



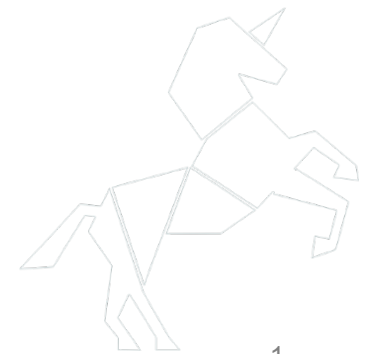
Flash Memory Summit

Computing Storage in the AI IoT Era

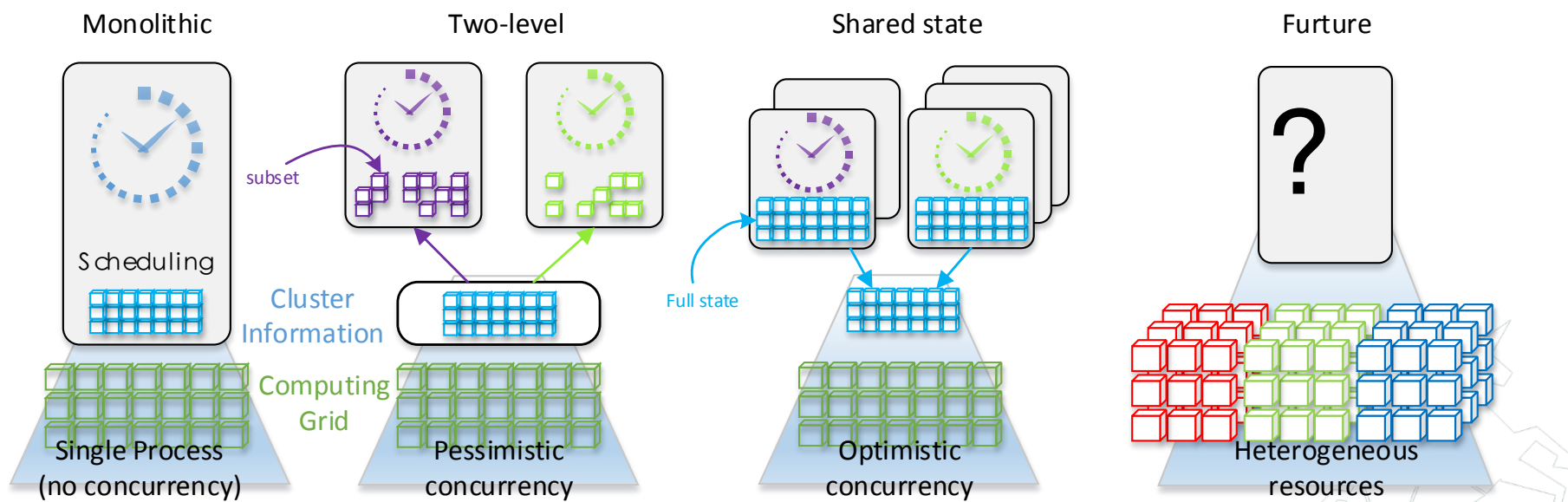
Starblaze

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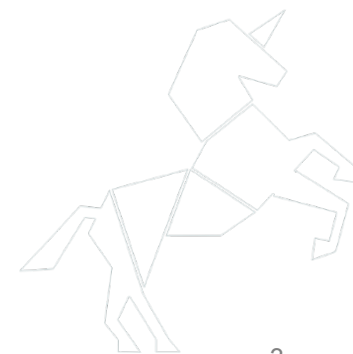
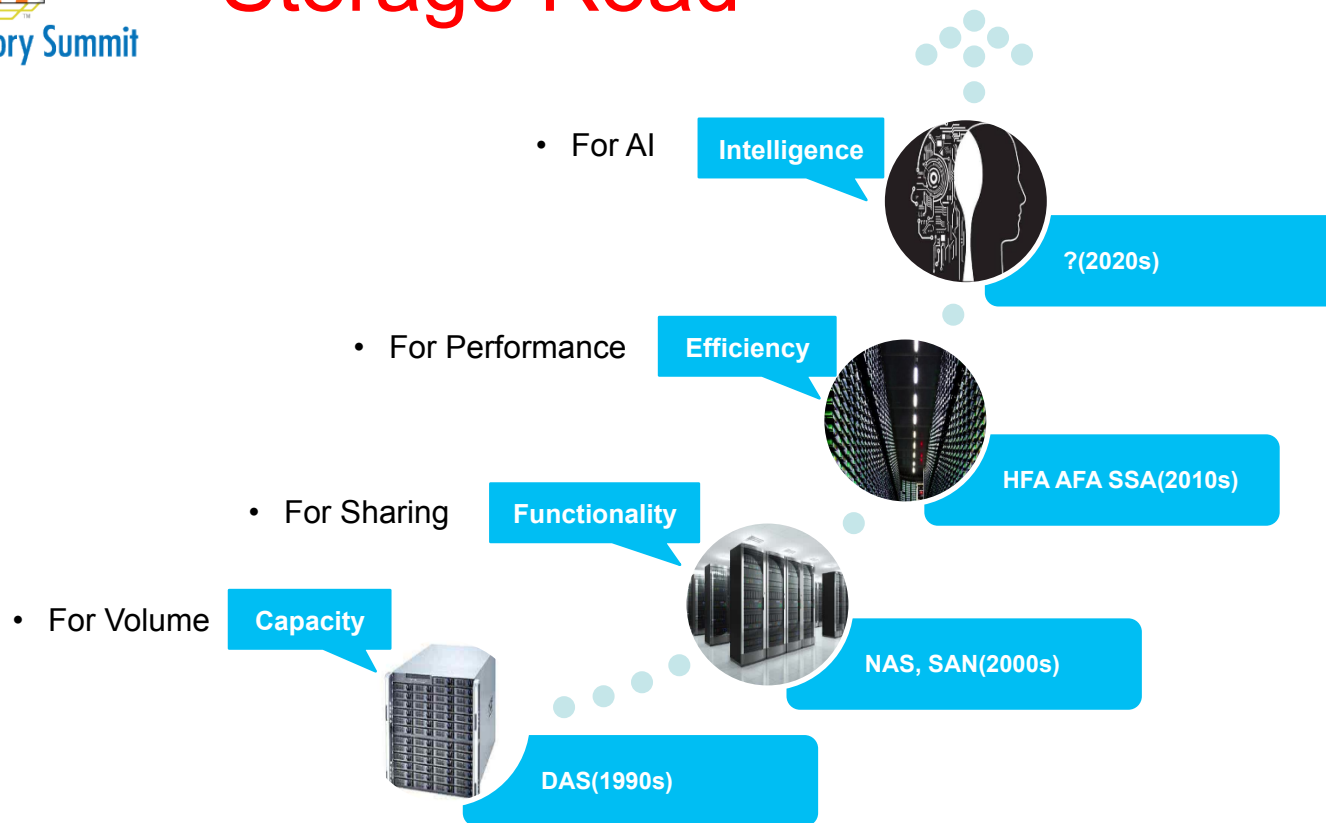


Computing Road



Based on Google Omega Architecture

Storage Road





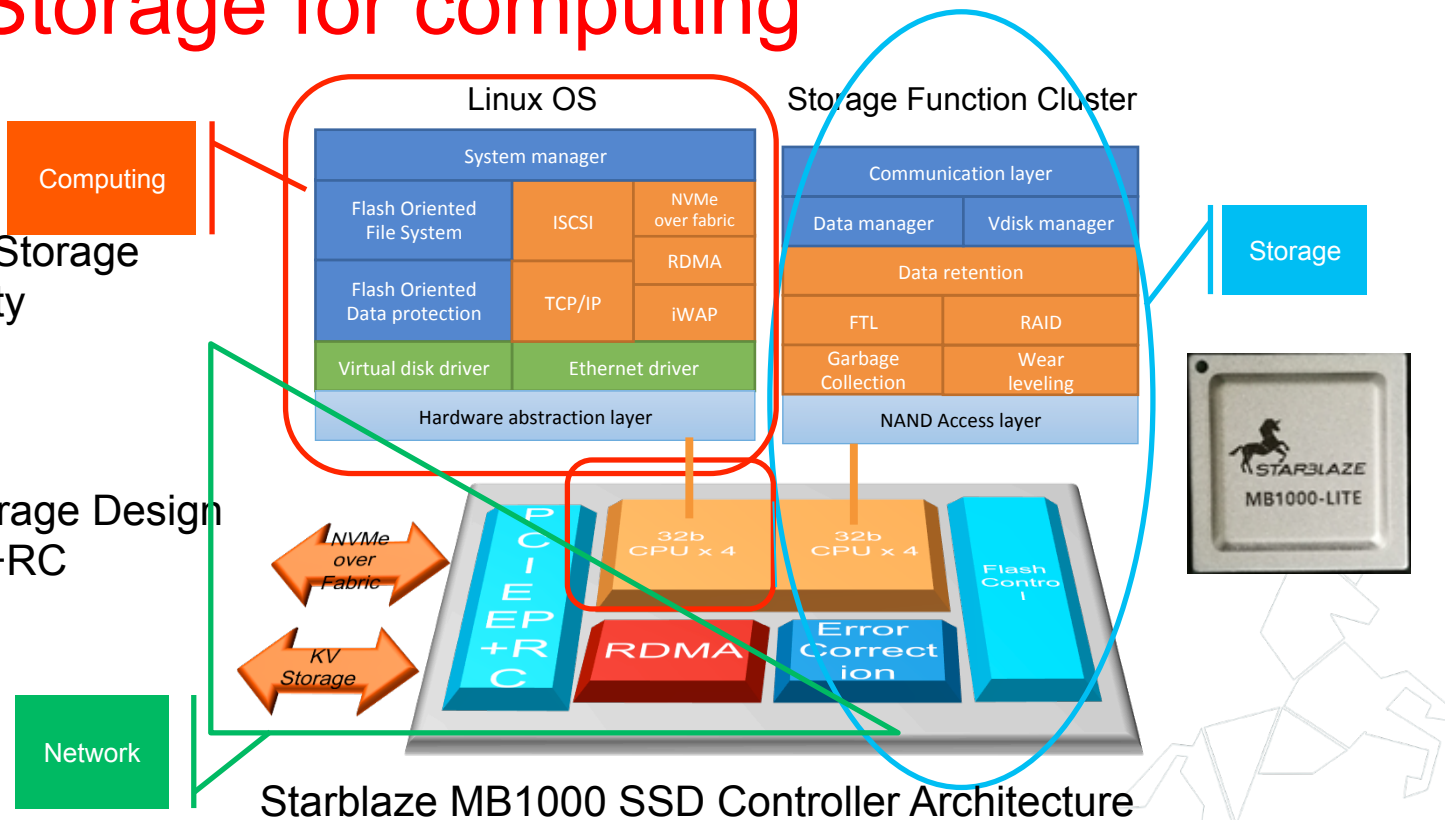
Storage for computing

Goal

- High Efficiency Storage
- Computing ability
- Network ability

Architecture

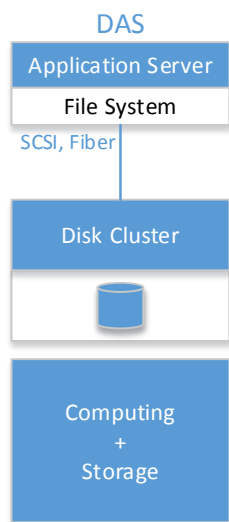
- SW defined Storage Design
- PCIe-Gen3 EP+RC
- StarNVMe®
- StarLDPC®
- StarFlash®
- 67+ Patents



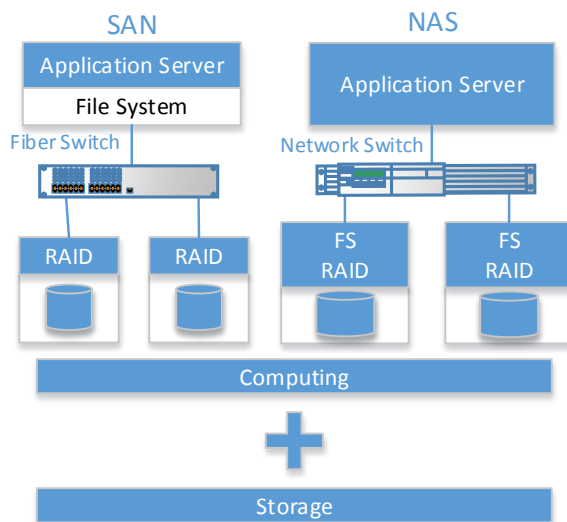


Flash Memory Summit

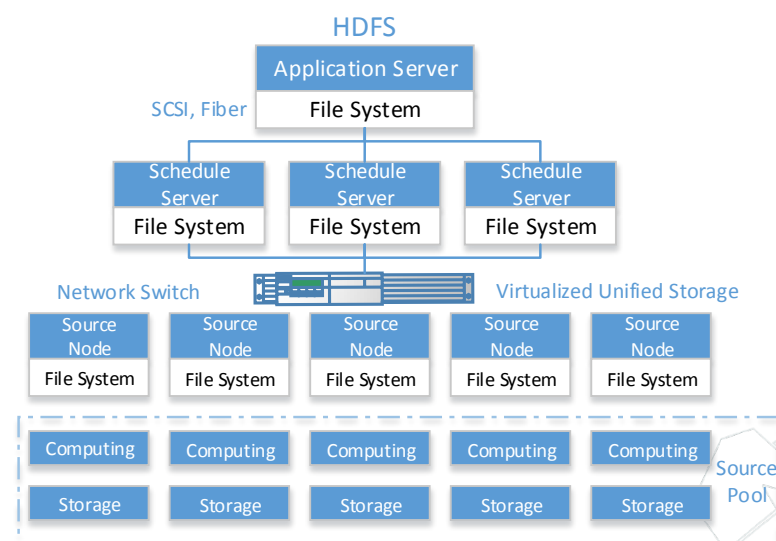
Application



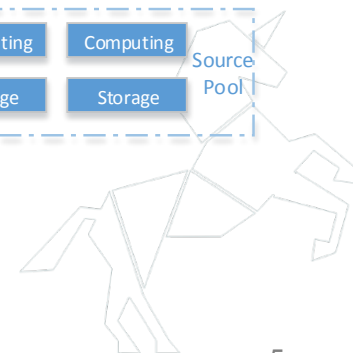
Unified



Separated



Shared





Ideal and Reality

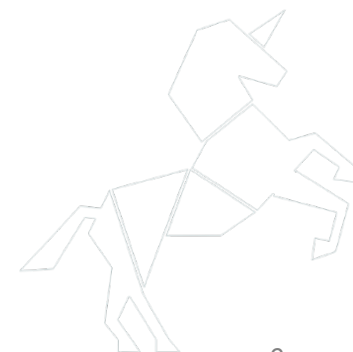
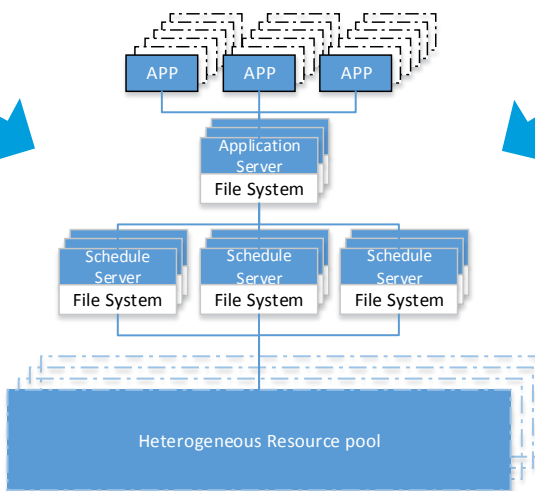


- Application: Transparent hardware
- Scheduling: Fully control



- Standardized protocol/throughput
- In apple-pie order component

Key point:
Cooperation between
Middleware and Hardware





Future oriented computing storage

Trend

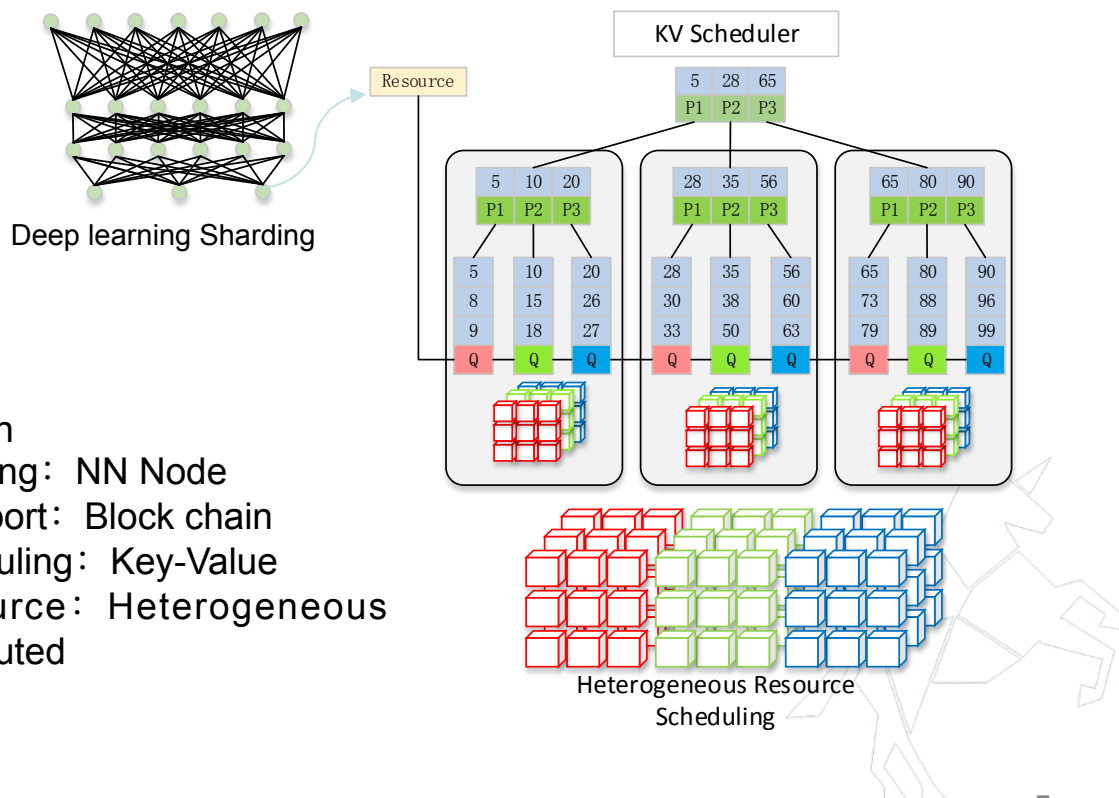
- Higher computing requirement
- Taking advantage of existing infrastructure
- Resource sharding
- Master/Slave
 - >Regional Autonomy
 - >Autonomy of all things

Request

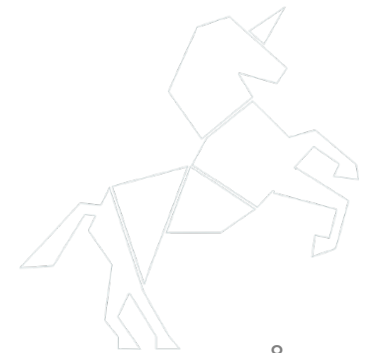
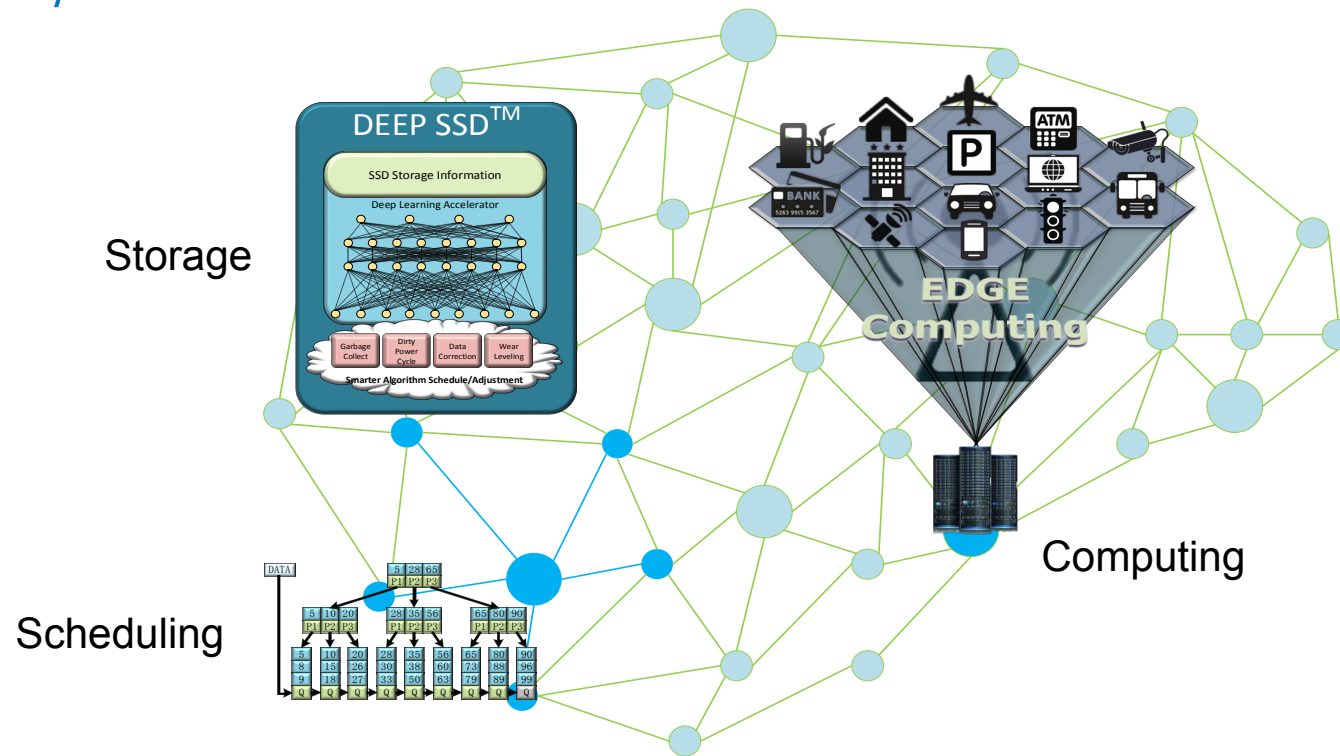
- Information Sharing
- Secure Transportation
- Resource Mutual Trust
- Decentralization
- Dynamic networking
- Intelligitization

Realization

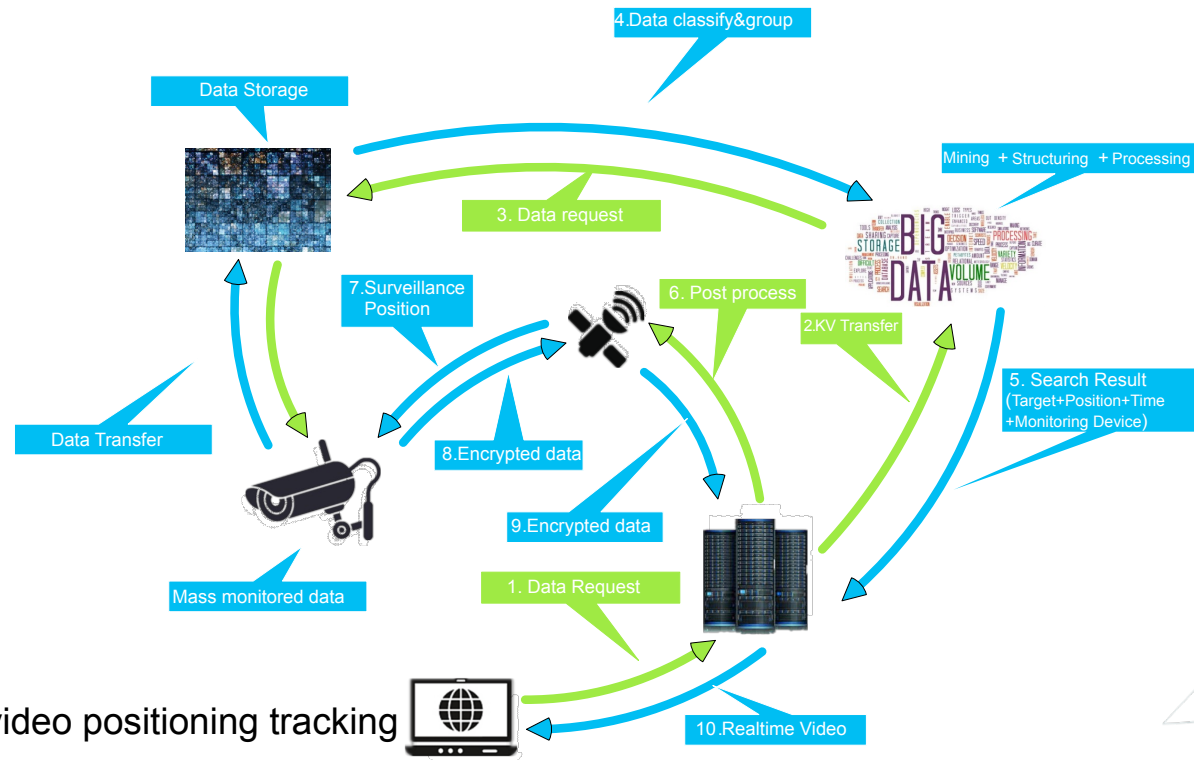
- Sharding: NN Node
- Transport: Block chain
- Scheduling: Key-Value
- Resource: Heterogeneous Distributed



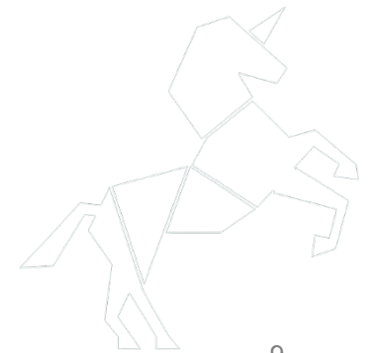
Future oriented computing storage



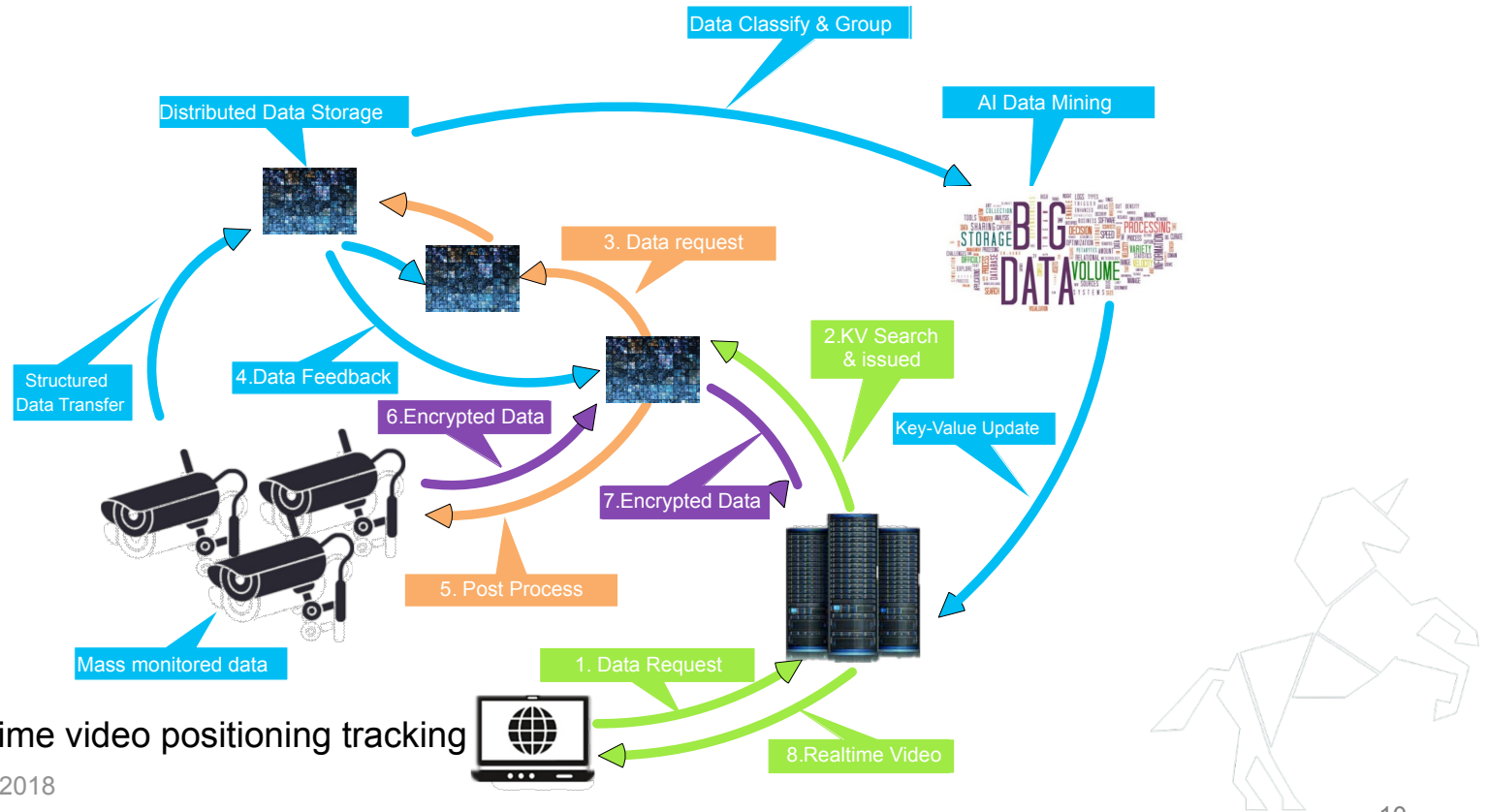
Interconnect Computing & Storage



Real-time video positioning tracking



“AI” Interconnect Computing Storage





Q & A

Thank you!

