Dennis Nikles
Vice-President IOT
Deutsche Telekom

5G capabilities as a game-changer
for automotive connectivity

About the speaker

Dennis Nikles
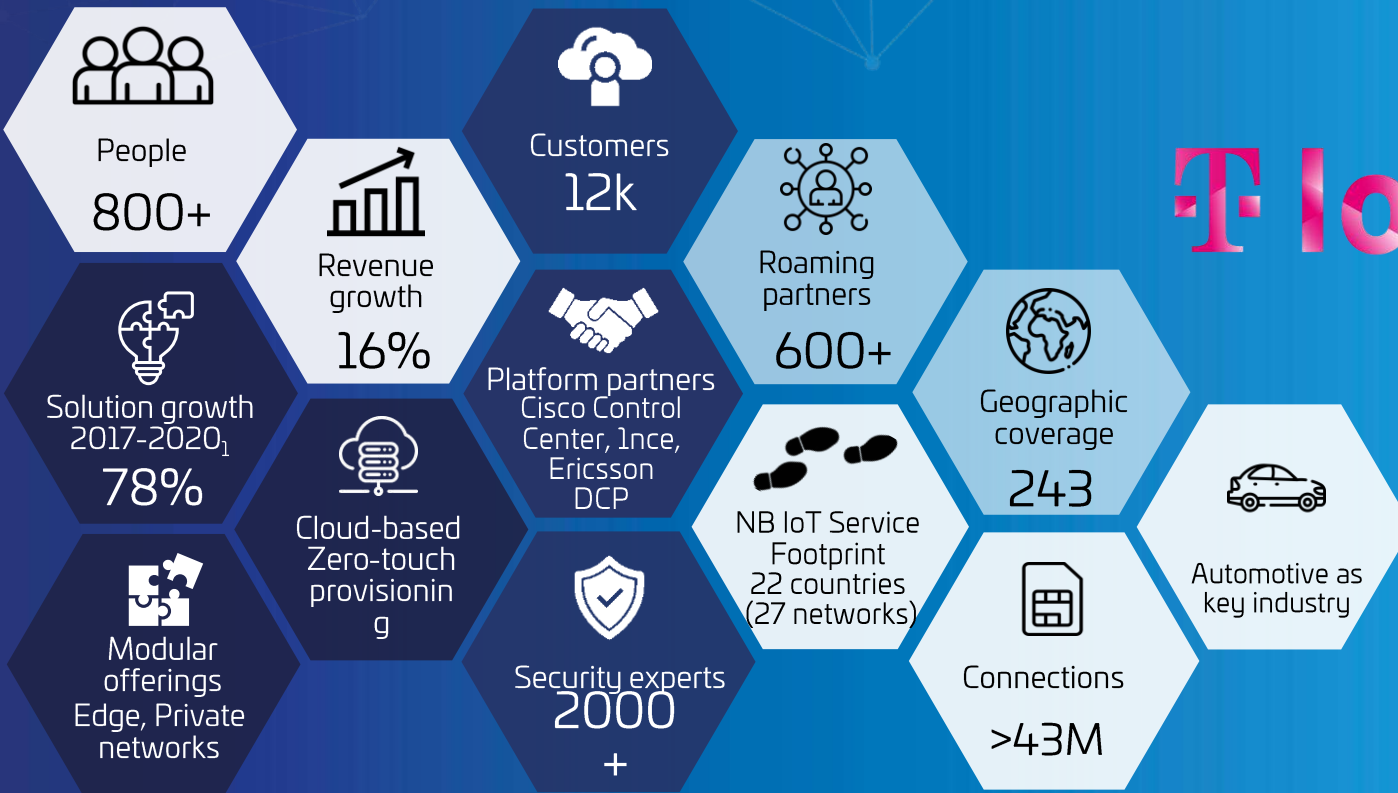
CEO | Deutsche Telekom IoT

- Experienced C-Level executive with a demonstrated history of working in the telecommunications industry

- Highly interested in different subjects including sustainability, digitization, connectivity and the IoT

- More than five years of experience in leading positions in the field of M2M & IoT

- Expert in IoT Sales & Portfolio

- Academic background: Bachelor in Business Economics (FH Darmstadt)
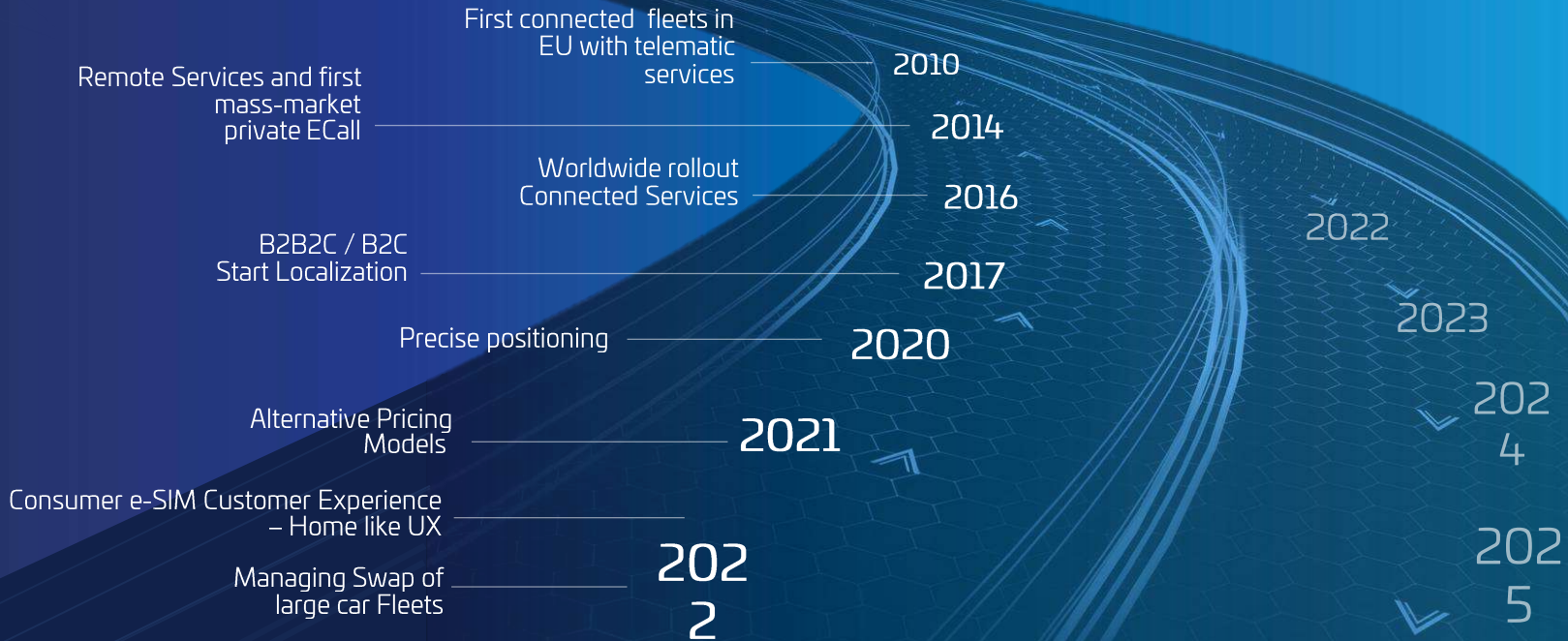
Topic
5GAA

When
Wednesday 3/2, 9 AM CET

Key Message
I believe in the value 5G brings for automotive connectivity.

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Our growth journey in IoT

People
800+

Revenue growth
16%

Customers
12k

Roaming partners
600+

T IoT

Solution growth 2017-2020[1]
78%

Cloud-based Zero-touch provisioning

Platform partners Cisco Control Center, 1nce, Ericsson DCP

Geographic coverage
243

Modular offerings Edge, Private networks

Security experts
2000+

NB IoT Service Footprint 22 countries (27 networks)

Connections
>43M

Automotive as key industry

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Since 2010 Deutsche Telekom is a reliable partner for OEMs for global connectivity

First connected fleets in EU with telematic services — 2010

Remote Services and first mass-market private ECall — 2014

Worldwide rollout Connected Services — 2016

B2B2C / B2C Start Localization — 2017

Precise positioning — 2020

Alternative Pricing Models — 2021

Consumer e-SIM Customer Experience – Home like UX

Managing Swap of large car Fleets — 2022

2022
2023
2024
2025

Our global value proposition for IoT customers
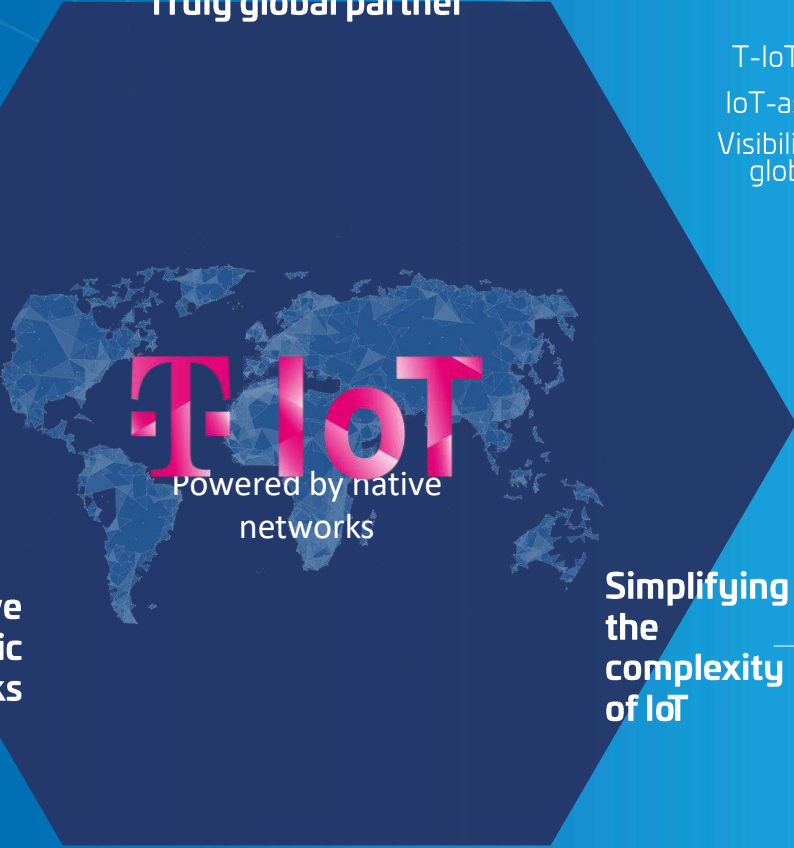
Truly global partner

Single global team (sales & service)

Global contracts with global SLAs

Global billing or global usage reporting with local billing

T-IoT Unlimited

IoT-as-a-Service

Visibility across all global assets

T · ·
Mobile

+

T · · ·

T-IoT
Powered by native networks

Best native transatlantic networks

Simplifying the complexity of IoT

Unrivaled trans-Atlantic native networks

Complemented with a truly global footprint

NB-IoT, LTE-M, 5G

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What's new with 5G SA and what's in it for Automotive Industry

Slicing will divide the 5G network into dedicated areas allowing for the OEM to use its own slice with...
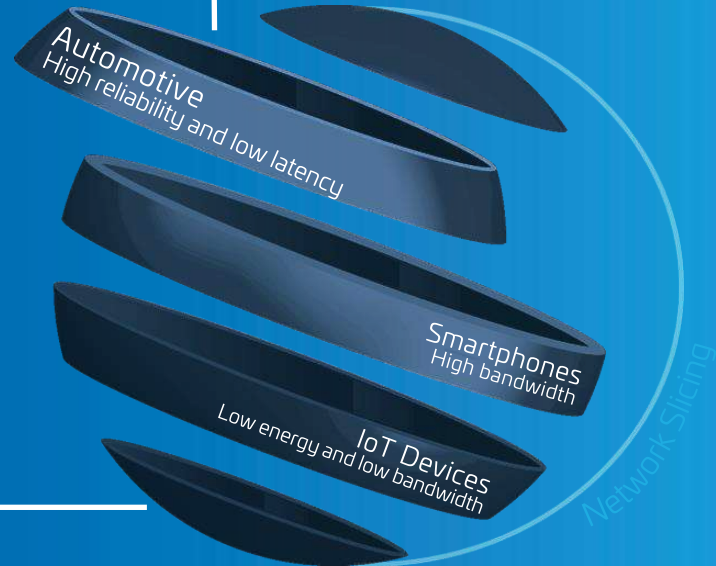
Quality of Service

Dedicated Bandwidth

Low latency

Highest Security

Creating an own "instance" of the 5G network to the OEM

OEM slice with dedicated capacity for authenticated vehicles and applications

Automotive
High reliability and low latency

Smartphones
High bandwidth

IoT Devices
Low energy and low bandwidth

Network Slicing

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What's new with 5G SA and what's in it for Automotive Industry

Smart traffic management

Collision avoidance warning

Tele-operated driving

Vehicle-2-X-ecosystem

Cross-border operation

Smart parking

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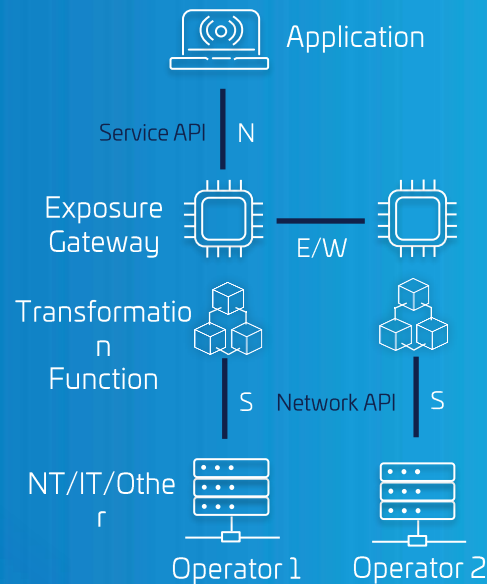# CAMARA – The Telco Global API Alliance

What it is and benefits

1. Open source project
2. Linux Foundation & GSMA Operator Platform Group
3. Harmonization of APIs across the Alliance Partners

… leading to industry benefits:

1. Availability across telco networks and countries
2. Seamless customer experience
3. Acceleration of technology development and commercial adoption
4. Enable application portability

Who is in

AT&T · Microsoft · IBM · Telefónica · vodafone · SCENERA · KDDI · T··Mobile· · T··· · TELUS · NGMN · orange™ · GSMA · MobiledgeX™ · TIM

Customer PoC for Quality on Demand (QoD)

BMW + T··
Valeo + T··

Automated Valet Parking with BMW & Valeo announced at MWC

How it works

Application

Service API · N

Exposure Gateway — E/W

Transformation Function

S · Network API · S

NT/IT/Other

Operator 1 · Operator 2

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In a nutshell

① DT IoT has what it takes to meet the Automotive industry with the capalities needed

② 5G upgrades the game of in-car connectivity to enable mission critical services

③ CAMARA – The Telco Global API Alliance – enables interoperability for a seamless customer experience

T· IoT

Contact us: https:/iot.telekom.com

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