February 28, 2019 @ MWC2019

AUTOMOTIVE EDGE COMPUTING CONSORTIUM

VJJSV

Driving Data To The Edge

Kenichi Murata

Toyota Motor Corporation and Chairman of AECC General Manager – Connected Strategy

Christer Boberg

Ericsson Director of IoT & Cloud Technology Strategies Dr. Ryutaro Kawamura

NTT Senior Vice President and Director

Joel Obstfeld Cisco Distinguished Engineer, Chief Technical and Architects Office

Said Tabet Dell EMC Chief Architect Emerging Technology & Ecosystems Technology Lead, IoT & Al Strategy



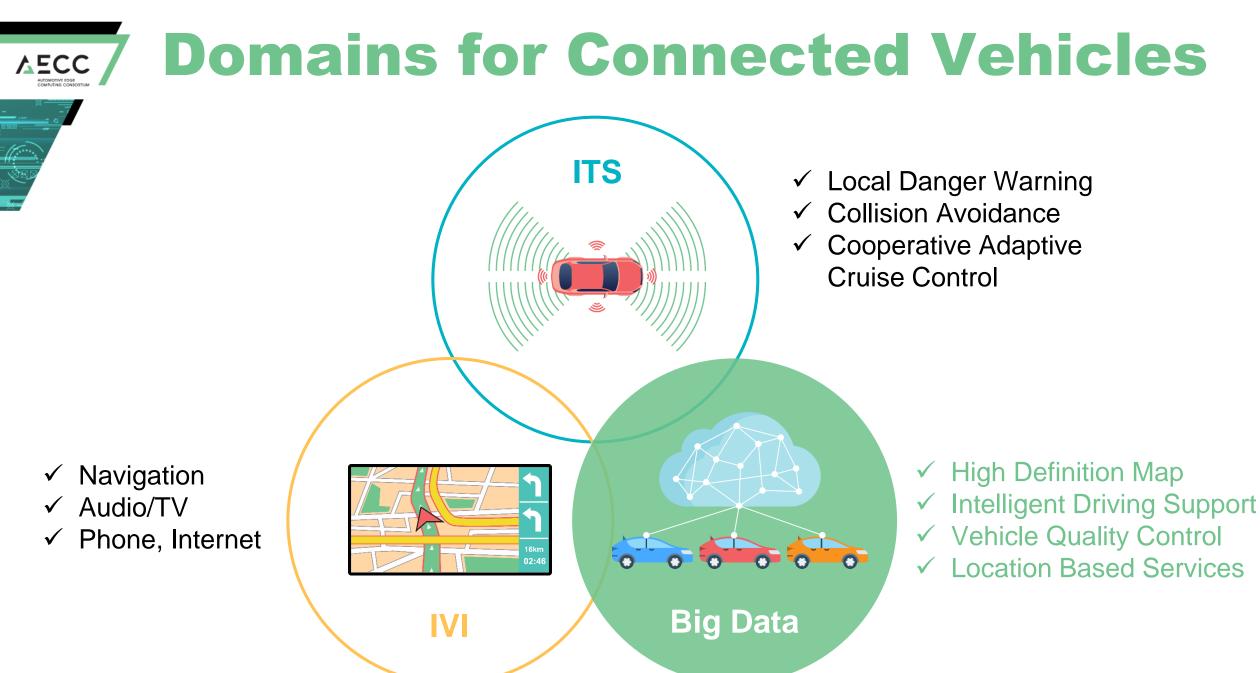
100M units

Connected Vehicles

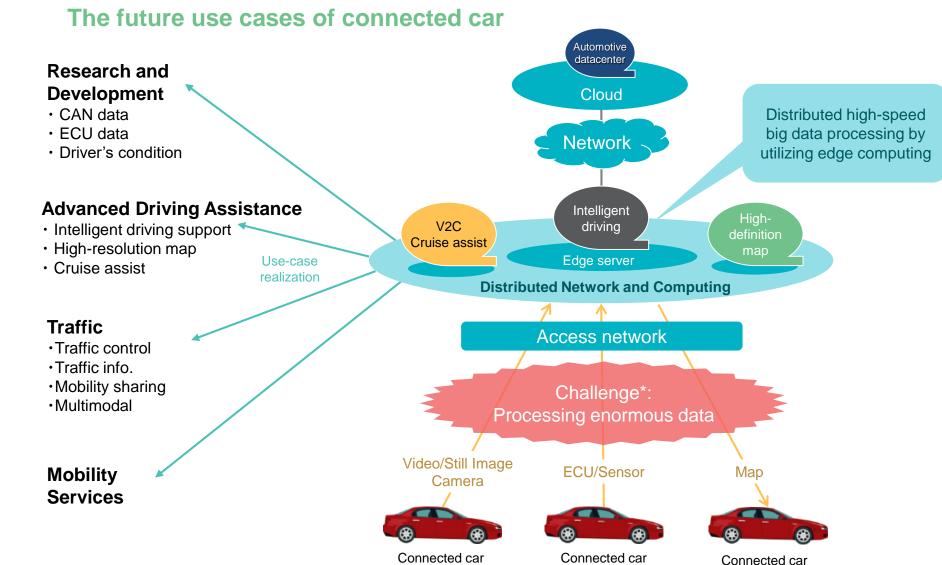
1~10EB/mo.

Communication

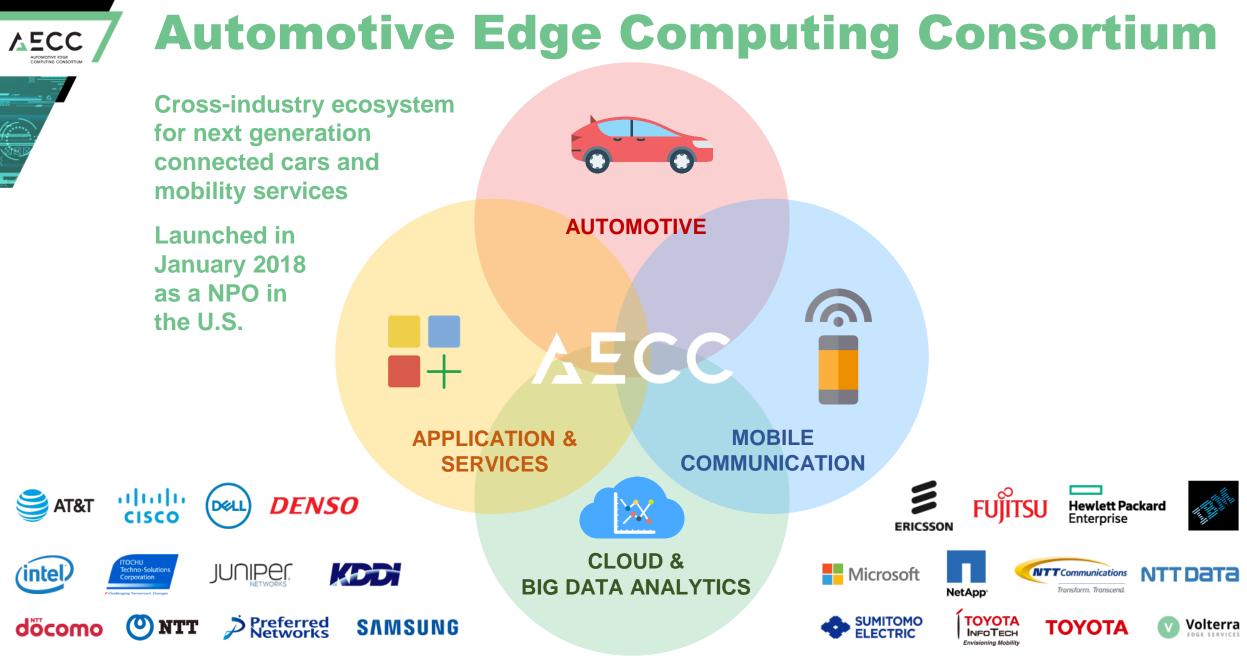
Source: AECC estimation based on PwC and SBD



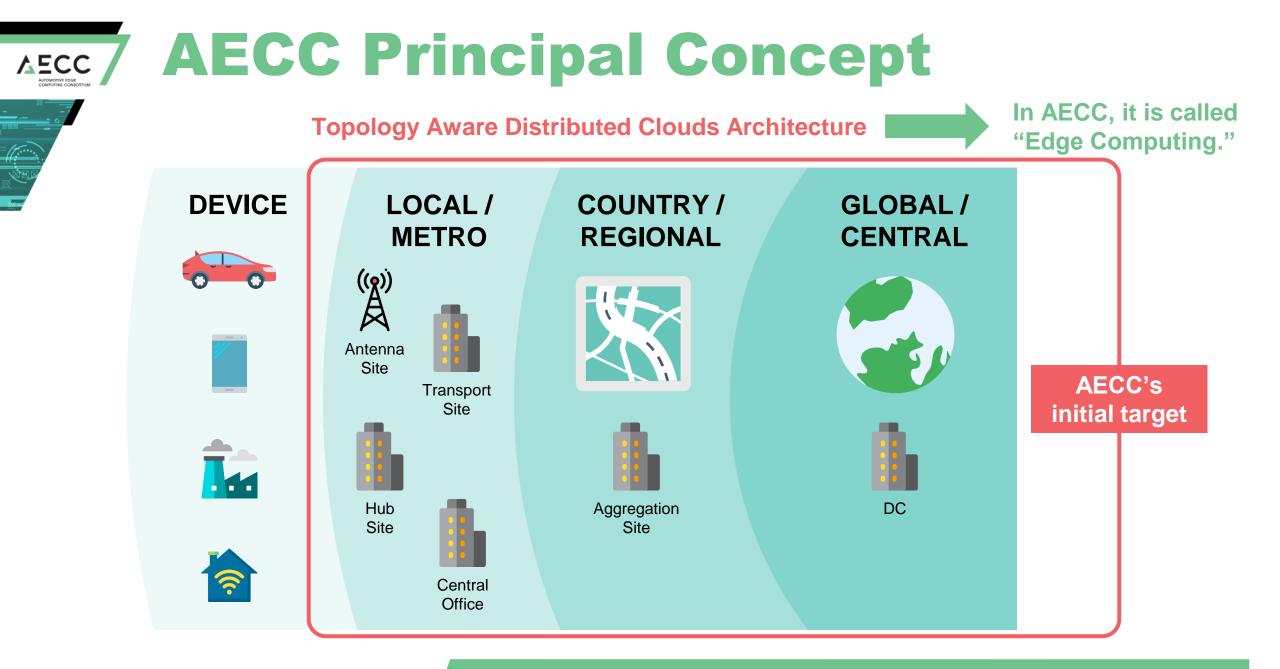
Key Issues and Potential Solutions



VJ5V



5 ©2019 Automotive Edge Computing Consortium



6 ©2019 Automotive Edge Computing Consortium

Different edge locations w/ initial focus on network infrastructure









Network/Computing for Automotive BIG DATA

To accommodate the automotive big data in a smart and efficient fashion.

Global and Sustainable Ecosystem

The next generation connected cars will require advanced systems in order to evolve.

Initial Focus on Vehicle to Cloud

The context is the high volume Vehicle-to-Cloud services.

Leading Market Actors Joint Forces

Toyota, Toyota ITC, Ericsson, Intel, Denso, NTT DOCOMO, KDDI, NTT were initial members and more companies now, and more in the pipe to join.

Recent Activities

- All Member Meetings (AMM) held 3 times in a year.
 - 23 companies participated at the last AMM in San Jose.
- Regular on-line/f2f discussions in the 2 working groups
 WG1: Use cases & requirements, WG2: Technical solutions
- Giving external lectures, panel discussions

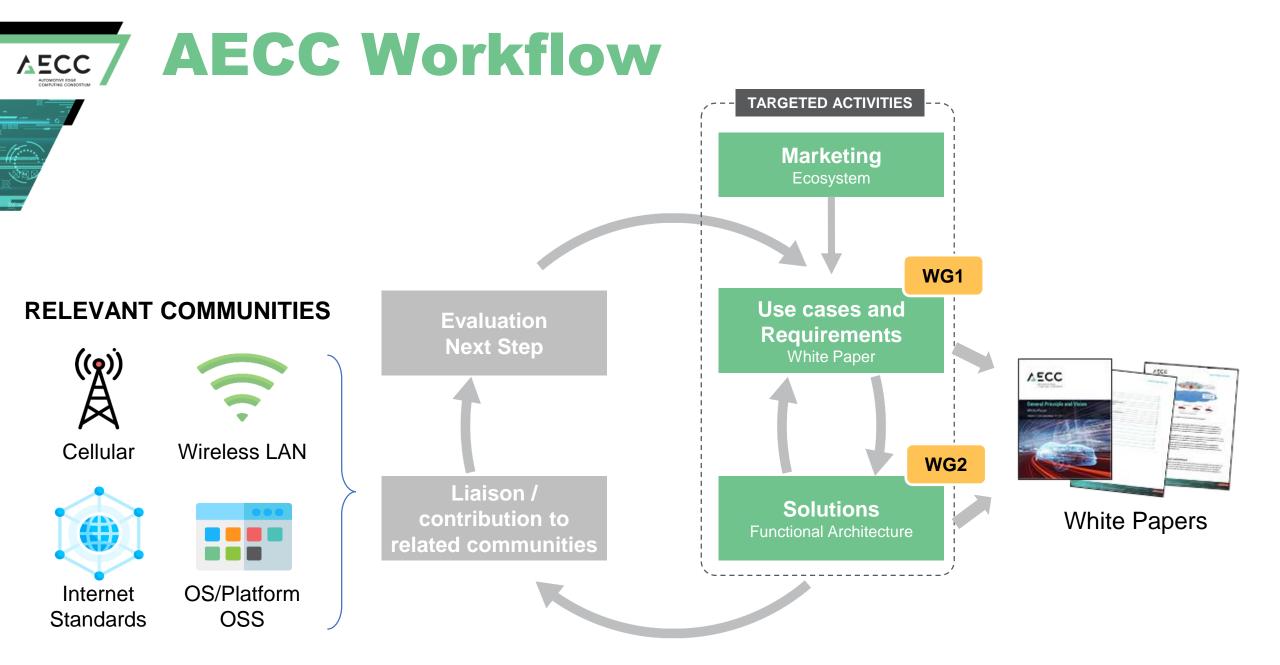






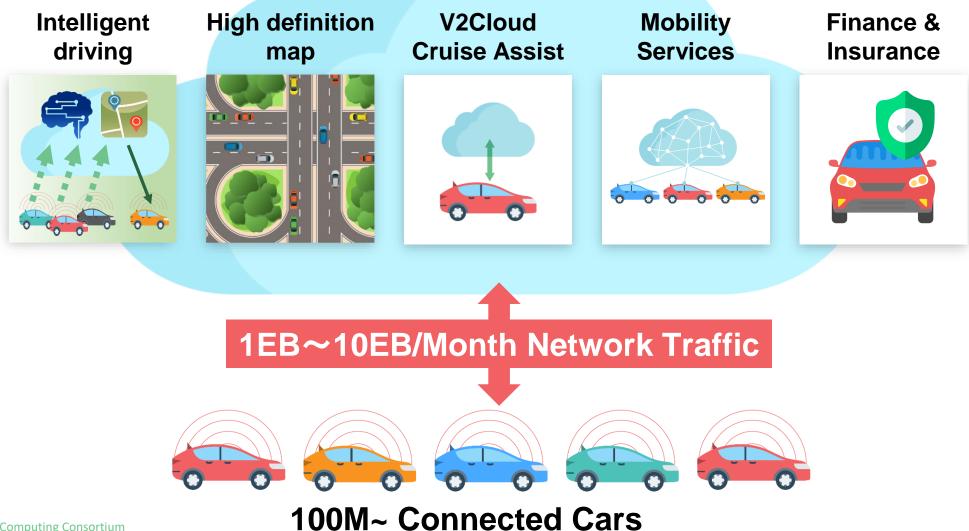


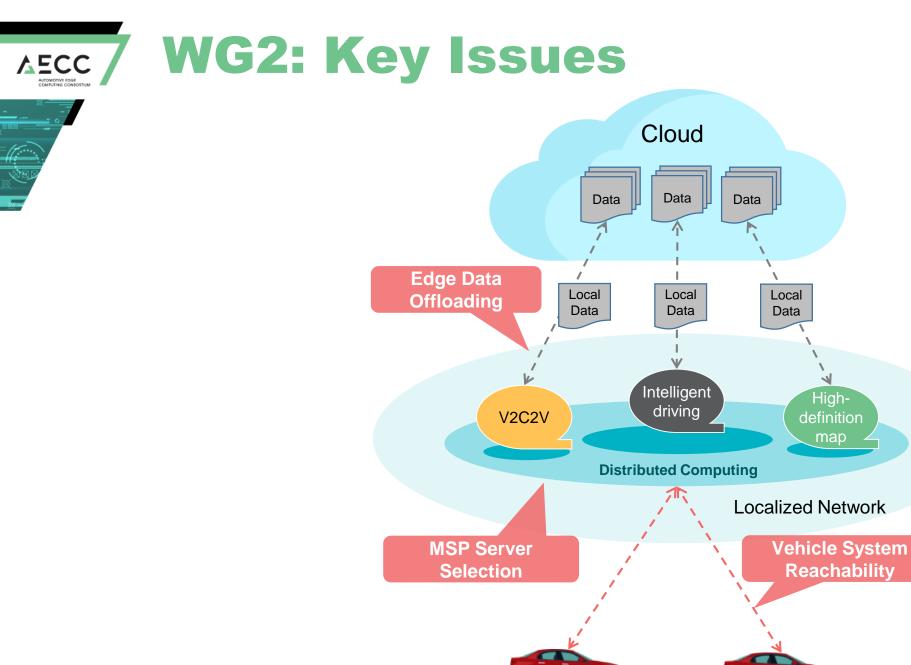
VECC





WG1: Use-cases





6

Connected Car





AUTOMOTIVE EDGE COMPUTING CONSORTIUM

Thank you for your attention

Let's Get Connected!

February 28, 2019 @ MWC2019

AUTOMOTIVE EDGE COMPUTING CONSORTIUM

VJJSV

Panel Discussion and Q & A

Kenichi Murata

Toyota Motor Corporation and Chairman of AECC General Manager – Connected Strategy

Christer Boberg

Ericsson Director of IoT & Cloud Technology Strategies

Dr. Ryutaro Kawamura

NTT Senior Vice President and Director

Joel Obstfeld Cisco Distinguished Engineer, Chief Technical and Architects Office

Said Tabet Dell EMC Chief Architect Emerging Technology & Ecosystems Technology Lead, IoT & Al Strategy



14

AECC Website



A consortium for driving the network and computing infrastructure needs of automotive big data

In the future, connected cars will not only allow for safer driving but also for smoother traffic flows and optimization of energy consumption giving lower emissions, which altogether will significantly improve the driving experience resulting in an environmental benefit.

Those future automotive services will require a much larger data transfer capacity than used by connected cars today and to accommodate this, the current network architectures and computing infrastructures need to evolve.



https://aecc.org

Download our White Paper

Sign-up Process:

- 1. Inquiry
- 2. Approval
- 3. Membership package
- 4. Membership Agreement (MA) signed
- 5. MA countersigned (by AECC)
- 6. Welcome email with invoice
- 7. Payment