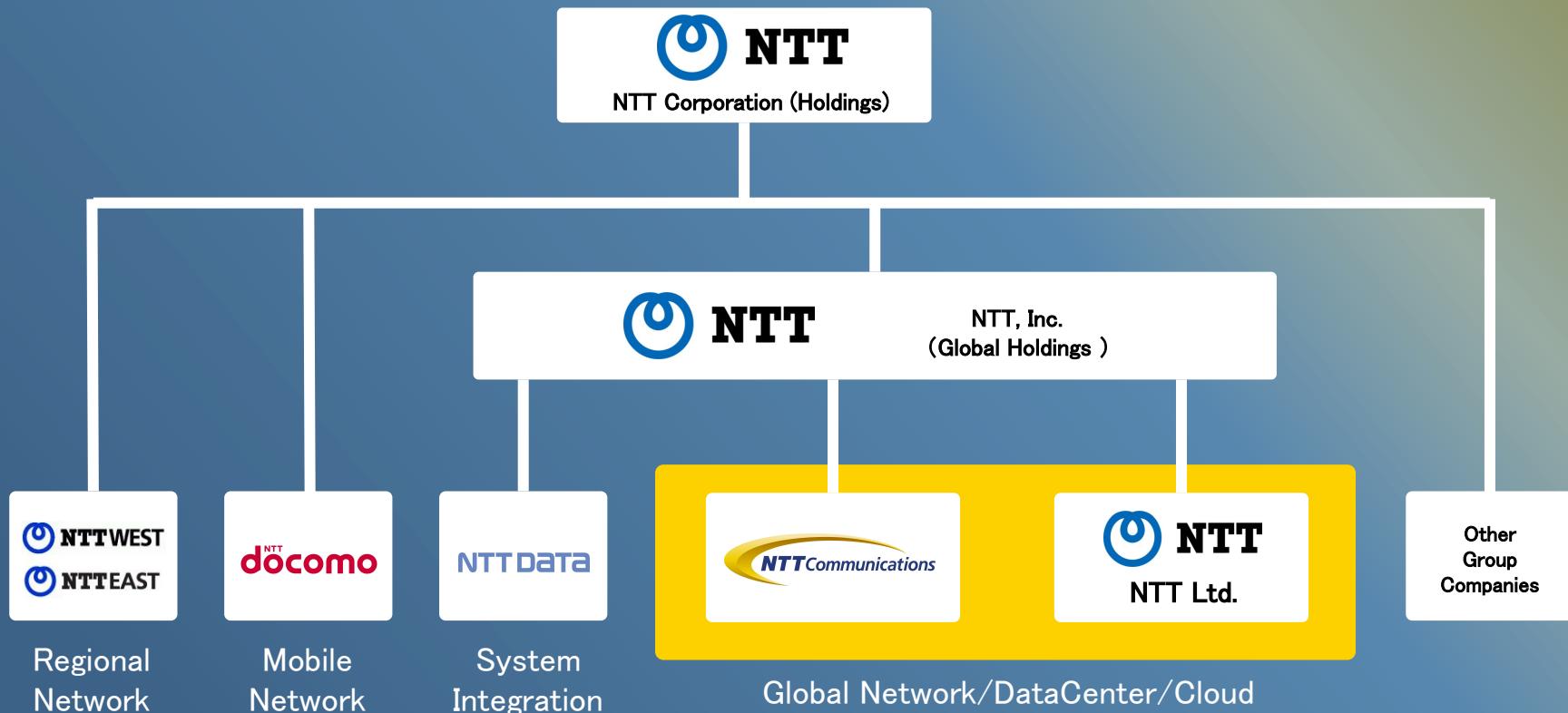




SODA Use-Case and PoC

Kei Kusunoki

Innovation Center, NTT Communications
SODA Technical Oversight Committee Co-chair



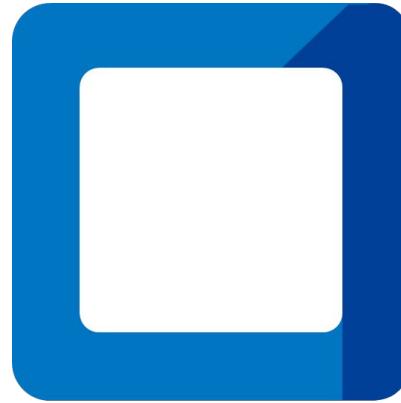
Increasingly expanding global coverage





Smart World





Smart
Data
Platform

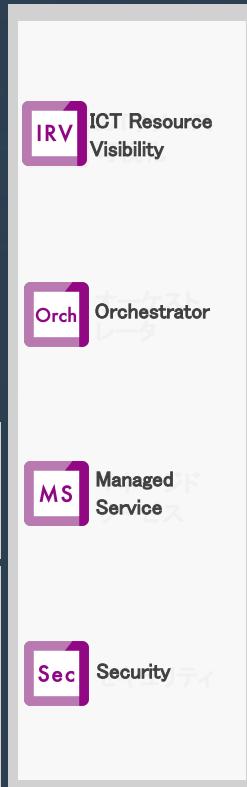
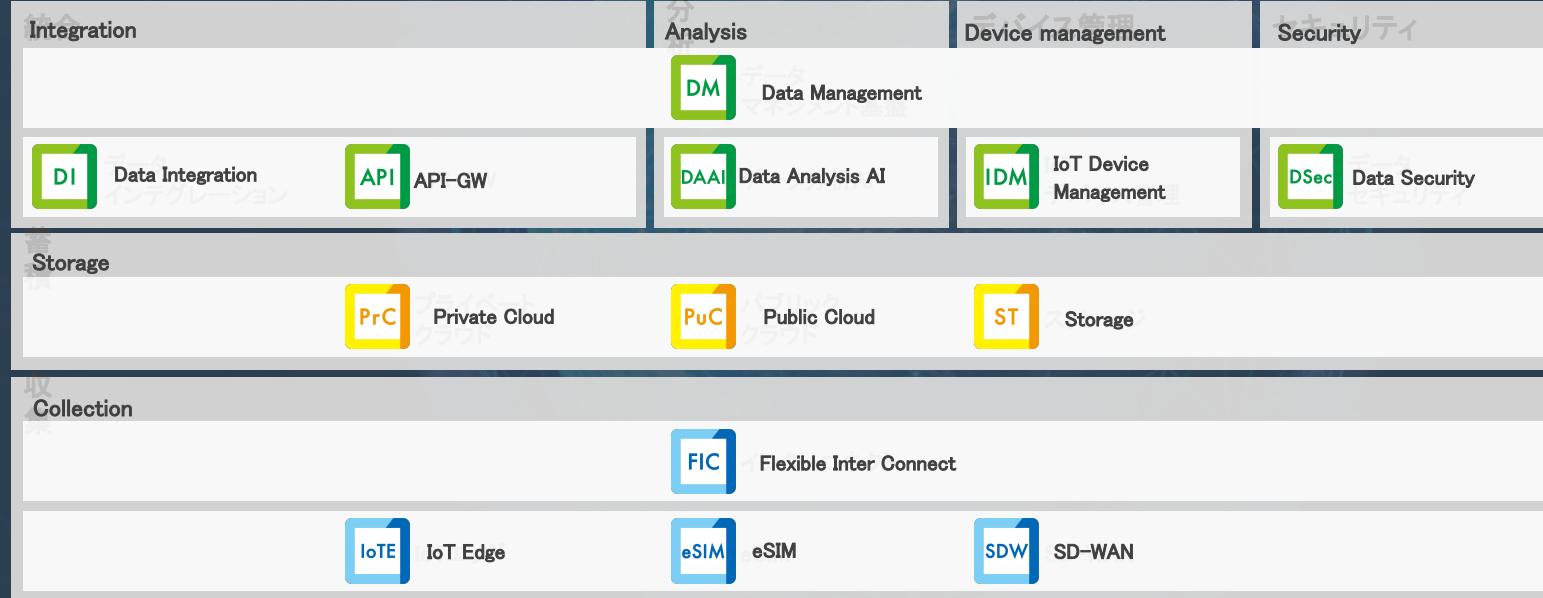
Platform enabling seamless data utilization

ALL in ONE: A broad range of service portfolio

Apps on Smart Data Platform



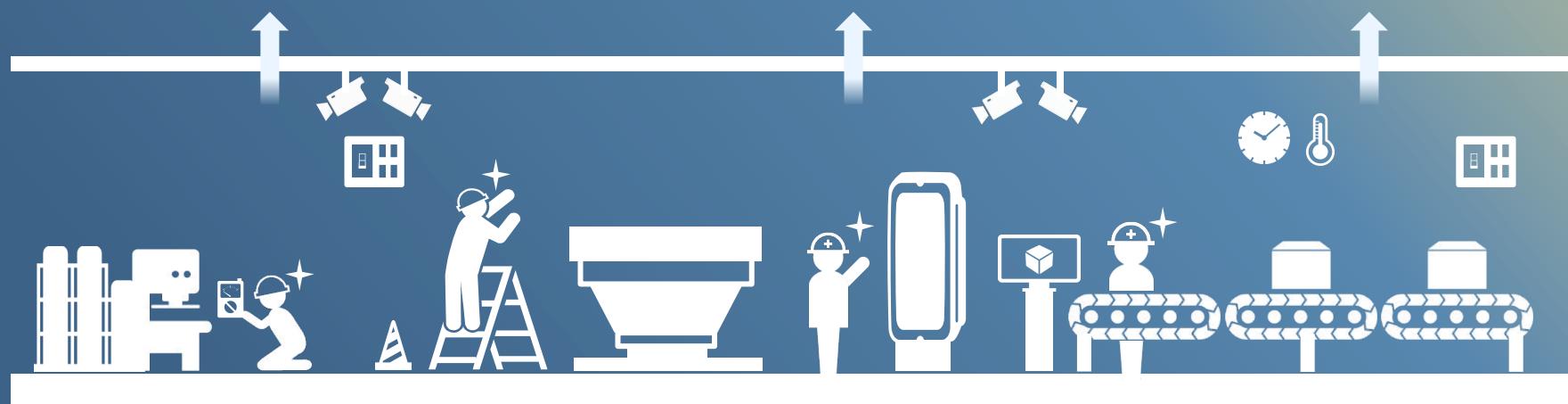
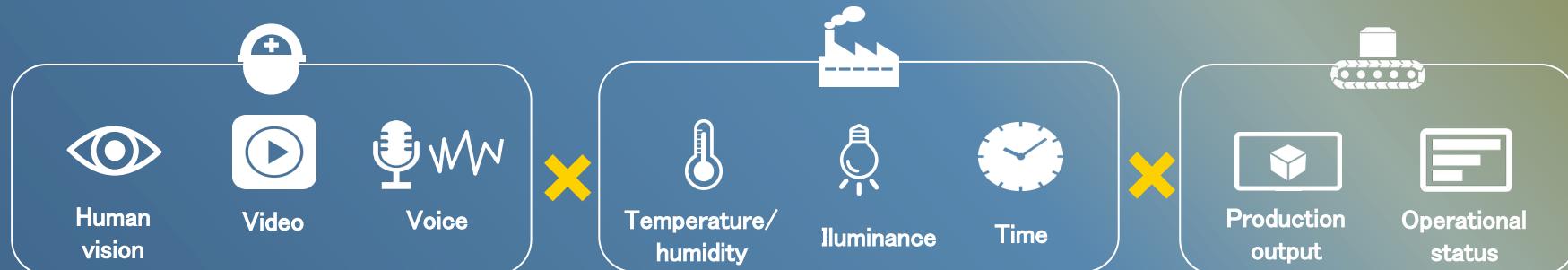
Smart Data Platform



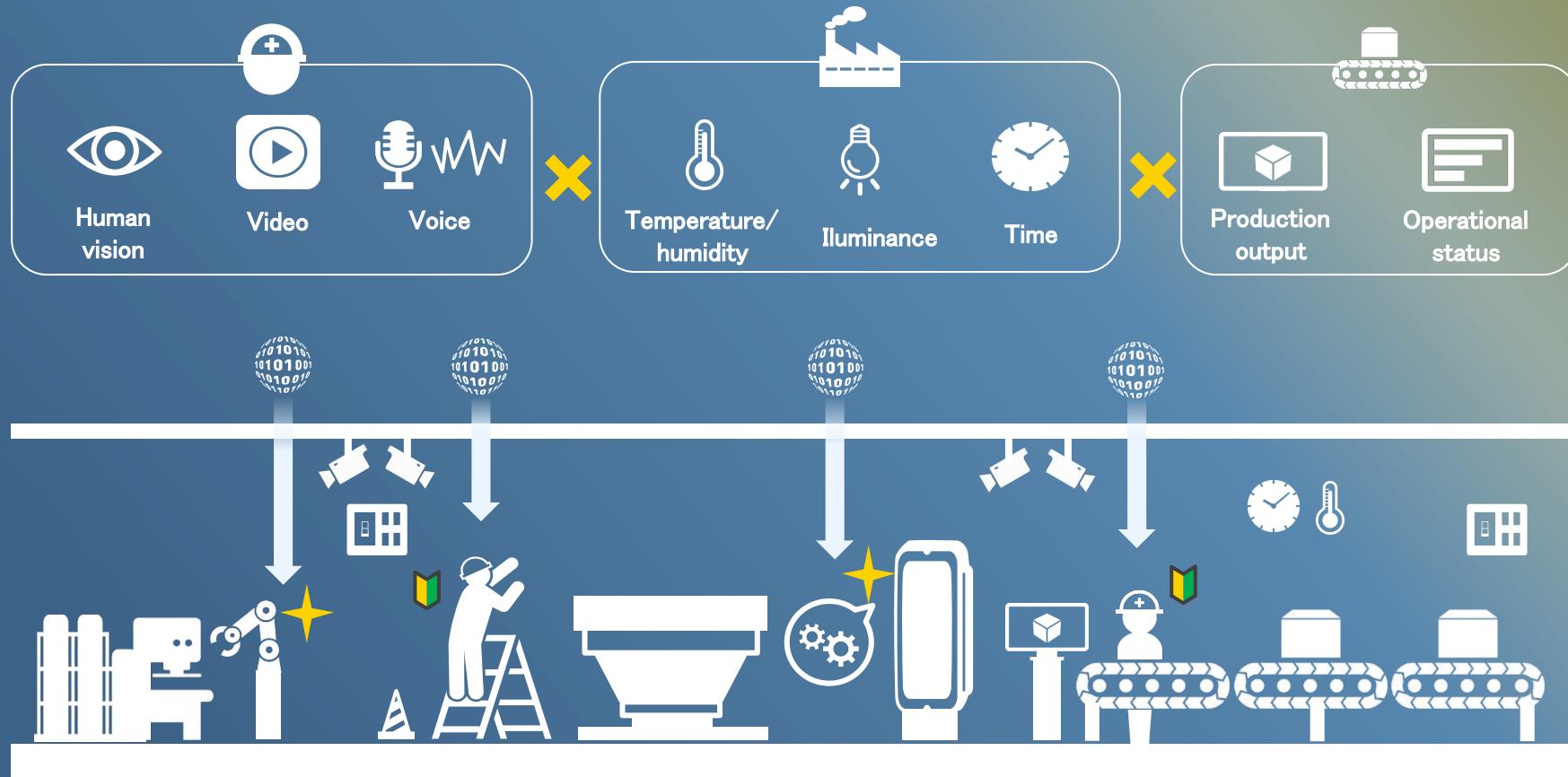
■ Storage Unified Orchestrator for our Cloud Storage

- Our Cloud:
 - ✓ VMware/Customized Openstack
 - ✓ Multiple Storage Vendor
- Current:
 - ✓ Original Storage “Controller” for Storage Provisioning
- Pain Point:
 - ✓ Need to make the controller for each vendor every time
 - ✓ Original API cannot be used from anything like Customer's VMware/OpenStack/K8s/Application

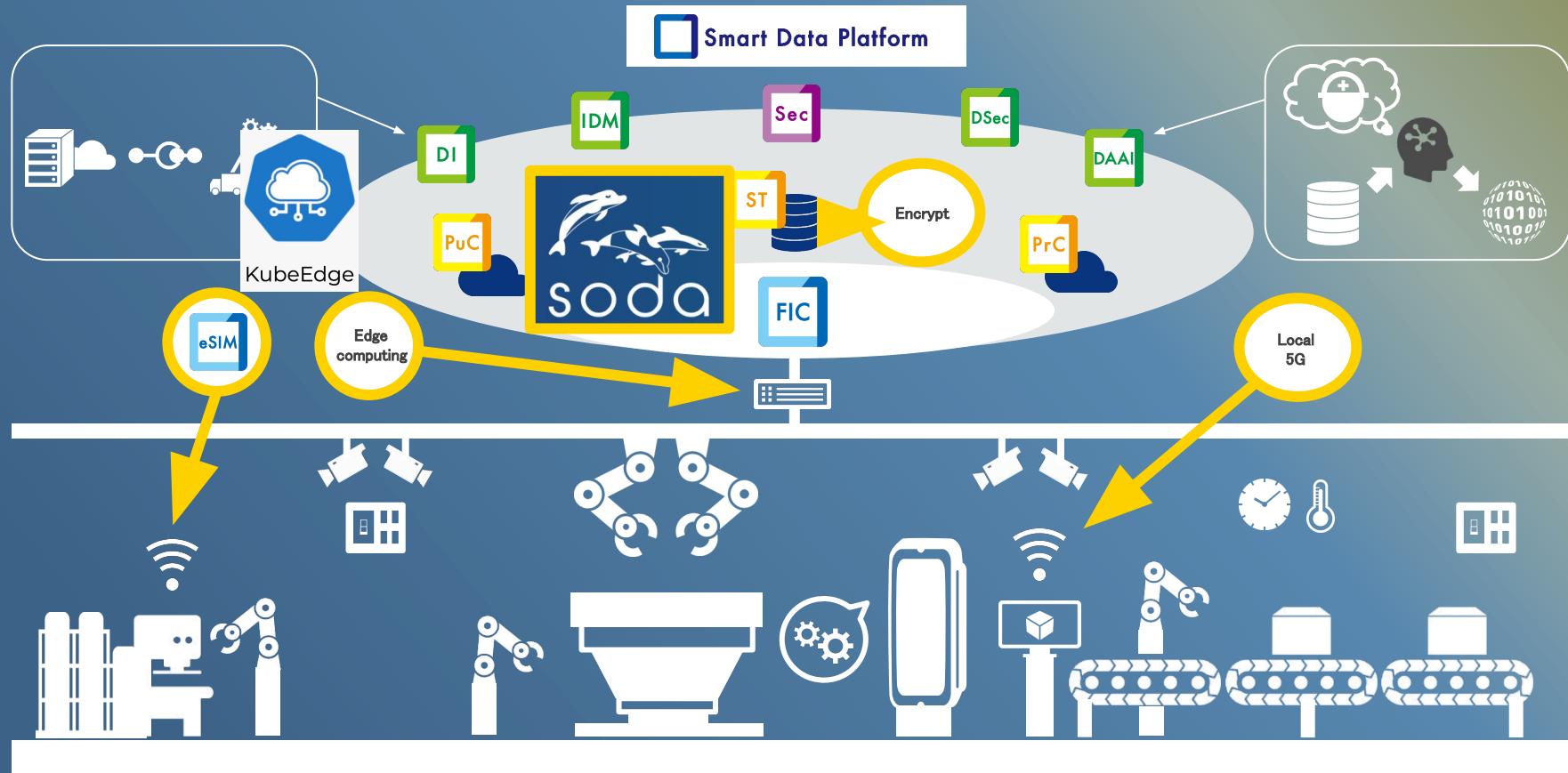
One Example: Diverse data in factory



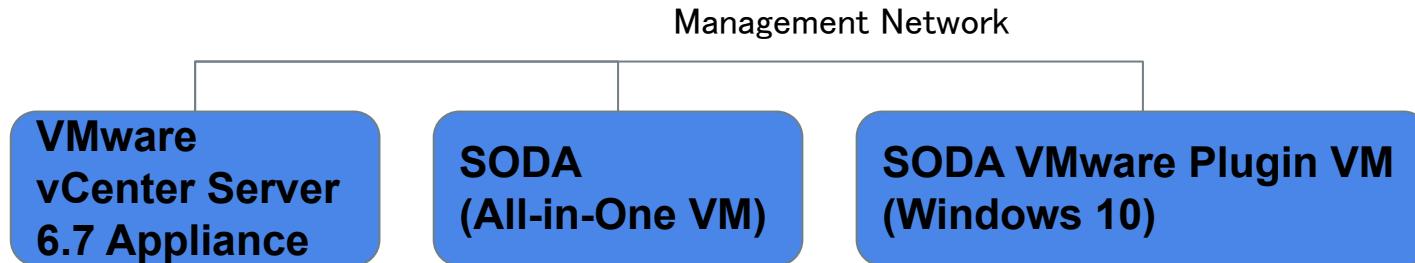
One Example: Diverse data in factory



SODA Integration Use Case (Image)



Our PoC Environment for VMware



- SODA: Quick Start Guide by Installer
- VMware Plugin: JDK, ANT, Maven, VMware Client SDK, Adobe Flex SDK

■ It's worked.

- vCenter Flash Console
- CRU Volume Operation for SODA LVM, Single ESXi Host
- Take/Delete Snapshot

■ Not worked.

- vCenter HTML5 Console
- CRU Volume Operation for ESXi Cluster
- Restoring Snapshot
- Operation for another storage appliance

■ No Function

- Delete Volume Operation
- SODA Pool Selection

- Our Use Case
 - Storage Controller
- VMware PoC Result
 - Basic Functions are OK
- We, end users have given SODA community the feedback about features/use cases