



EUROPEAN UNION'S 5G MOBILITY STRATEGY: HOW CAN 5GAA CONTRIBUTE?

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Driving Connected Mobility Forward

5GAA brings together automotive, technology and telecommunications companies to work closely together to develop end-to-end connectivity solutions for future mobility and transportation services



AUTOMOTIVE INDUSTRY

Vehicle Platform, Hardware
and Software Solutions



TELECOMMUNICATIONS

Connectivity and Networking
Systems, Devices and Technologies

5GAA unites today 118 members from around the world working together on all aspects of C-V2X including technology, standards, spectrum, policy, regulations, testing, business models and go-to-market

5GAA: A Global Cross Industry Association

September 2016

- “Audi, BMW Group, Daimler AG are teaming with Ericsson, Huawei, Intel, Nokia, and Qualcomm to create the 5G Automotive Association (5GAA), which will help develop, test, and promote 5G standards”
- “Scope of the alliance is focused on bringing connectivity solutions to market addressing technical, business, and regulatory challenges”



Q2 2019

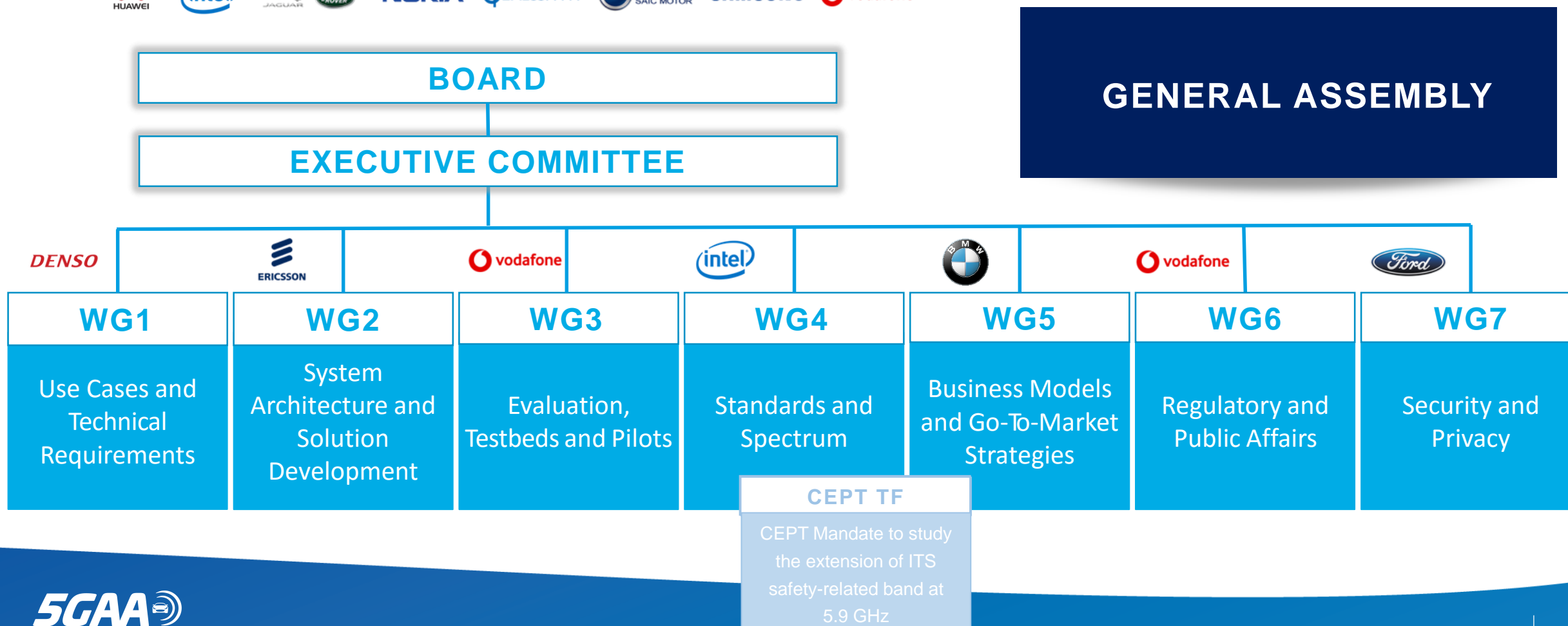
5GAA unites 118 members working together to:

- Deliver innovation for road safety, connectivity and sustainability
- Accelerate cooperative, connected, automated mobility
- Develop 360° solutions for SMART mobility services
- Pave the way towards 5G mobility





5GAA Organisational Structure

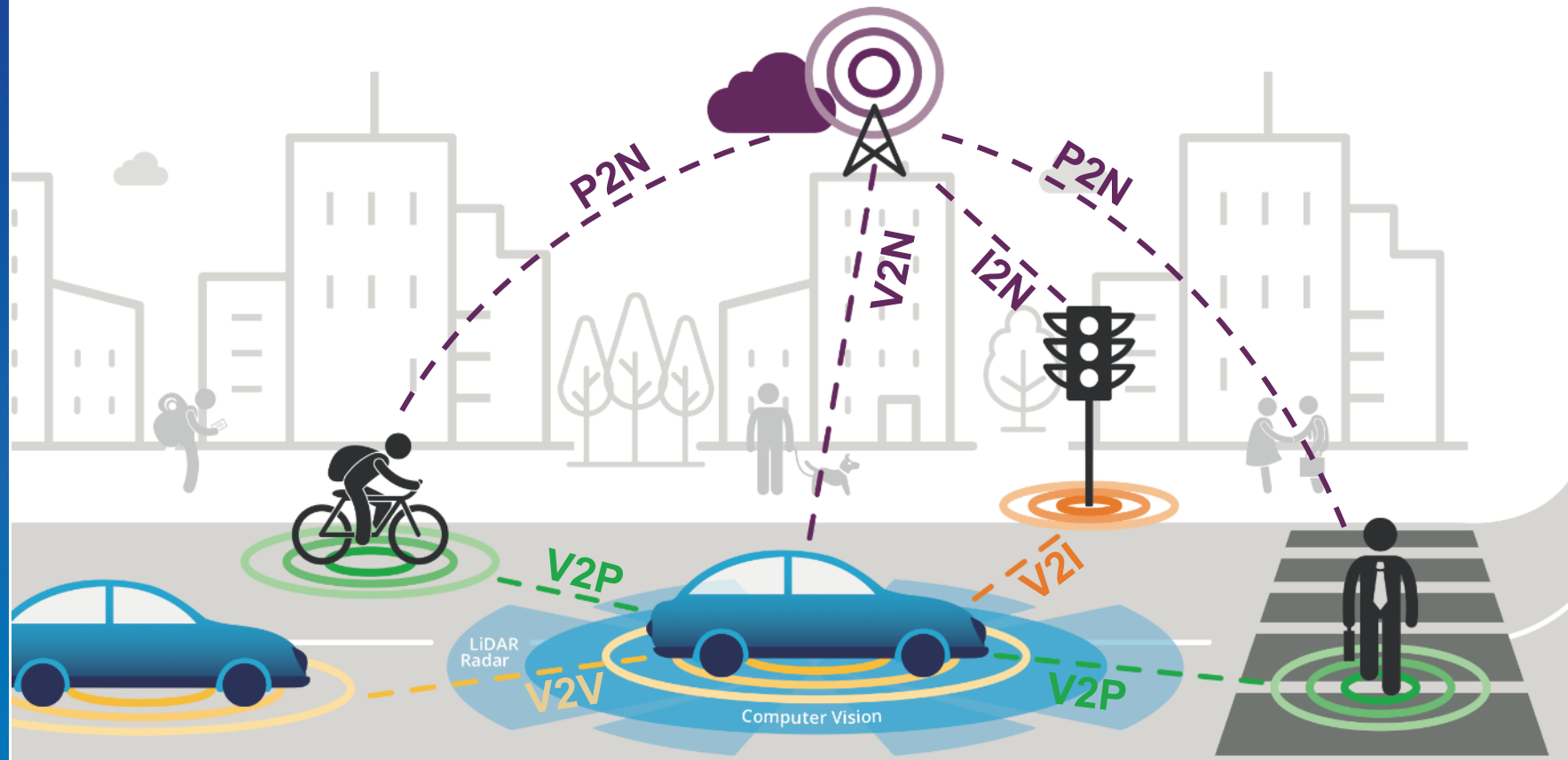


What is C-V2X (Vehicle to Everything)?

C-V2X is a comprehensive road safety and traffic efficiency solution that allows **vehicles** to communicate with

- **Other vehicles (V2V),**
 - **Pedestrians and Cyclists via smartphones (V2P),**
 - **Road Infrastructure (V2I),**
- supported by the
- **Mobile network (V2N, P2N, I2N)**

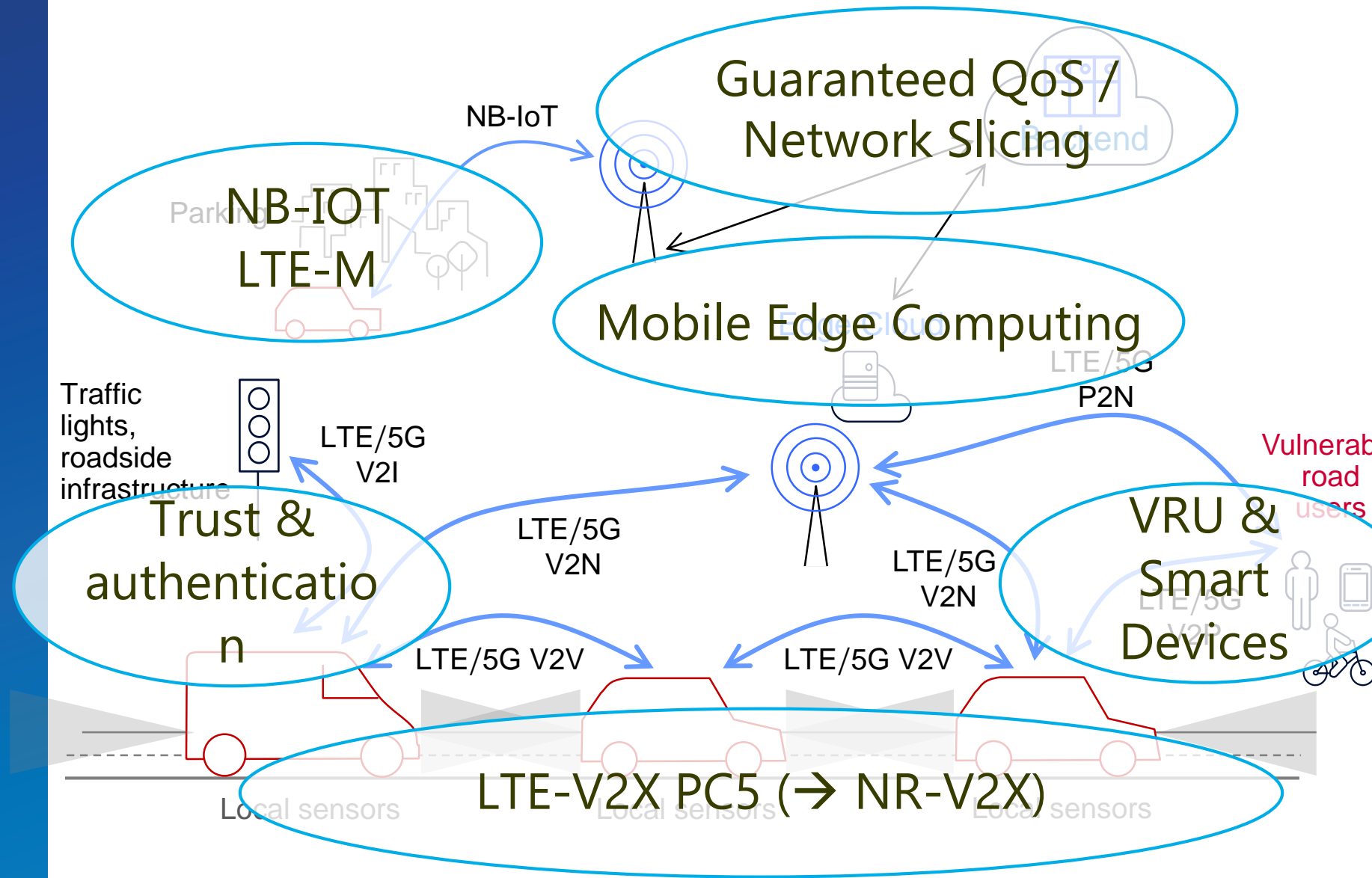
to guarantee **full coverage** and **continuity of services**.

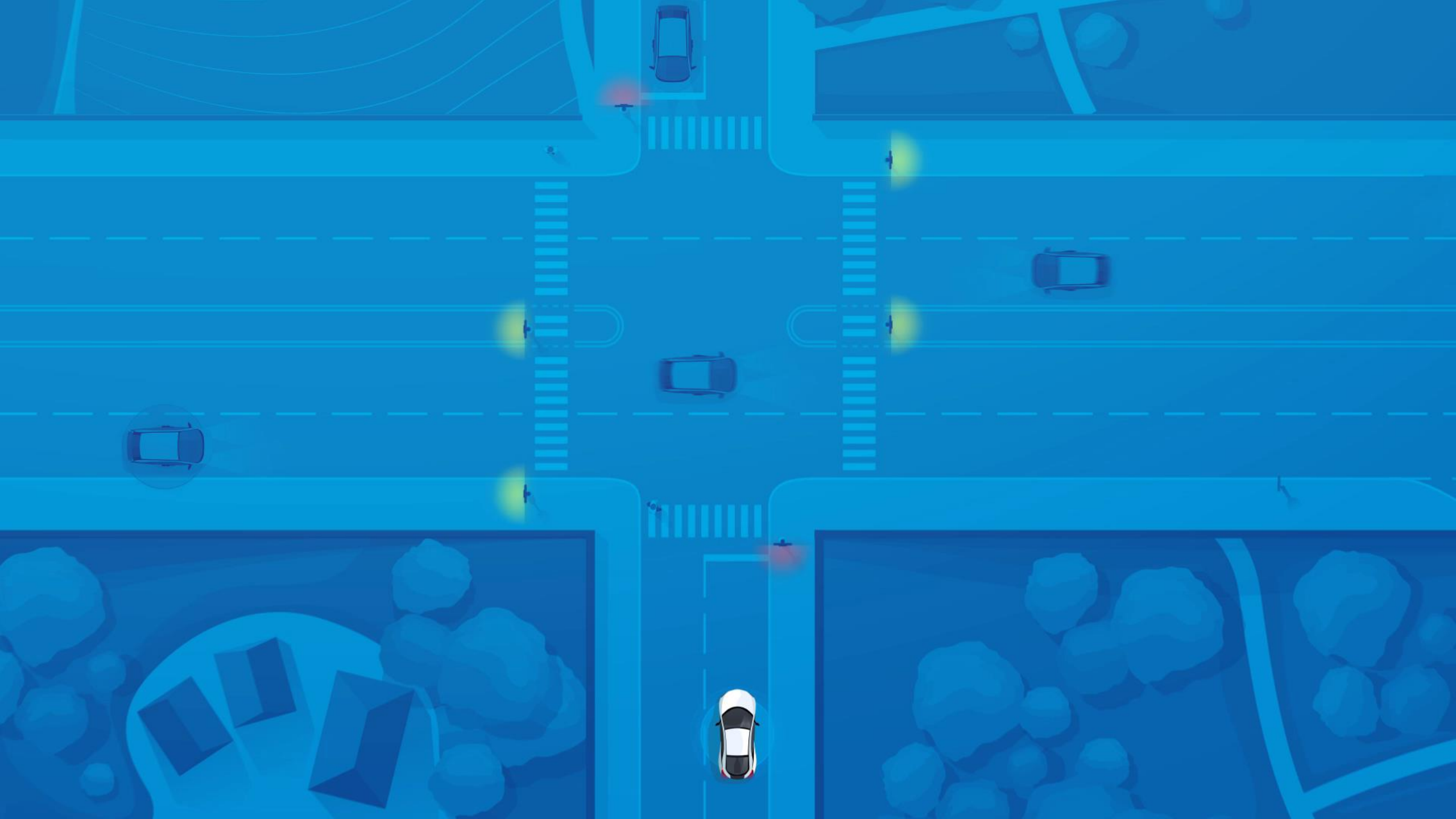


Automotive Connectivity Landscape

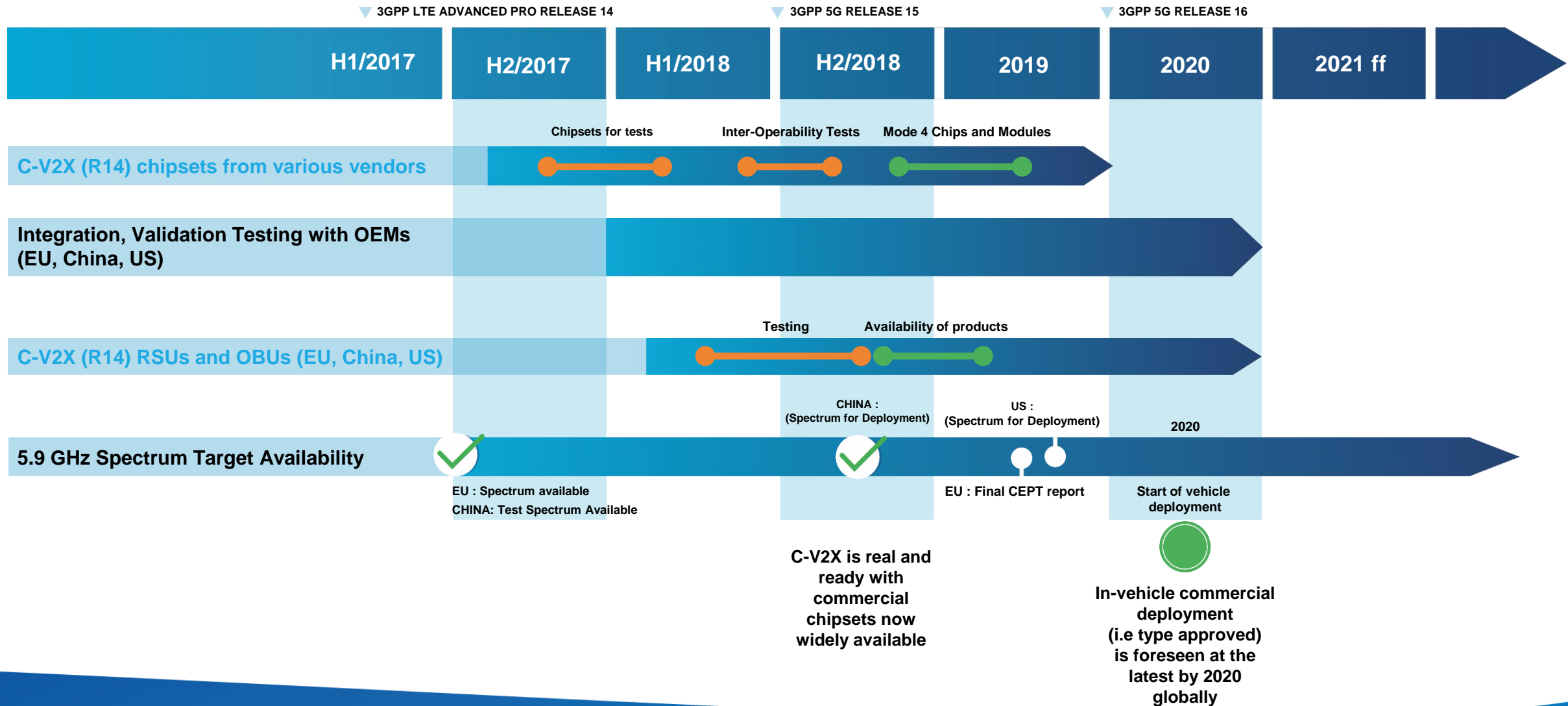
C-V2X is a unified technology platform which integrates:

- **Short-range**, network-less, direct communications (LTE-V2X **PC5** today)
- **Long-range** cellular network communications (LTE-V2X **Uu** today)

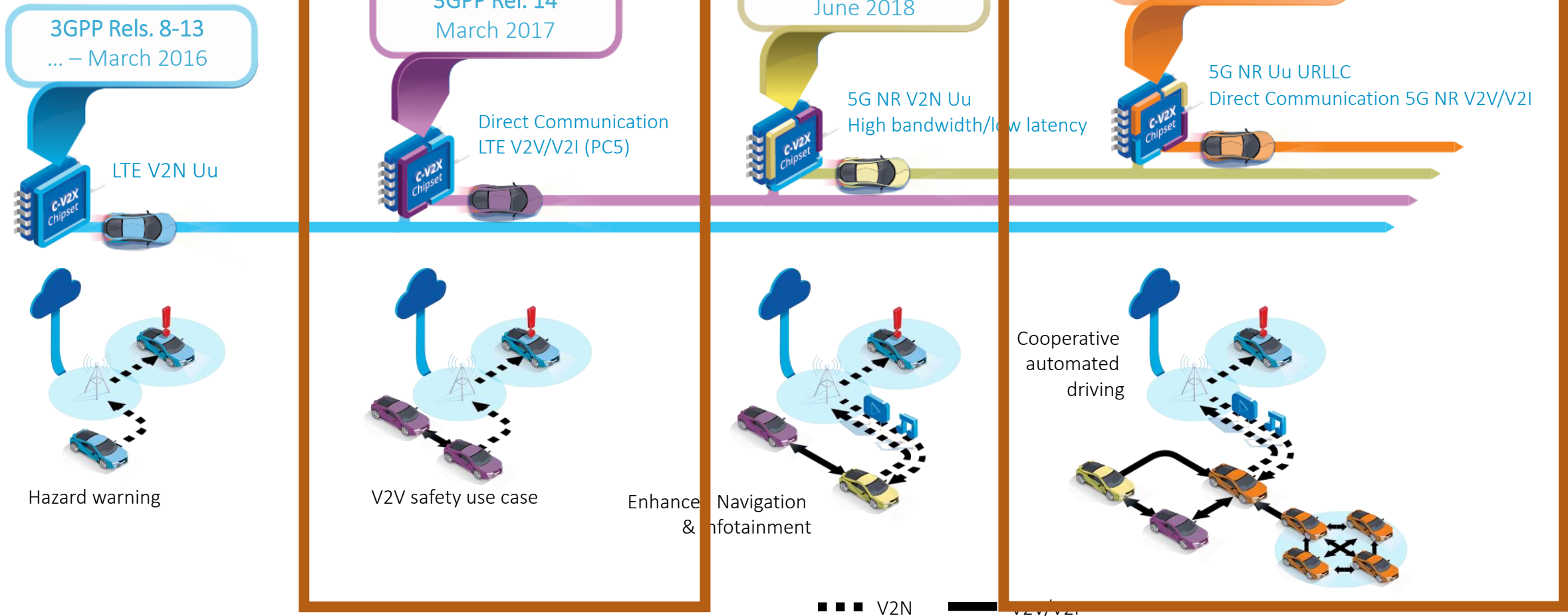




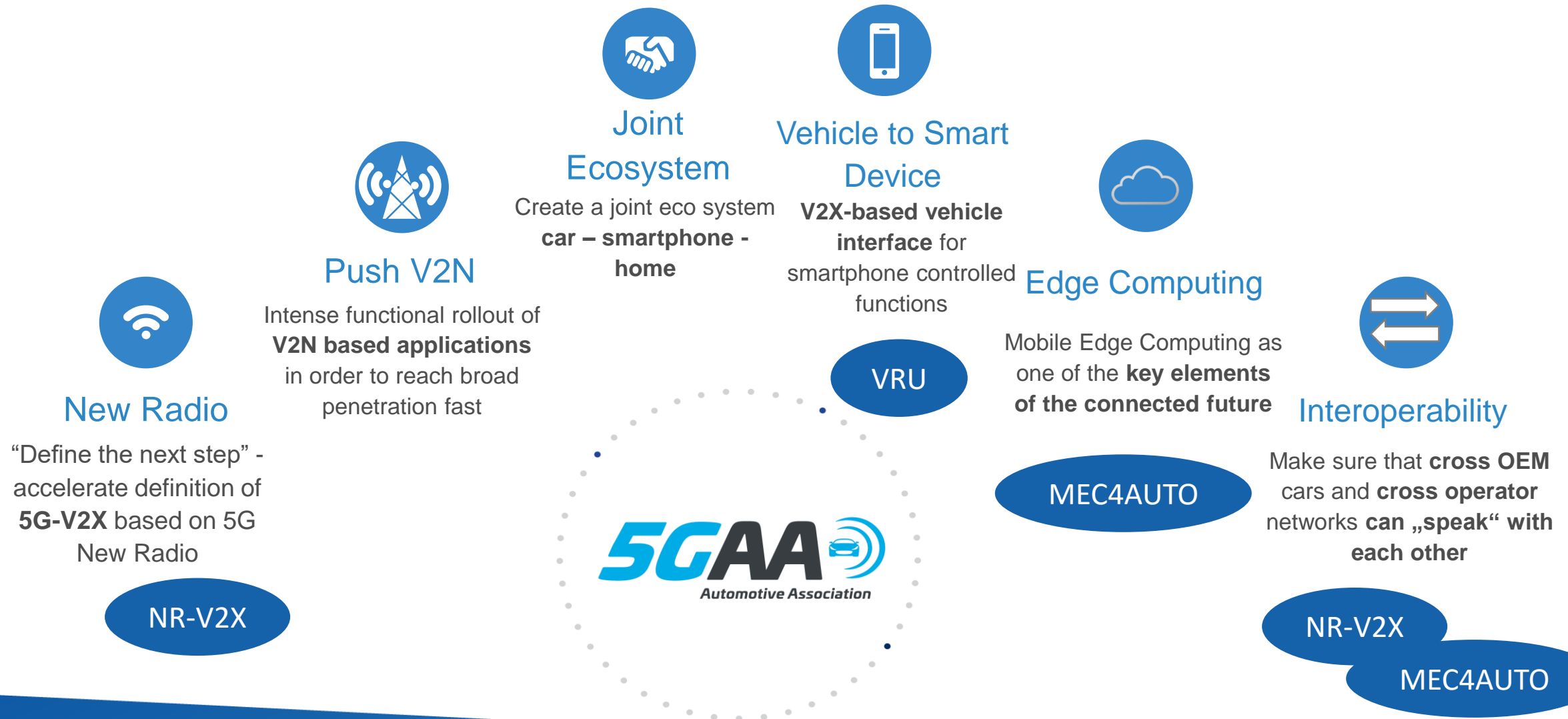
Timeline for deployment of C-V2X (V2V/V2I)



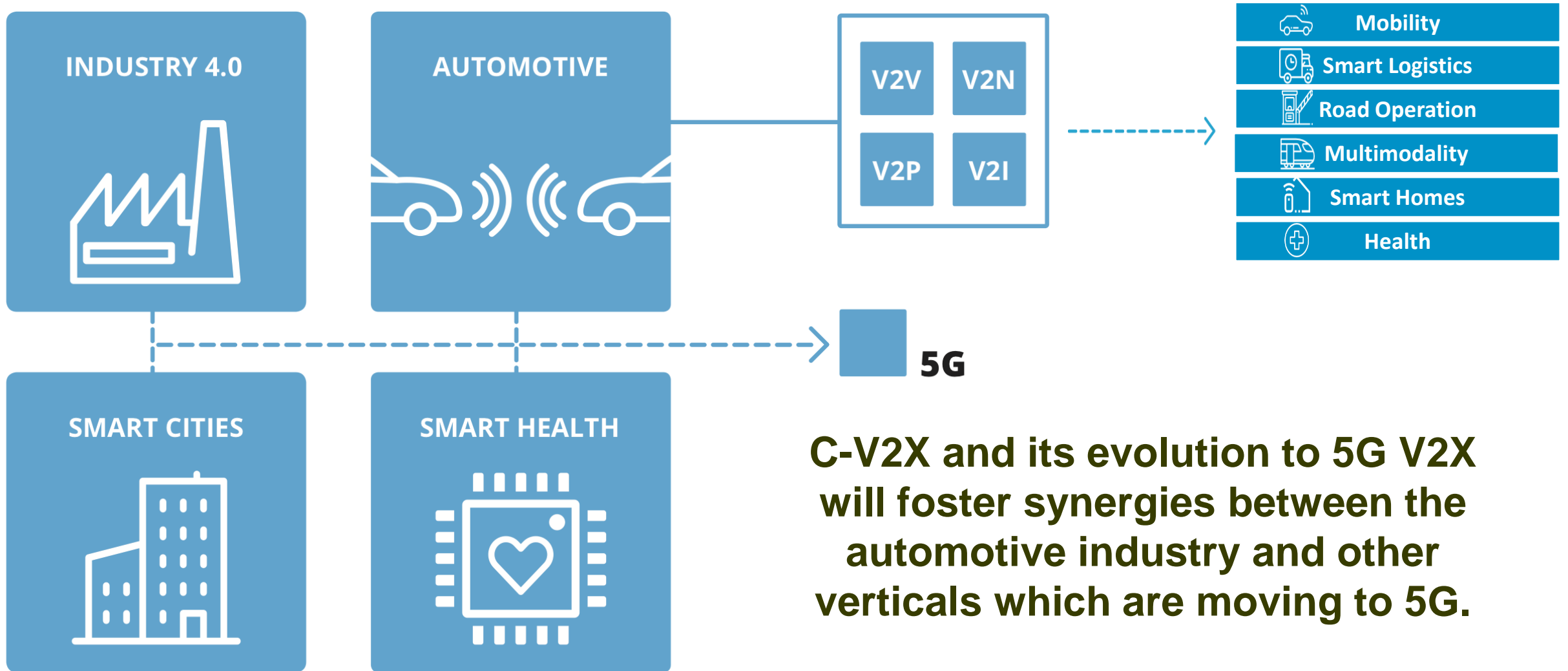
C-V2X: Evolution to 5G maintains backward compatibility



5GAA Priority Areas and on-going Work Programme



5G - Major Industry Verticals and Automotive Enabled Applications



C-V2X and its evolution to 5G V2X will foster synergies between the automotive industry and other verticals which are moving to 5G.

Driving innovation: Leveraging solutions together

- On-going dialogue between 5GAA and leading technology partner organisations to advance innovation in all world regions
- 5GAA to continue strengthen technical cooperation and maximise benefits with existing organisations or projects by reinforcing engagement via common members
- Develop new partnerships with relevant organisations on specific aspects e.g. vulnerable road users or road authorities

