Summary

- **Who is it for?**
  - Our lead customers are application creators and device makers.

- **What?**
  - We are a *Deutsche Telekom-founded company* that has been operational since January 1, 2018. We were spun-off of a two year internal effort.

- **Purpose?**
  - We are building and empowering a community of application creators, device makers, network operators, hyperscale cloud providers, system integrators and policy makers.

- **How?**
  - We do this through open source software and a new business and operational model where we aggregate highly distributed operator infrastructure on a global scale and deliver normalized, abstracted interfaces to application developers and device makers. We allow for unique access to previously inaccessible assets with mobile operator infrastructures.

- **Why?**
  - We believe that **edge is the missing piece** in a new value chain that expands the types of devices on mobile networks, secures IOT, enables next generation content (AR/MR), readies mobile infrastructure for large scale handling of video ingress along with computer vision and machine learning services and is needed for autonomous devices.

- **Why now?**
  - Mainstream operator investments now include the building of accessible infrastructure (“clouds”).
Market Opportunity

Open up Near Edge + e2e

Four Sites of Computing

1. Embedded (Local) Compute
2. Centralized Cloud
3. On-Site Edge
4. Near Edge

Locations

- Connected / Autonomous Car
- Smart Home / Building / Factory
- Virtualized (5G) Base Stations
- Regional Data Centers
- Traditional In-Cloud Compute

Connectivity

Edge Computing is defined as any compute functions that occur between the device (client) and the server (static, centralized back-end).
Benefits

Developers have predictable access to unique edge resources and services

DEVICES

Faster Infrastructure modernization for Technology Suppliers

NETWORKS

NEW Revenue Streams

CLOUD

Easier

Distributed Scale Faster

Developers have predictable access to unique edge resources and services

Faster Infrastructure modernization for Technology Suppliers
Software Architecture

**DEVICES**
- Native Device
- SDKs
- APIs

**NETWORKS**
- Edge Services
- Distributed Matching Engine

**CLOUD**
- Edge-Cloud Controller
- Cloudlet Resource Manager
- Cloudlet Compute Resources
- Public Cloud
Mobile servers to support mobile clients

Static and geographically distant cloud
Client has become mobile but backend is still location unaware and static
Edge Services

**Assurance & Security Services**
*What:* Exposing network metadata to developers
*Developer Benefit:* Utilizing network identity and optimizing service execution
*Example:* Mitigating on-device location spoofing

**Augmented Control Systems**
*What:* Augment control systems at the edge
*Developer Benefit:* enabling hyper-local app collaboration use cases
*Example:* Drone swarm control

**Data/Compute Offload**
*What:* Processing specific functions off-device in Edge cloud
*Developer Benefit:* Overcome device limitations
*Example:* Advanced video pre/post-processing
Thank you.