



WELCOME & OPENING KEYNOTE

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 **OpenSource**
For You



The Open Source, Vendor Neutral Forum For Data Management And Storage



Open Source

SODA build projects focused on data management and storage to tackle challenges faced by end users



Open Community

All vendors, end users, and developers are welcome to join and contribute



Open Collaboration

SODA community collaborate on projects, POC testing, research, whitepapers and more

A GLOBAL OPEN SOURCE COLLABORATION

JOIN US!



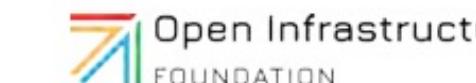
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General Members



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Supporters



Alliance Partner



WELCOME OUR NEWEST MEMBER



Storage
Performance
Council

JOHN STEPHENS
EXECUTIVE DIRECTOR, SPC



YOSHIYA ETO
Advisor, SODA Foundation
Linux Foundation Fellow





DATAVISION23



Replication



Cloud 2

Archive



Cloud 1



Cloud 3

Backup

Cloud Bursting

Data Challenges Organizations Cannot Avoid

Backup

EXPLOSIVE GROWTH OF DATA

DR Site

Replication



Text & Docs



Log Files



Sensor Data



Images



Video Files



Audio Files

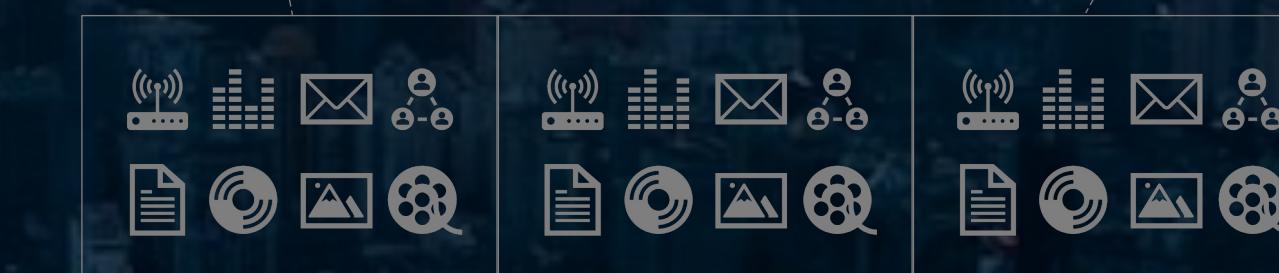


Emails



Social Media

UNSTRUCTURED DATA



Replication

DATA IN MULTIPLE PLACES



Remote Office

Secondary Datacenter

Data Challenges Organizations Cannot Avoid

EXPLOSIVE GROWTH OF DATA + **UNSTRUCTURED DATA** + **DATA IN MULTIPLE PLACES**

The diagram illustrates the interconnected nature of data challenges. The three primary challenges are:

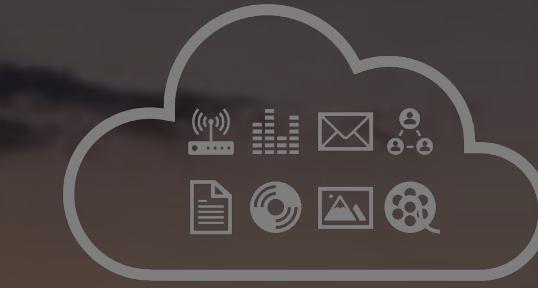
- EXPLOSIVE GROWTH OF DATA**: Represented by a box containing icons for data storage and processing.
- UNSTRUCTURED DATA**: Represented by a box containing icons for data storage and processing.
- DATA IN MULTIPLE PLACES**: Represented by a box containing icons for data storage and processing.

Arrows from these boxes point to various data storage locations:

- DR Site
- Secondary Datacenter
- Primary Datacenter (labeled **DATA SPRAWL**)
- Cloud 1
- Cloud 2
- Cloud 3
- Remote Office

Icons used in the boxes include:

- Cloud storage
- Database
- File storage
- Image storage
- Video storage
- Archiving
- Backup
- Replication
- Cloud bursting



The Problems With Data Sprawl

**STORAGE/MGT
OVERHEAD**

**LONGER
BACKUP**

**HIGHER
COSTS**

**SECURITY
RISKS**

**COMPLIANCE
ISSUES**

**OUTDATED
INFORMATION**

**MISSED
OPPORTUNITIES**



A Single Unified View of Data

SEARCH

ANALYTICS

PROTECTION

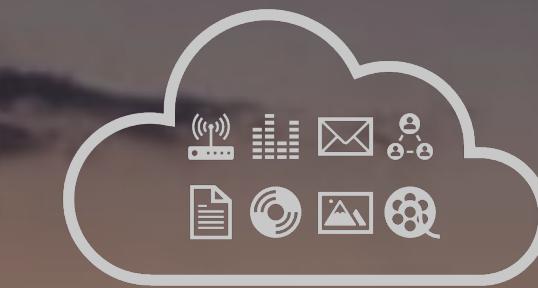
SECURITY

COMPLIANCE

OPTIMIZATION



CRYSTAL



A Single Unified View Of Data

CRYSTAL METADATA PROJECT

Unified Metadata

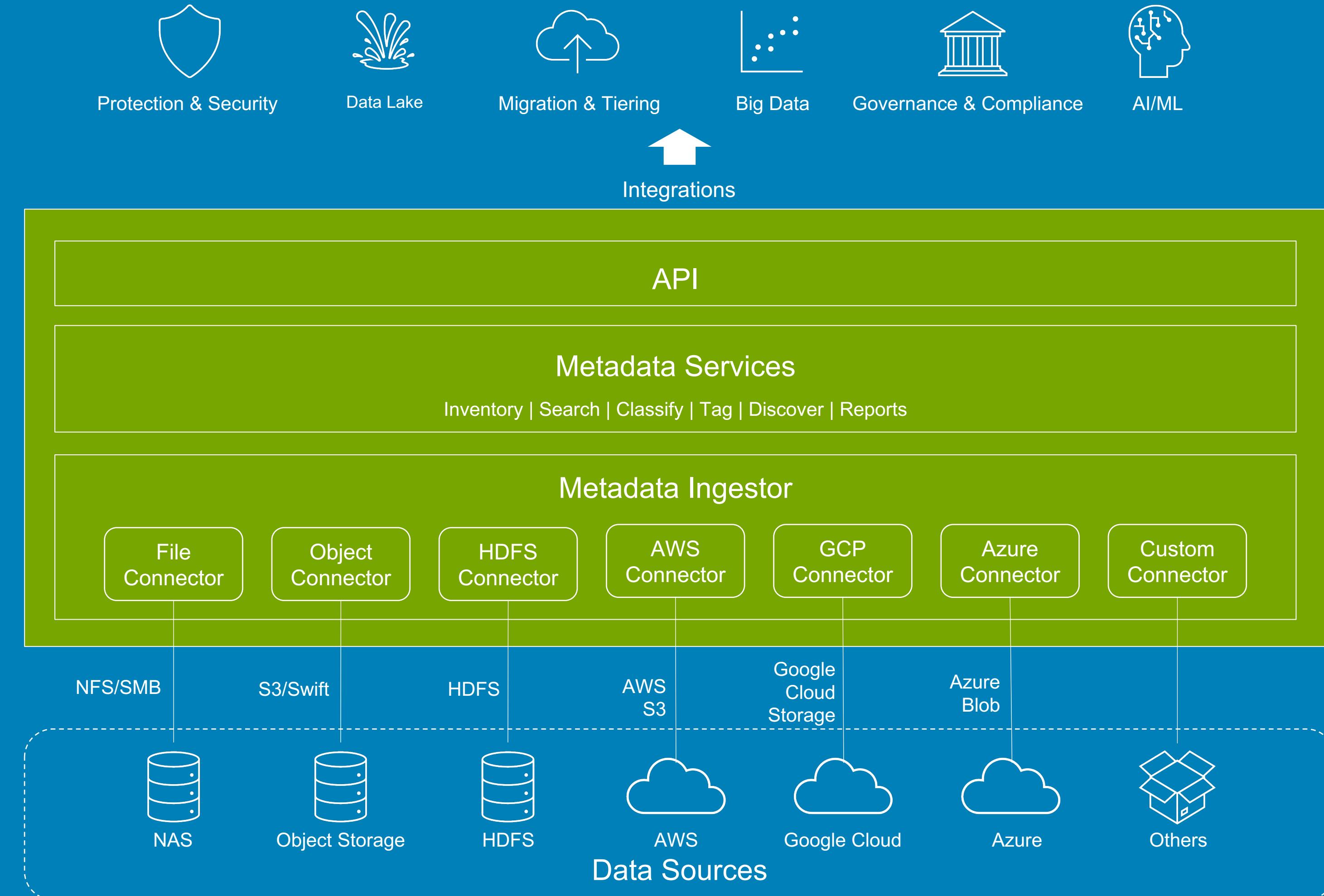
Ingest and unify metadata for all unstructured data (files/objects) in on-premise and cloud storage

Unified Services

Search, classify, tag and get unified deep insights into data across the entire IT environment

Unified API

Unify integrations across applications with full control and a consistent experience



USE CASE
TOYOTA
Data Lifecycle Management**Requirement**

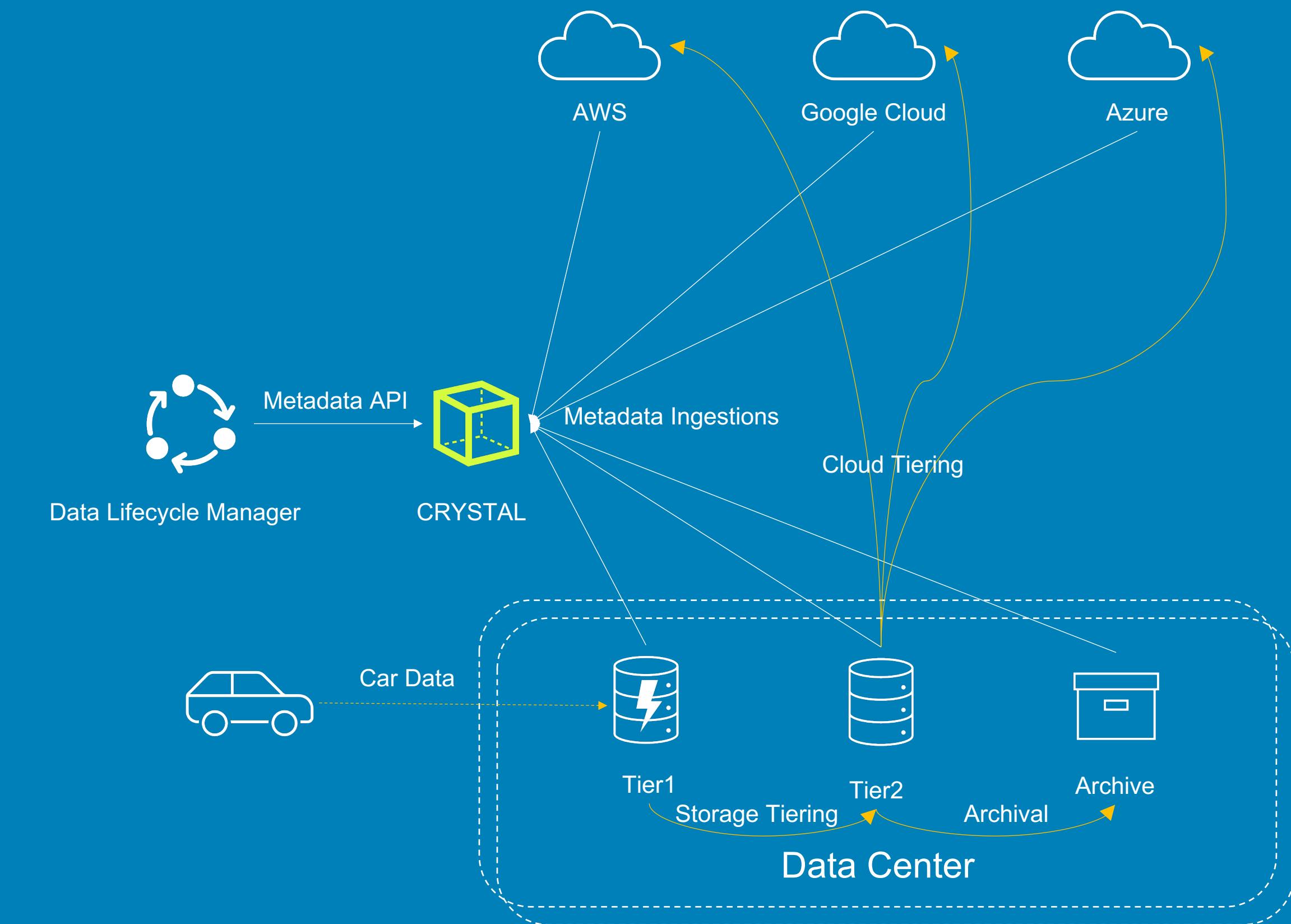
To manage the complete data lifecycle on Toyota connected car platform.

Challenges

- No vendor solution that can integrate all multi-vendor storage and cloud services
- Non-standard metadata for files and objects

Solution

- Crystal Metadata Ingestor collects metadata from any storage and cloud through customizable Connectors
- Crystal unify metadata for all file and objects in the Car Platform
- Data Lifecycle Manager application uses Crystal to determine data age, access frequency etc. for tiering, archival, retention, and deletion.



USE CASE
VODAFONE
Operational Efficiency and Risk Mitigation**Requirement**

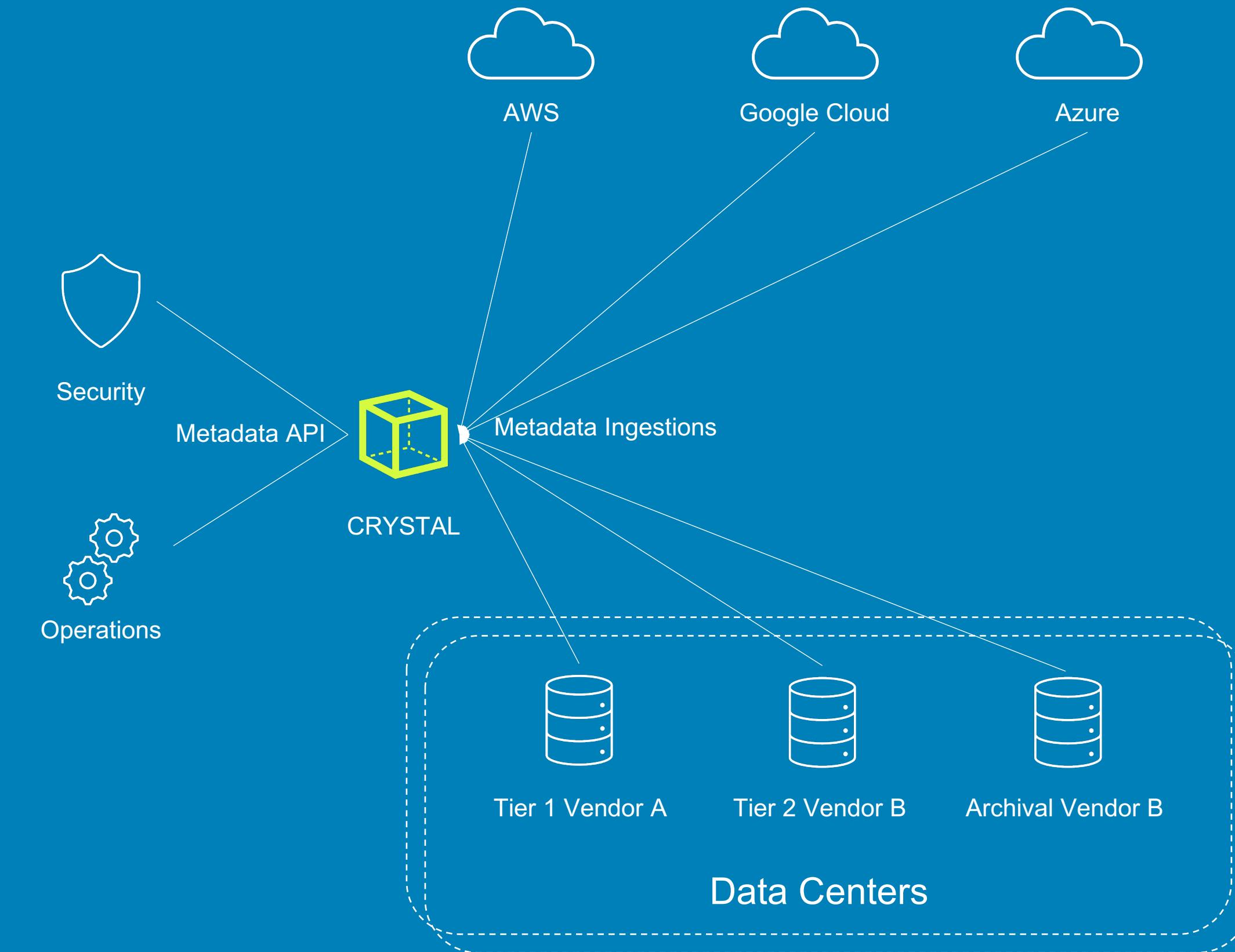
To unify data management across heterogeneous storage and cloud for better security, protection and efficiency in cloud native (K8s) environment

Challenges

- Lack single pane of glass to view data across different vendor storage and cloud storage in K8S
- Lack of insights into data risks
- Need consistent maintenance and support when storage, cloud service or technology is added or changed

Solution

- Crystal collects files and objects metadata across K8S persistent storage to provide a global view of data
- Customers can discover, search, classify and tag data
- Crystal can provide insights into hot/warm/cold data, sensitive (PII) data, ROT data for storage efficiency



USE CASE
SOFTBANK
Data Lakes and Analytics**Requirement**

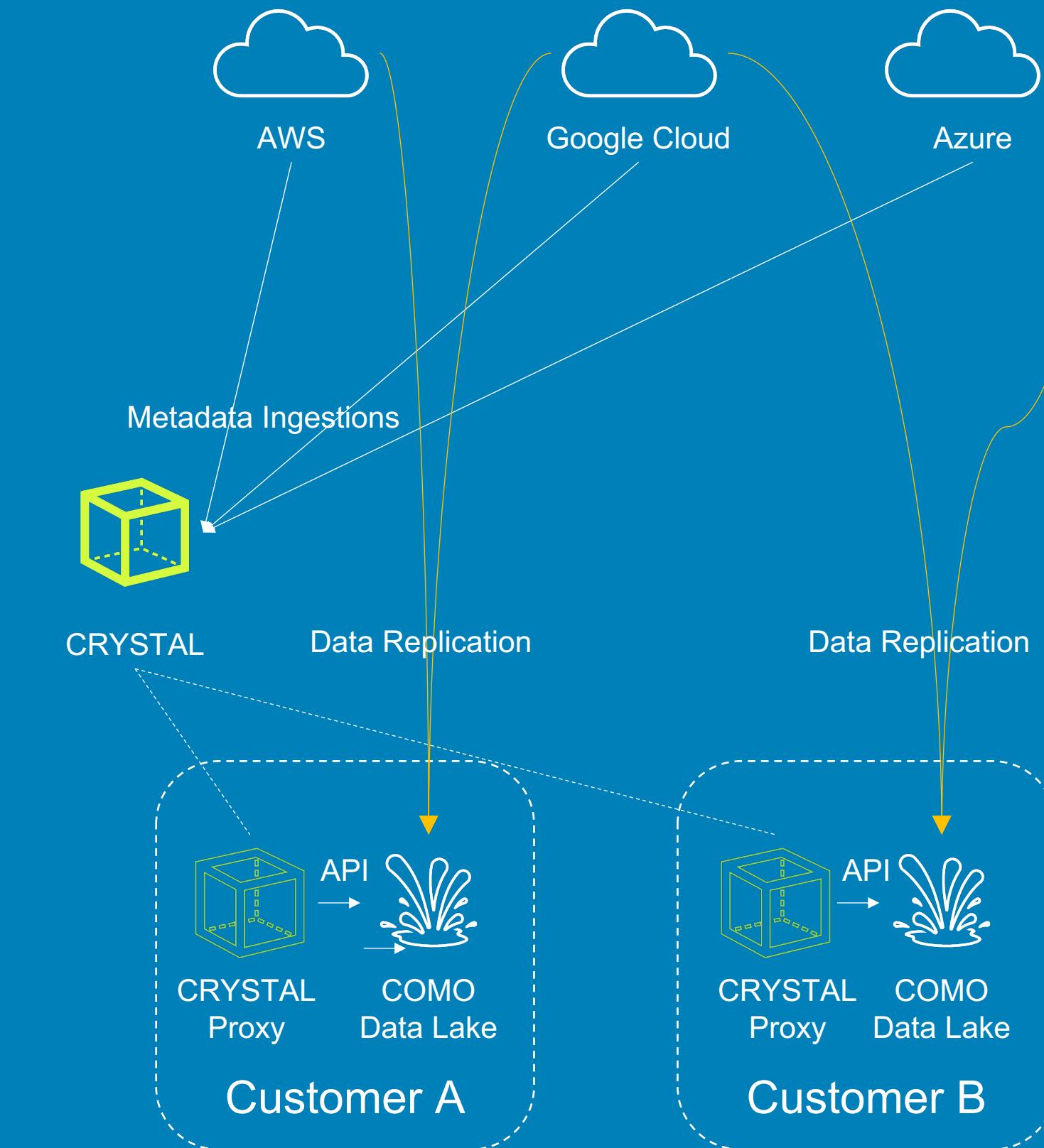
To provide a secure data lake service for customer to perform data analytics.

Challenges

- Lack of engineering resources for development
- Lack of a single pane of glass to view data across cloud services
- Non-standard metadata for files and objects in AWS, Azure and Google

Solution

- Crystal open source reduces development effort and allows customization
- Crystal provides unified metadata across clouds
- Customers can select data using metadata as filters from different clouds to view and manage
- Customers can pull data into Como data lake for analytics



SODA FRAMEWORK PROJECTS



KAHU

Backup, recover and migrate K8s clusters data anywhere with no vendor lock-in

PROTECT



STRATO

Move data across multicloud environment with a common S3 compatible interface

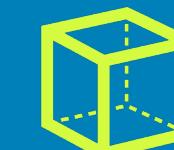
MOVE



DELFIN

Observe, monitor and manage alerts for any storage anywhere

OBSERVE

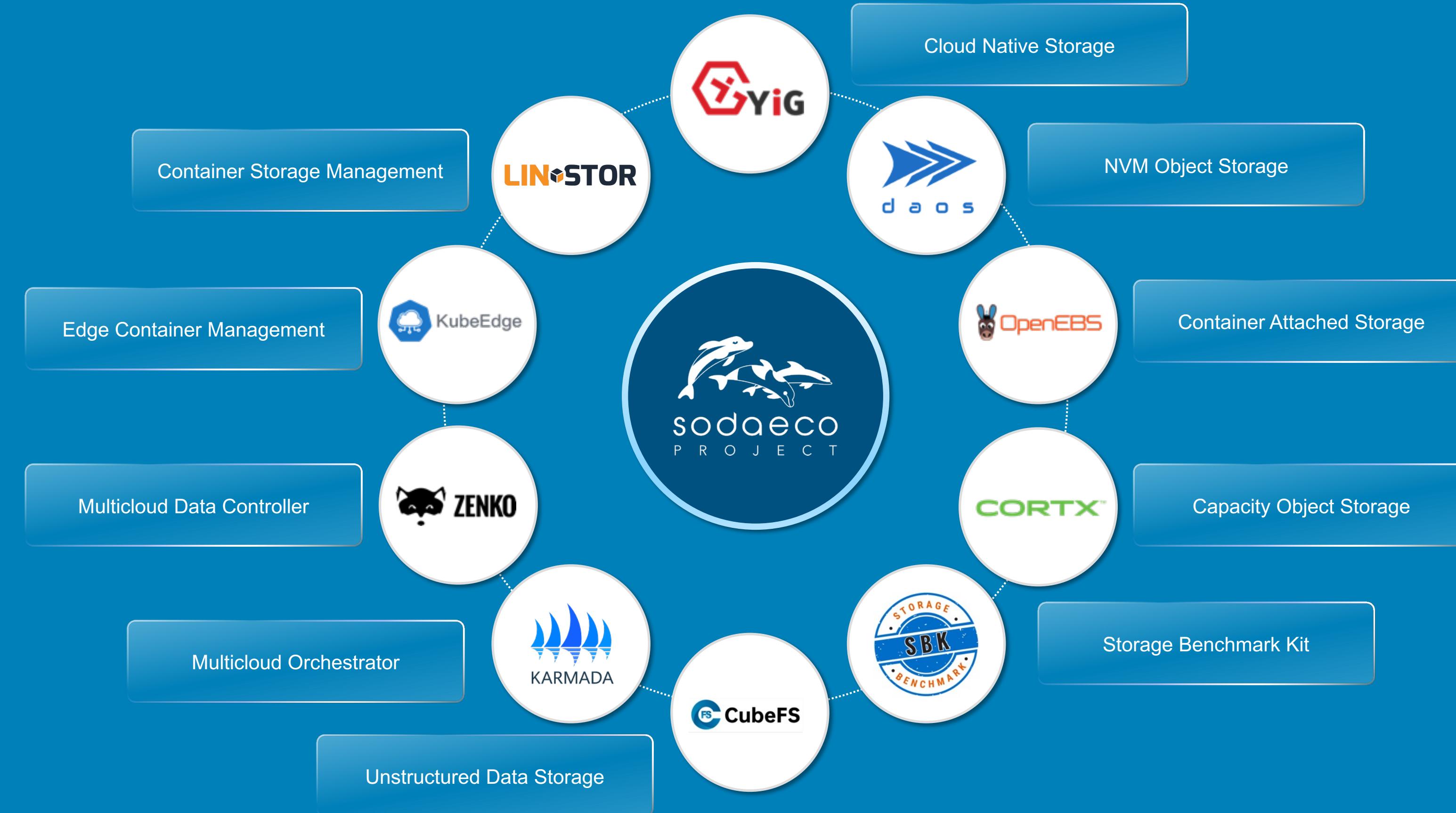


CRYSTAL

Unified metadata for unstructured data across on-premise and cloud storage

DISCOVER

SODA ECO PROJECTS



CHINA
Shanghai 2019



EUROPE
Barcelona 2019



JAPAN
Tokyo 2019



INDIA
Bengaluru 2023



Japan Meetup @OSS Japan
Tokyo, Fukuoka
Dec 2023



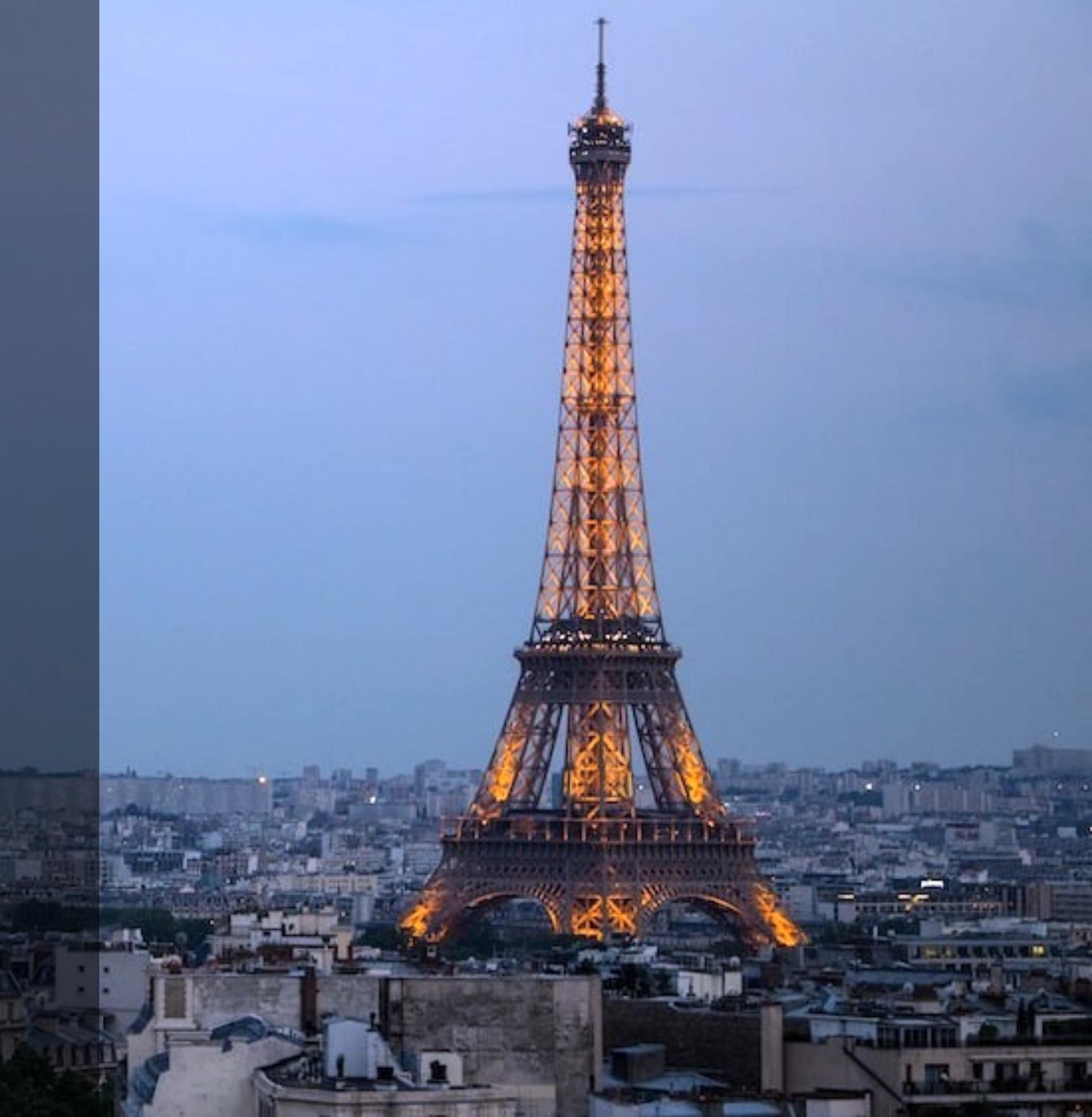
China Meetup @KubeCon
Shanghai
Sep 26, 2023



India Meetup @OSI
Bengaluru
Oct 19, 2023



SODA @KubeCon Europe?
Paris
May 2024



Thank You

s@tevenphtan

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Slack



GitHub



Meetup (India)



Twitter



YouTube



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