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FRA 3R 635
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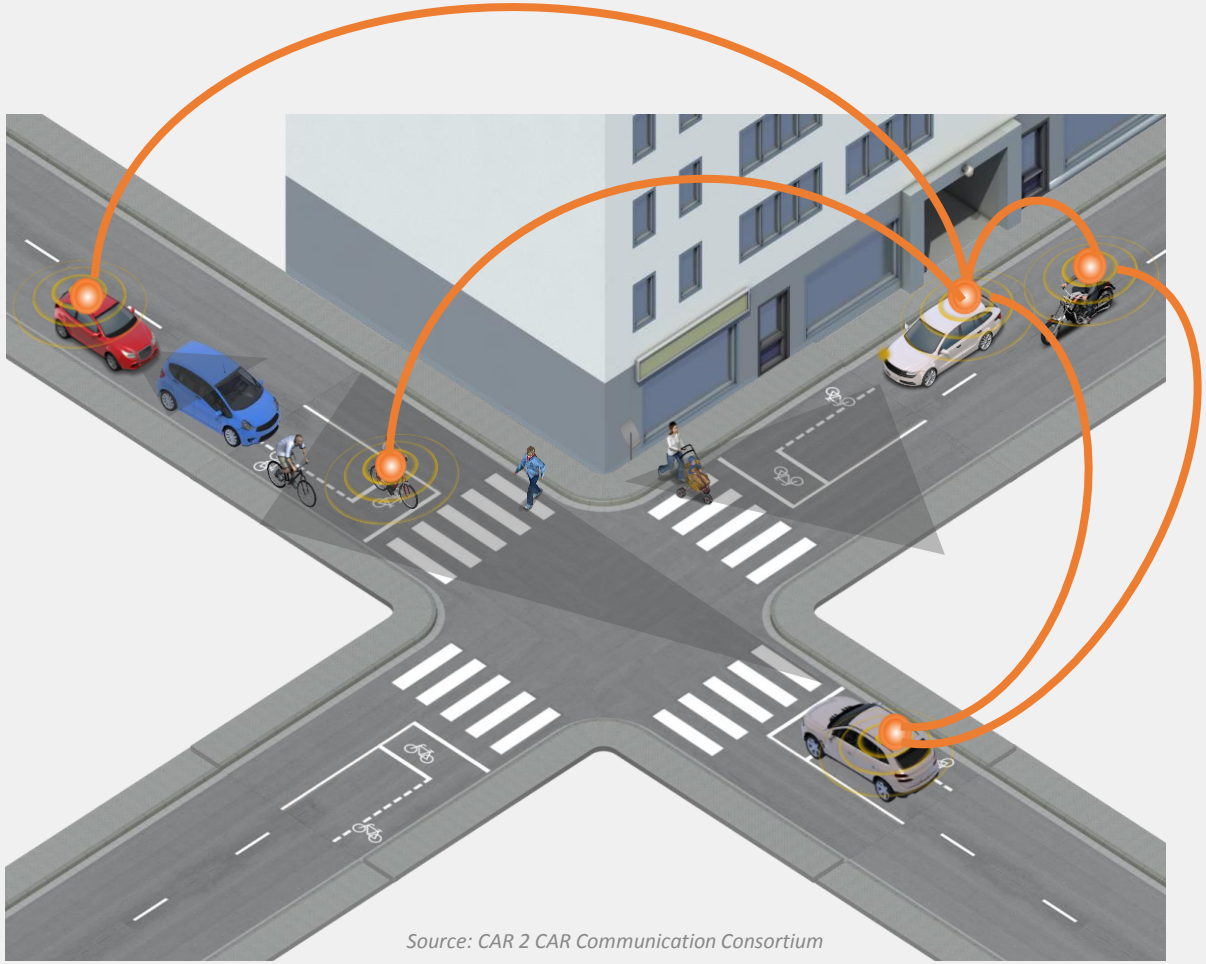
01

World in 2025: Cooperative Driving

- Cooperative perception
  - (“see through” other sensors)
- Coordinated maneuvering
- Automated driving coordination
- Cooperative positioning
- Ad-hoc Platooning



Source: CAR 2 CAR Communication Consortium

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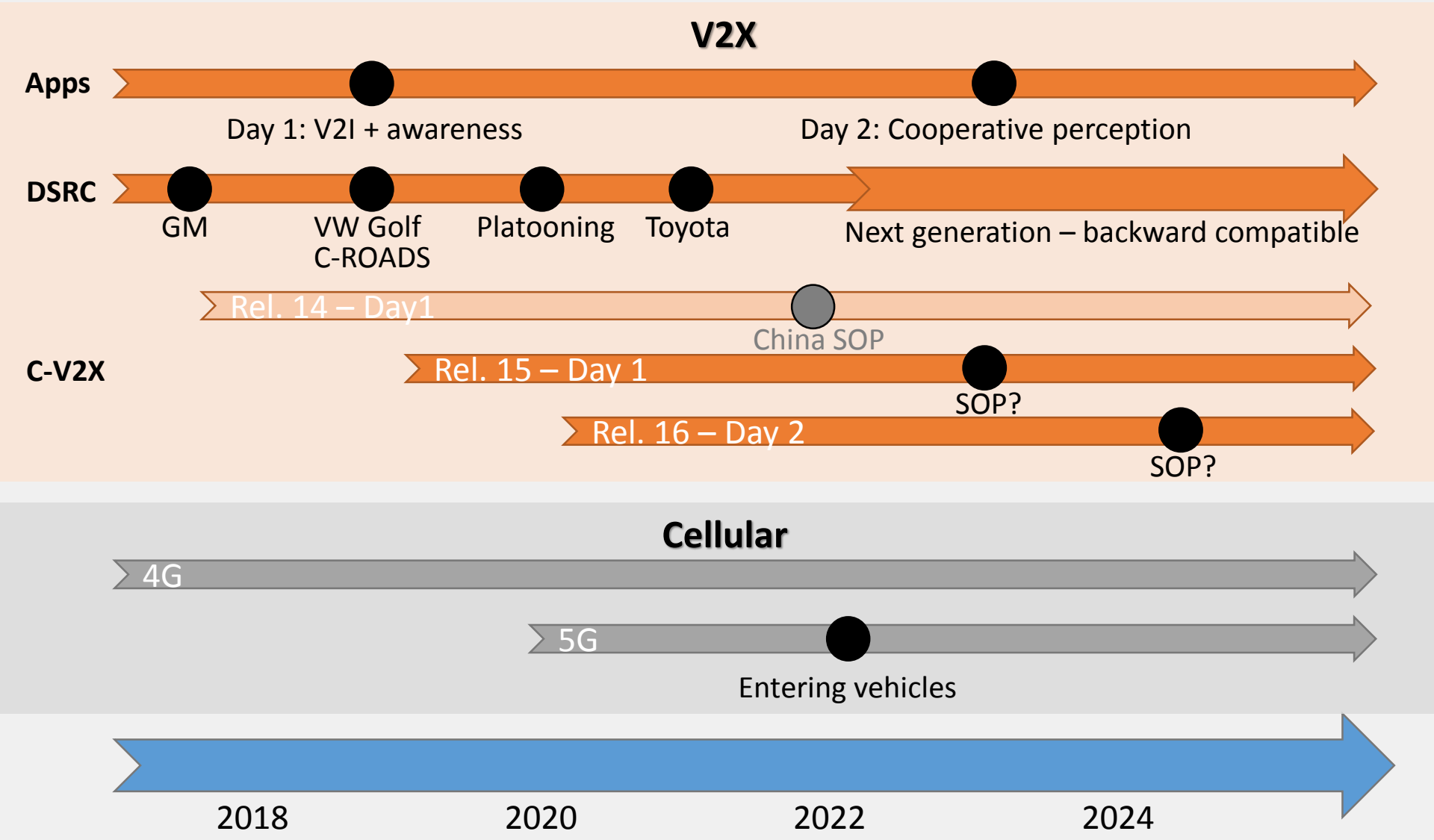
Timeline



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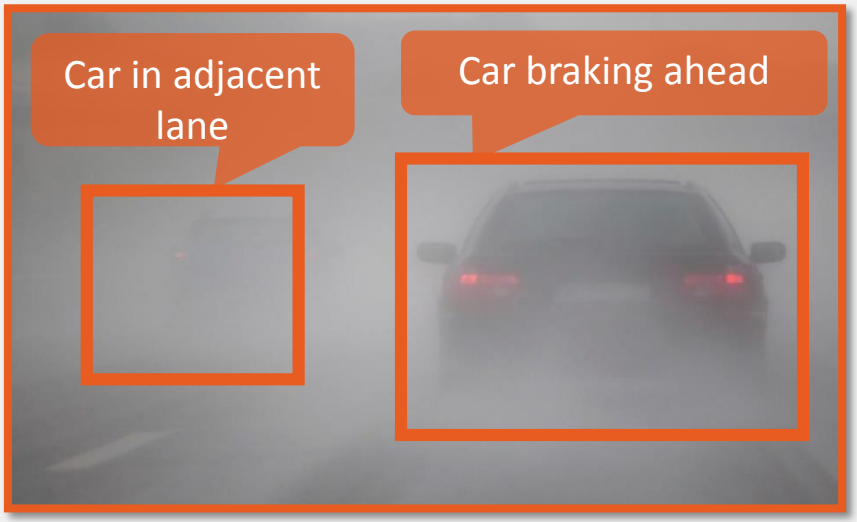
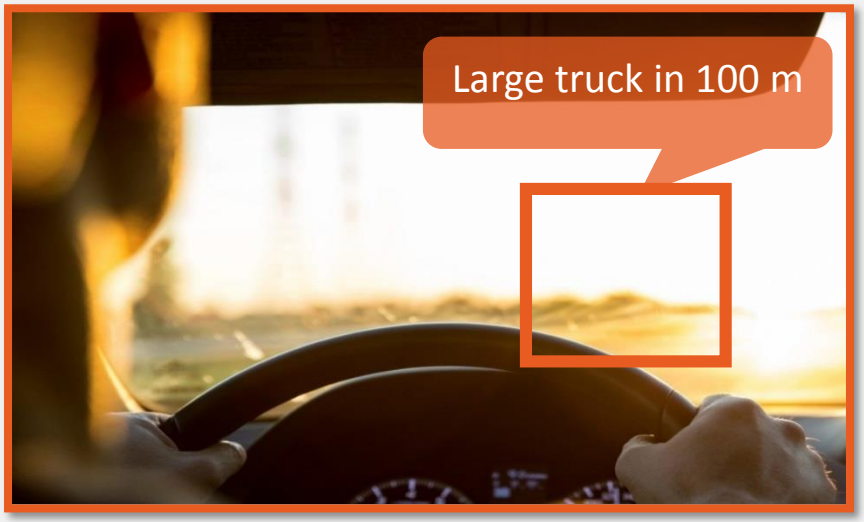
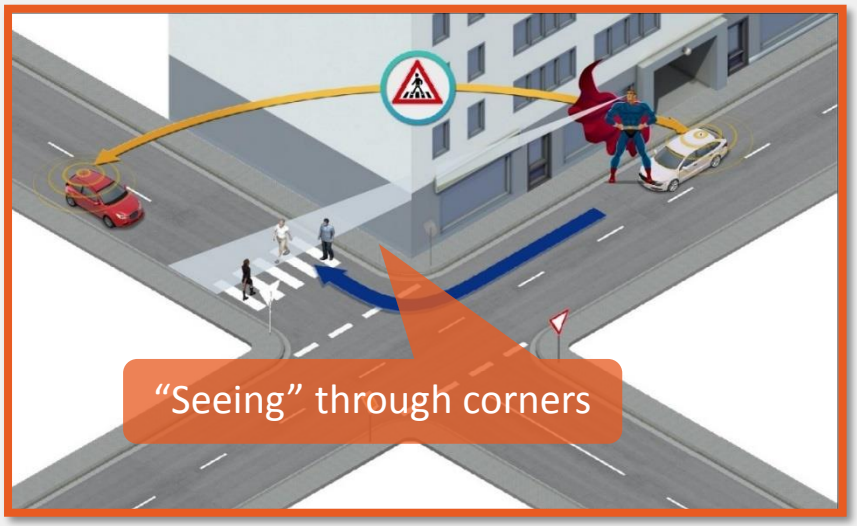
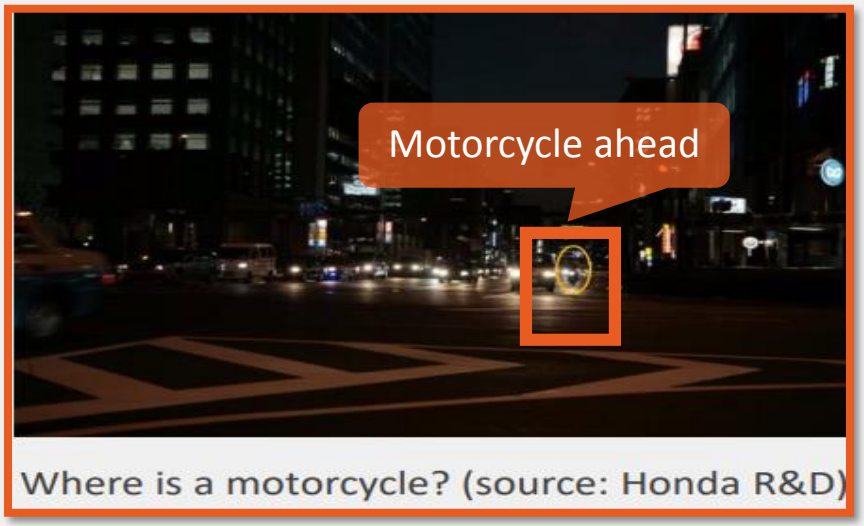
V2X Reliable Sensing in all Conditions









Self-Driving Vehicles Meet "Things They Can't See"

- V2I/V2V will allows AVs to "see" and receive data beyond what their onboard sensors can perceive — around corners, through other vehicles, in bad weather , and at longer distances

Fogy traffic light

Emergency vehicles crossing

Ice on road 1 KM ahead

Traffic accidents Pile ups
Link to movie:
https://www.youtube.com/watch?v=Zl5t4FhpygE&app=desktop

Autonomous vehicles must communicate

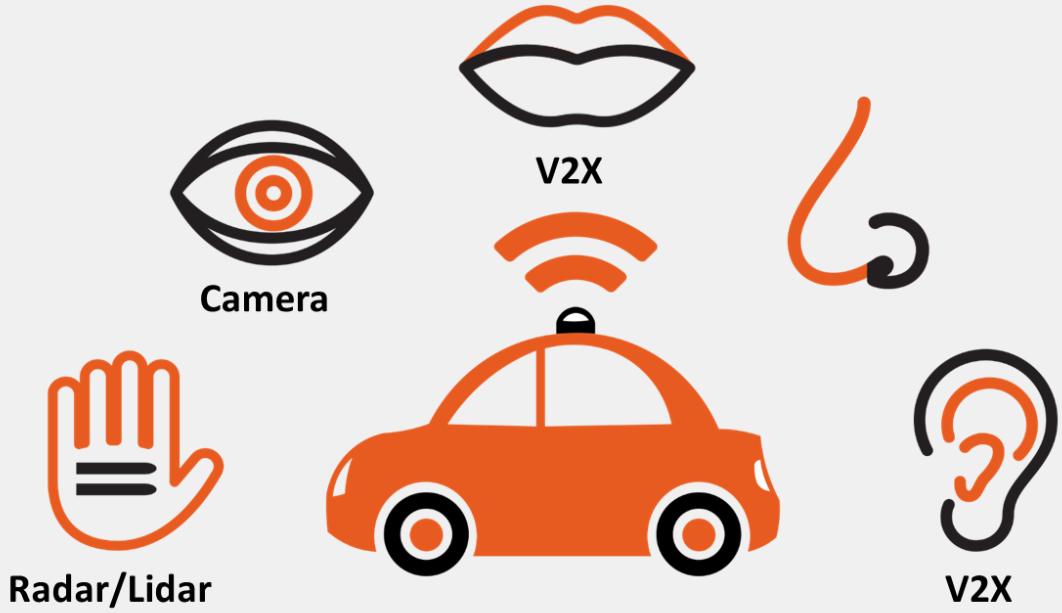
V2X Powers Autonomy

V2X enables safe, predictable and affordable autonomous driving

- Coordination (road sharing, merging)
- Cooperation (efficiency, platooning)
- Complements other sensors for enhanced situational awareness
- Identify Vulnerable Road Users
- Knowing ahead by infrastructure communication

V2X Solution Prerequisites:

- Functionally safe and secure
- Supports DSRC and C-V2X
- Separated and isolated from non-safety apps
- Highly cost-effective
- Multi-channel capable



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The First Ever Global V2X Solution

Autotalks offers the first ever global V2X Communication Processor

- The only **truly Global platform** addressing: US , EU, China, APAC markets
- Dual mode V2X: **DSRC or C-V2X (PC5)** modem
- Truly **safe, secure and certifiable**
- **Decoupled from NAD** (cellular modem agnostic)
- **Based on Autotalks' mature 2nd Gen:** leveraging **production grade SW**

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