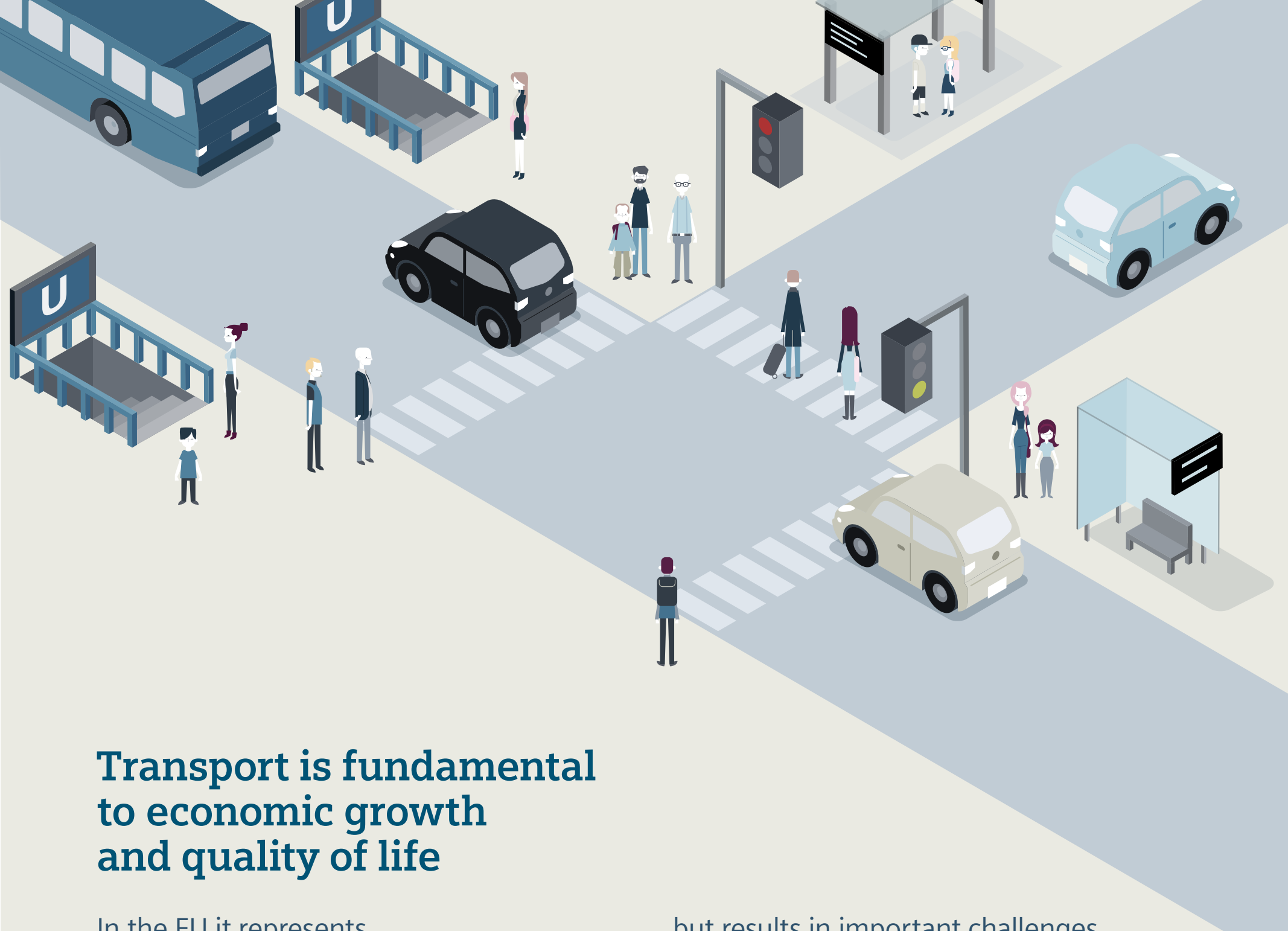


Future of Infrastructure

Vehicle-to-X (V2X) communication technology

The need for more intelligent control solutions arises from complex traffic situations at urban intersections

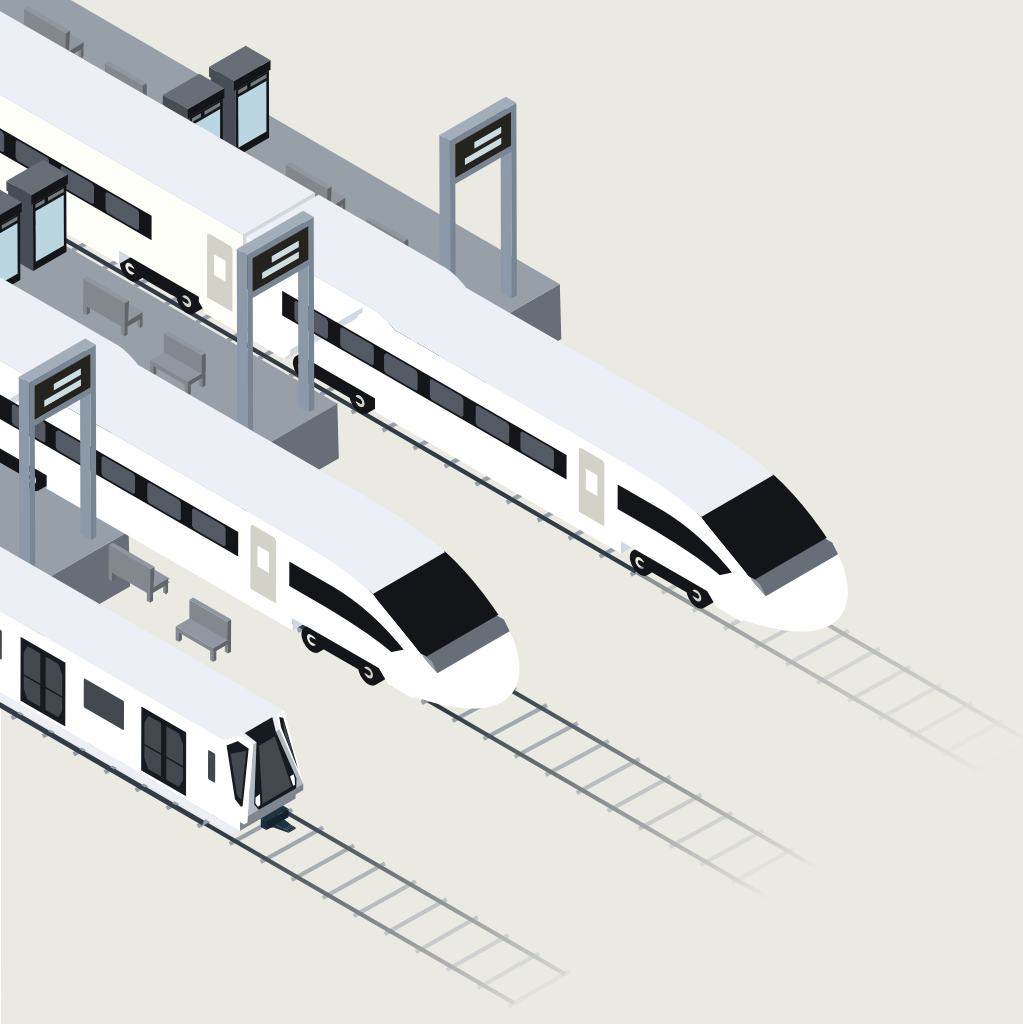


Transport is fundamental to economic growth and quality of life

In the EU it represents...



...but results in important challenges



Vehicle-to-X refers to an intelligent transport system where all vehicles and infrastructure systems are interconnected with each other. This connectivity will provide more precise knowledge of the traffic situation across the entire road network which in turn will help:

- Optimize traffic flows
- Reduce congestion
- Cut accident numbers
- Minimize emissions



Car2X

Already in development

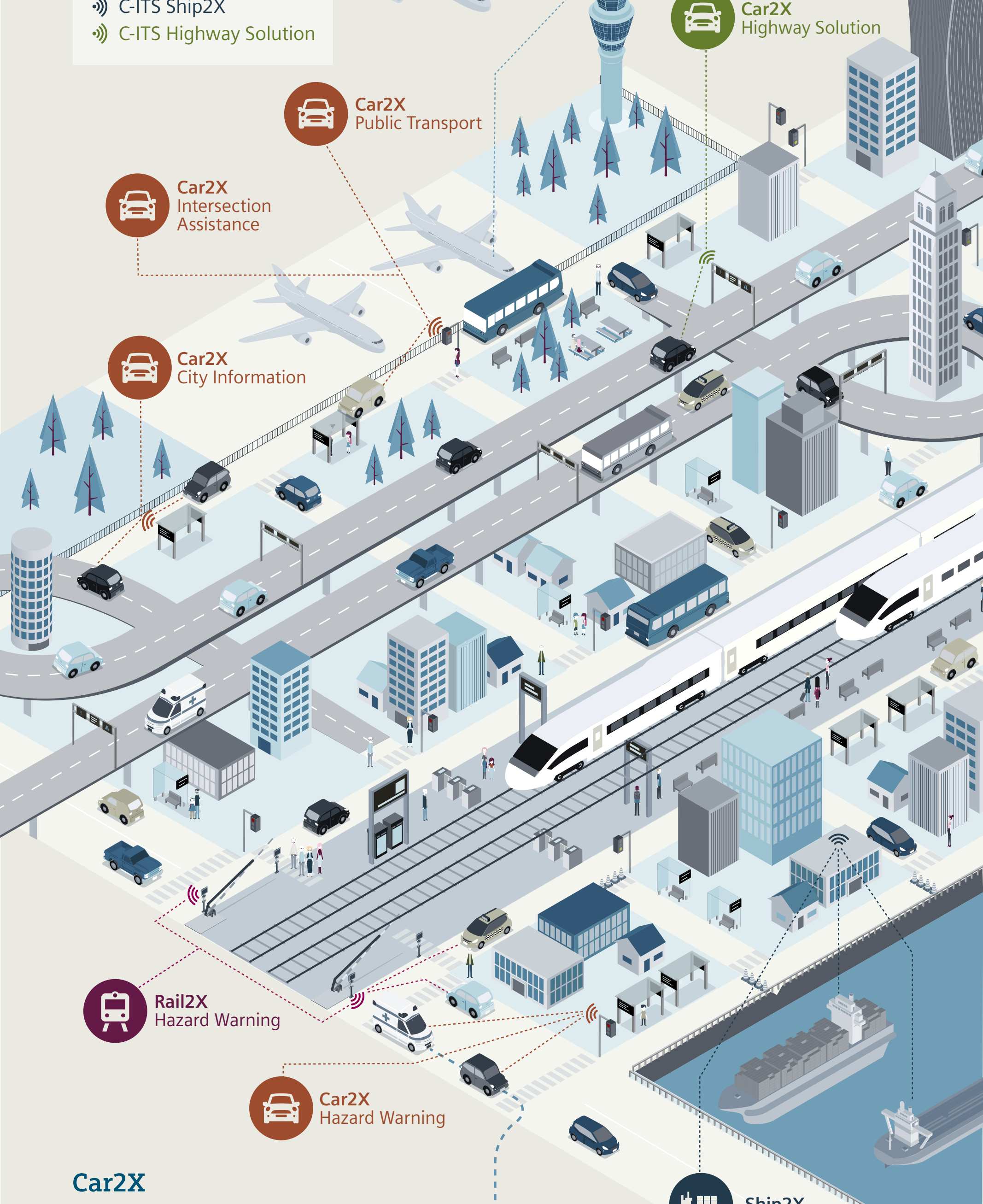
Vehicle2X / Car2X technology enables vehicles to automatically pass along messages regarding road conditions, traffic flow, and obstacles before these appear in the driver's visual range. Vehicles receive signals from intelligent road signs.

Rail2X, Ship2X, Airplane2X

Currently commencing

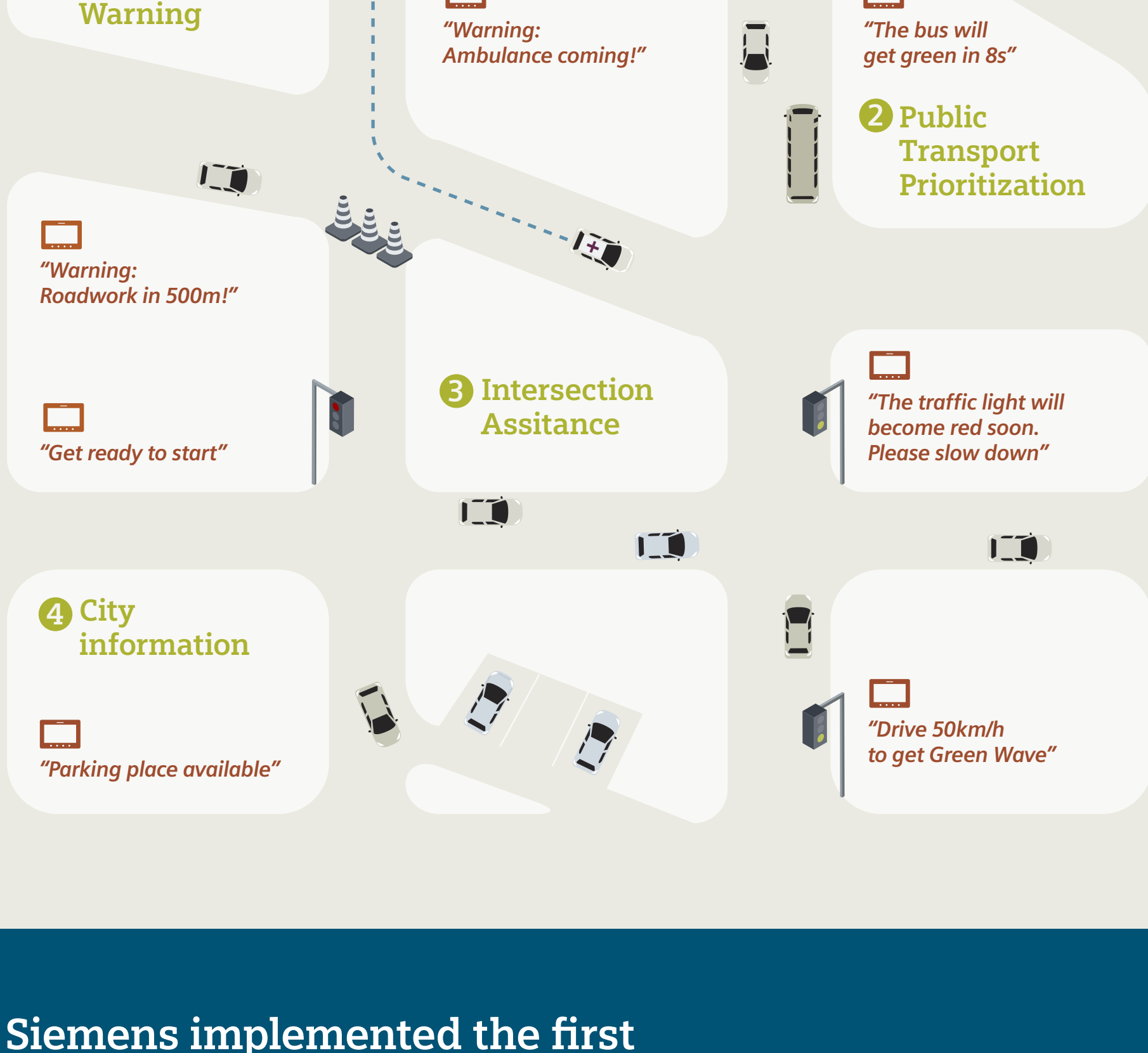
Rail2X, Ship2X and Airplane2X will use the same technology as Car2X. The basic definition for the application of this technology is currently in progress.

- C-ITS Airplane2X
- C-ITS Rail2X
- C-ITS Car2X Urban
- C-ITS Ship2X
- C-ITS Highway Solution



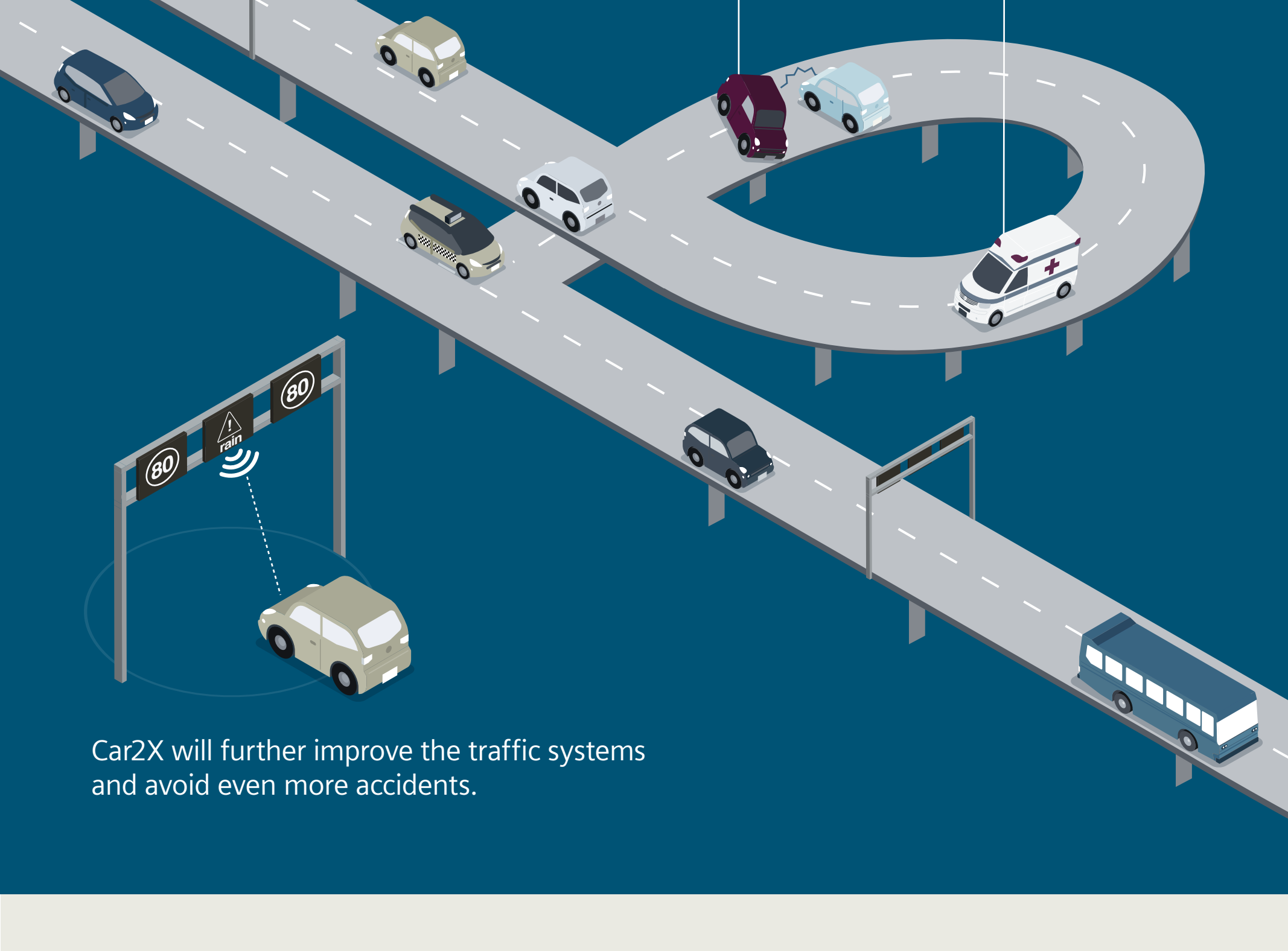
Car2X

After the year 2020, thanks to automatic/autonomous driving systems and intelligent vehicle communication, the level of automotive safety will increase even further.



Siemens implemented the first fully dynamic IU-System

The effects on Germany's A9 highway show how much intelligent traffic information and guidance systems are capable of achieving.



Car2X will further improve the traffic systems and avoid even more accidents.

Long term vision for Sitraffic

Siemens provides complete solutions and develops solutions for eco communication systems of cooperative infrastructure systems.

Urban



Today Assistance Driving

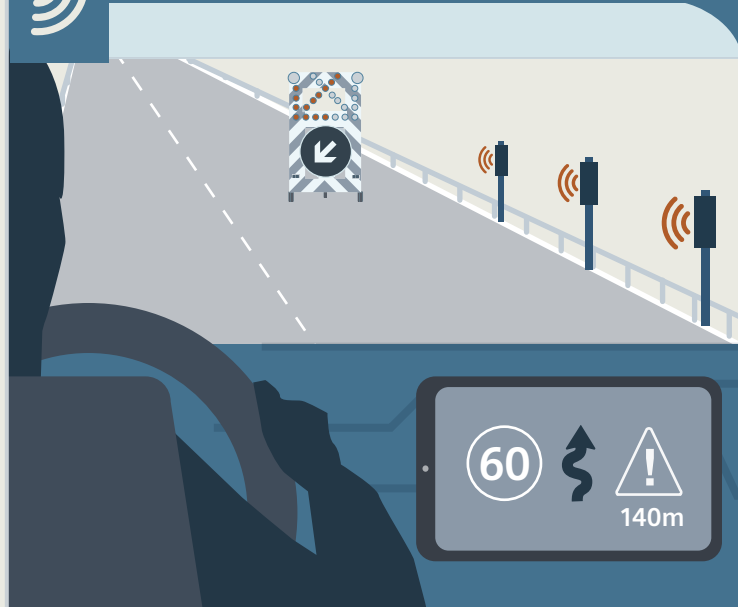
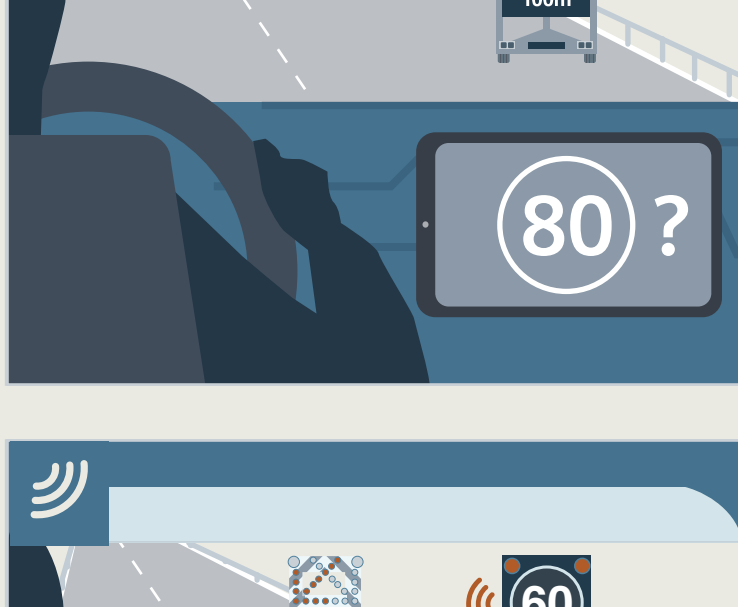


Tomorrow Automated Driving



Beyond Autonomous Driving

Highway



Increased safety, increased efficiency and fewer traffic jams are achieved through the implementation of cooperative systems for communication of infrastructures, with motor vehicles and road users.