



# 5G Automotive Association, **pioneering digital transformation** in the **automotive industry**

Christoph Voigt, Chairman 5GAA

Learn more at  
[WWW.5GAA.ORG](http://WWW.5GAA.ORG)

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



## **AUTOMOTIVE INDUSTRY**

Vehicle Platform, Hardware  
and Software Solutions



## **TELECOMMUNICATIONS**

Connectivity and Networking  
Systems, Devices and  
Technologies

End to end solutions for intelligent  
transportation, mobility systems  
and smart cities

# 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”

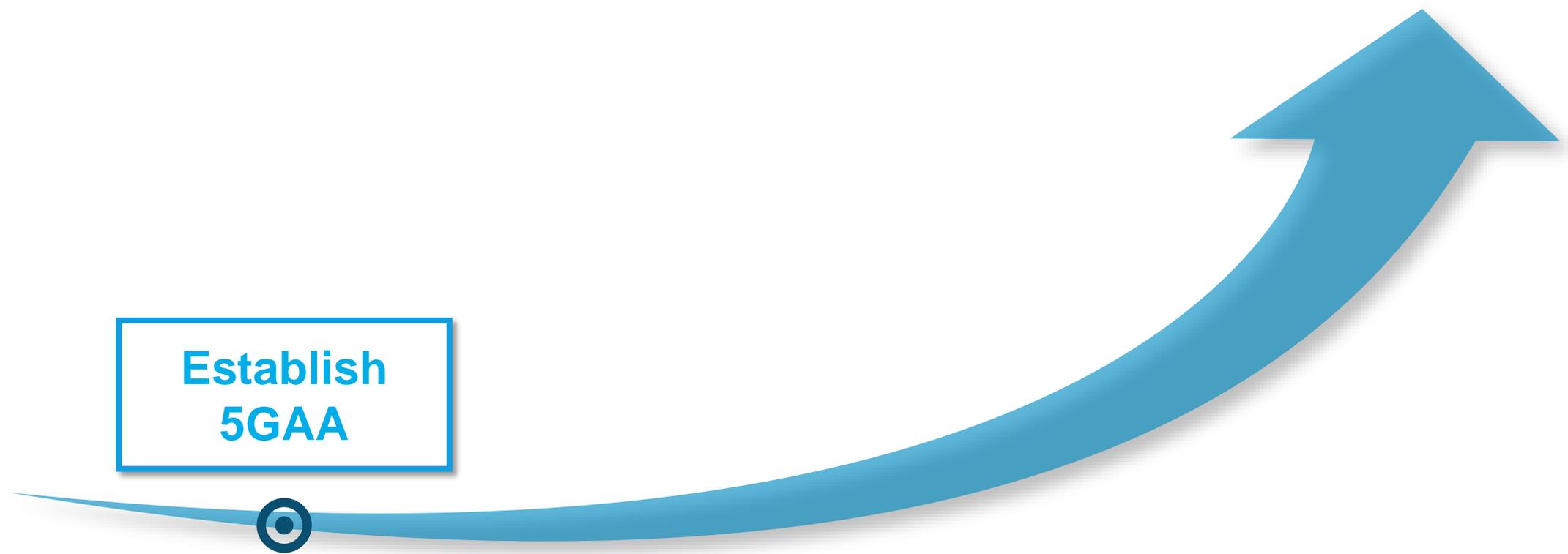


## Q1 2018

- 5GAA unites 80+ 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

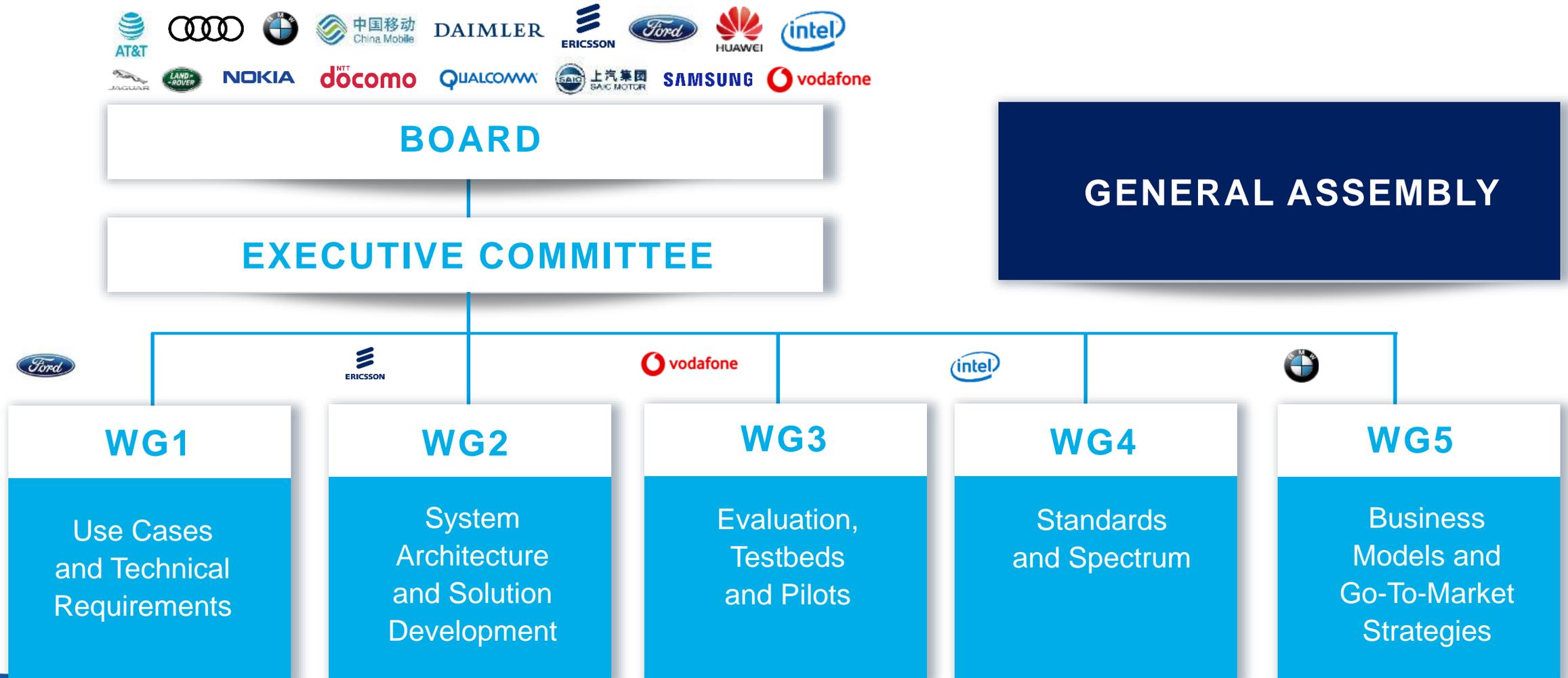


# Looking 18 months back...



Establish  
5GAA

# Set up 5GAA - Our Organizational Structure

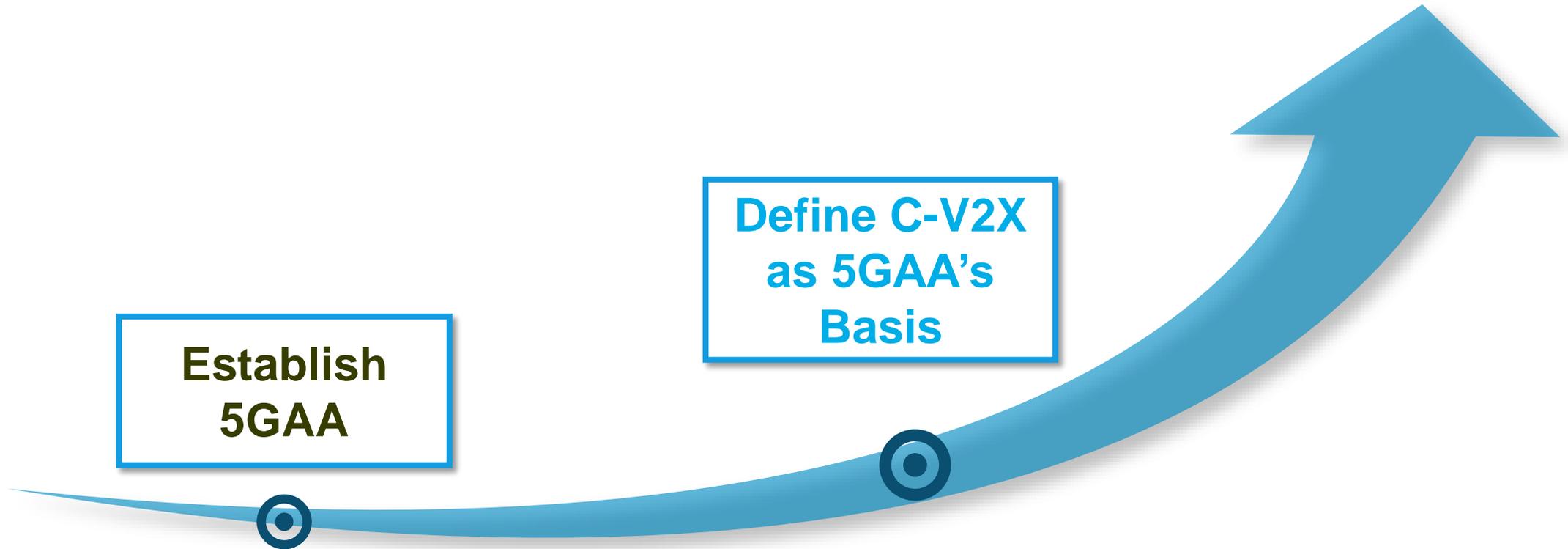


# Liaisons with regulators and organizations



- MoU with European Automotive Telecom Alliance (EATA) – Feb 2017
- MoU with Next Generation Mobile Networks (NGMN) – Feb 2017
- MoU with Alliance Global TD-LTE Initiative (GTI) – Feb 2017
- Market Representation Partner (MRP) in 3GPP – April 2017
- Round Table with Chinese Government during Mobile World Congress Shanghai – June 2017
- MoU with China IMT 2020 – November 2017
- Round Table with European Road Operators Munich – January 2018
- MoU with Telematics Industry Application Alliance (TIAA) – March 2018

# Looking 18 months back...

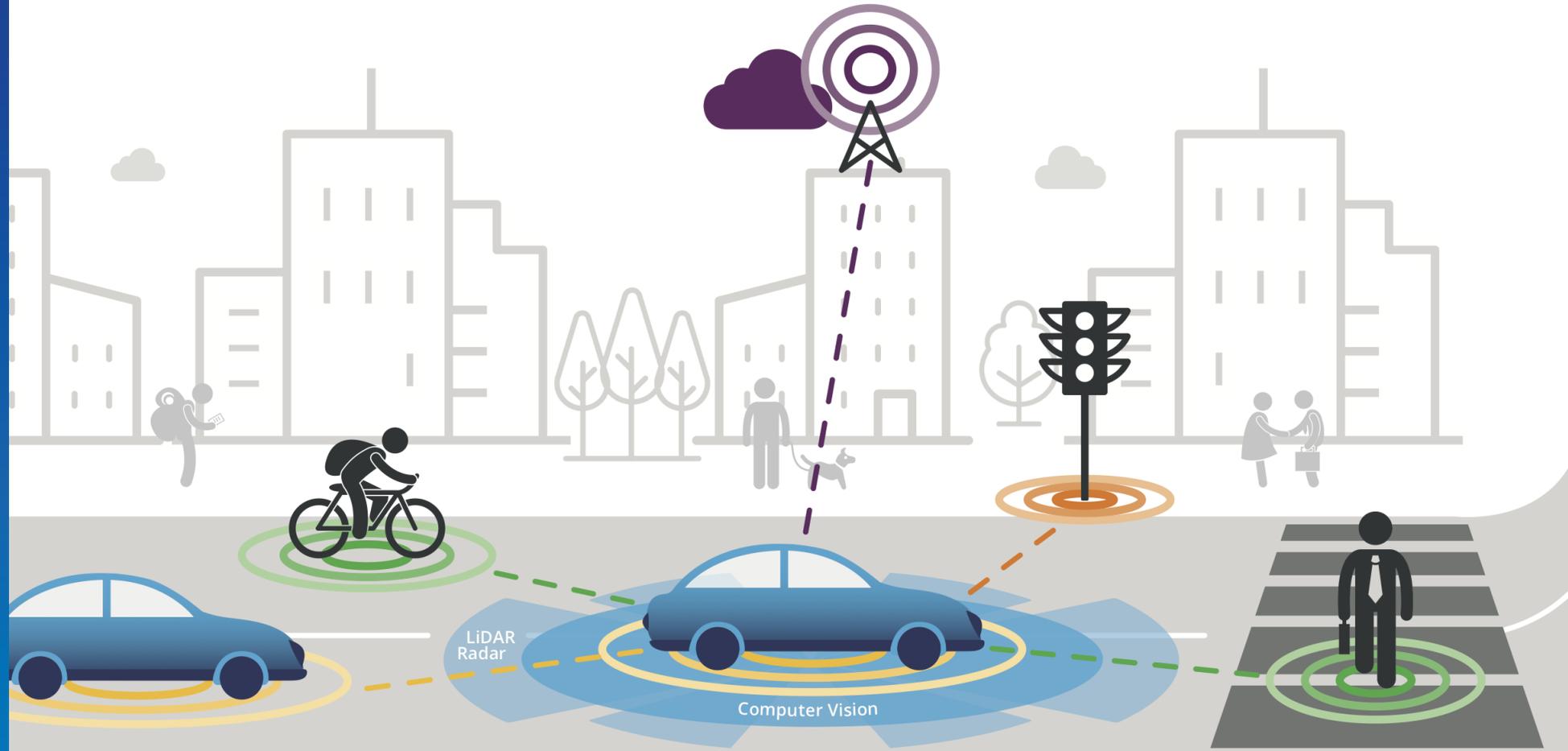


# What is V2X (Vehicle to Everything)?

Comprehensive  
vehicle and traffic  
safety

Accelerates  
autonomous driving

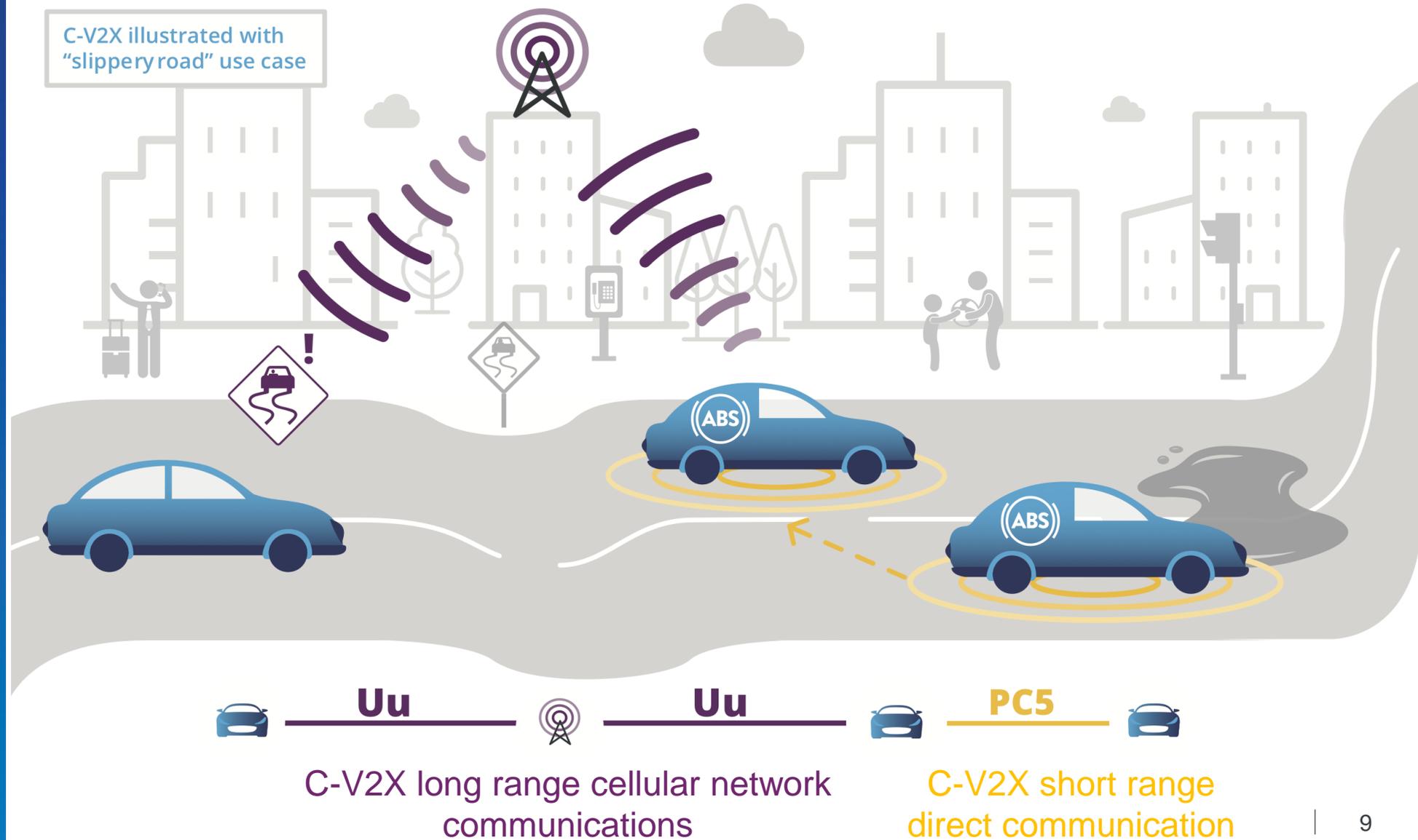
Allows vehicles to  
communicate with  
each other **V2V**  
and the wider  
transport ecosystem  
**V2N, V2P, V2I**



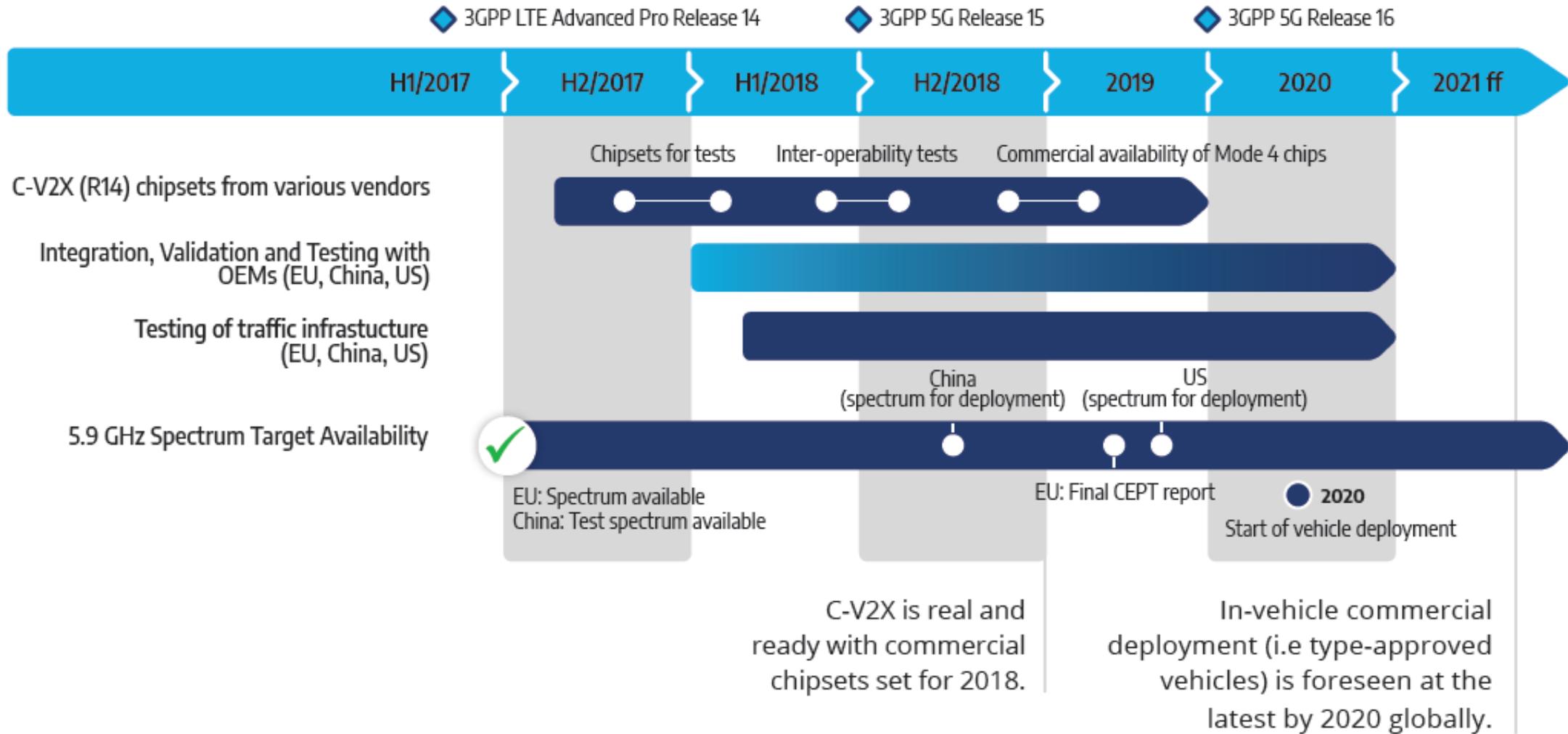
# Why Cellular V2X (C-V2X)?

C-V2X is a unified technology platform including both:

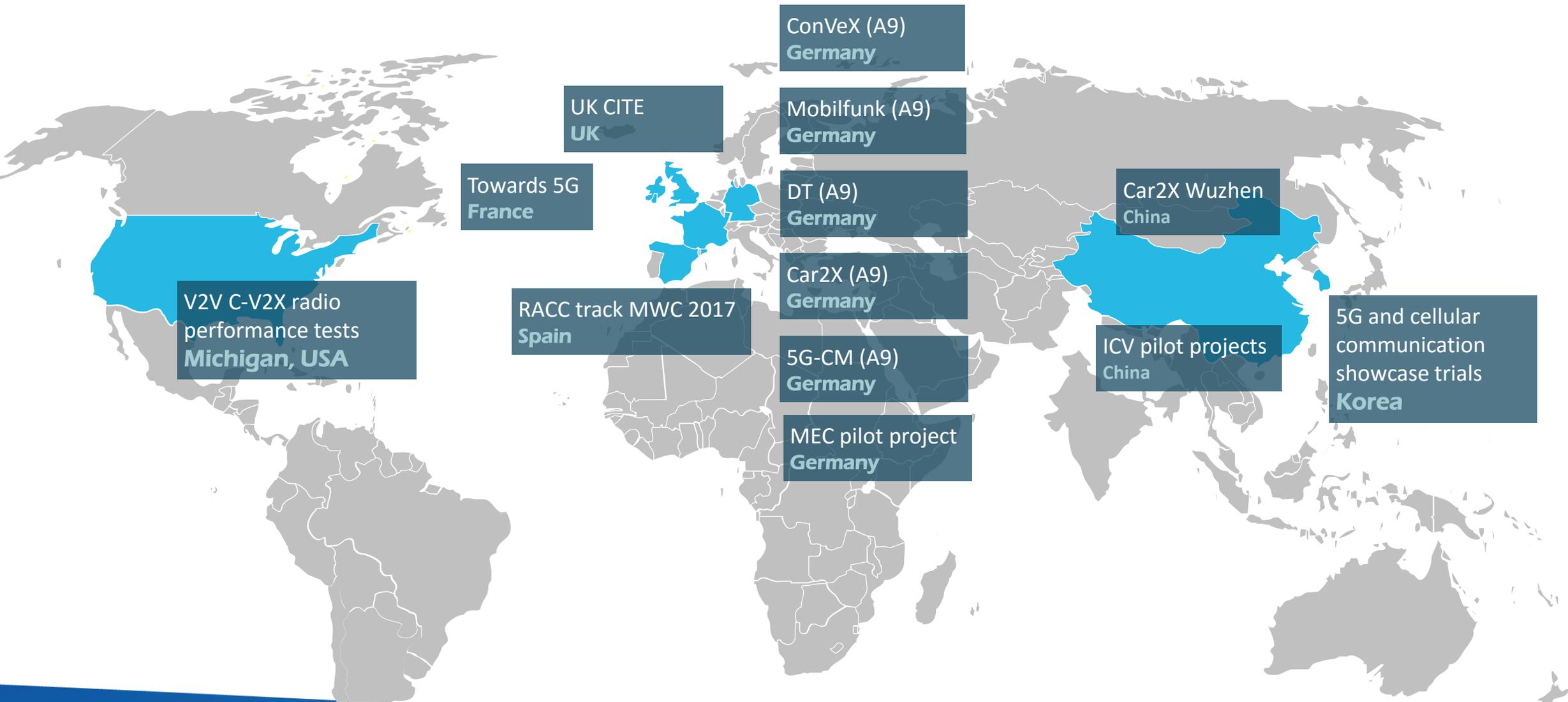
- Short range direct communications (LTE-V2X PC5)
- Long range cellular network communications (LTE-V2X Uu)



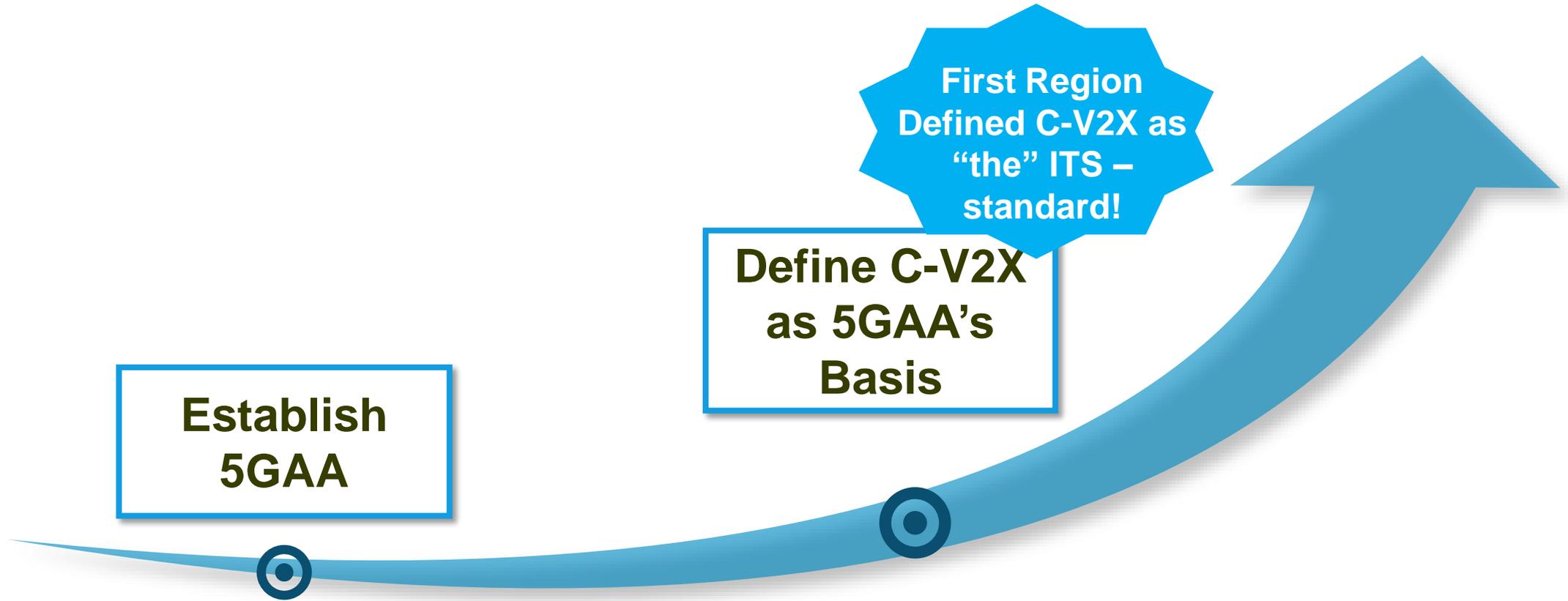
# Timeline for deployment of C-V2X (V2V/V2I)



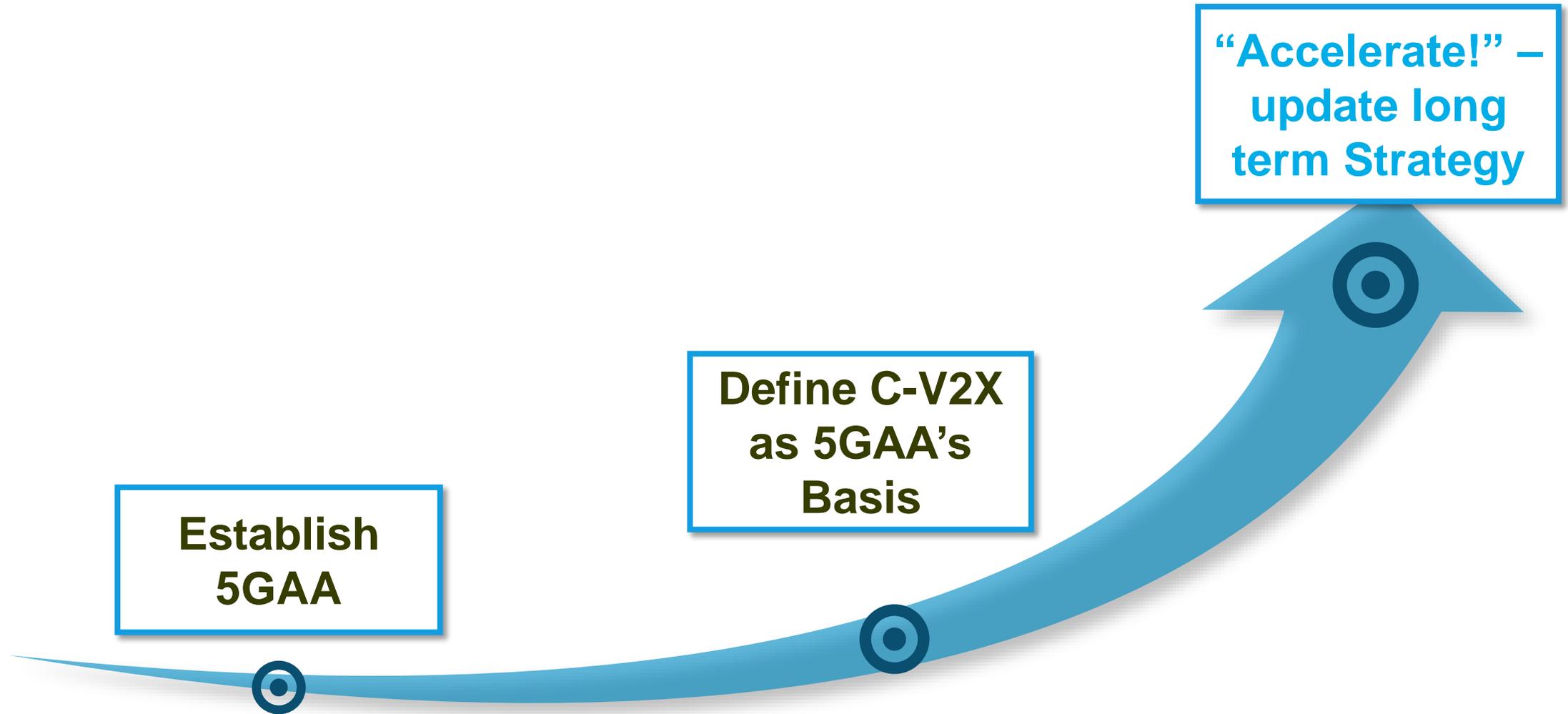
# Worldwide C-V2X Trials



# Looking 18 Months Back...

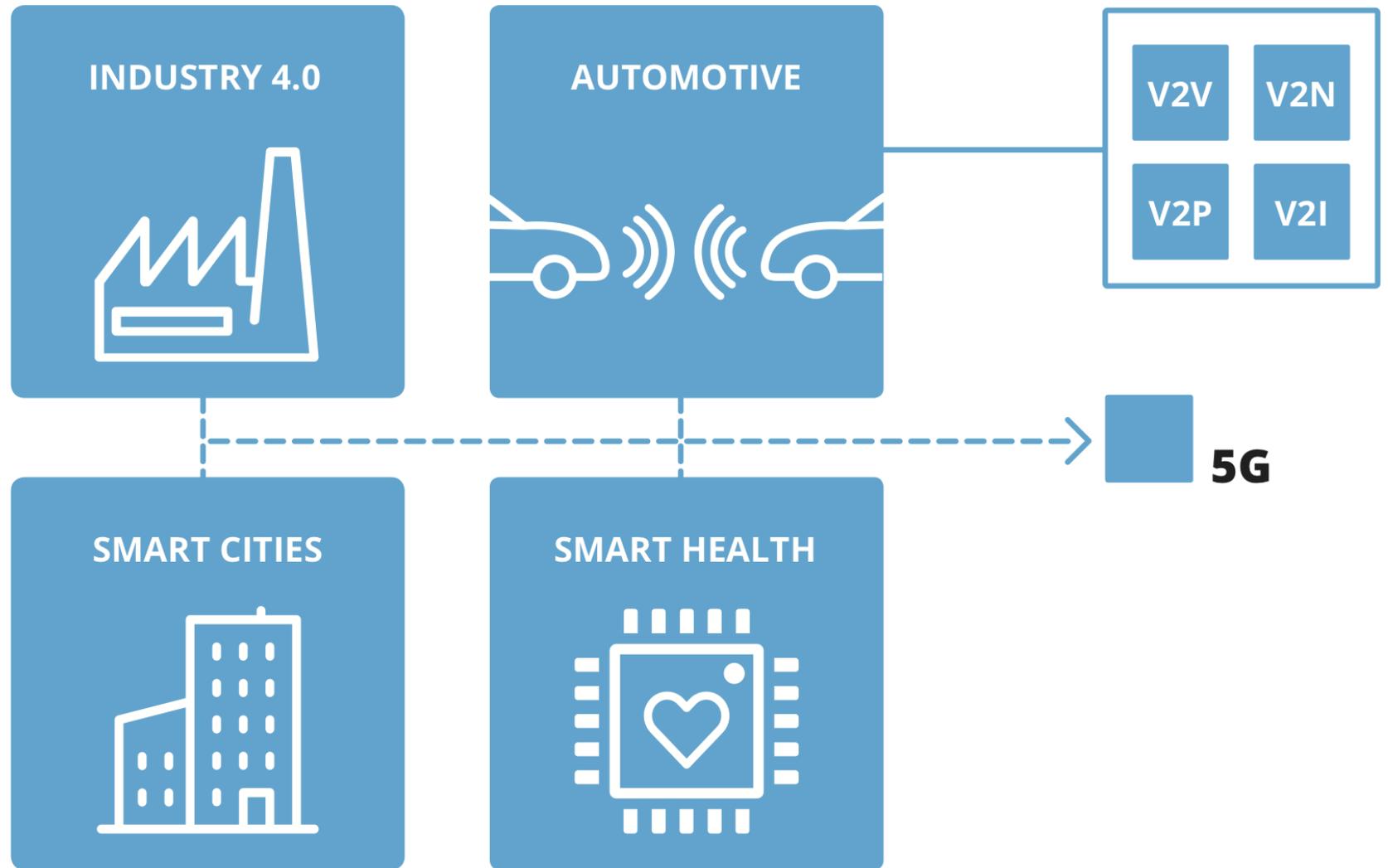


# And now? – Accelerate!



# 5G for Major Industry Verticals

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



# Our updated Strategy





For more information please contact:

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or visit:

[www.5GAA.org](http://www.5GAA.org)