



Revolutionizing XR Experiences with the Power of the Edge

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MobiledgeX





MobiledgeX is creating a marketplace of edge resources and services that will connect developers with the world's largest mobile networks to power the next generation of applications and devices.



Based in
**San Francisco,
California**

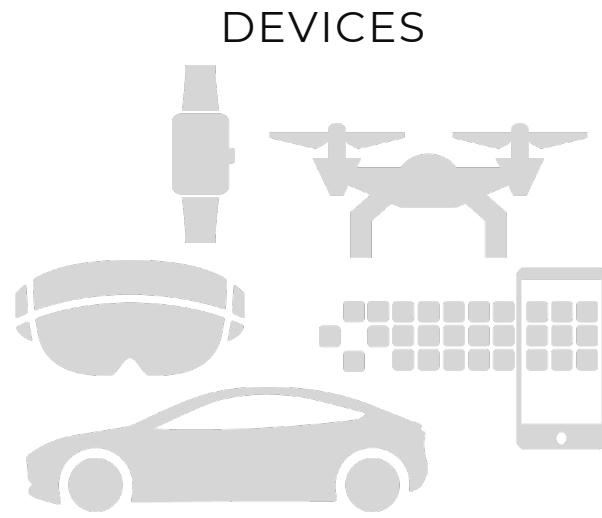


Founded by
Deutsche Telekom
in 2018



Visit
Mobiledex.com

Current State



3.7 billion
devices

NETWORKS



1.7 Trillion USD
CAPEX last 10 years

(mainly used as bit pipe)

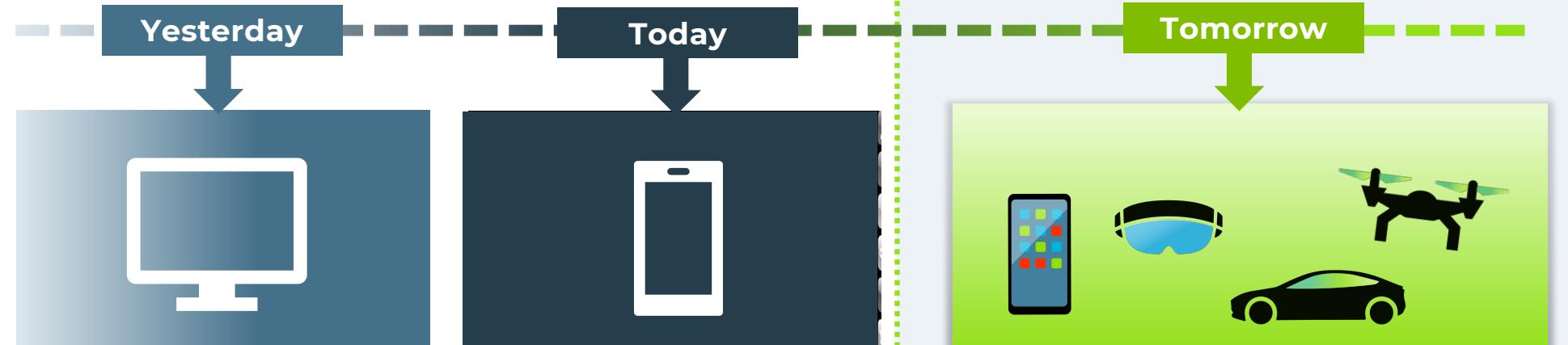
CLOUD



300 Billion USD
CAPEX last 10 years

Emerging new class of applications

Pervasive and Immersive



Device: PC

Interaction: Web based

Content: Primarily static

Device: Smartphones/Tablets

Interaction: Web/App based

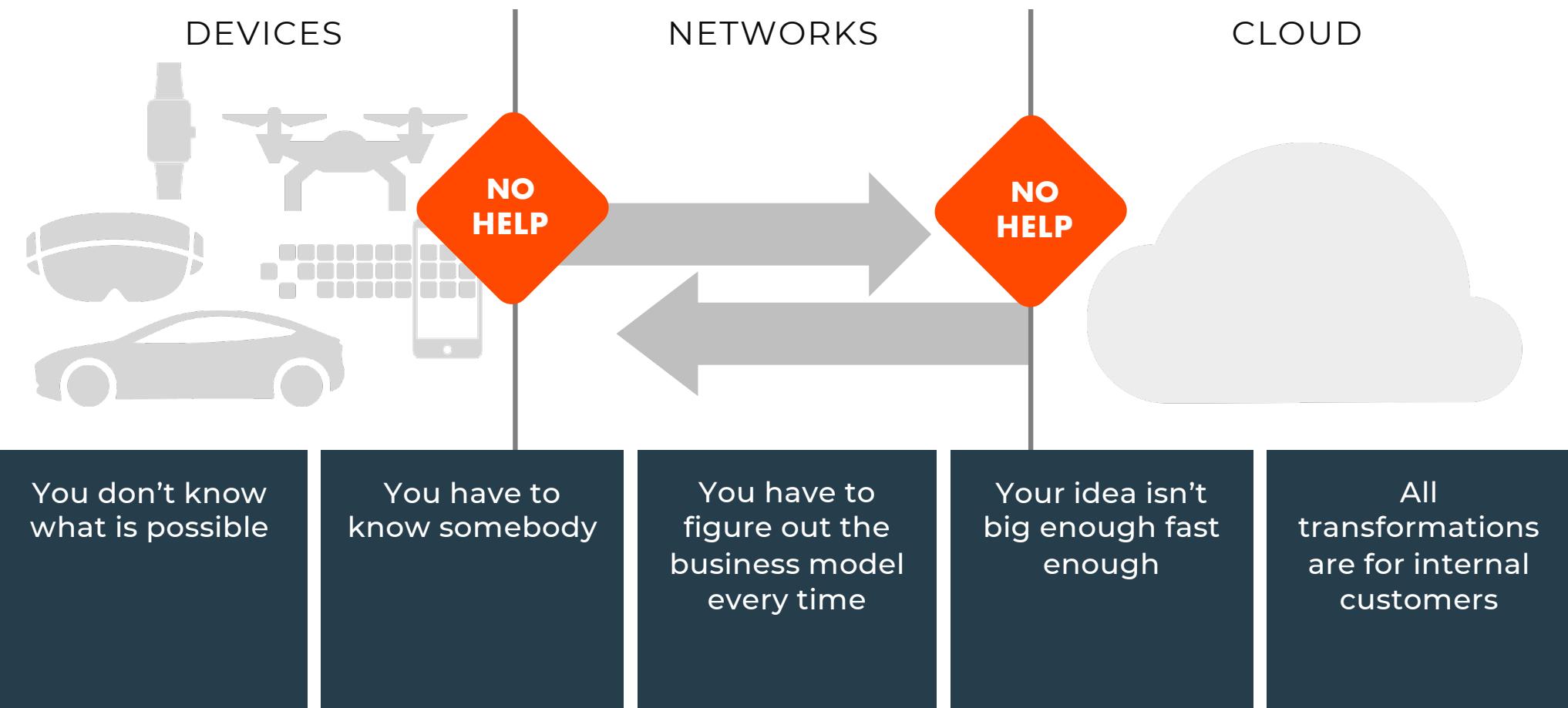
Content: Increasingly video

Device: Smartphone/Tablets, IoT, Next-gen

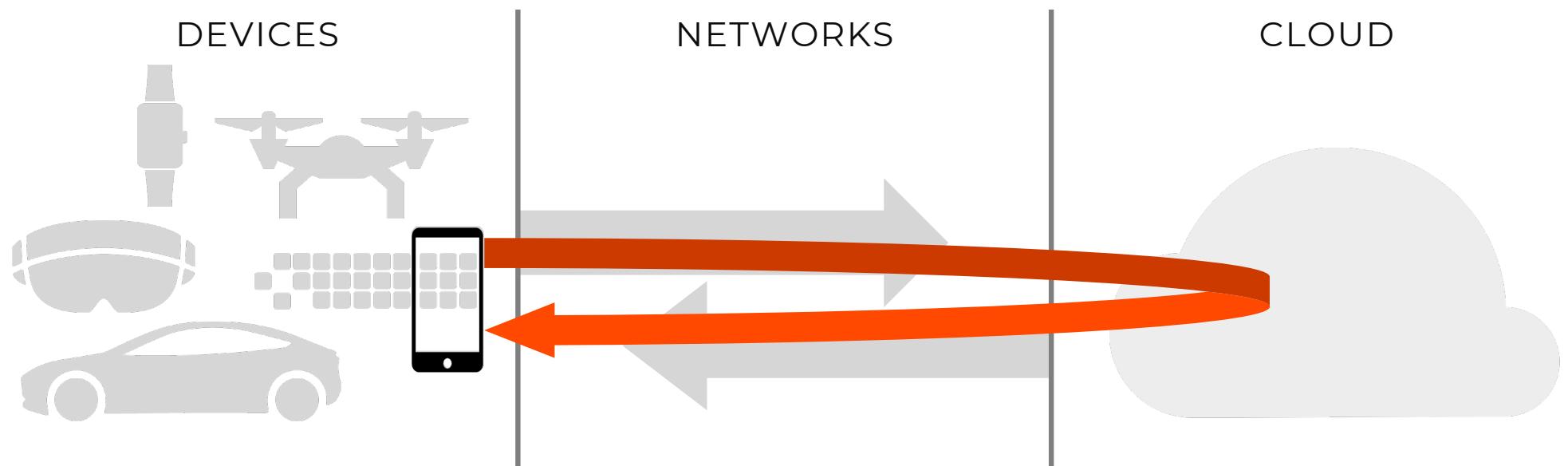
Interaction: AI-based, Natural Interface, Machine

Content: Video heavy, Interactive, Latency sensitive, High IO

Inefficiencies and Obstacles for Developers



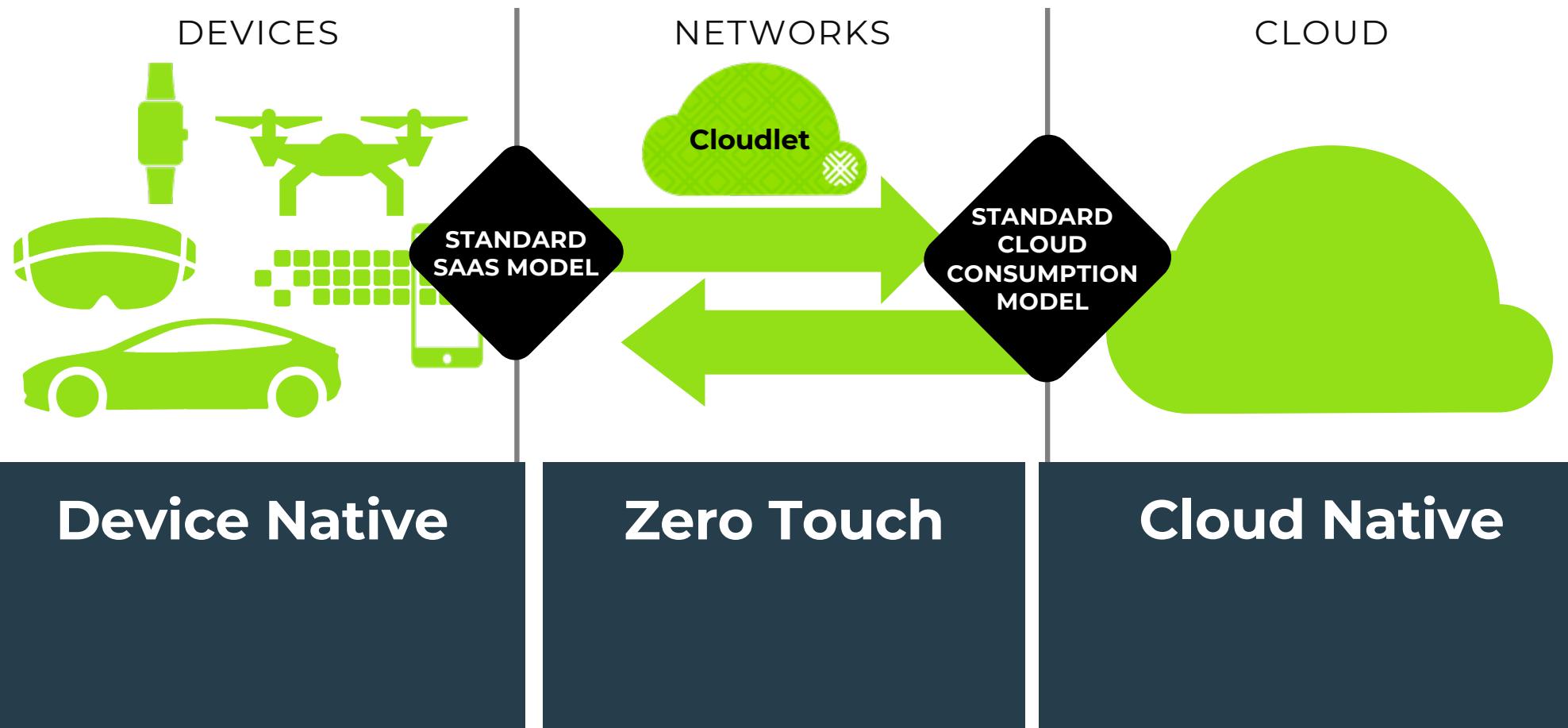
Client is mobile – Cloud is static



Static and geographically distant cloud

Client has become mobile but backend is still location unaware and static

There is a better way



Live in production in Germany



World's First Public Mobile Edge

Introducing MobiledgeX Edge-Cloud R1.0

MobiledgeX Edge-Cloud R1.0 enables application containers to be deployed with the same simplicity as over-the-top, hyperscale datacenter-based cloud providers. The product powers compelling new use cases already live in networks today, including:

- Automatically deploying application backends close to users based on their Verified Location and Identity
- Augmented Reality and Mixed Reality Performance Support
- Video & Image Processing That Meets Local Privacy Regulations

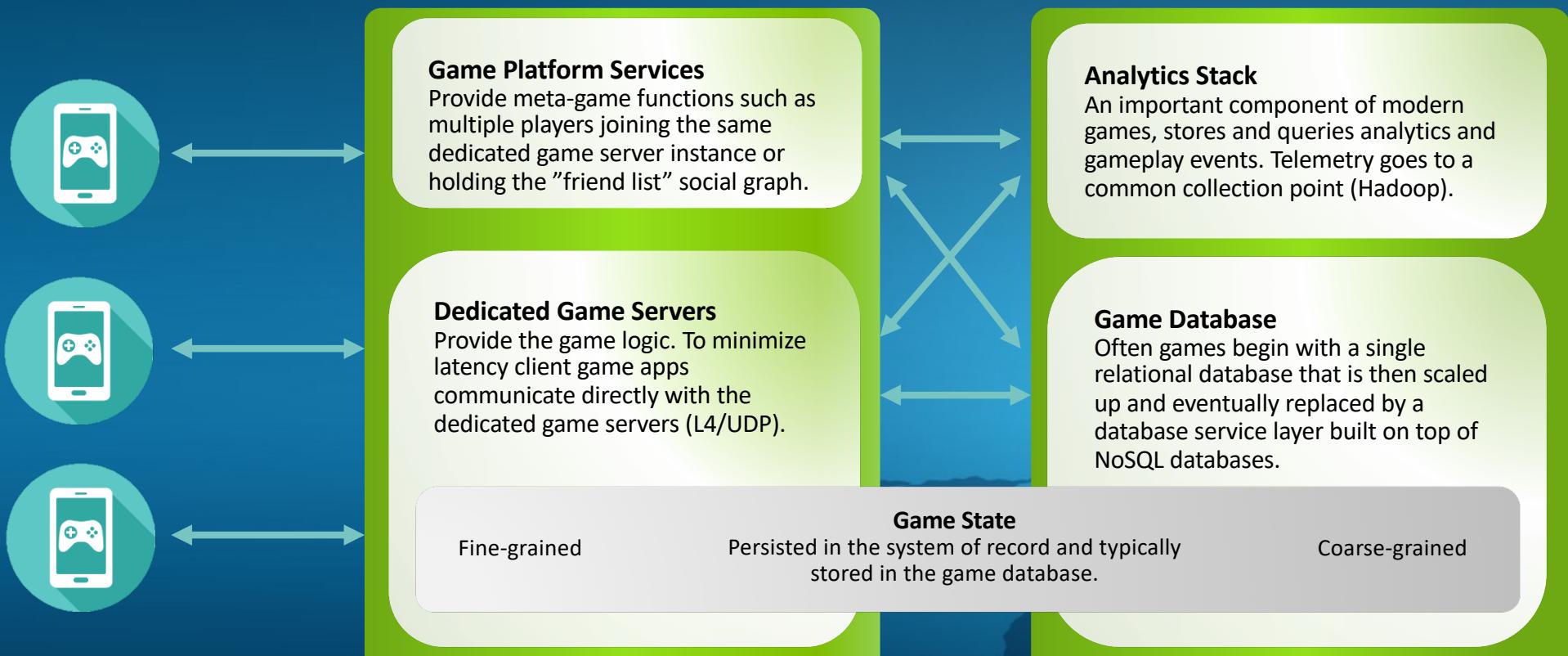
World's First Mobile Edge Mixed Reality Multi-Gamer Experience

◀Mobiledge▶ N A N T I C T . . S A M S U N G

- **2,000+ visitors** to multi-player AR game demo with Niantic & Samsung (#1 traffic in Deutsche Telekom's booth)
- Executives from **more than 15 operators** played the game & experienced the developer console
- More **than 25 articles** mentioned the demo

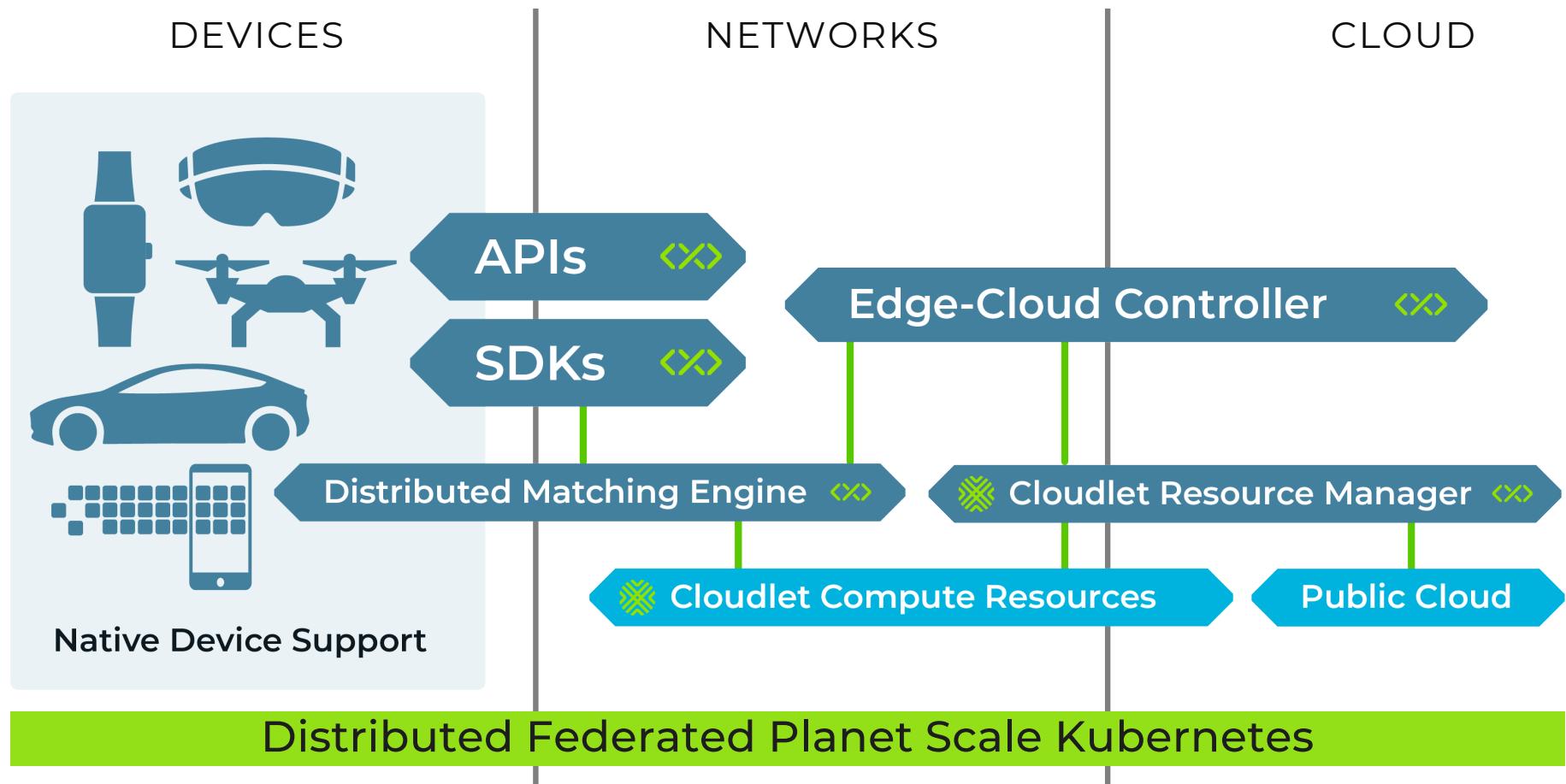


MobilegedgeX, Samsung, Niantic, DT



Better responsiveness for massively scalable multiplayer/AR games

MiledgeX Edge-Cloud



Three Technical Pillars

Bringing Cloud
Closer to
Users/Devices

Managing Privacy:
Federated,
Distributed, Planet
Scale Container
Orchestration System

Safer Edge with
Trusted Users,
Applications and
Networks

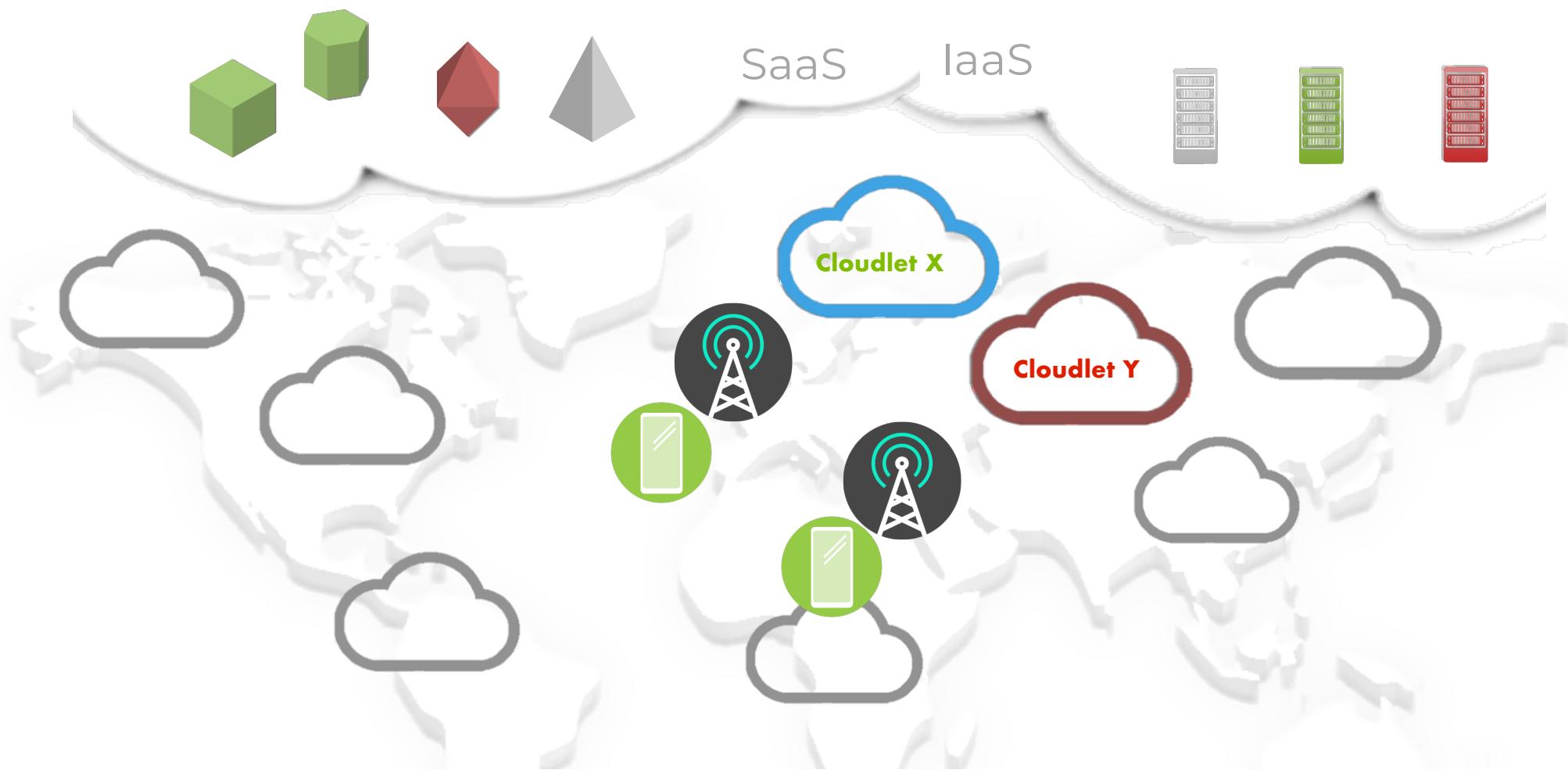
Edge-Cloud Offers a per country architecture
for addressing country- specific data privacy
laws while offering a global marketplace and
single pane of glass to developers



Bring cloud closer to device

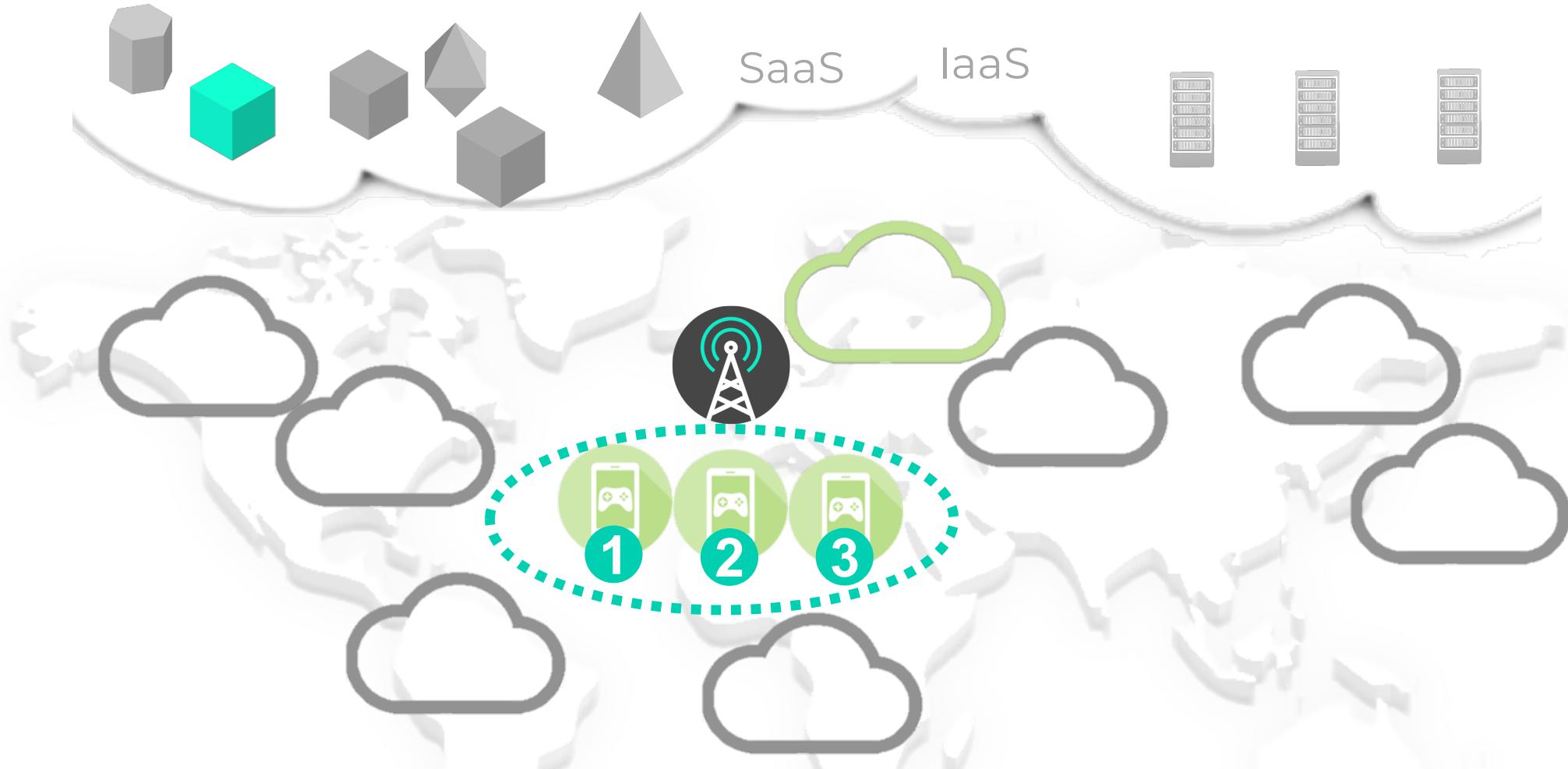
Make backend Mobile

Mobiledge



Devices Group and work together

Device and Dynamically Discovered, Grouped & Controlled



Managing Privacy

FEDERATED DISTRIBUTED PLANET SIZED KUBERNETES

Global, Homogeneous



Distributed Federated Global Control Plane:

Global required data – Developer enablement, introspection, settlement, developers, global policies, applications registry.

100's

Distributed Zonal Control Plane:

Country required data – local policies, devices/users, compliance, governance

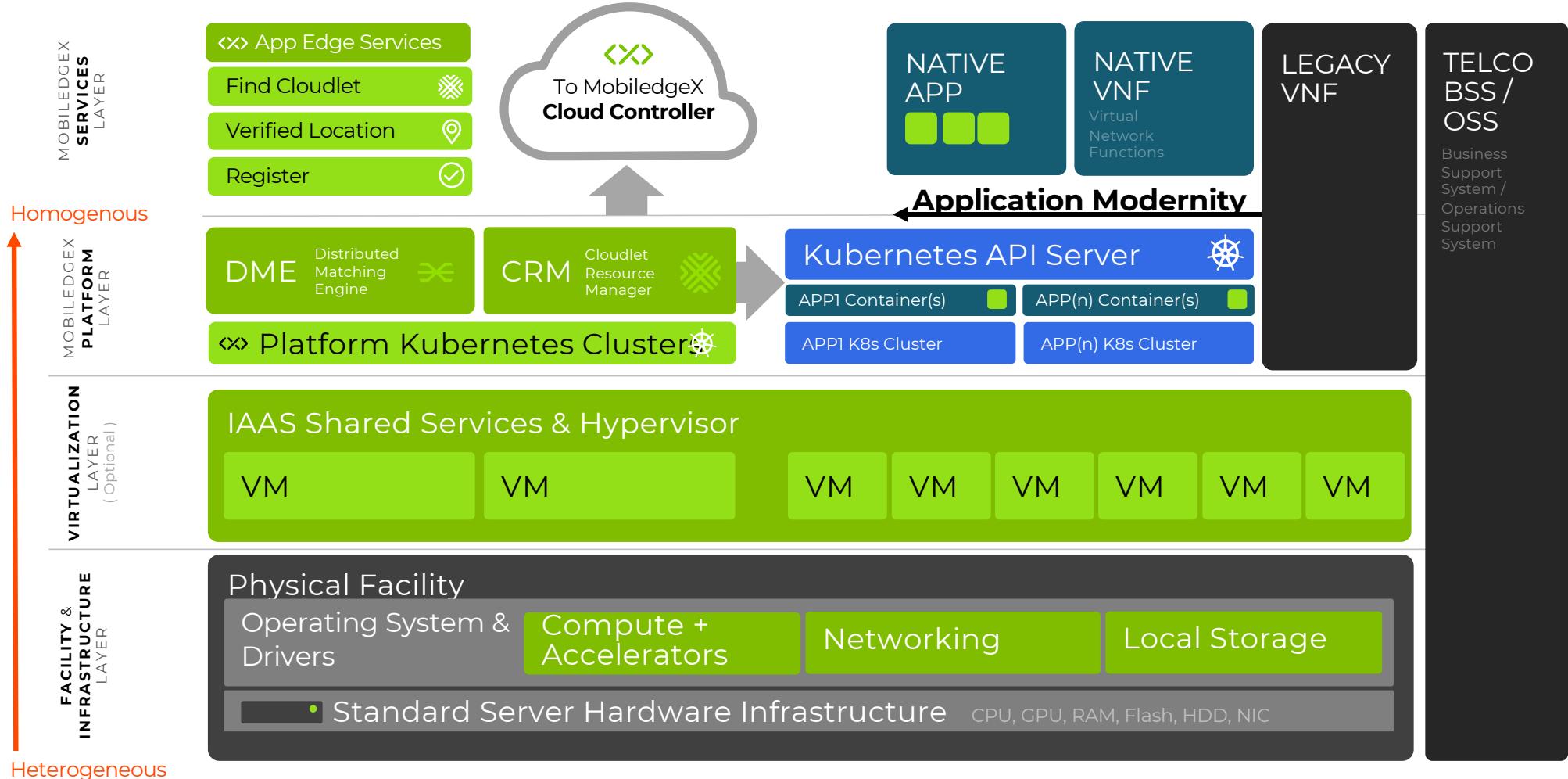
100,000's

Cloudlet Assurance, Integrity and Governance:

Operational required data – device specific data, status, instantiation, performance, usage,

20-100M Devices Across the Planet interacting with the system at any given time. Creating services using devices, networks, clouds as one global entity with federated policies and local compliance

Building a Safer Edge Architecture





Developer Communities & Open Labs



Why LF Edge? To consolidate disparate industry edge initiatives.

Why MobilegedgeX? To drive the correct approach, delivery and industrialization of a distributed federated control plane.



TELECOM INFRA PROJECT

Why TIP? To drive innovation, financial performance and efficiency in all aspects of telecom infrastructure.

Why MobilegedgeX? To ensure accessibility and maximum utilization potential from the perspective of market demand.



MobilegedgeX is not a direct member, but is participating via Deutsche Telekom to showcase certain edge use-cases with other operators.



Why hub:raum? DT initiative to accelerate 5G and edge customer understanding and adoption potential.

Why MobilegedgeX? To get early market access to potential demand and needs and ensure delivered edge services meet those needs.



World Wide Technology

Why WWT/Advanced Technology Lab? Certify vendor infrastructure configs that can then be delivered with industrial scale and cost.



openEDGEcomputing

Why OEC? Academic partnership and consolidation of industry players to best understand what is possible/needed.

Why MobilegedgeX? Access and participation in edge computing knowledge, value, learnings.

Thank You!

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