KubeCon
CloudNativeCon
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Is Service Mesh Ready for Edge-Native Applications?

Parveen Patel - Google
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Srini Addepalli – Intel
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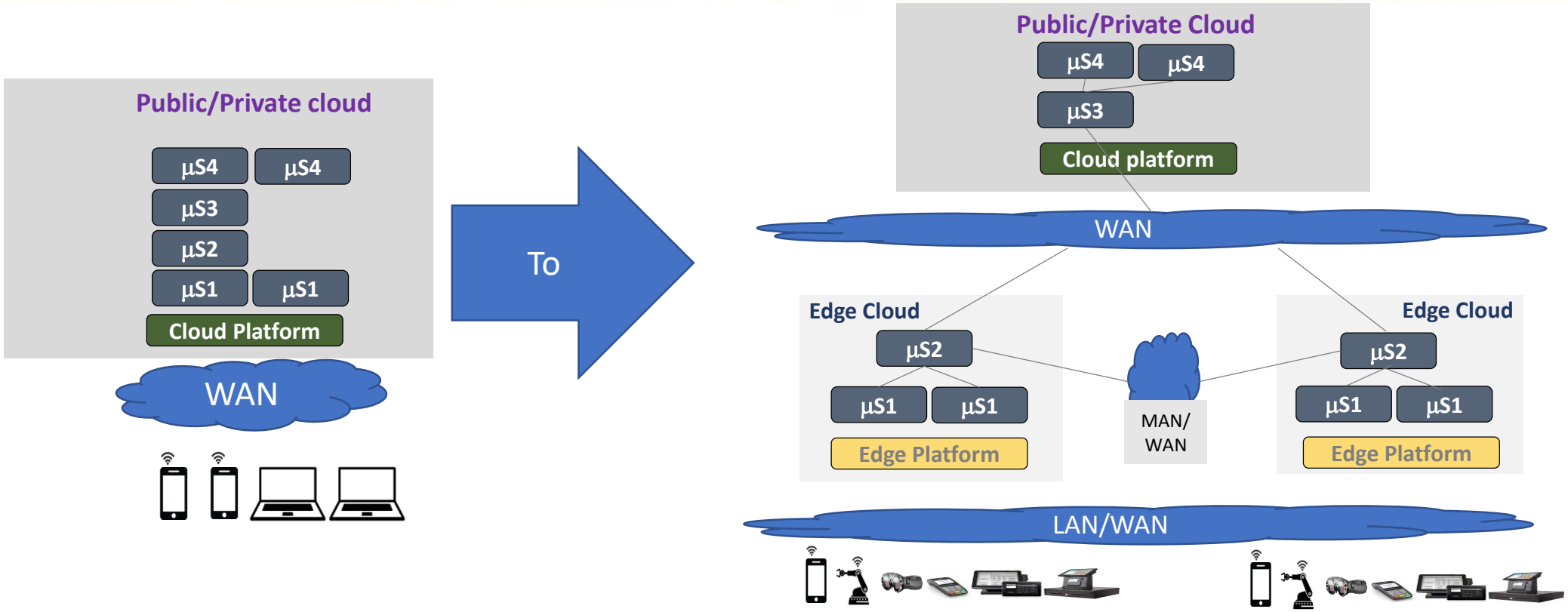
App Transformation -> Centralized to Distributed



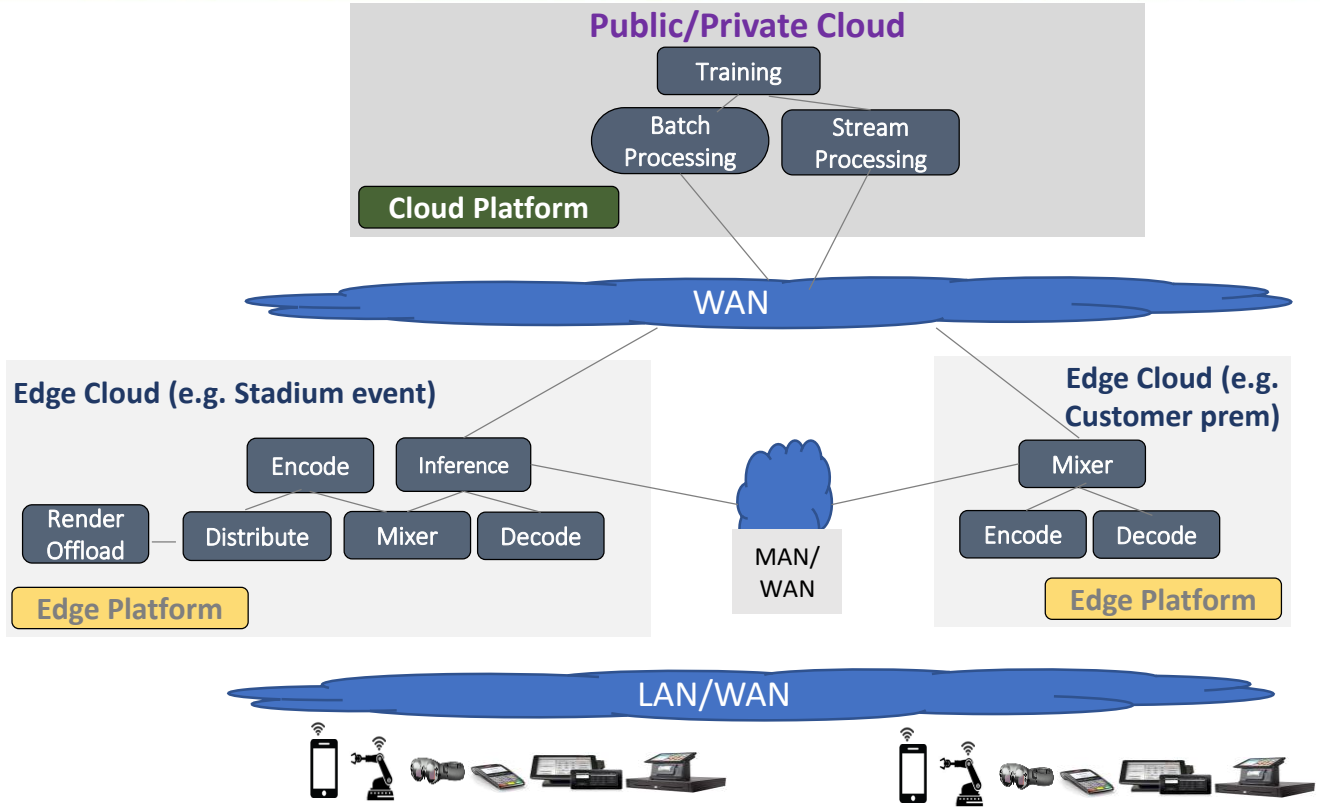
Key Drivers towards App Transformation

- **Proximity** – close to user for low latency etc.
- **Data sovereignty** – government regulations etc.
- **Cost** – WAN bandwidth cost etc.
- **Context** - location info etc.

Legend

µS – Microservice

Service Mesh (SM) for Distributed Apps



Cloud AR/VR Distributed App Example

- **Near-real-time processing, e.g. machine learning, in Public/Private Cloud**

Cloud AR/VR Distributed App Example

- **Real-time processing, e.g. mixing/inferencing, in Edge Cloud**

Legend

μS – Microservice

Panel Focus

- Discuss key SM use cases for distributed apps
- Discuss key SM challenges for distributed apps
- Solution direction for key performance/isolation/resource management challenges

Wrap Up

- Company Participation
  - Google
  - Intel
  - Verizon
  - VMware
    - Twitter - @ramkri123
    - LinkedIn - https://www.linkedin.com/showcase/vmware-nfv/; Twitter - @Vmwaretelco
- Related Talks/Events
  - Intro + Deep Dive: Specialized Network Protocols for IoT + Edge with Kubernetes