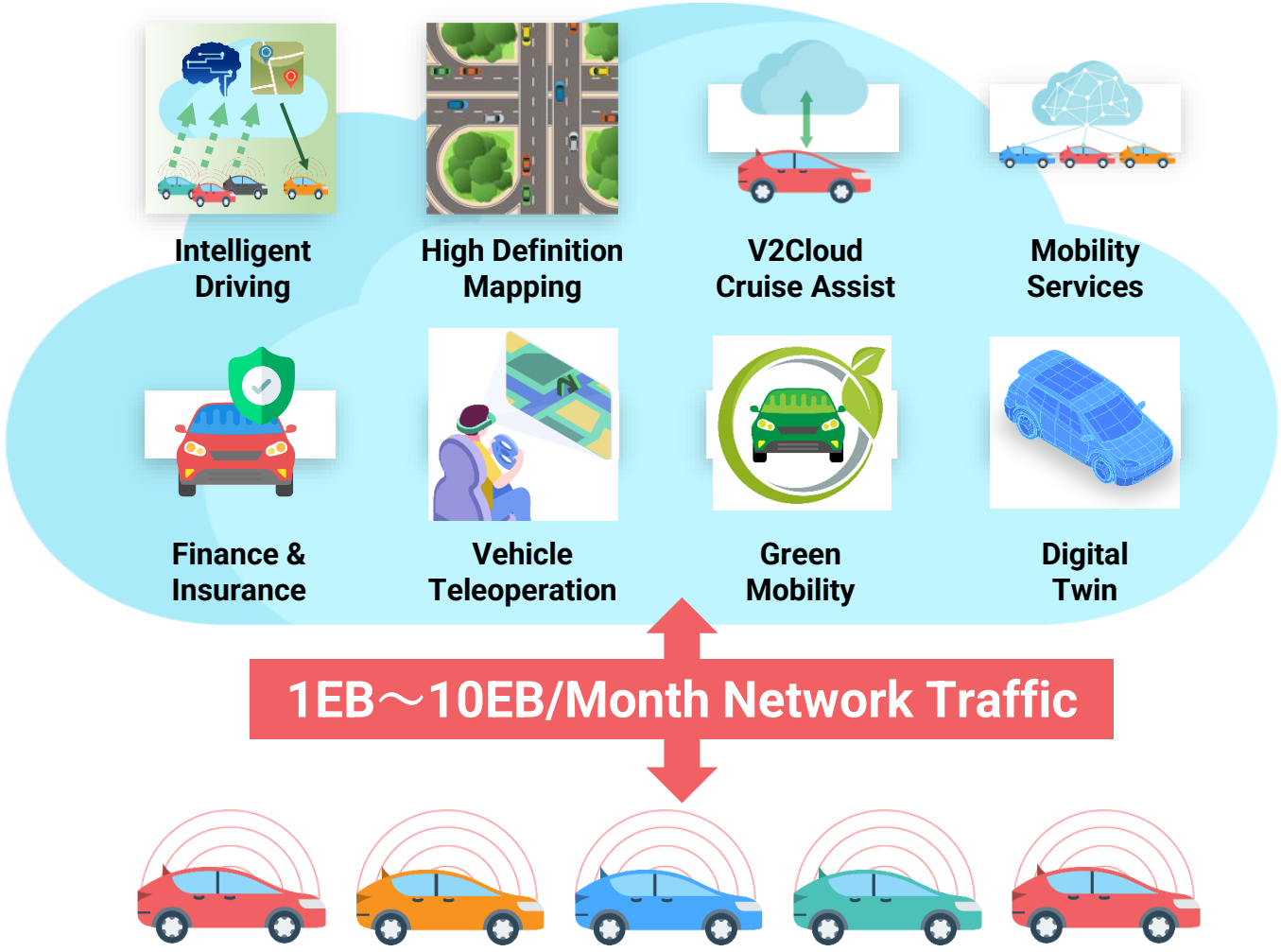
AECC
AUTOMOTIVE EDGE
COMPUTING CONSORTIUM
Introduction to AECC

AECC Fosters Innovations on Communications and Processing of Automotive Big Data



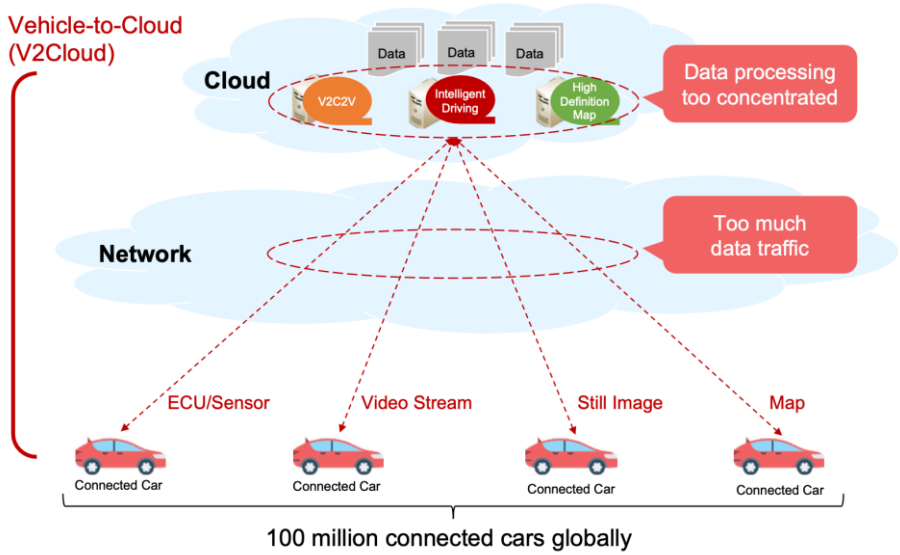
AECC Members

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

History of AECC

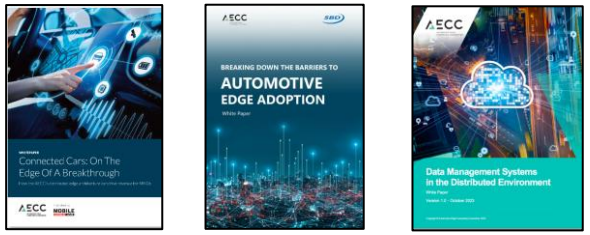
2018 – 2019 "Dawn"

Activity mainly focused on efficient **data communications** in the 5G era



2020 – 2022 "Incubation"

Enriched **publications** through remote collaborations



AECC whitepapers

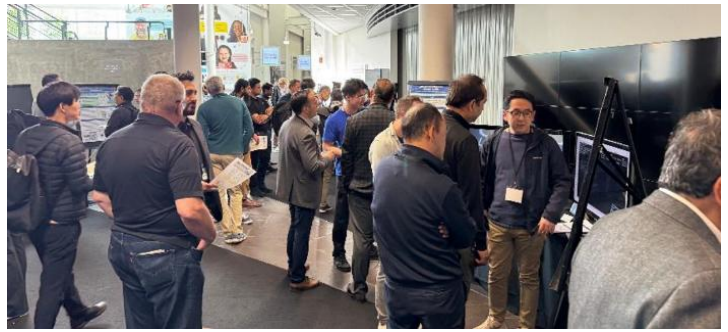
PoC Technical Reports

AECC publications are available at:
https://aecc.org/resources/publications/

2023 – Now "Growth"

- Expanded its scope to **compute AND communication** platforms for **AI**
- Accelerated PoC and liaison activities

Liaison Partners: Wi Fi ALLIANCE, 5GAA Automotive Association, GSMA



Demo event at All Member Meeting (Apr 2025 in California, U.S.A.)

All Member Meeting

2018/1 AECC launched

3 in-person All Member Meetings / year

In-person meetings suspended due to COVID

'23/10 '24/4 '24/10 '25/4 '25/11

2 in-person All Member Meetings / year

How AECC Activity Works

Special Interest Groups (**SIGs**)

Digital Twin SIG

- Ad-hoc meetings
- Documentation
- Joint PoC

Data First SIG

- Ad-hoc meetings
- Documentation
- Joint PoC

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- White Paper (Draft)
- PoC Tech Reports (Draft)
- Status updates

Working Groups (WG1 / WG2)

PoC Committee

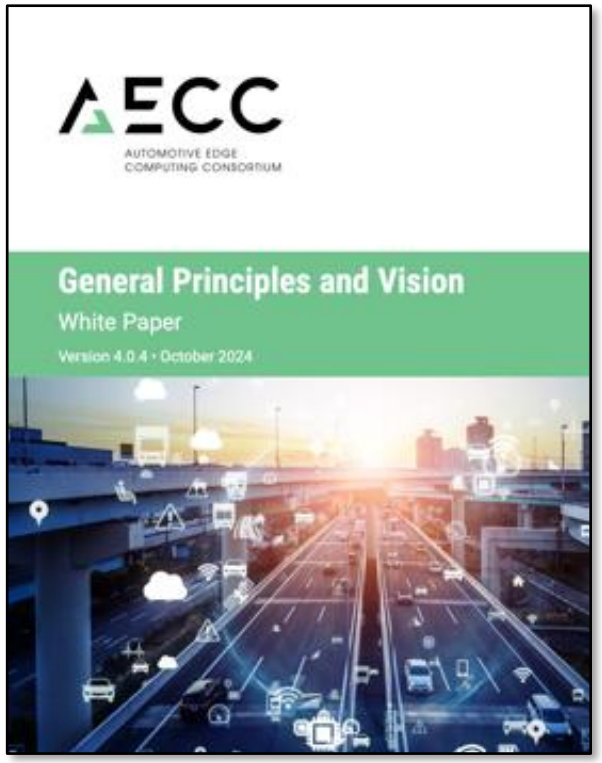
Liaison Relationship & Strategy Committee

- Joint Working Group Meetings (monthly, remote)
- All Member Meetings (biannually, in-person)
- Review, discussion & approval

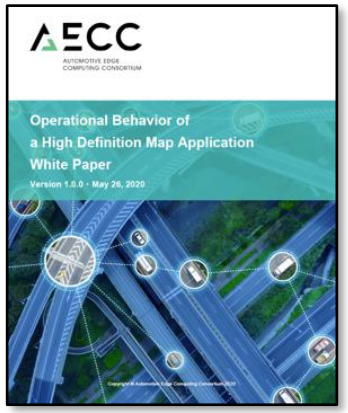
- Publications
- Liaison

Selected Publications (White Papers)

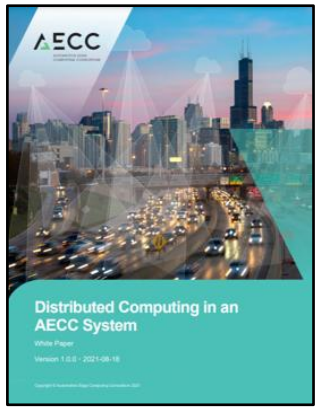
Vision White Paper



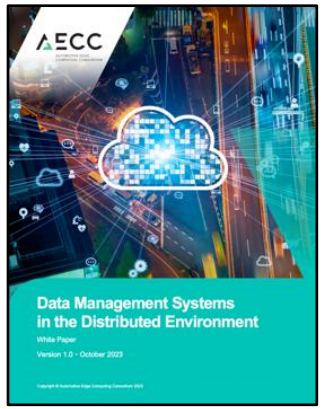
High-definition Map



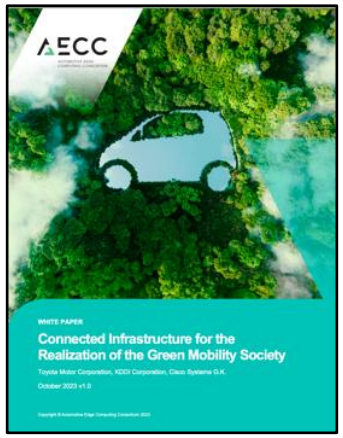
Distributed Computing



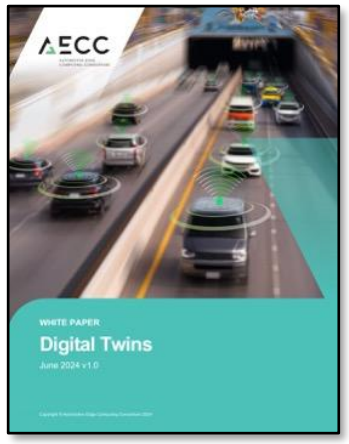
Distributed Data Management



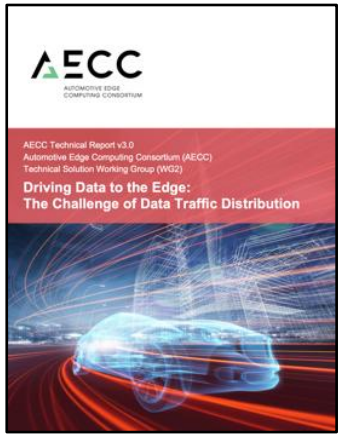
Green Mobility



Digital Twins



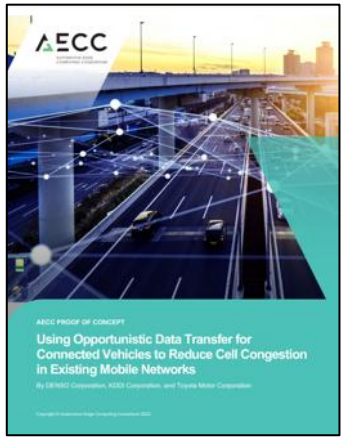
Data Traffic Distribution



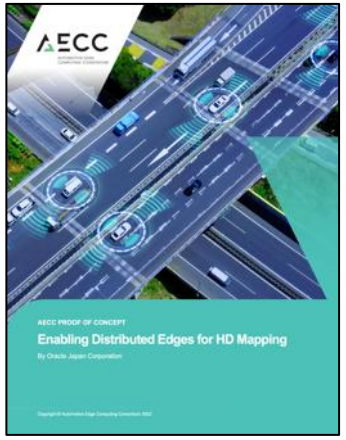
AECC Publications are available at: https://aecc.org/resources/publications/

PoC Reports

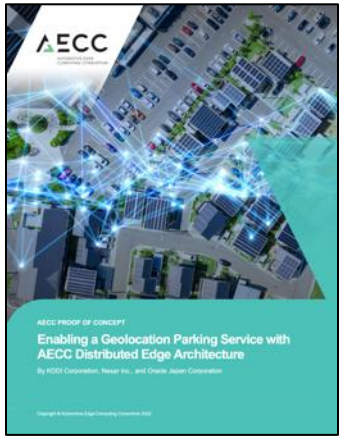
Opportunistic Data Transfer



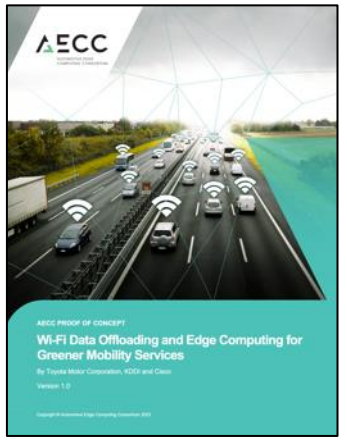
HD Mapping



Parking Service

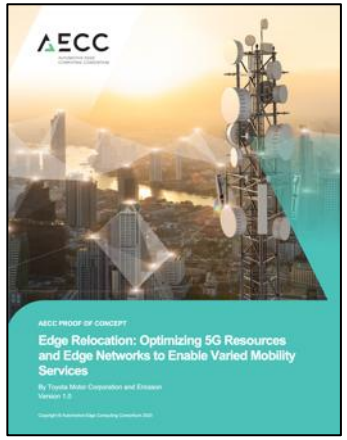


Green Mobility

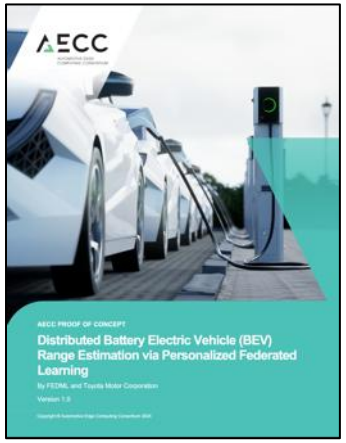


Map Update with Blockchain

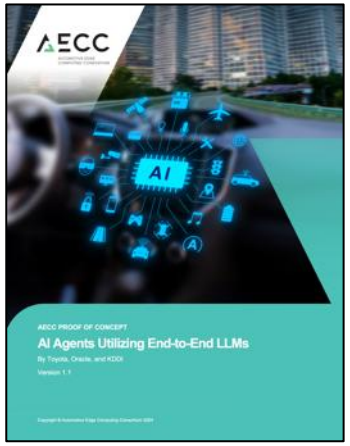
5G Edge Traffic Optimization



BEV Range Estimation



AI Partner



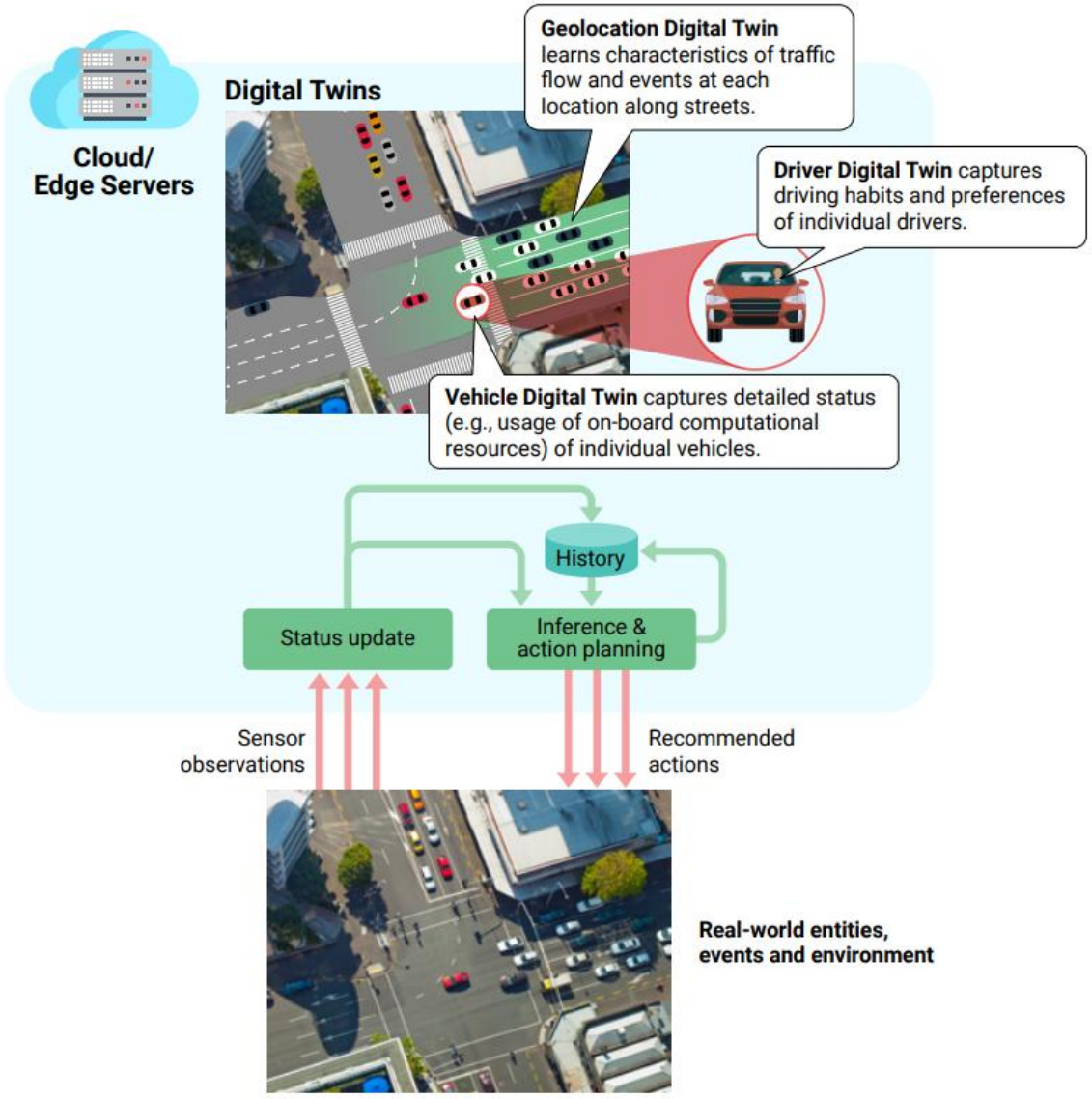
Traffic Steering for Edges

PoC reports are available at: https://aecc.org/proof-of-concepts/

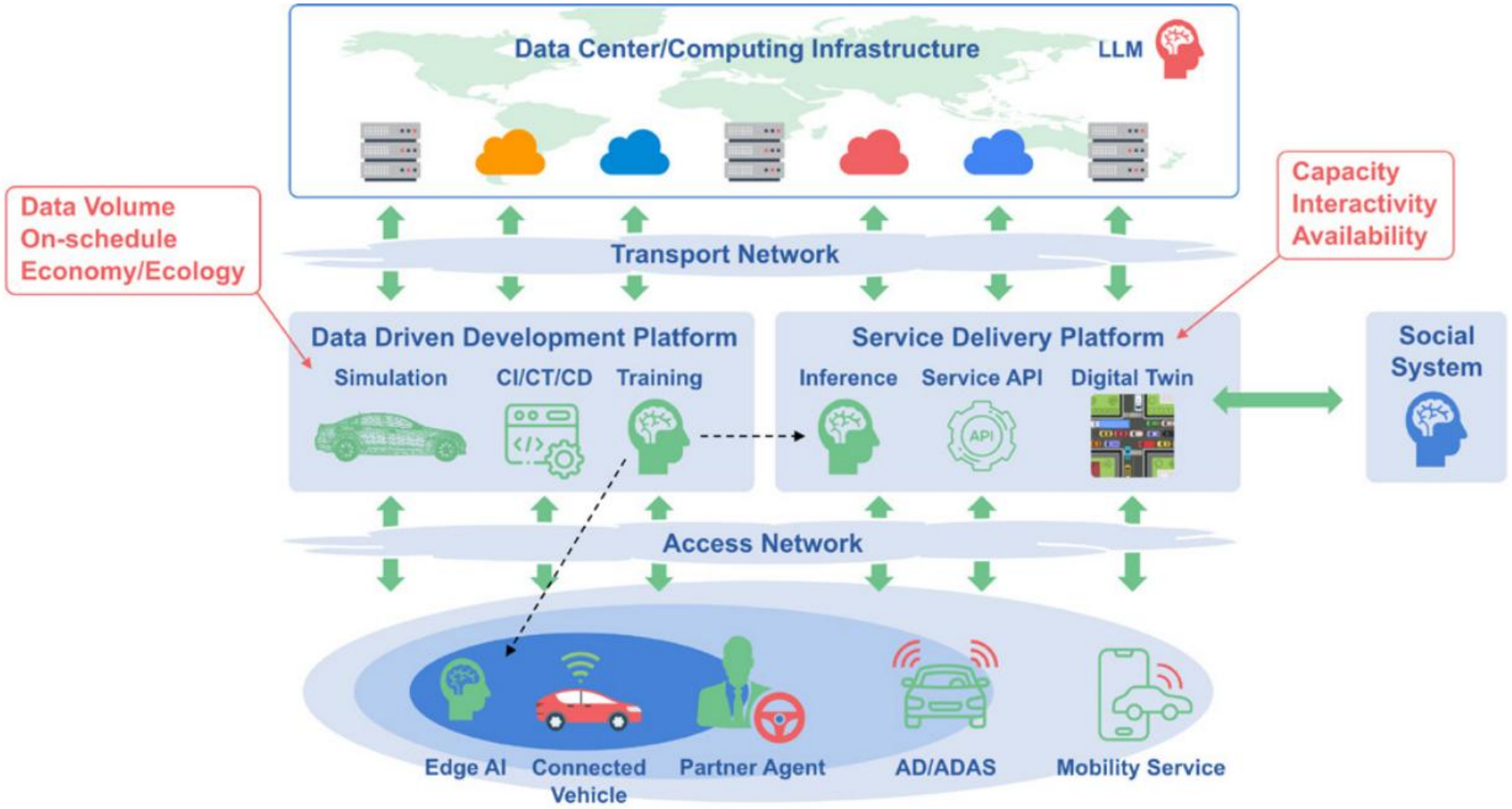
Road Traffic Digital Twins

Digital Twin

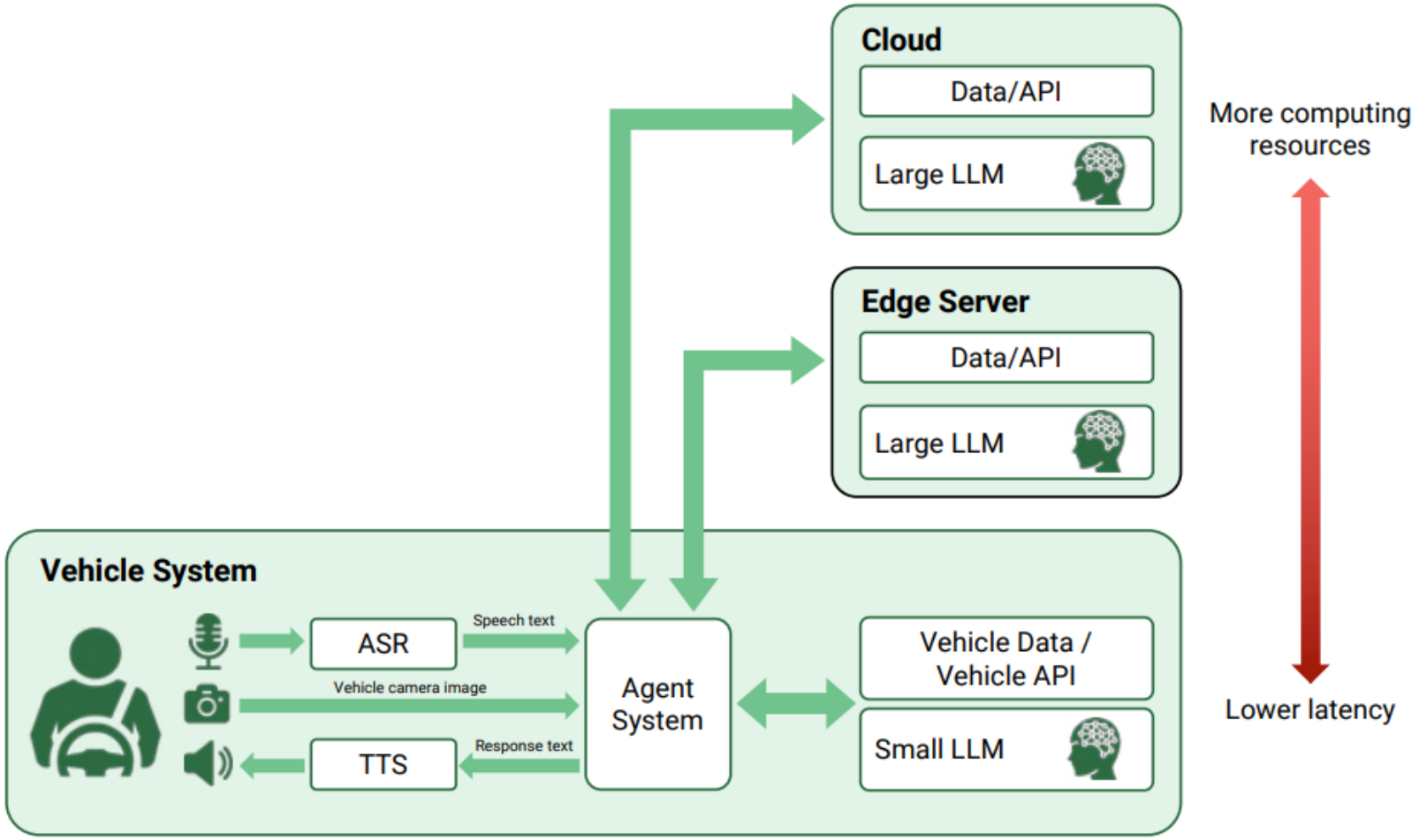
Real-world



Data Driven Development Platform



“AI Partner” by Hierarchical Edge Computing



AECC All Member Meeting in Tokyo, Japan

Dates November 5-6, 2025

Tentative Agenda

Wednesday, November 5

- Opening plenary
- Working group sessions
- Special demo session (open to non-members; invitation only)
- Networking reception and award ceremony

Thursday, November 6

- 5GAA / GSMA / IEEE collaboration sessions
- Working group sessions
- Closing plenary

Summary

- **Issue-driven solution development** to shape digital (i.e., communication, computation and storage) platforms for automotive big data
- AECC initially focused on efficient data communications, then expanded its scope to computation platforms in the AI era
- **PoCs driven by SIGs** are becoming the core activity of AECC
- Promoting open innovations through demo events in All Member Meetings (AMMs)

Upcoming milestones: **Interim Meeting** in Okinawa (Sept. 2025) -> **AMM** in Tokyo (November, 2025)

Membership Types and Member Benefits

Contributor Level

$20,000/year

- Participate, attend and vote in member meetings
- Participate, contributed and vote in working groups
- Access AECC requirements and other deliverables before they are published
- Be informed of AECC activities, plans and member specific information

Sponsor Level

$50,000/year

- All benefits for contributor-level members
- **May appoint one representative to serve as member of the Board of Directors**

AECC

AUTOMOTIVE EDGE COMPUTING CONSORTIUM

* CONNECT AND LEARN MORE AT

AECC.ORG