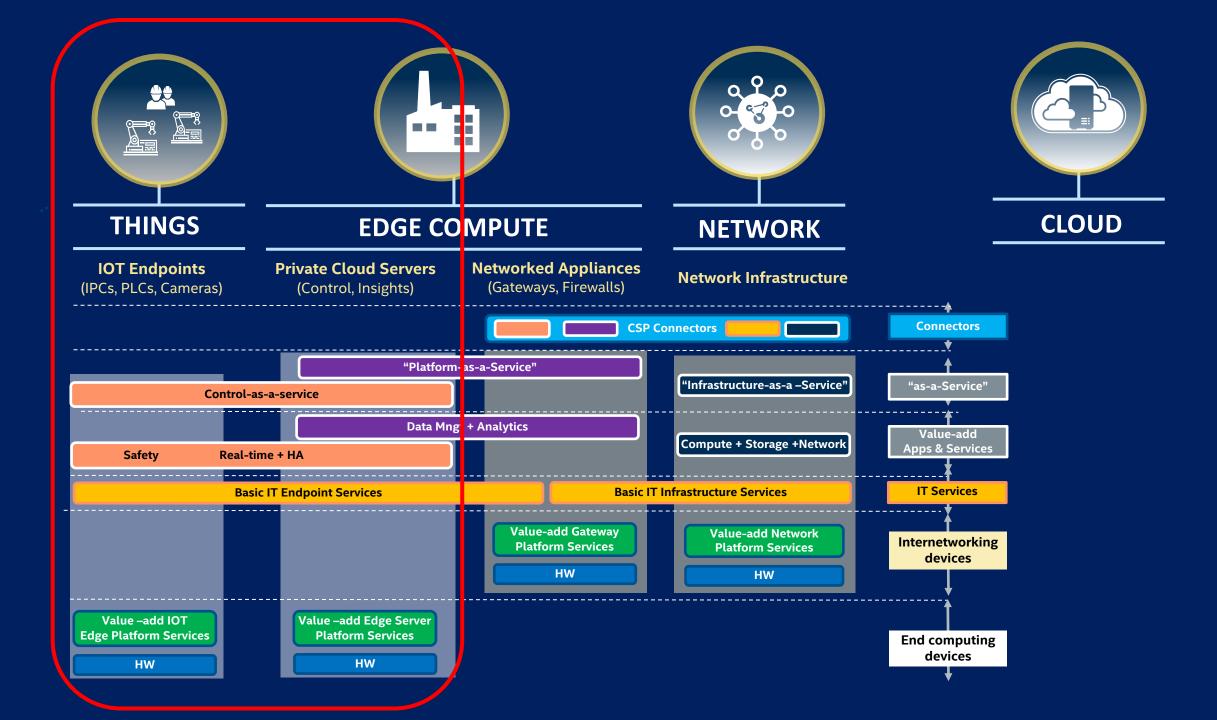
AKRAIIO EDGE STACK

Time-critical Edge Compute blueprint

https://wiki.akraino.org/display/AK/Time-Critical+Edge+Compute



Time-critical Edge Compute Blueprint: Use Cases

- Use cases in Manufacturing, Smart Buildings, general IIOT
 - \circ Virtualized PLC
 - Computer vision inference
 - Machine, sensor data inference
 - Process or discrete manufacturing closed loop control
 - Ethernet TSN
- Functional Safety capable use cases

 Discrete manufacturing soft PLC
- Onramp for 5G-URLLC

Time-critical Edge Compute Blueprint

- SW Contributors
 - o Intel
 - \circ IOTech
 - Huawei
 - WiPro
- Hardware Contributors
 - Dell (x86), HPE (x86), Huawei (ARM)

Containerized edge workloads

Containerized workloads orchestrated via Kubernetes tuned for embedded deployments

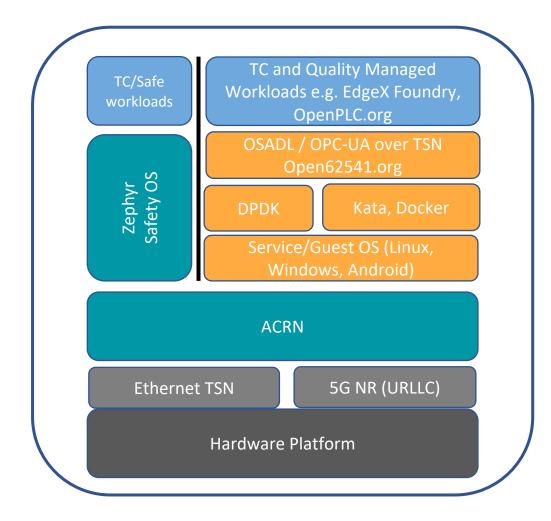
• Sample workloads include

Tensorflow via Kubeflow
OpenVINO for Video and Inference
Closed loop control (e.g. IEC 61131)

O EdgeX Foundry

Building automation controller

Time-critical Edge Compute Blueprint: Base Architecture



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