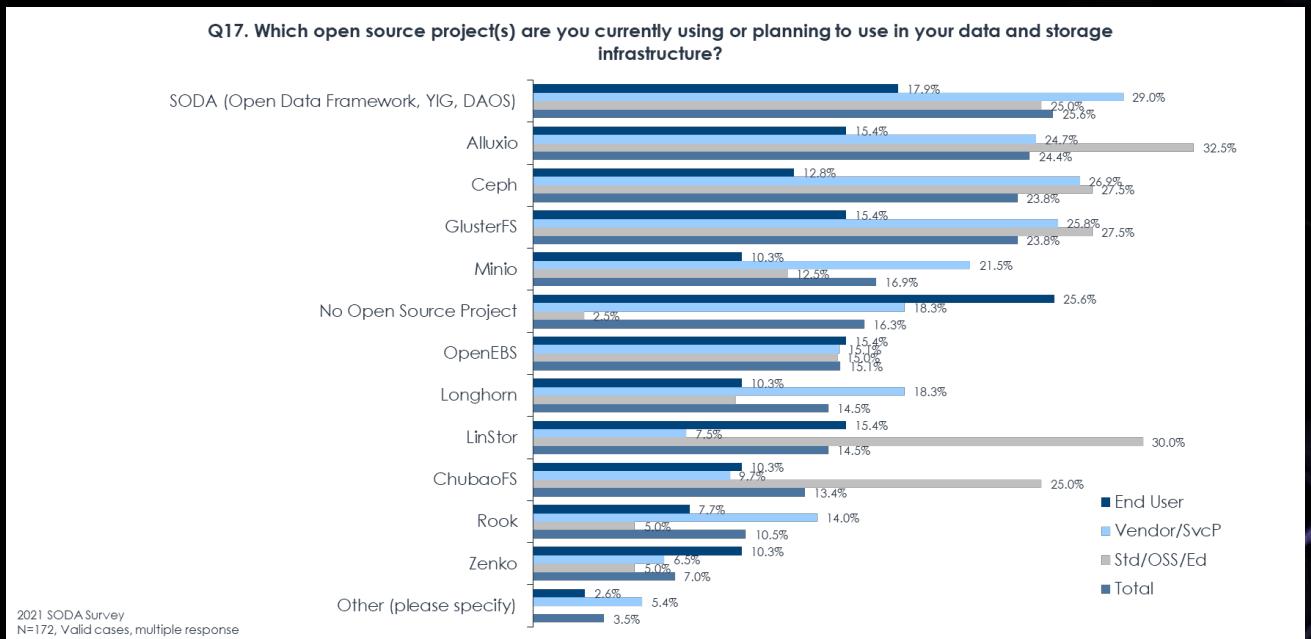
use or plan to use SODA



25.6%

end users

do not use open source



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6. END USERS TOP 3 DATA & STORAGE CHALLENGES



53.8%

storage capacity



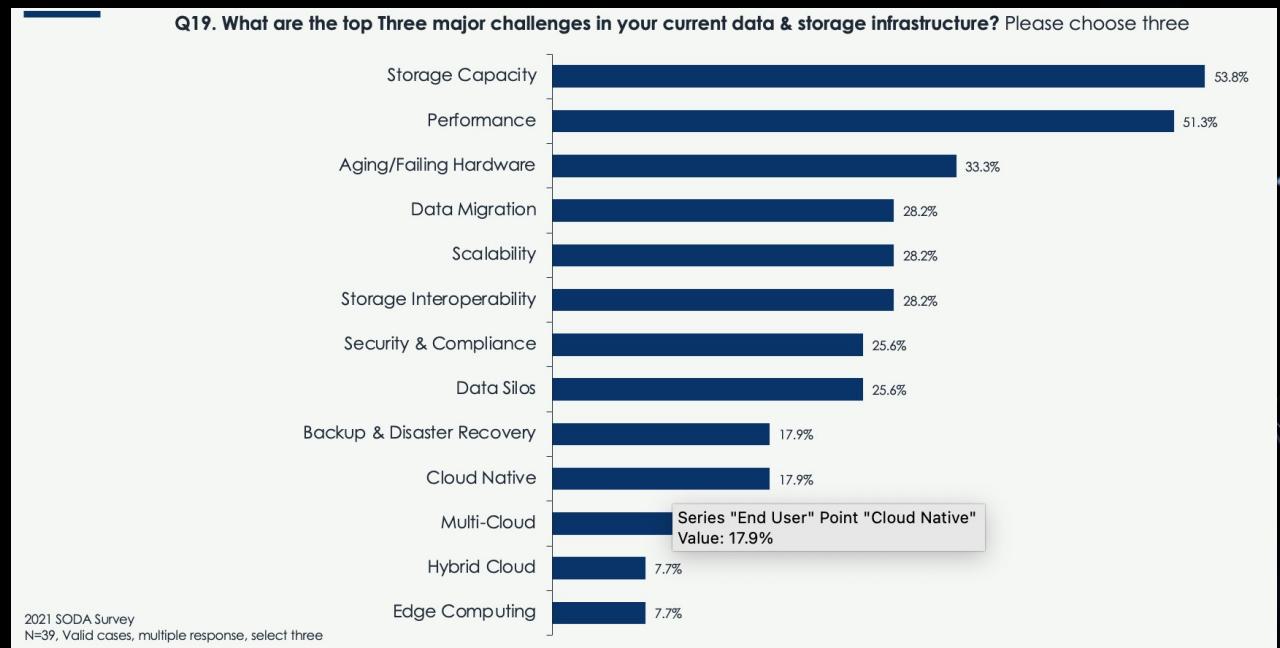
51.3%

performance



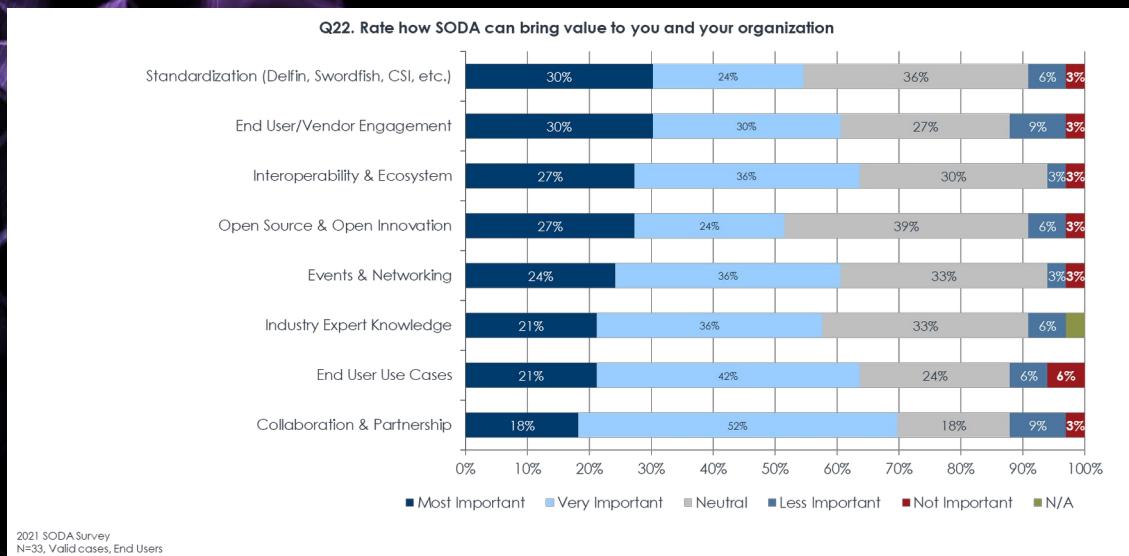
33.3%

aging/failing hardware

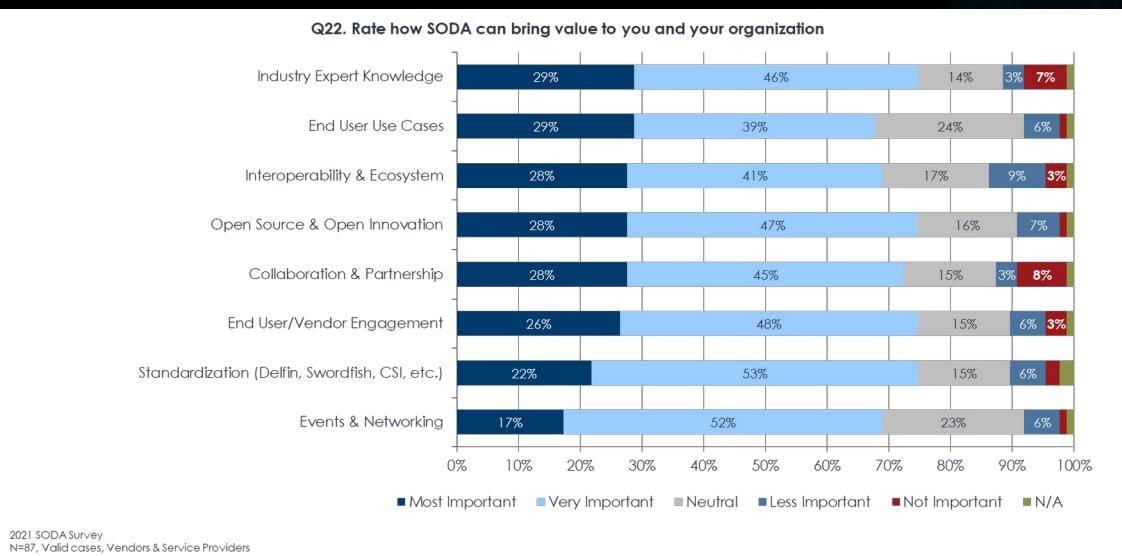


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4. HOW SODA BRINGS VALUE TO YOUR ORGANIZATION



50%-70%
end users
consider SODA activities are very important



~70%
vendors
consider SODA activities are very important

SODA DATA & STORAGE TRENDS 2021 SURVEY



TOMOKO KONDO

Director, Cloud Engineering
Softbank



JUNWEI LIU

GM, IAAS Product Division
China Mobile



KEI KUSUNOKI

Manager, Innovation Center
NTT Communications



Thank You