



Top 12 Trends in Data and Cloud Storage

Live Webinar

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Presented by SODA Foundation and SNIA Cloud Storage Technologies Initiative

Today's Presenters



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SNIA - By the Numbers

Industry Leading
Organizations



180

Active Contributing
Members



2,500

IT End Users &
Storage Pros
Worldwide



50,000

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Agenda



- About SODA Foundation
- Data and Storage Trends 2022 Report Methodology
- Key Findings
- How to Get Involved

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What is SODA Foundation?

Open Ecosystem for Data & Storage

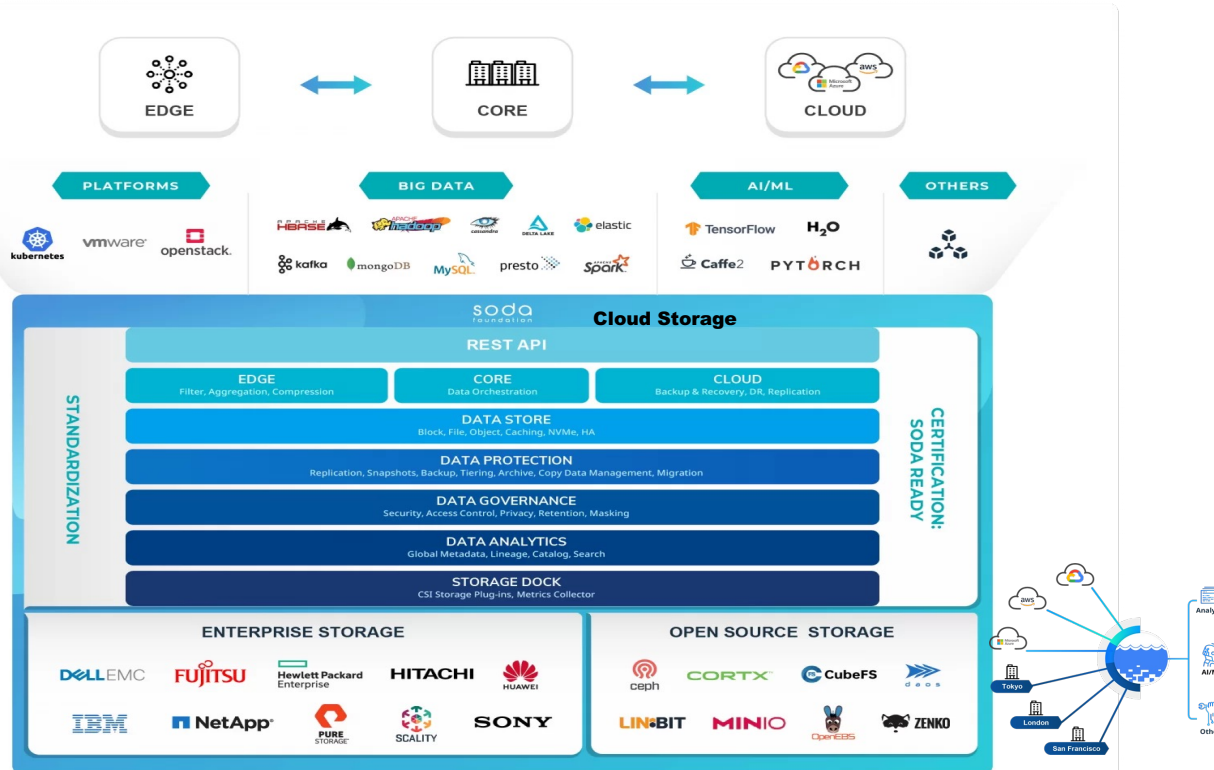
Open Source Sub Foundation for Data & Storage under Linux Foundation

Launched on June 29, 2020

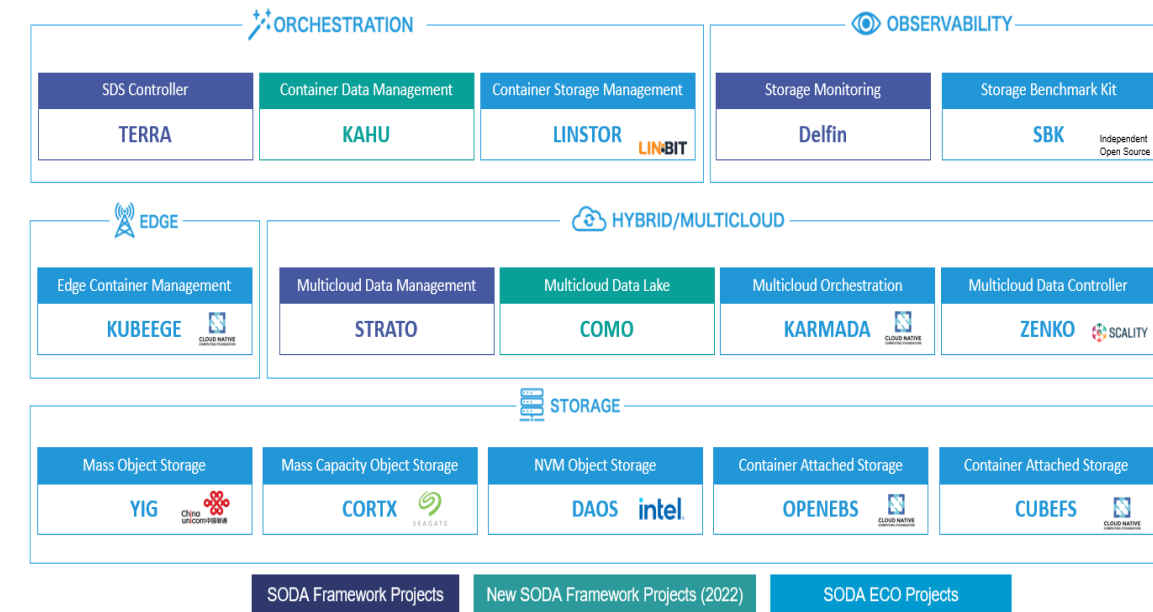
Open Source Projects | Open Research | Open Collaboration | Open Standards

Aims to foster an ecosystem of open source data management and storage software for data autonomy. SODA Foundation offers a neutral forum for cross-projects collaboration and integration and provides end users quality end-to-end solutions

Architecture for Any Platform, Any Storage, Anywhere



Growing Project Ecosystem



Framework Projects for SDS Controller, Multicloud, Container Data Management and Data Lake | 10 External Projects in Data & Storage joined as SODA ECO Projects to build collaborative solutions.

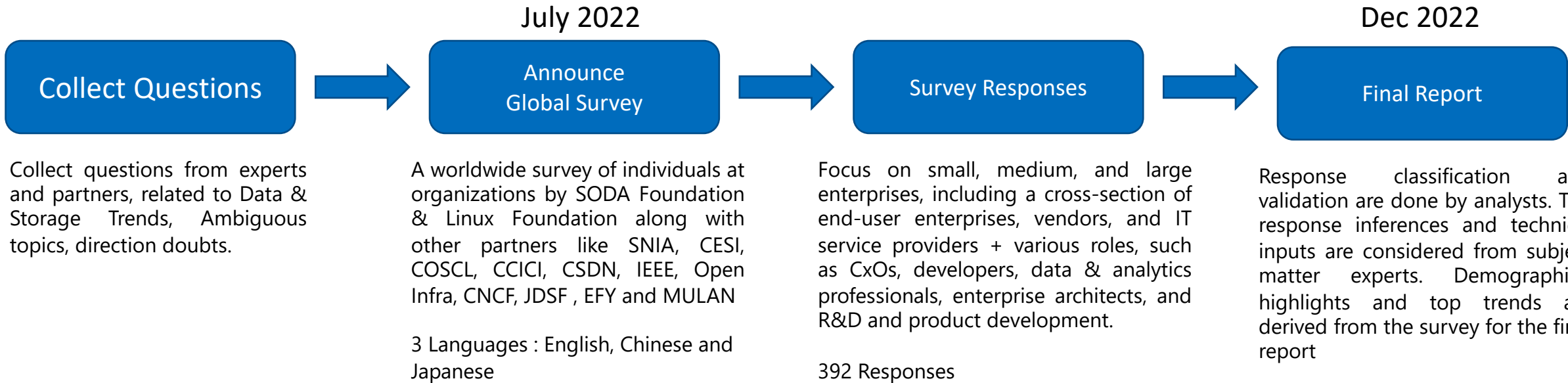
Solutions for Multicloud Data Management | Container Data Management | Storage Monitoring & Observability | Data Lake | Hybrid & Heterogeneous Deployments

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Survey Methodology



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In 2022, the growth in data was 3 times higher than in 2021.



43% of end users demand the **freedom to leverage multiple storage vendors.**



Public clouds run more than 40% of end-user organization workloads.

56% of end users deploy open source **multi-cloud management** in their production environments.



Cloud technologies represent the **most significant area of data and storage technology investment** over the next three years.



Data security is the **greatest challenge** facing container deployments.



The biggest challenge facing multi-cloud solutions is the **security and protection of data.**



Information security and data privacy are the leading reasons to use a private cloud solution.



Data quality, governance, and security are **top priorities** when selecting metadata management solutions.



Primary data storage, complete data protection, and disaster recovery represent **the top 3 use cases for cloud storage services.**



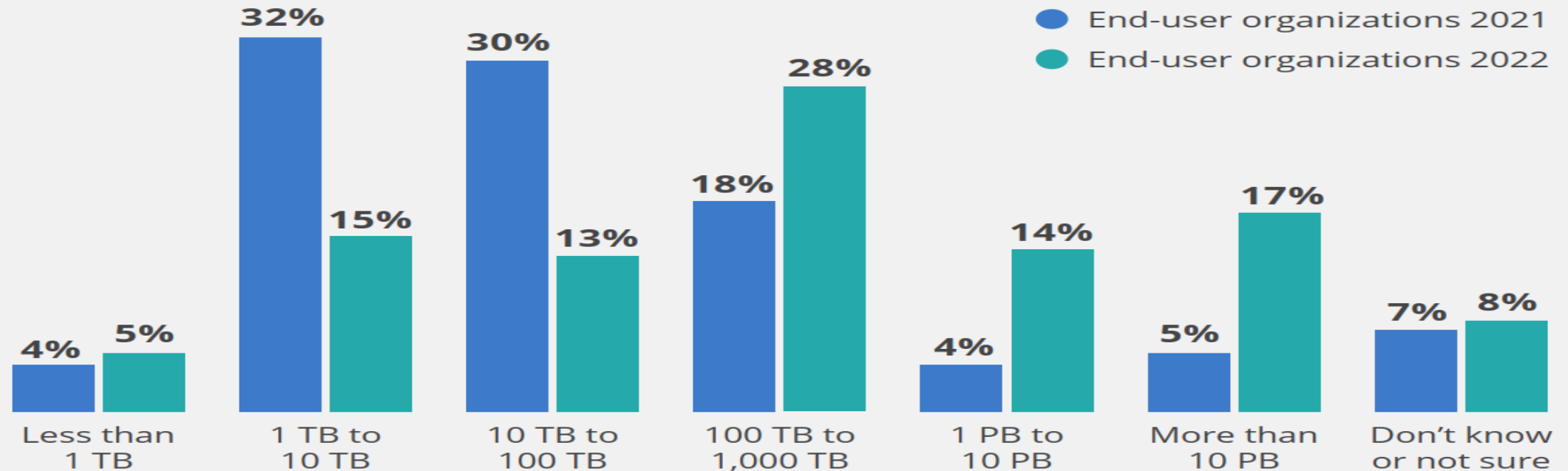
Cloud storage monitoring is the **greatest challenge** facing data and storage observability.



AI-driven hybrid data management is considered the most critical area for data management and analytics over the next 2-4 years.

AMOUNT OF DATA GROWTH BY CATEGORY IN 2021 AND 2022

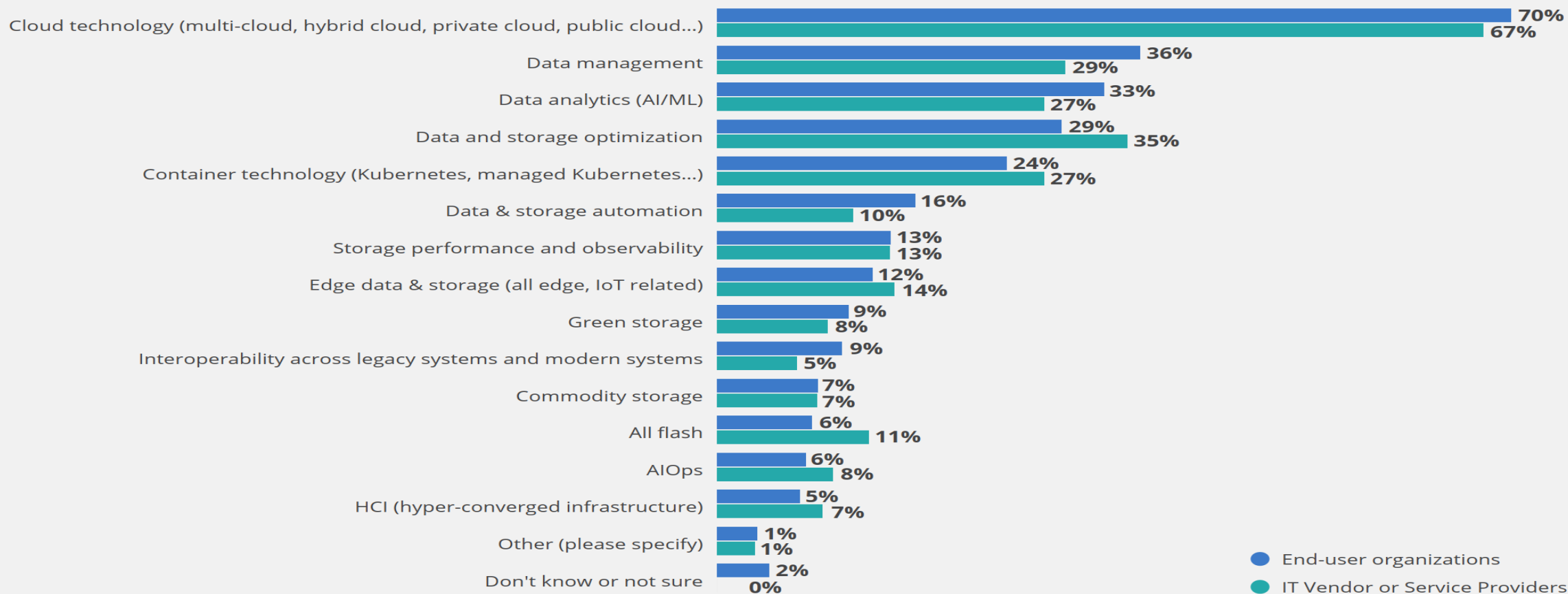
How much is the approximate data growth per year for your organization? (comparison of 2021 and 2022 results)



- Data-centric workloads such as **data analytics and database** driving explosive growth
- 200+% growth in both 1-10PB and 10+PB categories compared to 2021

LEADING DATA STORAGE INVESTMENT AREAS OVER THE NEXT THREE YEARS

What are your organization's top 3 data and storage technology investment or deployment areas for the next 3 years? (segmented by end user and vendor/IT service provider)

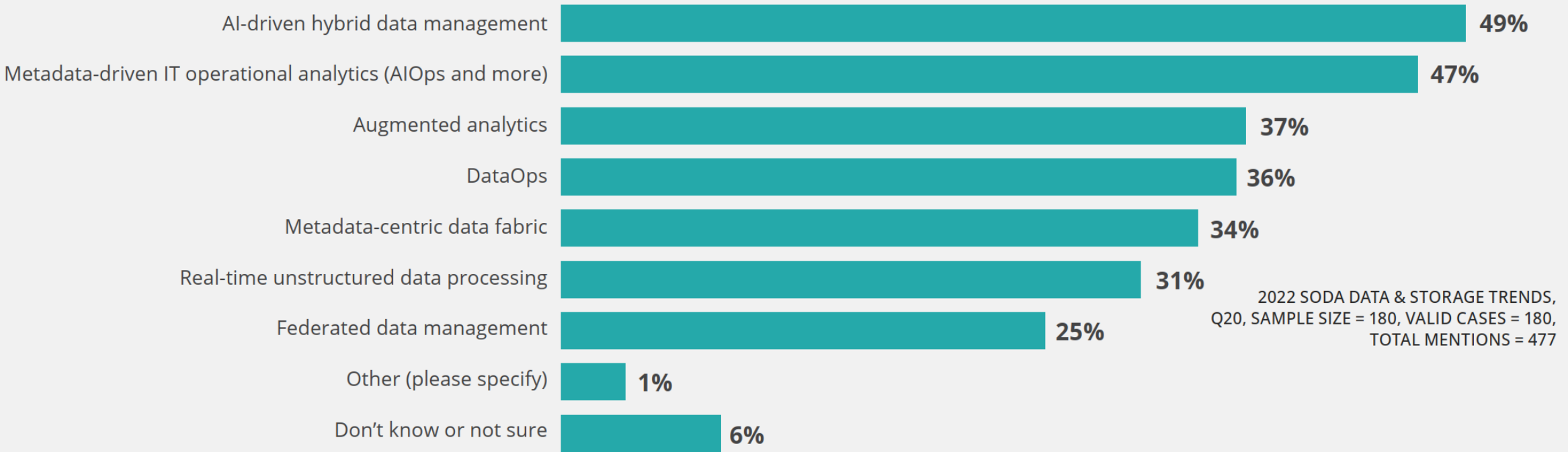


2022 SODA DATA & STORAGE TRENDS, Q11 BY Q10, SAMPLE SIZE = 392, VALID CASES = 392, TOTAL MENTIONS = 1,070

- Most data and storage technology **investments are cloud-based**
- Data management continues to be a leading investment area

KEY DATA MANAGEMENT AND ANALYTIC AREAS OVER THE NEXT TWO TO FOUR YEARS

Which are the key capabilities you think are critical in the next 2-4 years for data management and data analytics? (select all that apply)



- End-user organizations believe that AI-driven data management is an effective solution to addressing their data management and analytics needs
- Potential over the next two to four years is IT operational analytics (ITOA). While similar to AIOps, ITOA relies more on big data, optimization, and predictive analytics, whereas AIOps focuses more on AI / ML

Responding to the top trends...

Data is growing, users want heterogeneous support

Our vision is in line; we are **strengthening our focus** on the key areas. Most of our projects are with a basic goal of heterogeneous storages and platforms

<https://www.sodafoundation.io/>

Data protection and disaster recovery are popular use cases

SODA Kahu has been incubated and first released done in 2022. We have added new features to address DR. This can be deployed to cloud and also backup to cloud

<https://github.com/soda-cdm/kahu>

Multicloud is becoming new normal

Continue to **increase the focus on SODA Strato (Multicloud Data Management)** with metadata management, New project COMO(Virtual Data Lake) with Multicloud Virtual Object Data Store initiated

<https://github.com/sodafoundation/strato>
<https://github.com/soda-lake/como>

Cloud Storage monitoring and observability – critical for cloud transition

Considering **Delfin (heterogeneous monitoring)** for container and cloud monitoring.

<https://github.com/sodafoundation/delfin>

Data Security and Data Privacy are top concerns

We do not have any specific project currently. We initiated some discussion with industry experts to start a WG first. We plan to accelerate it.

AI driven hybrid data management is the future

Yet to start. (Though some experiments done with Delfin using Kafka and TensorFlow)

Panel Discussion

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How to Get Involved



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- Follow us on Twitter @sodafoundation
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Thank You!