

Introducing the AECC

AECC
AUTOMOTIVE EDGE
COMPUTING CONSORTIUM

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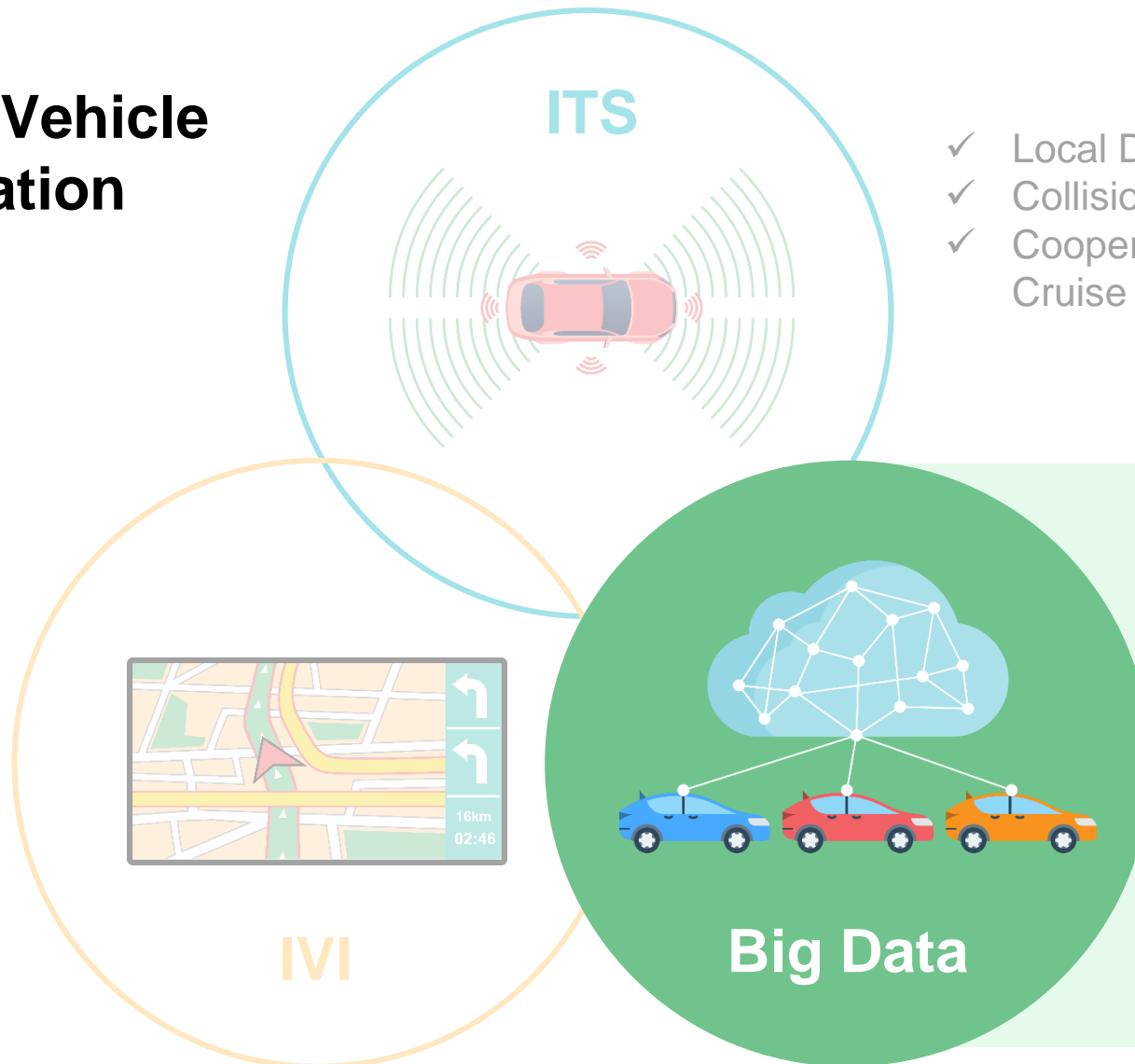
The AECC brings together industry leaders from across the automotive OEM, MNO, and cloud, tech and service provider spaces.



Connected Vehicle Services will depend on Big Data

Connected Vehicle Communication Domains

- ✓ Navigation
- ✓ Audio/TV
- ✓ Phone, Internet



- ✓ Local Danger Warning
- ✓ Collision Avoidance
- ✓ Cooperative Adaptive Cruise Control

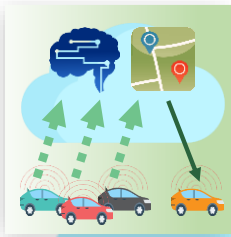
AEECC Focusing on One: the Big Data Challenge

- ✓ High-Definition Map
- ✓ Intelligent Driving Support
- ✓ Vehicle Quality Control
- ✓ Location Based Services
- ✓ Digital Twins
- ✓ Green Mobility
- ✓ etc

Emerging Services Could Drive More Growth



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Intelligent Driving



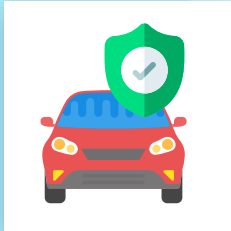
High Definition Mapping



V2Cloud Cruise Assist



Mobility Services



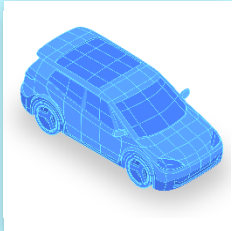
Finance & Insurance



Vehicle Teleoperation



Green Mobility



Digital Twin

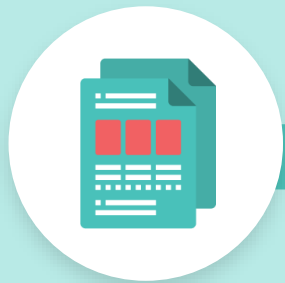
1EB~10EB/Month Network Traffic



600M+ Connected Vehicles by 2030

AECC Accelerates Connected Vehicle Services with POCs and Standardizations

Collaboration within AECC based on all members contributions



WG1 Use Case Development



WG2 Technical Solutions



PoC Committee

Liaison Committee



Automotive
Telcom
Cloud
Communities

AECC & Network Capabilities

- **Standardized, globally uniform, and accessible APIs** are key building blocks for the connected vehicle ecosystem to access and fully utilize existing and future 5G services.
- AECC seeks to **define an architecture and framework** for enabling network capabilities to be consumed and monetized for the connected vehicle ecosystem and **identify new and existing APIs** to be consumed by the connected vehicle ecosystem e.g.



Network-based
Location

Edge Routing &
Workload Mgmt

QoS & Slicing

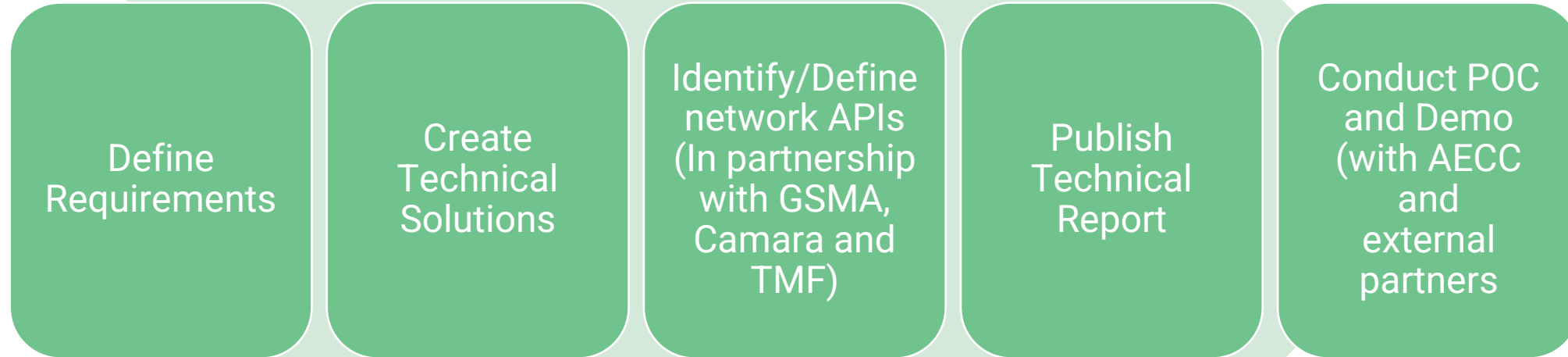
Connectivity Insights

Performance
Monitor

eSIM & Subscription
Mgmt.

...

AECC working with API exposure



GSMA Open Gateway Co-operation agreement:

Objective to identify use cases, requirements, propose solutions and jointly promote the advanced connectivity requirements for automotive

AECC LF Camara MOU:

Linux Foundation's CAMARA Project and AECC to formally collaborate to Advance Connected Vehicle Services

TMF Catalyst (AECC & Toyota champions):

To showcase how digital mobility services can unblock a revenue stream the mobility industry and to the telecommunication industry.

A ECC

+

GSM A™



Identify use cases



scope and standardise requirements



propose solutions which will require advance connectivity



jointly promote the advance connectivity requirements together



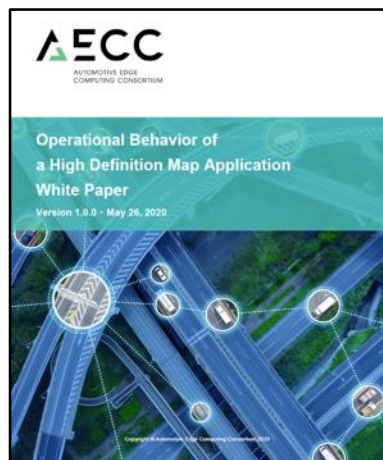
AEC
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Major Publications

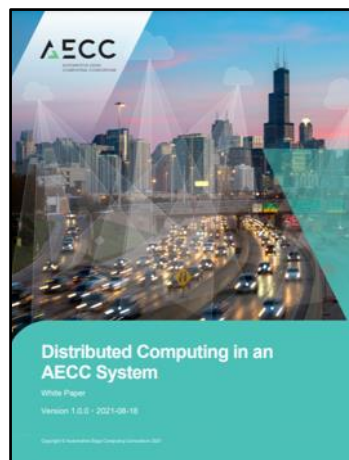


Whitepapers

High-definition map
(May 2020)



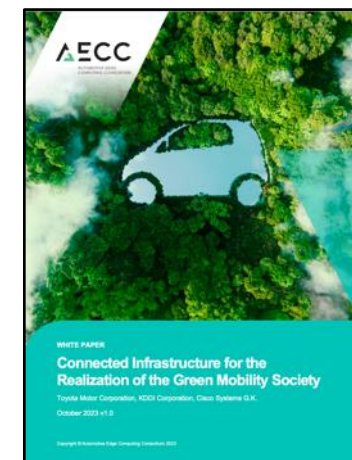
Distributed Computing
(Aug. 2021)



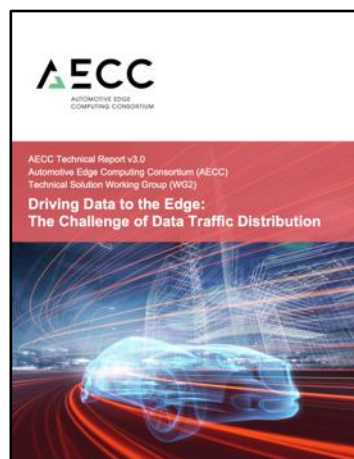
Distributed Data Mgmt.
(Oct. 2023)



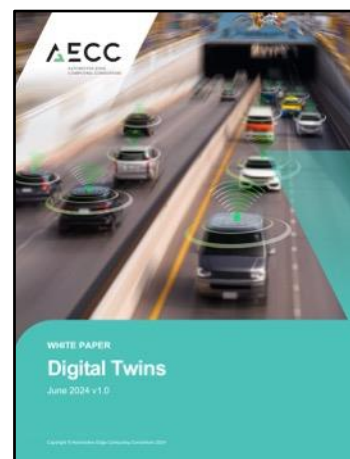
Green Mobility
(Oct. 2023)



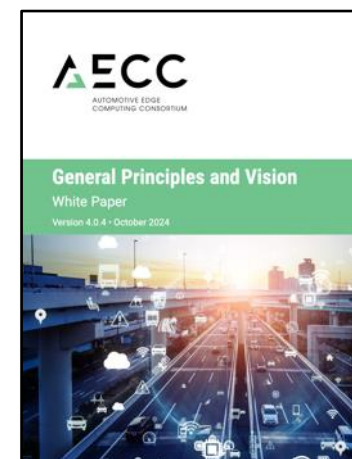
WG2 Technical Report
(Nov. 2023)



Digital Twin
(Jun. 2024)



Updated Vision Paper
(Oct. 2024)





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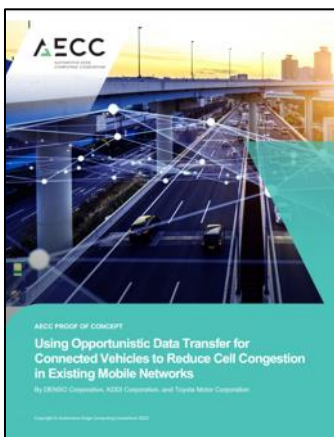


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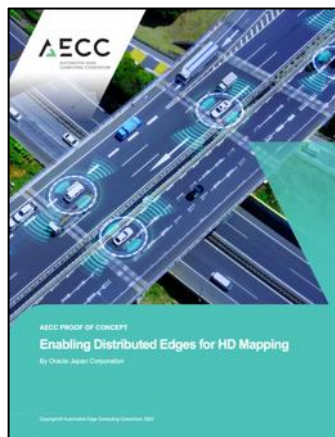
PoCs



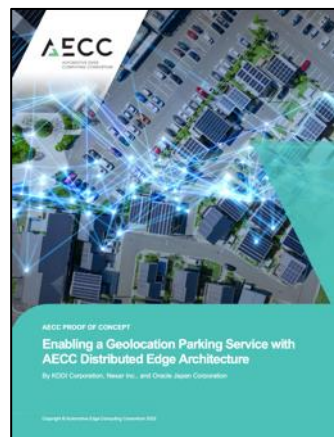
Opportunistic data transfer



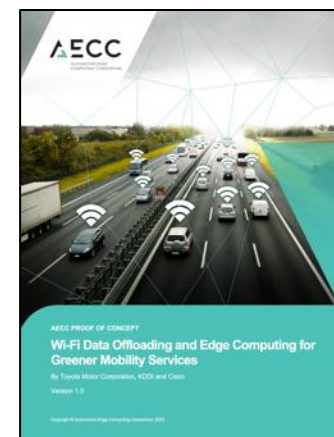
HD Mapping



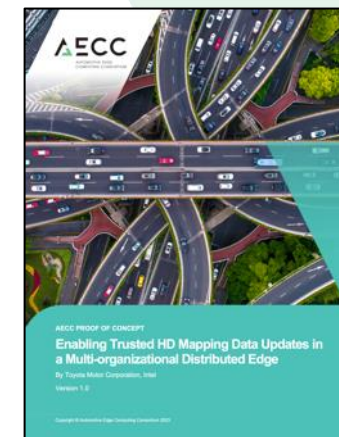
Parking Service



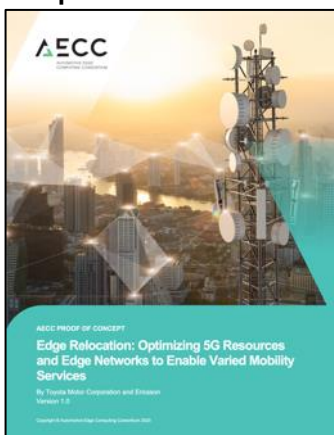
Green mobility



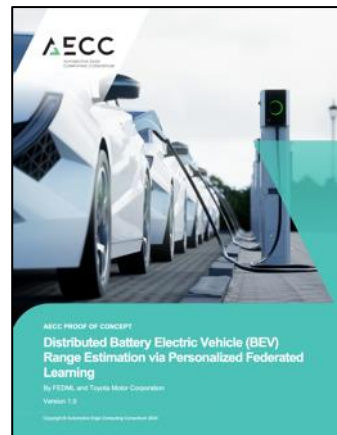
Map update with Blockchain



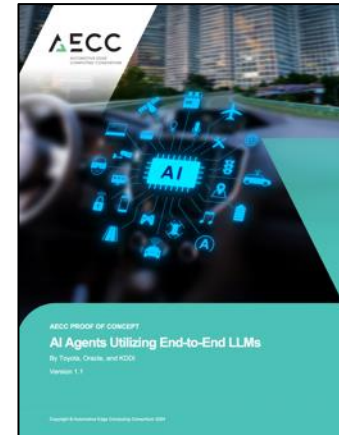
5G edge traffic optimization



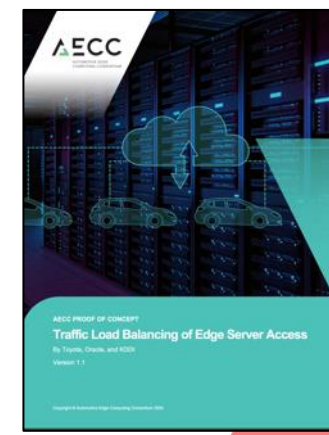
BEV Range estimation



AI partner



Traffic steering for edges





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Event Highlights



AECC All Member Meeting@Berlin (Oct.)

18 Demos
Exhibited



Over 130 visitors, mainly from Europe



AECC x GSMA MoU signing ceremony

Participating in the Proof of Concept (PoC) program is a great way to get started with AECC.

Visible exhibitions of the AECC's work

Showcase the utility of our research and approach

Any company can take part in the PoC program!



* CONNECT AND LEARN MORE AT

AECC.ORG