OPEN GATEWAY OPPORTUNITIES / CHALLENGES

MWC 2025 Connect 5G Summit



DR MURIEL DESAEGER

TECHNICAL HEAD ELECTRONIC

ENGINEERING DIVISION, R&D4

TOYOTA MOTOR EUROPE

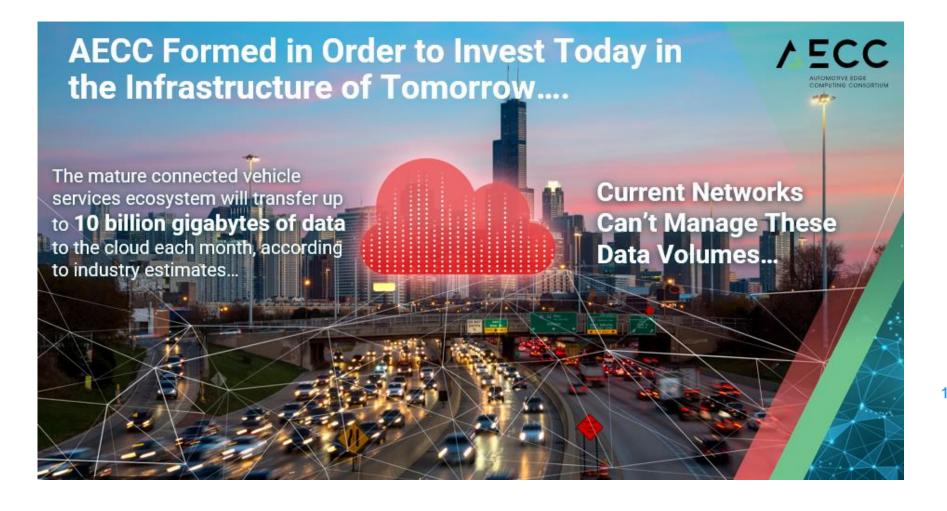
TIME OF TRANSFORMATION

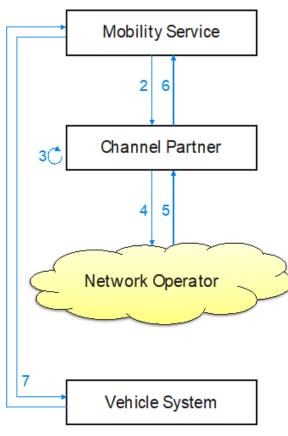
ELECTRONICS TEAM EVOLVED IN THE TRANSFORMATION



TME ACTIVELY INVOLVED IN AECC

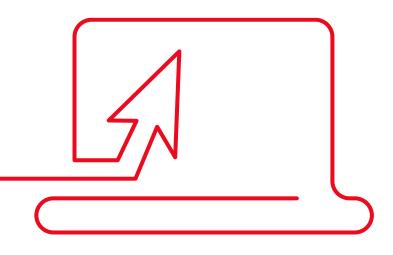
EDGE COMPUTING IS A KEY ENABLER SUPPPORTED BY TME

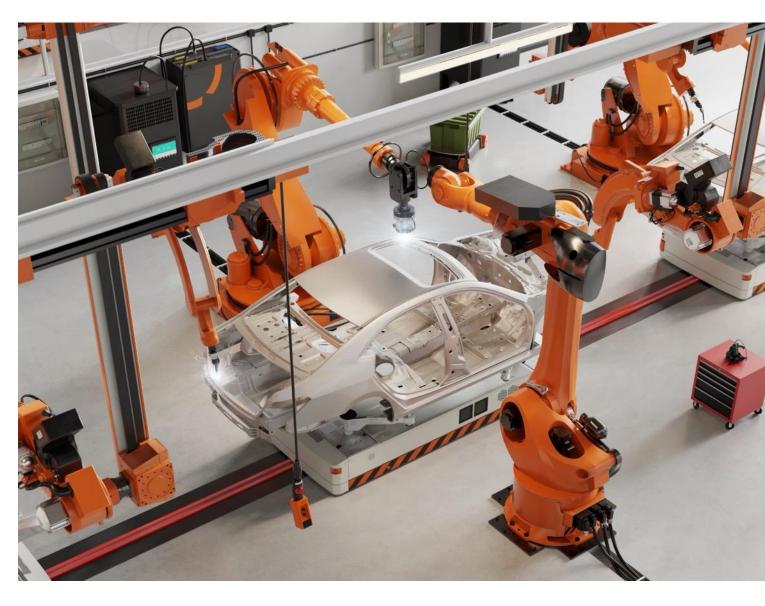






CAR MANUFACTURERS





DIRECTION

PROVIDE ADVANCED SERVICES IN LINE WITH CUSTOMER NEEDS

COMPONENT SETTINGS













VEHICLE QUALITY CHECK











HD MAPS



PREDICTIVE EV CHARGING









TELEOPERATION



V2CLOUD CRUISE ASSIST



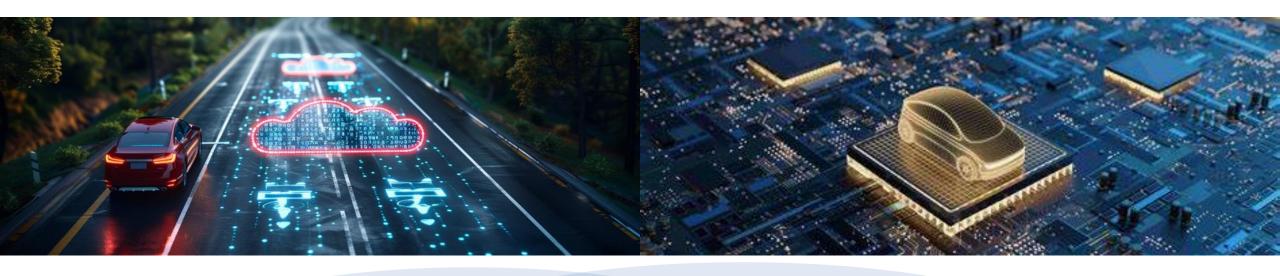
INTELLIGENT **DRIVING**

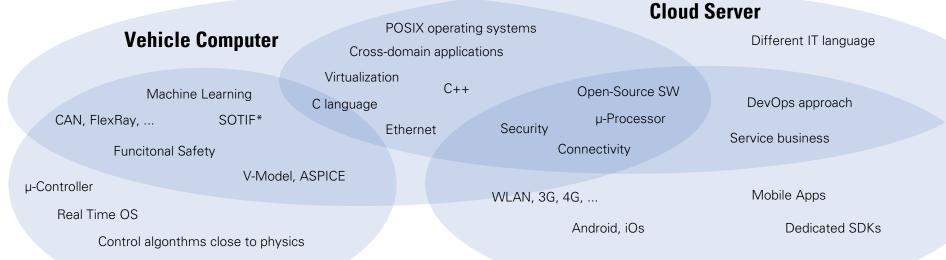




ECO SYSTEM

COMPLEX, NEW KNOWHOW, NEW TOOLS & COLLABORATION





Mobile

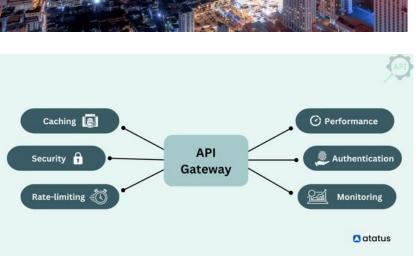


Deeply embedded ECU

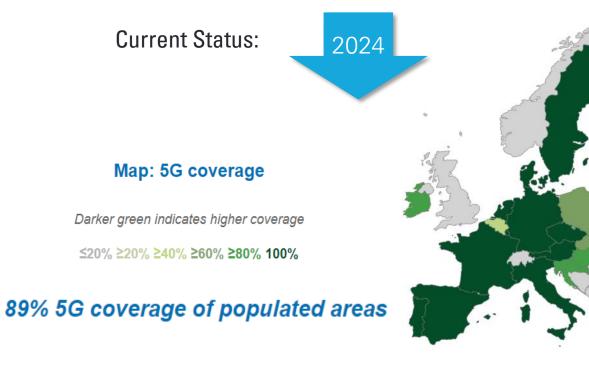
CONNECTIVITY DEVELOPMENT

THE 5G COVERAGE MOVES BUT ALSO SLICING, API, ...







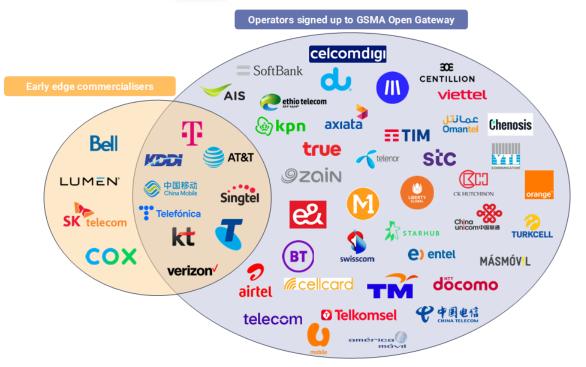


OPEN GATEWAY APIA MOVE TOWARDS FLEXIBILITY

Automotive OEM CAMARA **Federation Broker** GSMA EWAPI E/W API E/W API Edge Server Edge Server **Edge Server** Hyperscaler MNO #B MNO #A Everything, Everywhere Rural Area Construction Factory Surveillance Excavate Passage Delivery Convey Passenger Navigation Conduct Networking ---**Teleoperation Services** Tablet Console Operation Cente VR Cockpit

Carrier Billing - Check Out Edge Site Selection (E) SIM Swap and Routing 0 Number Number (0 Verification APIS (SMS 2FA) Quality On Demand (QoD) Location Device Status

GSMA OPEN GATEWAY APIs





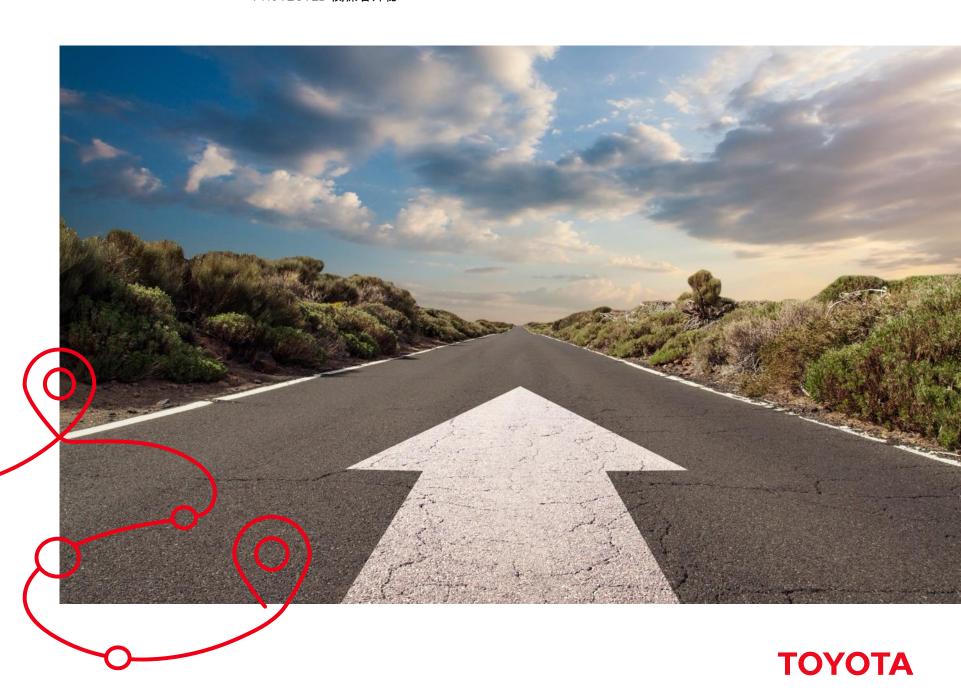
KEY FOCUS POINTSRELIABILITY, SECURITY,

RELIABILITY, SECURITY,
REAL TIME DATA ACCESS
AND USAGE

- Seamless & Reliable Communication
- Access real-time data and manage network services efficiently
- Flexibility for update of services
- Enhanced Security
- Rewards developers for creating innovative services

Finally, break into new markets and offer new services and functionality to customers.

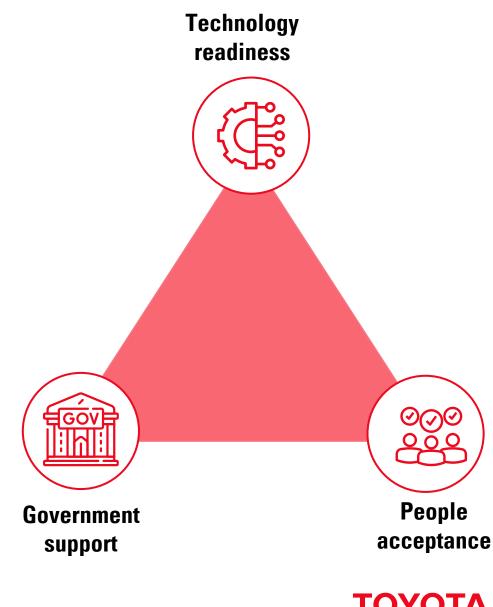
03 MOVING AHEAD



CHALLENGES

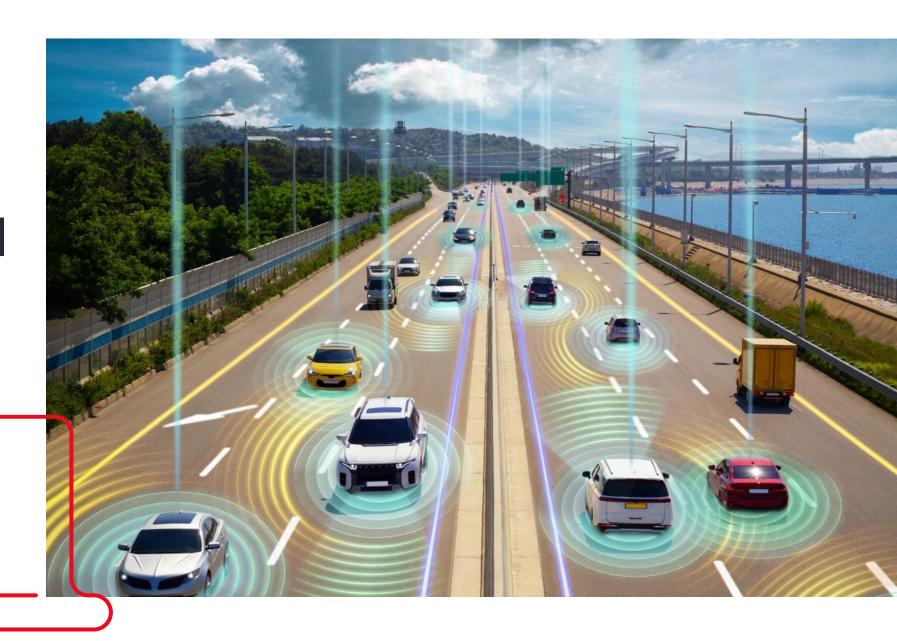
FOCUSING ON THE FOUNDATIONS ASPECTS

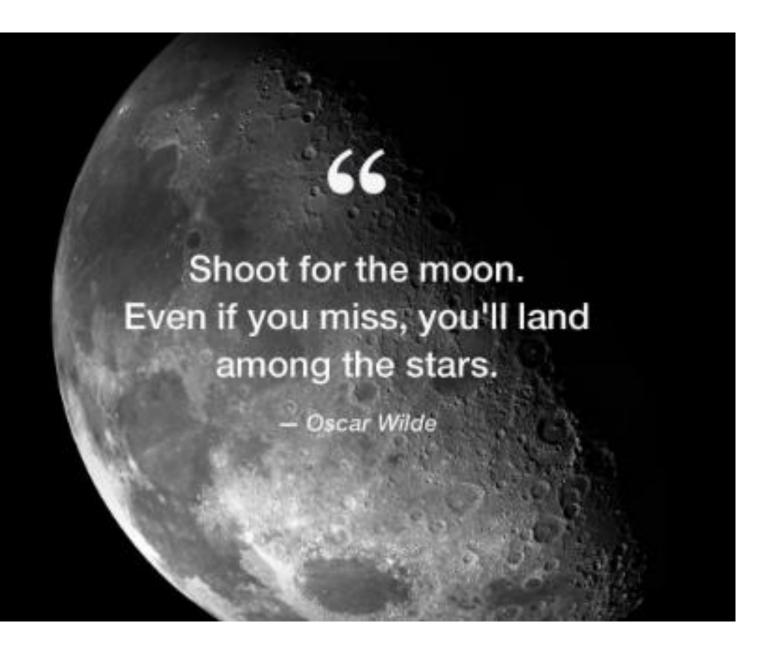
- 1. API Specifications
- 2. Interoperability
- 3. Security and Compliance
- 1. Regulatory support
- 2. Collaborative efforts including all initiatives
- 3. Securing buy-in from hyperscalers
- Governance & Commercial Value
- 2. Viable pricing models
- 3. Geographic Distribution
- 4. Consumer confidence





04 CONCLUSION





CHALLENGES ARE NUMEROUS BUT EACH AND EVERY STEPS COUNTS

Let's

- Join forces to move and contribute to the people mobility transformation
- Build the best seamless mobility for all
- Contribute to all the technology challenges in front of us

THANK YOU

Contact: muriel.desaeger@toyota-europe.com