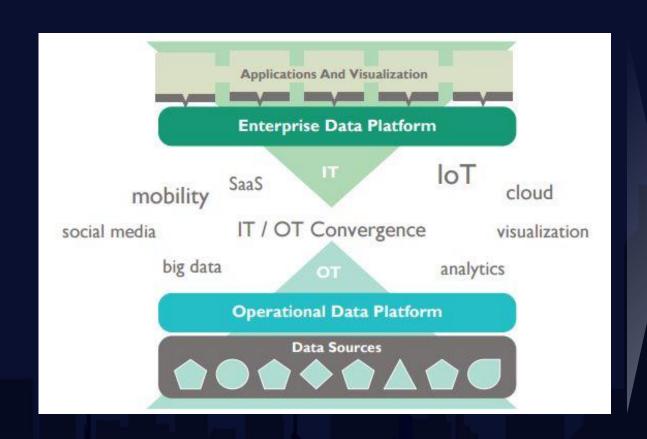# DATA MANAGEMENT NEED REARCHITECT IN INDUSTRIAL INTERNET ERA

Data Analysis/AI

Data Distributed & Scalable

Data Interoperable

Redefine Open Architecture & Innovative Technologies for Whole Ecosystem Become a Must
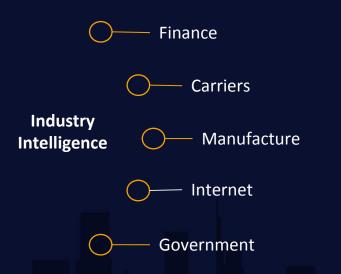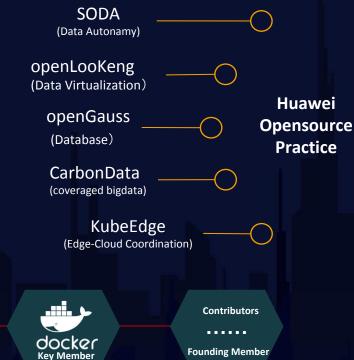
EMBRACING OPEN SOURCE TO PROMOTE OPEN INNOVATION

Industry Requirements

Technology Support

Industry Intelligence

- Finance
- Carriers
- Manufacture
- Internet
- Government

Huawei Opensource Practice

- SODA (Data Autonamy)
- openLooKeng (Data Virtualization)
- openGauss (Database)
- CarbonData (coveraged bigdata)
- KubeEdge (Edge-Cloud Coordination)

STANDARDIZATION

CERTIFICATION

EDGE	CLOUD
DATA STORE	
DATA PROTECTION	
DATA GOVERNANCE	
DATA ANALYTICS	

THE LINUX FOUNDATION
Platinum Member

APACHE SOFTWARE FOUNDATION
Platinum Sponsorship

Linux KERNEL
Long-term Contributor

Spark
Key Member

kubernetes
Strategy Partner

docker
Key Member

Contributors
......
Founding Member

sodacon 2020

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CHALLENGES IN HYBRID CLOUD
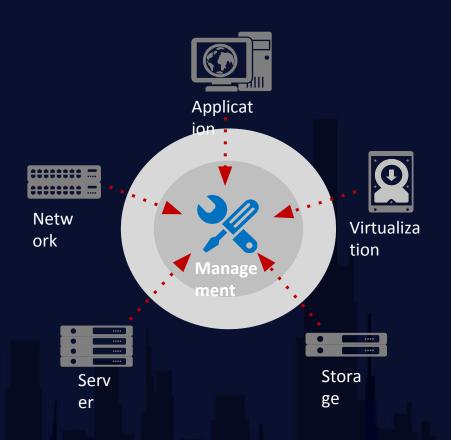
Hybrid Data across Edge, Core and Cloud

- Different requirements for edge, cloud and core

- Different Standards and technologies based on vendors or platforms

- Data from Multi-Source increases data cost and difficulty to keep data consistency

- Seamless Data mobility on demands

- Data governance and compliance (like GDPR)

- Data Security and Protection across different interfaces

CHALLENGES IN DATA CENTER

Application

Network

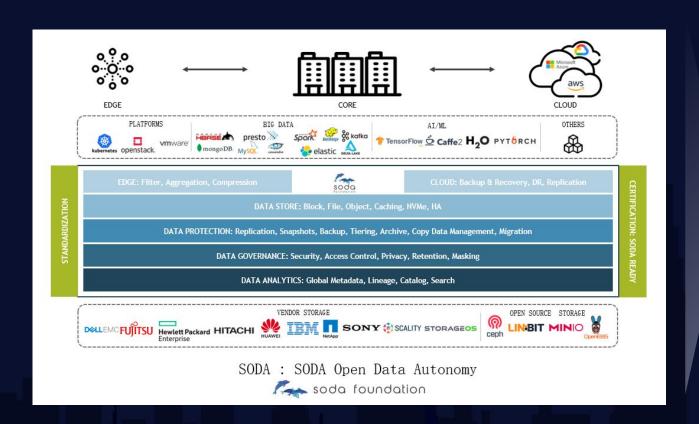Virtualization

Management

Server

Storage

- Difficulty to manage heterogeneous storages and resources

- Low storage utilization and huge resource waste, without automatic control

- Difficulty to get consolidated prediction and analytics of capacity, fault, and performance trends

- Lack ability of Self Governance and Self healing

HOW CAN SODA HELP

- Unified API for data and storage management to adapt for multi-vendors

- Unified platform to build data solutions for different use cases and technologies

- Unified reference framework in hybrid cloud to manage global metadata with complex characteristics and multi-vendors

Collaboration, Innovation, and Success!