

Revolutionizing XR Experiences with the Power of the Edge

Rolf Muralt, VP Product

MobileEdgeX





MobiEdgeX 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

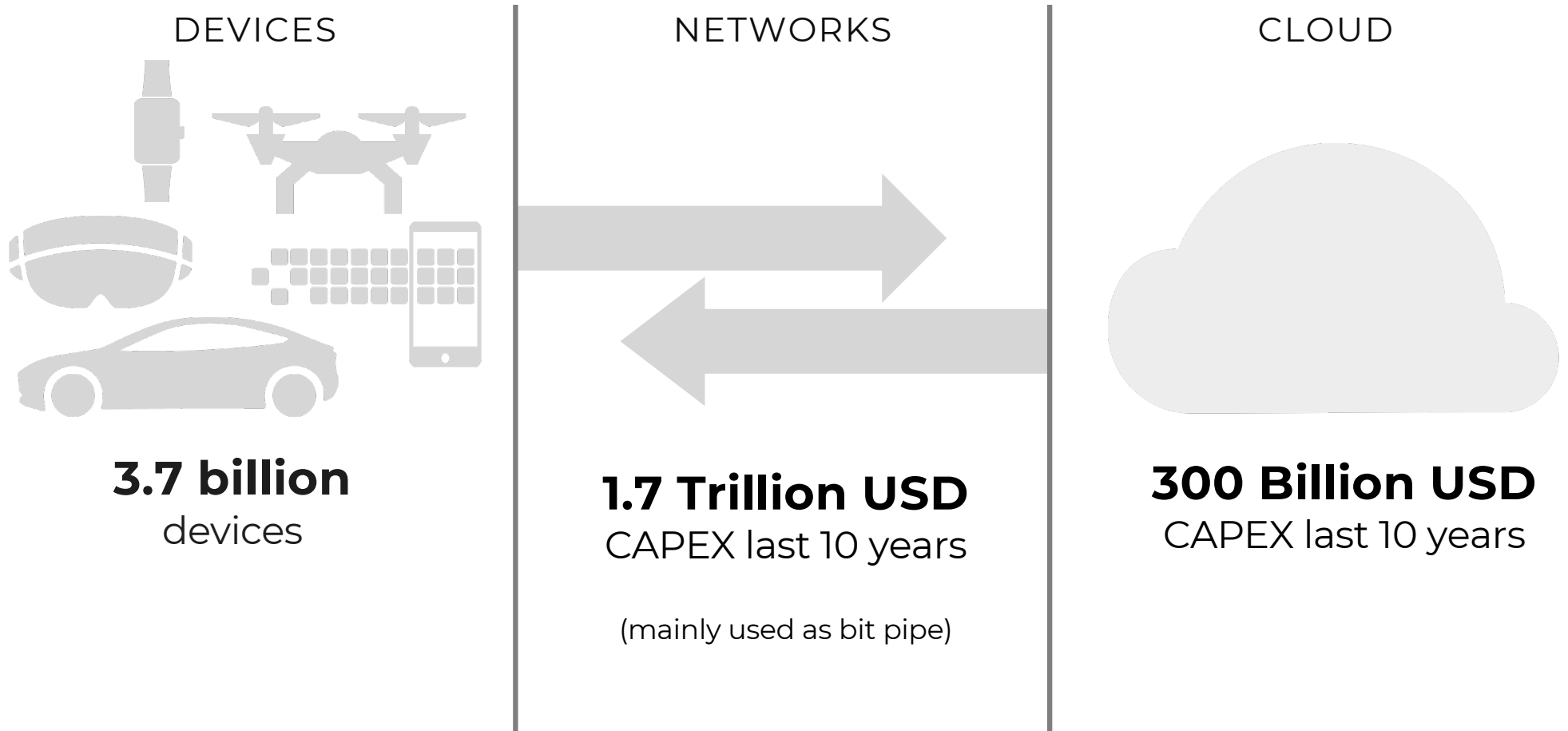


Founded by
Deutsche Telekom
in **2018**



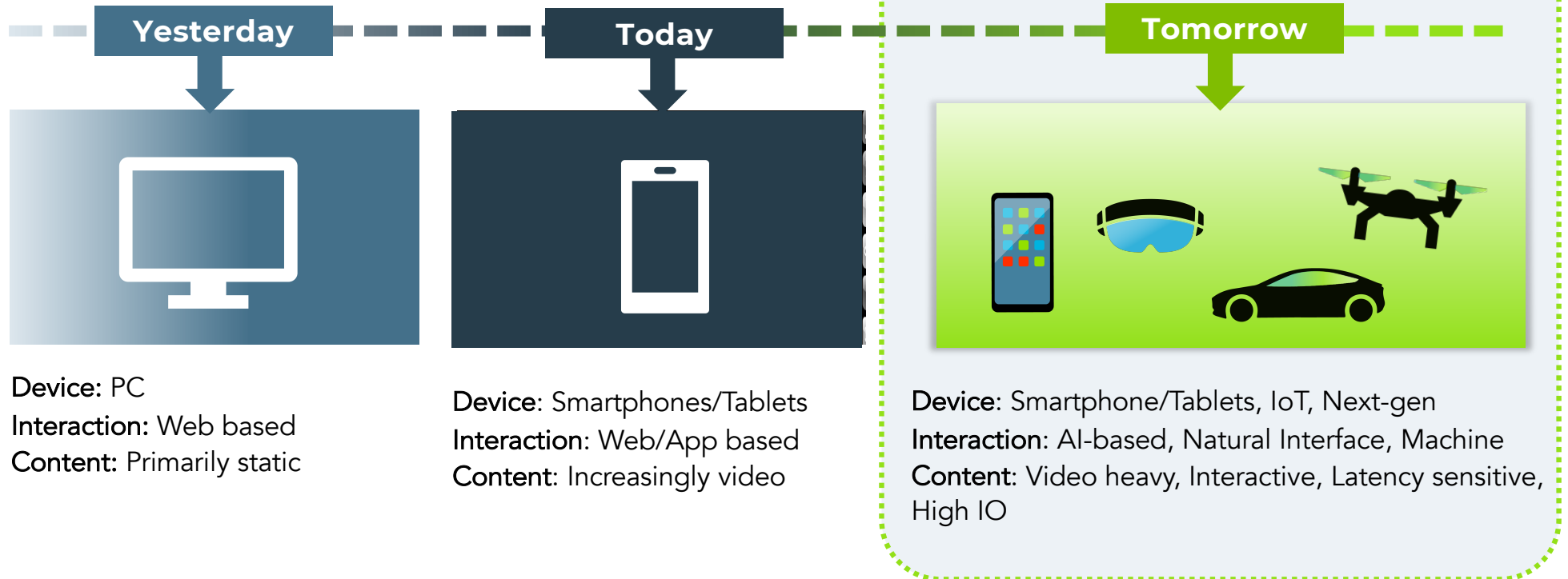
Visit
Mobiledgex.com

Current State

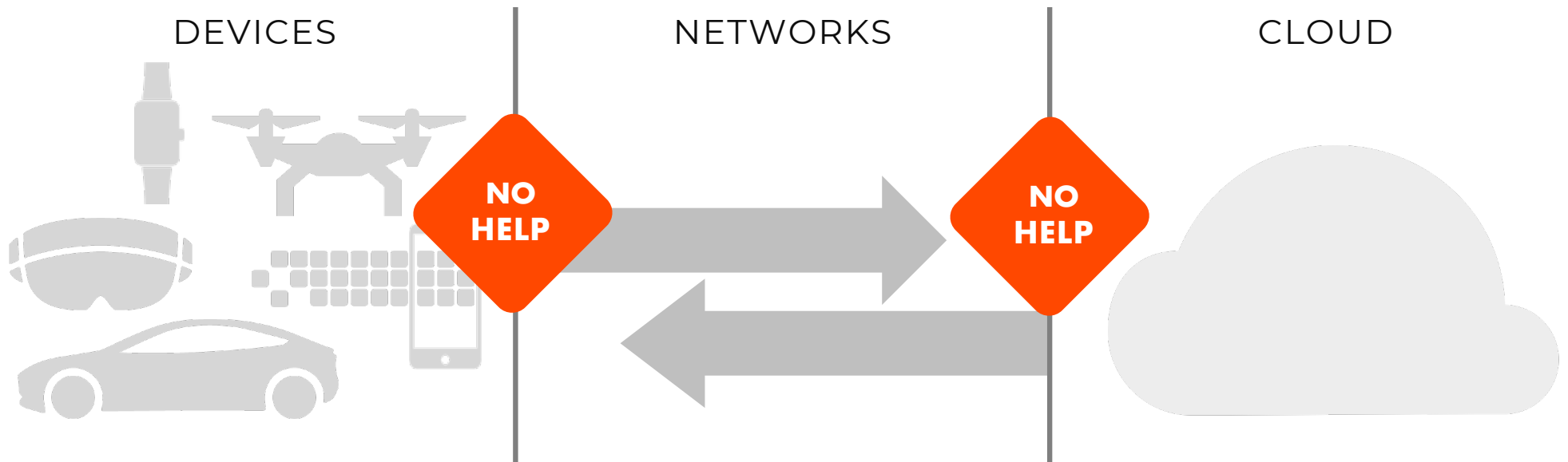


Emerging new class of applications

Pervasive and Immersive



Inefficiencies and Obstacles for Developers



You don't know what is possible

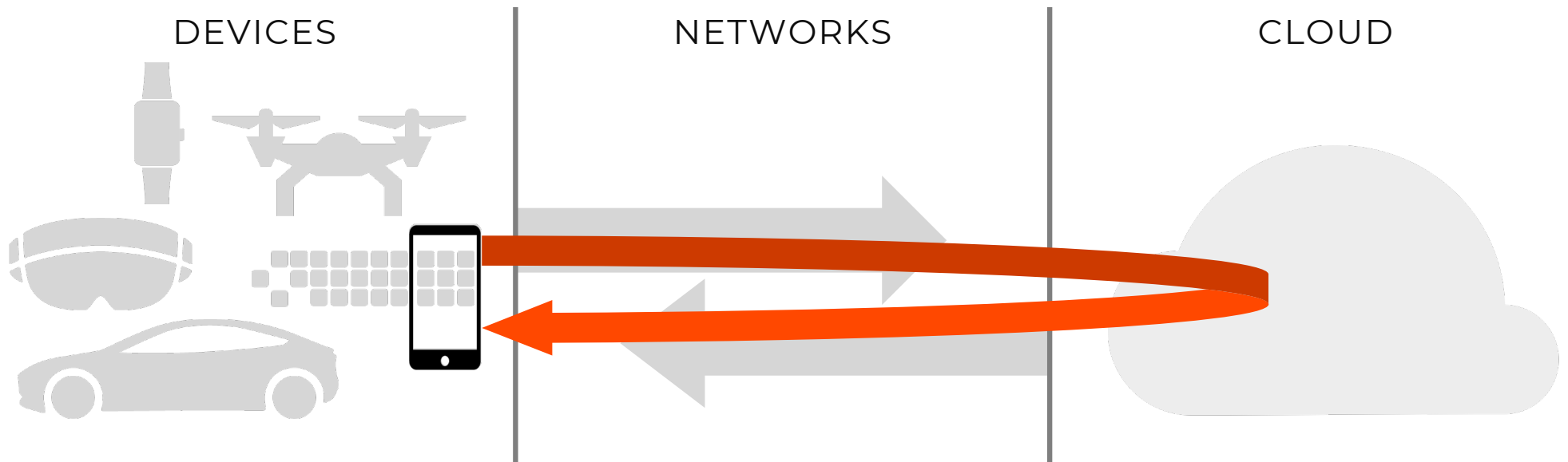
You have to know somebody

You have to figure out the business model every time

Your idea isn't big enough fast enough

All transformations are for internal customers

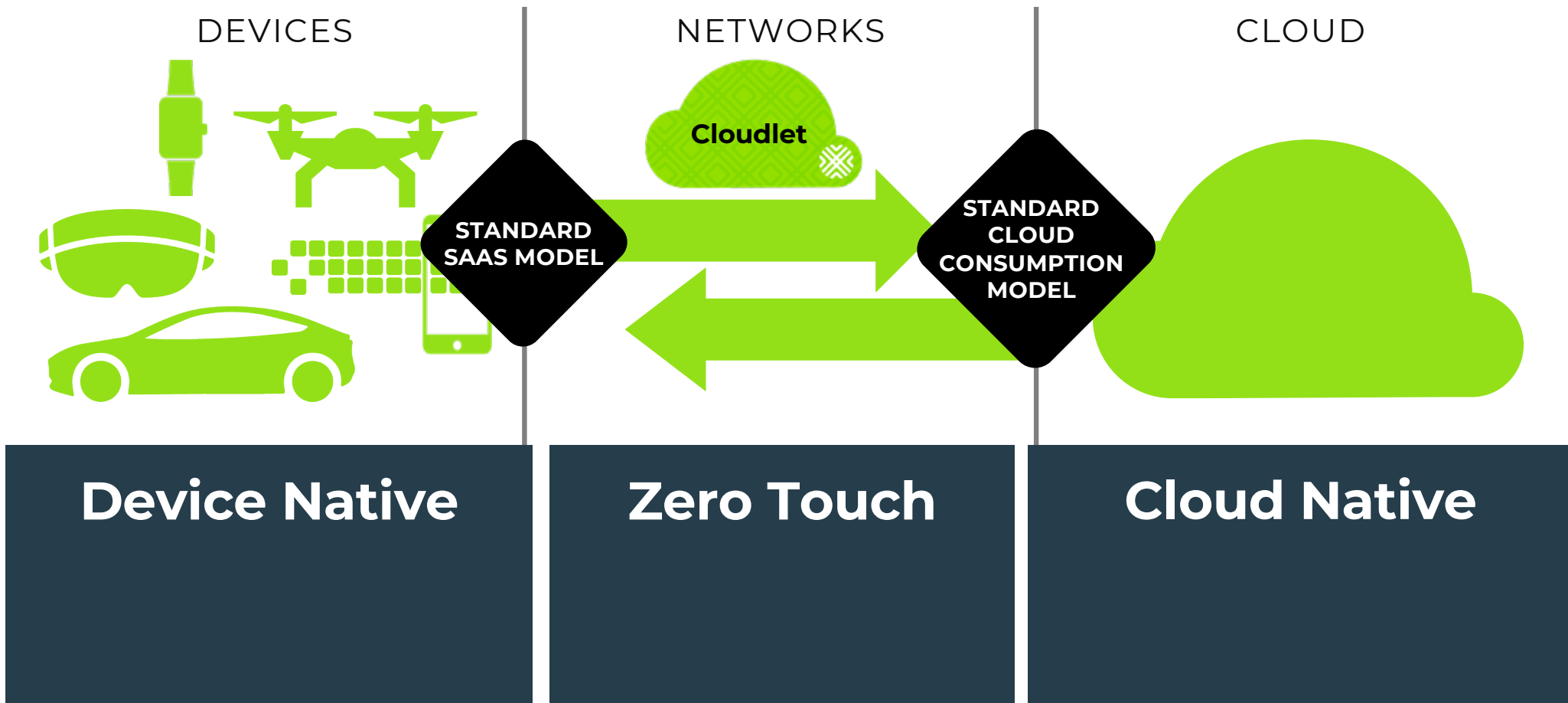
Client is mobile – Cloud is static



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

A horizontal banner with a dark blue background on the left and a green background on the right. The text "World's First Public Mobile Edge" is written in white. The green background features a faint, light green circuit board pattern.

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

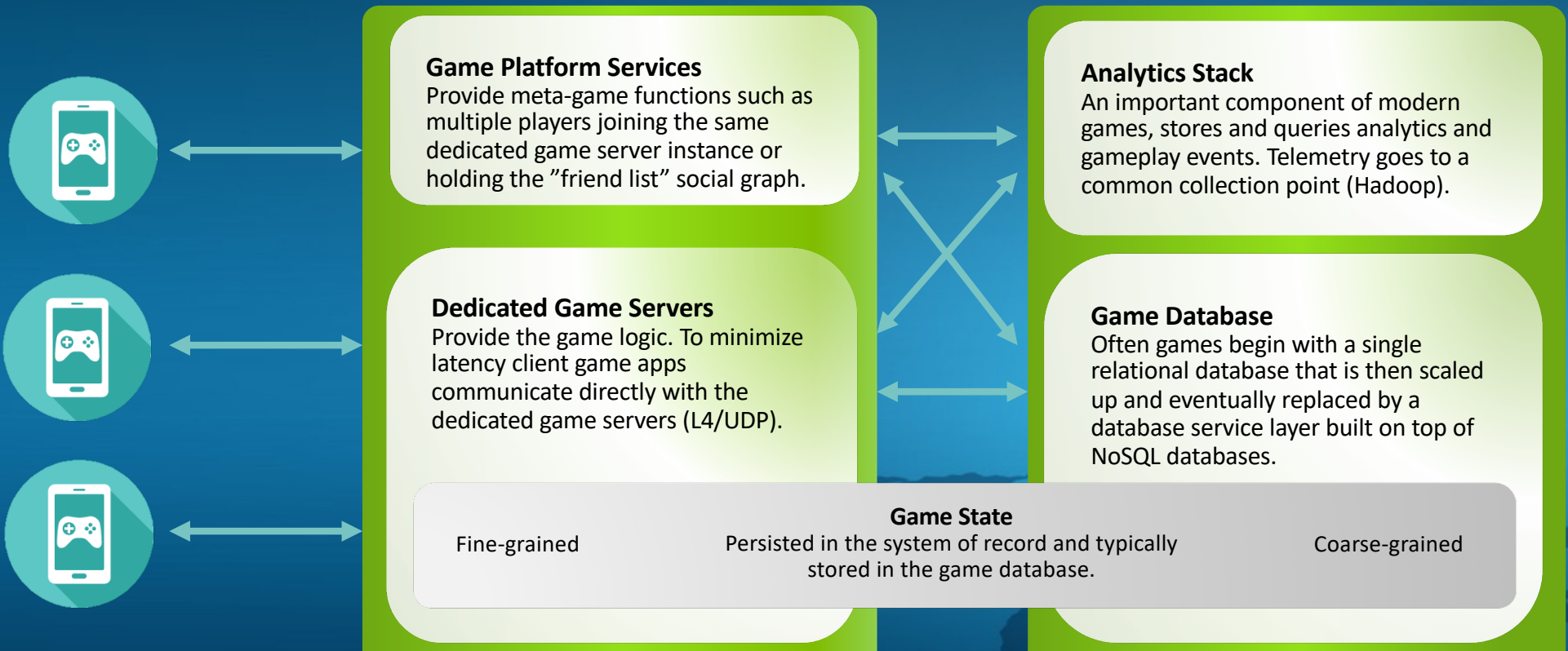
World's First Mobile Edge Mixed Reality Multi-Gamer Experience

<MobileEdge> N I A N T I C  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

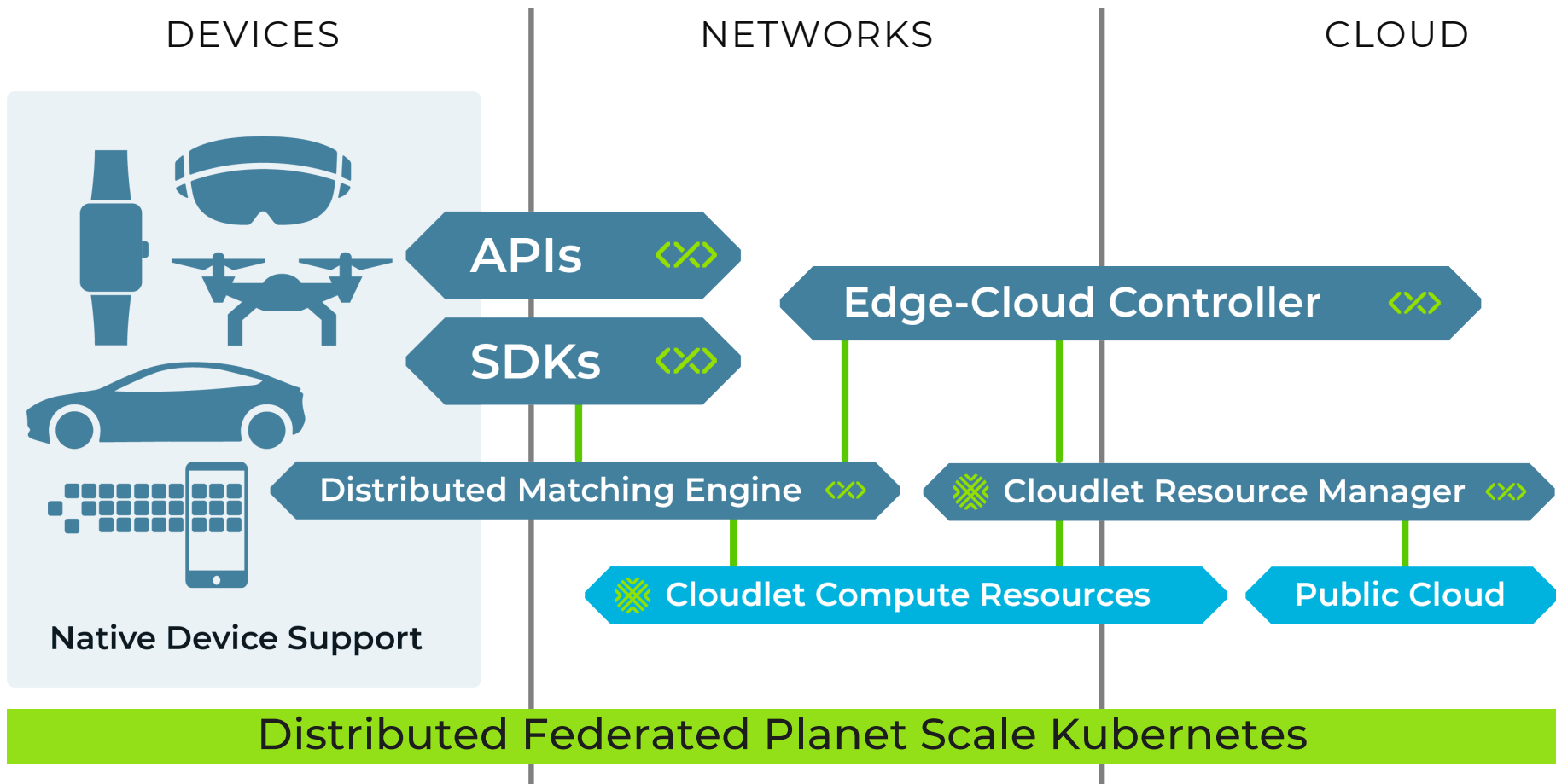


MobiledgeX, Samsung, Niantic, DT



Better responsiveness for massively scalable multiplayer/AR games

MobileEdgeX Edge-Cloud



Three Technical Pillars

Bringing Cloud
Closer to
Users/Devices

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

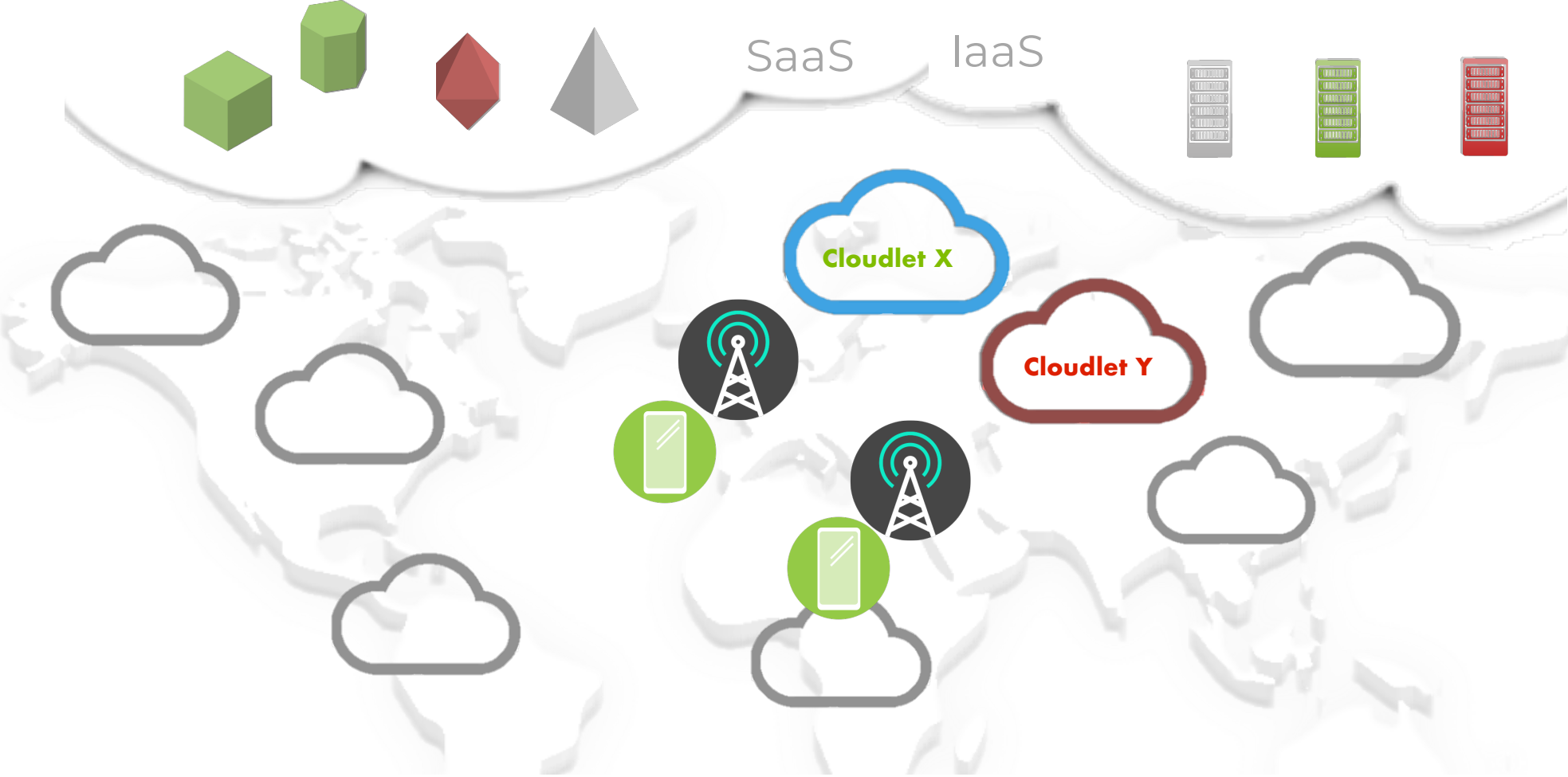
Safer Edge with
Trusted Users,
Applications and
Networks

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



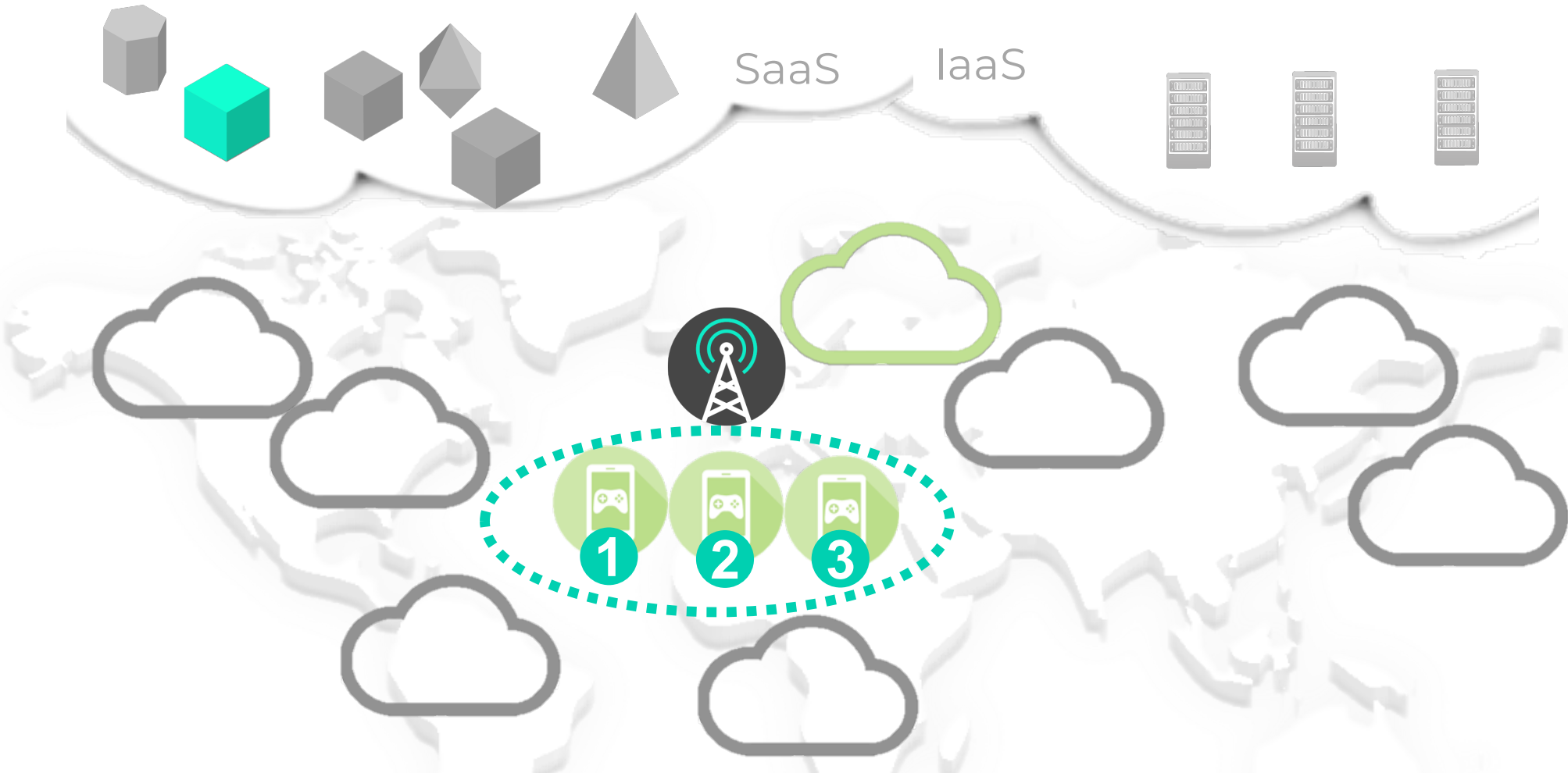
Bring cloud closer to device

Make backend Mobile



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.



Distributed Zonal Control Plane:

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

Local, Heterogeneous

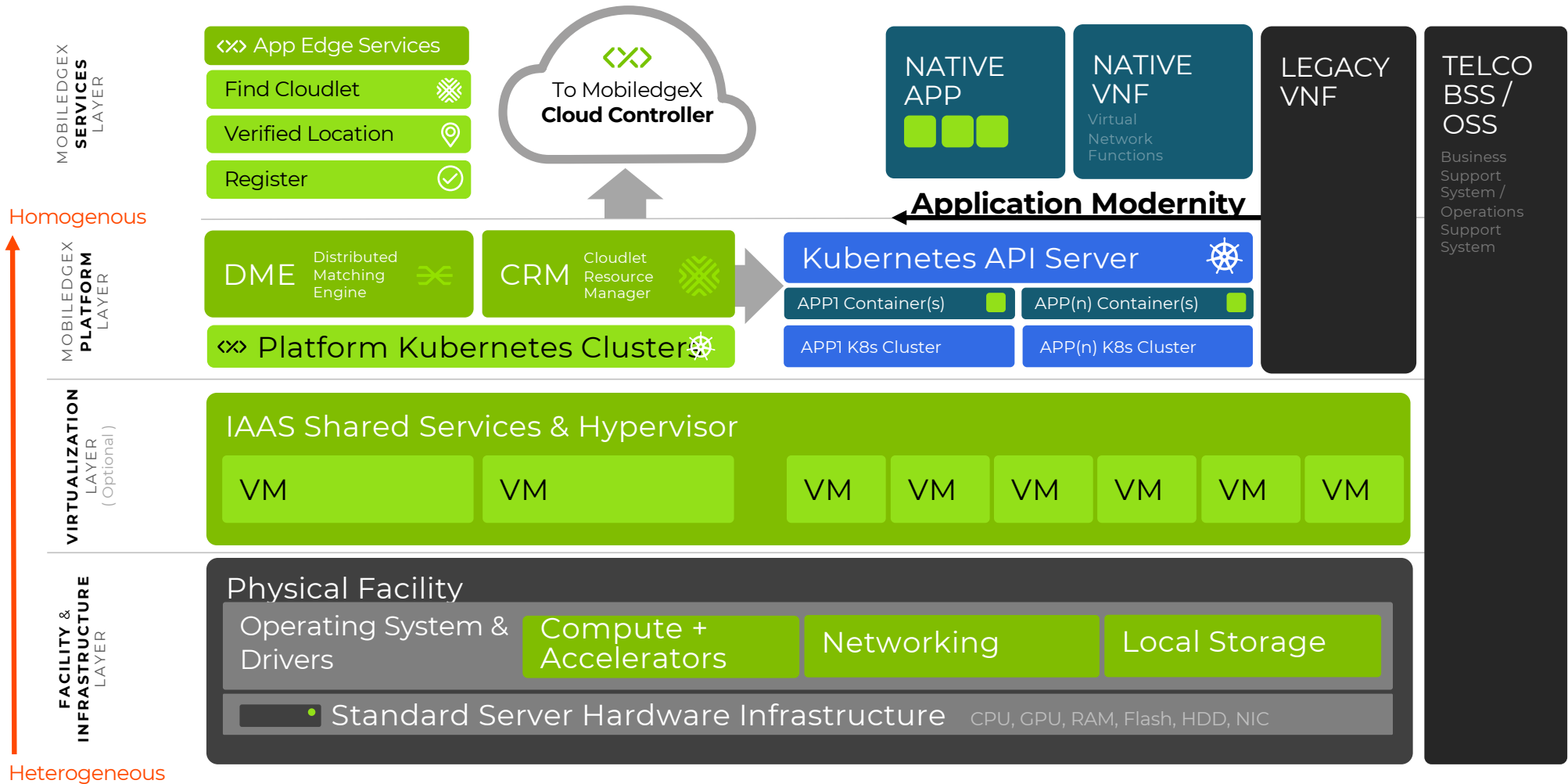


Cloudlet Assurance, Integrity and Governance:

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

hub:raum

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

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



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



openEDGEcomputing

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

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



World Wide Technology

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

Thank You!



mobilegex.com



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