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## SODA FOUNDATION

one data framework, infinite possibilities

Steven Tan

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

Twitter: @stevenphantan  
LinkedIn: stevenphantan





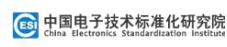
201  
17th-19th October  
NIMHANS  
Convention Centre,  
Bengaluru



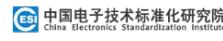
# SODA FOUNDATION LAUNCHED JUNE 29, 2020

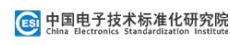


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# CCICI JOINS SODA

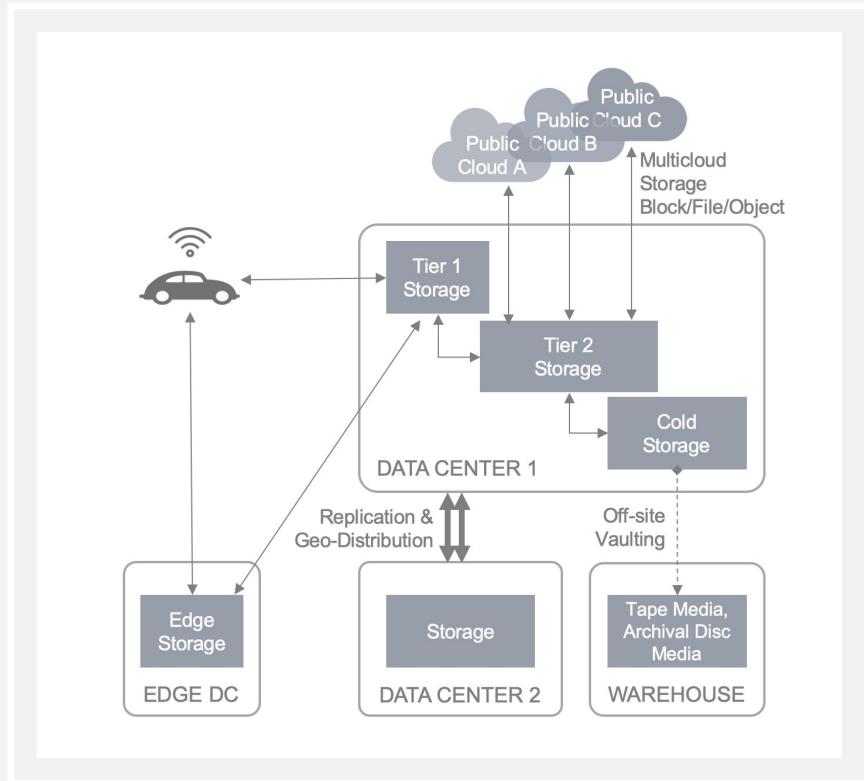




# TOYOTA CONNECTED CAR PLATFORM

## NEEDS

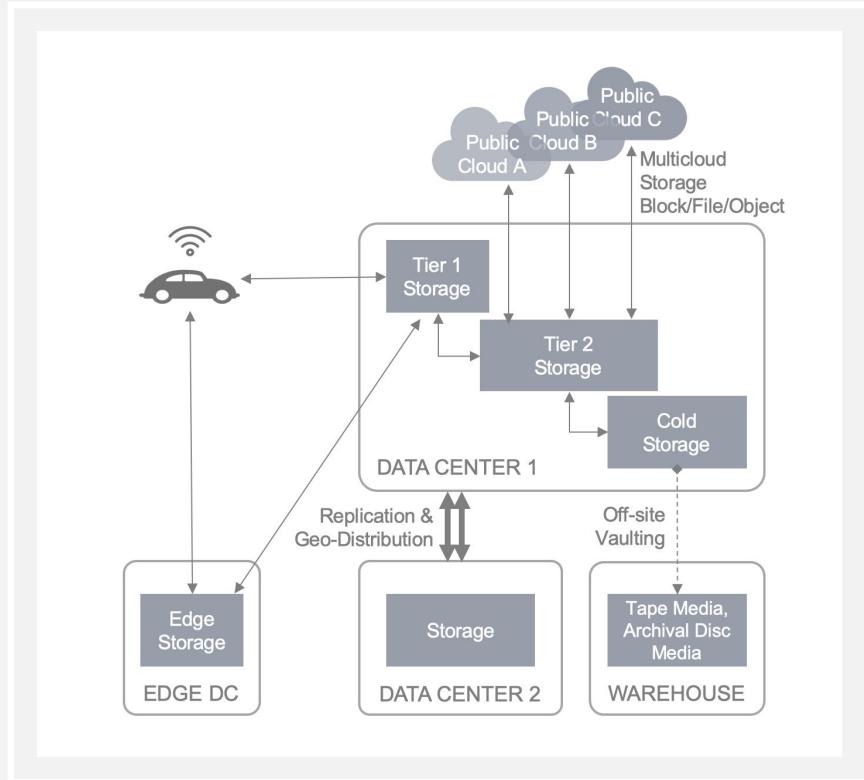
- data lifecycle - tiering, retention, archival & migration
- multicloud
- data integration for AI/ML & analytics
- IoT data services
- data security & privacy
- data governance & compliance
- edge - collect, filter, aggregate, cleanse



# TOYOTA CONNECTED CAR PLATFORM

## CHALLENGES

- avoiding data silos and data fragmentation
- preventing vendor lock-ins: software, hardware, cloud
- seamless integration



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Yuji  
Yazawa  
**Toyota Motor**  
Corporation



Cosimo  
Rossetti  
**Vodafone**



Zhong  
Xin  
**China UnionPay**



Kei Kusunoki  
**NTT Communications**



Tomoko  
Kondo  
**Softhbank**



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**

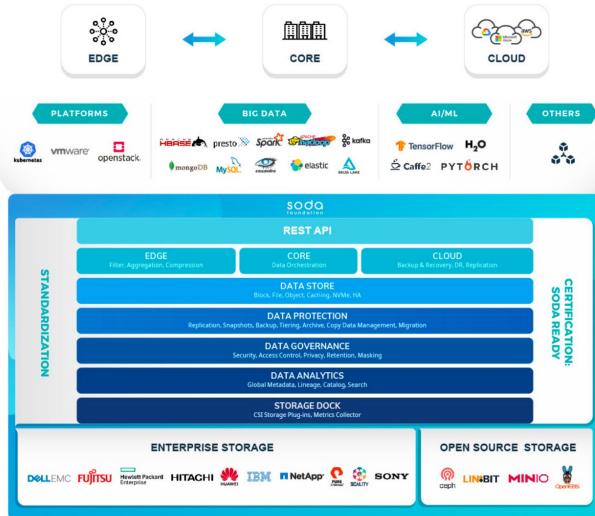


Shinya  
Tsunematsu  
**GMO Pepabo**

### SODA END USER ADVISORY COMMITTEE

## END USERS

# SODA OPEN DATA FRAMEWORK



## HIGHLIGHTS

- Data framework for K8S, VMware, and more
- One framework for everything data
- Data mobility from edge to core to cloud

## BENEFITS

- open source - data and storage projects
- standardization – API's, plugins
- ecosystem – HW, software, solutions, services
- certification – ecosystem, developers, operators



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## SODA ROADMAP



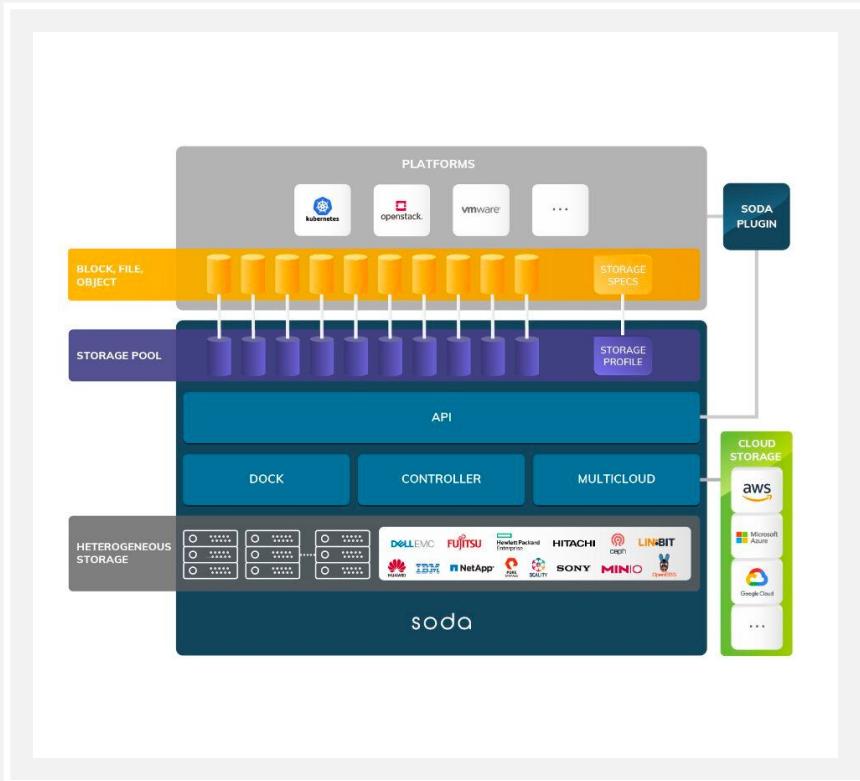
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# SODA GREENLAND

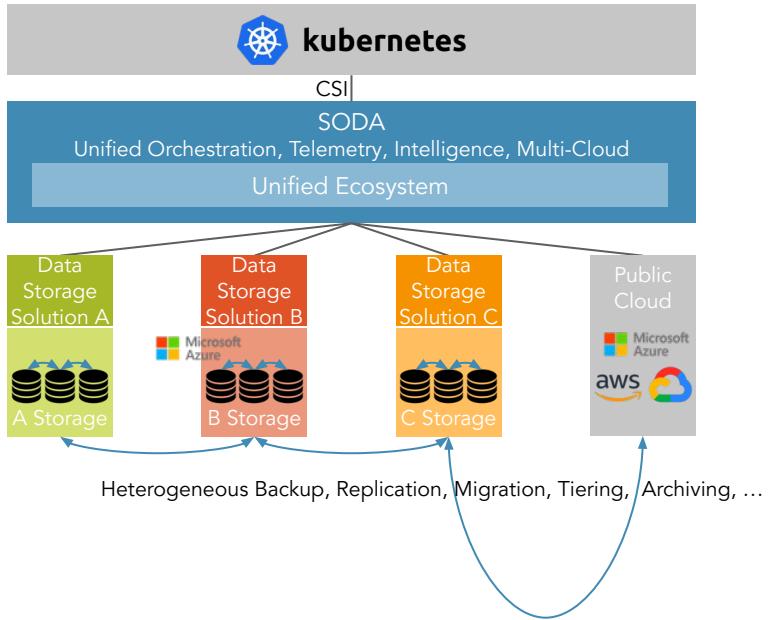
## RELEASE V1.1

### FEATURES

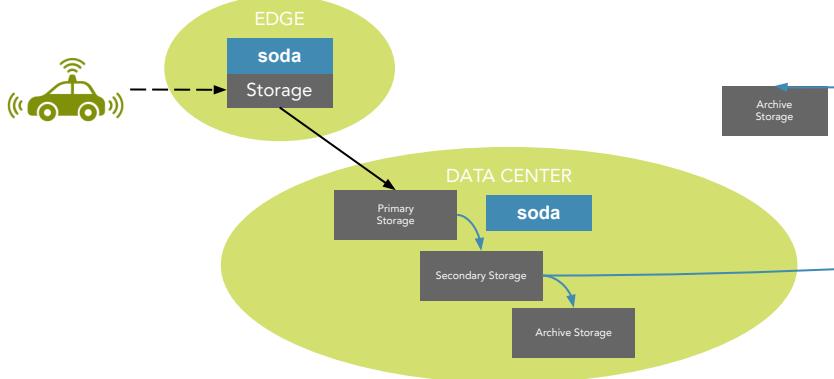
- Block, file, and object storage services
- K8S, OpenStack, VMware integration
- Multicloud S3 with AWS, Azure, GCP, IBM, & Ceph
- Multicloud file services with AWS, Azure, GCP
- Storage Performance Monitoring (SPM)
- Heterogeneous storage with OpenStack Cinder/Manila
- K8S CSI Plug-and-Play storage orchestrator
- Edge data management with KubeEdge
- Telemetry, automation, anomaly detection, and more



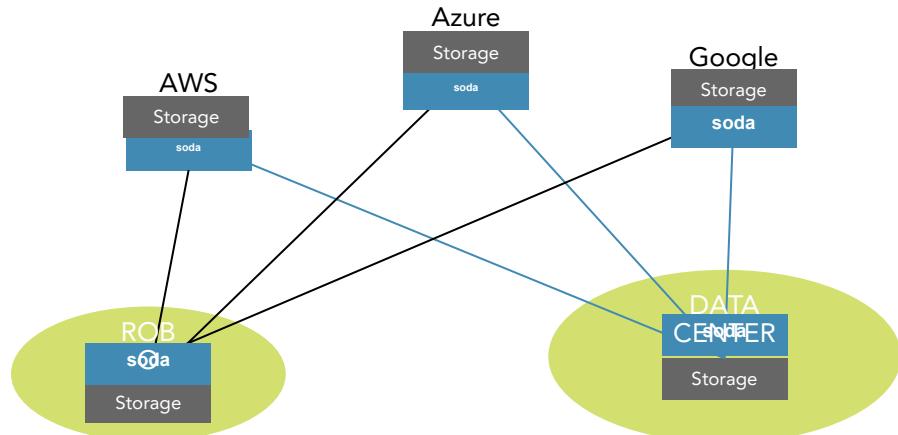
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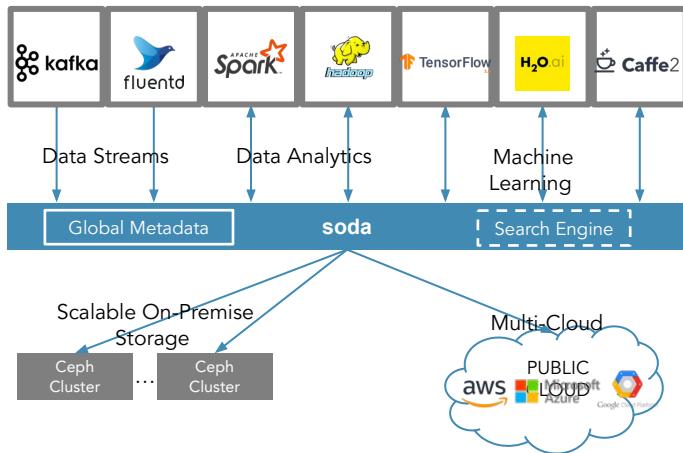
# CLOUD NATIVE STORAGE



# DATA LIFECYCLE



# MULTICLOUD



# DATA LAKE

## SODA INCUBATOR

Home For Open Source Data And Storage  
Projects



INNOVATION



SUPPORT



COLLABORATION



GROW



USERS



MARKETING



## SODA INCUBATOR

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INNOVATION



SUPPORT



COLLABORATION



GROW



USERS



MARKETING



DAOS

Intel DAOS Joins  
SODA



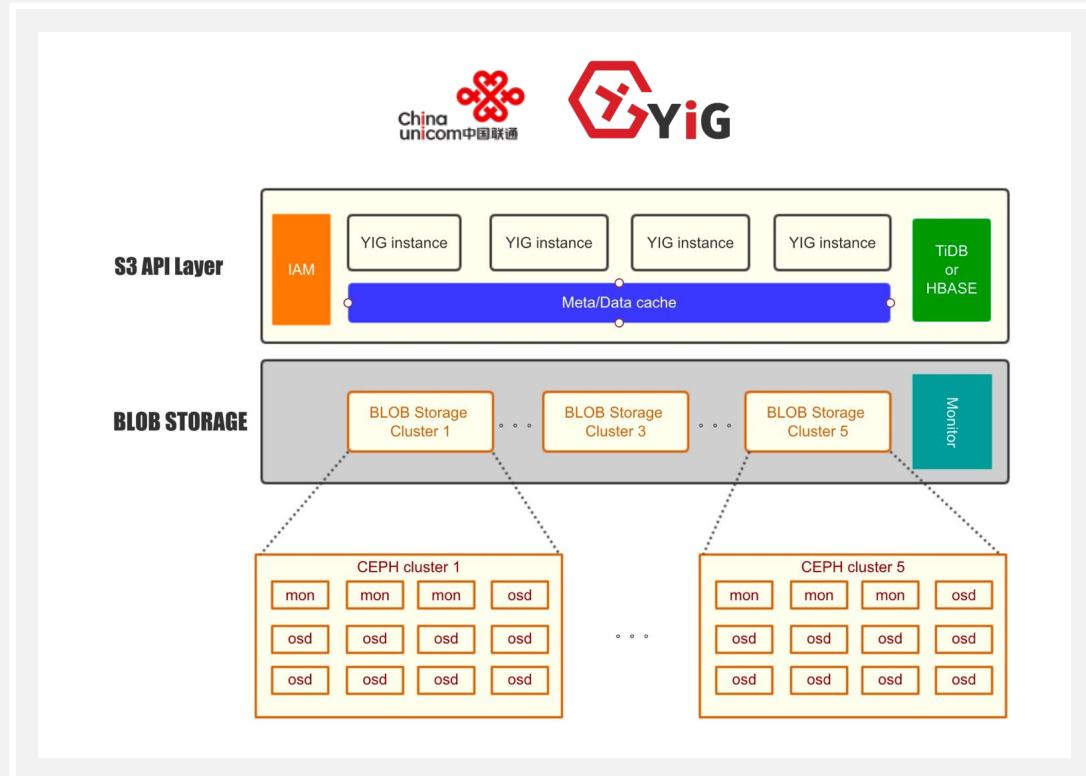
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# SODA YIG

Massively Scalable Object Storage

## HIGHLIGHTS

- massively scalable object storage with Ceph backend
- scales easily by adding new Ceph clusters
- in production at China Unicom with about 3-4PB of data



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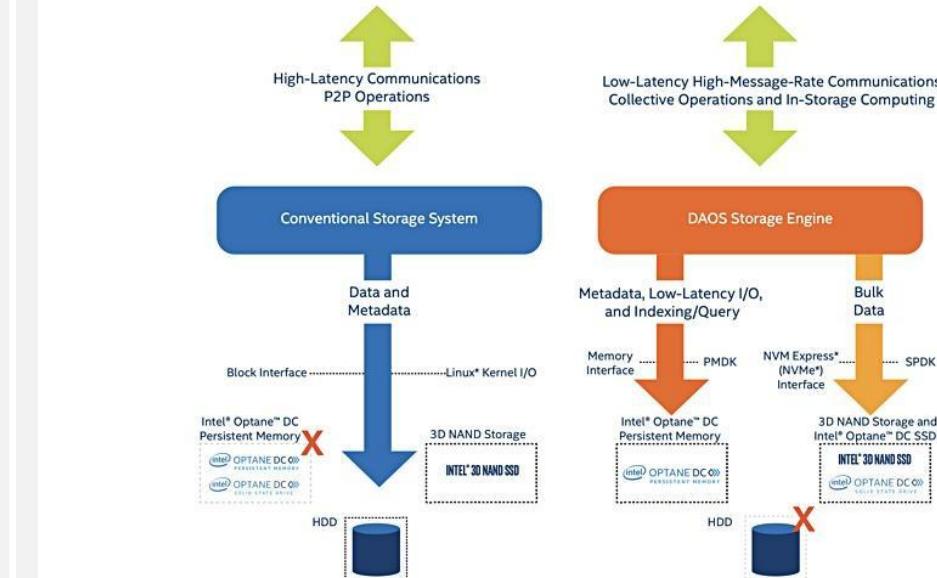
# SODA DAOS

Distributed Asynchronous  
Object Storage

## HIGHLIGHTS

- open source  
software-defined scale-out  
object store
- high bandwidth, low latency,  
and high I/O operations per  
second (IOPS) storage  
containers
- for HPC, big data, AI

# intel DAOS



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## SODA POC

# Accelerating Users Digital Transformation With SODA



1

### SCOPE

Identify use case, problems and ideas. Specify goals, requirements, expectations timeline, and resources.

2

### DESIGN

SODA POC team with community put together a proposal for user

3

### BUILD

SODA POC team with community develop a solution

4

### TEST

User test in-house or remotely with support from SODA POC team and select vendors

5

### REVIEW

Evaluation of test results and follow up actions on improvements and production use



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SODA ACADEMY

Helping Talented Developers  
Grow



MENTEES



MENTORS



TRAINING



CERTIFICATION



DEVELOPMENT



LAUNCH DEC



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## GOVERNANCE



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## PEOPLE

### GOVERNING BOARD



#### TECHNICAL OVERSIGHT COMMITTEE

- Rakesh Jain, IBM (Co-Chair)
- Kei Kusunoki, NTT Communications (Co-Chair)
- Xin Zhong, China Unicom
- Masanori Itoh, Toyota
- Vinod E, Wipro
- Hiroki Kimura, Fujitsu
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- Kiran Mova, MayaData
- Prashant Mishra, Click2Cloud
- Sanil Kumar, Huawei

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- Michiharu Nakazawa, Sakura Internet
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- Shane Wang, Intel (Vice-Chair)
- Brian Hellman, Linbit (N. America)
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- Sai Nath, Wipro (India)
- Pradipta, IBM (India)
- Vivek, Microsoft (India)
- Rupal Shirpurkar, Click2Cloud (India)

# SODA GLOBAL COMMUNITIES

SODA communities are slowly growing around the world with strong communities in Japan, China, and India holding regular meetups. Our goal is to grow in Europe and N. America in the near future.



# INDIA

1) Steven Tan (SODA Chair) SODA keynote at Open Source India, Bengaluru 2) Crowd at SODA booth, Kubernetes Forum, Delhi 2020 3) Sanil Kumar (SODA TSC), Kubernetes Forum, Delhi 2020 4) SODA sticker 5) SODA Meetup 1, Bengaluru 2019 6) SODA team after party, Bengaluru 2019 7) SODA Meetup 2, Bengaluru 2019 8) SODA team, Kubernetes Forum Delhi 2020



# SODA INDIA OUTREACH COMMITTEE



Sai Nath, Lead  
Wipro Technologies



Pradipta Banerjee, Lead  
IBM



Uma Mukkara  
MayaData



Vivek Sridhar  
Microsoft



Ashit Kumar  
Huawei Technologies



Rupal Shirpurkar  
Click2Cloud



## A WORD FROM SODA SUPPORTERS

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Rajneesh Kini

Vice President,  
Industrial &  
Engineering  
Services, Wipro

CCICI



Prof. Dinkar  
Sitaram

CCICI Governing  
Board,  
Head, Antaramegha  
Intercloud Test Bed

HUAWEI



Isaac  
Biyunfeng

CEO, Huawei  
Technologies India  
Pvt Ltd

CLICK2CLOUD



Prashant  
Mishra

Founder & CEO,  
Click2Cloud

MAYADATA



Uma Mukkara

COO, MayaData



## JOIN US!

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

<https://github.com/sodafoundation>

Twitter @sodafoundation