

DATA and the CONNECTED VEHICLE

Version 2.0

Today's vehicles include many new features enabled by the collection and processing of data. These connected technologies are making transportation safer and more convenient. To foster a trusted mobility ecosystem, it is vital to ensure appropriate and secure data flows between a network of carmakers, vendors, and others to support individuals' safety, logistics, and infotainment needs. This infographic demonstrates a range of devices that may be employed in today's connected vehicles and highlights the type of data and AI to operate different systems. Few cars have all of these features, but most new cars will have some. Much connected car data is protected by technical controls, laws, self-regulatory commitments, privacy policies, and other emerging mechanisms or controls. For more information, visit fpf.org/mobility.

Produced by FPF.ORG



DATA HANDLERS

A growing number of entities receive and transmit data through the connected vehicle ecosystem



WIRELESS CONNECTIVITY

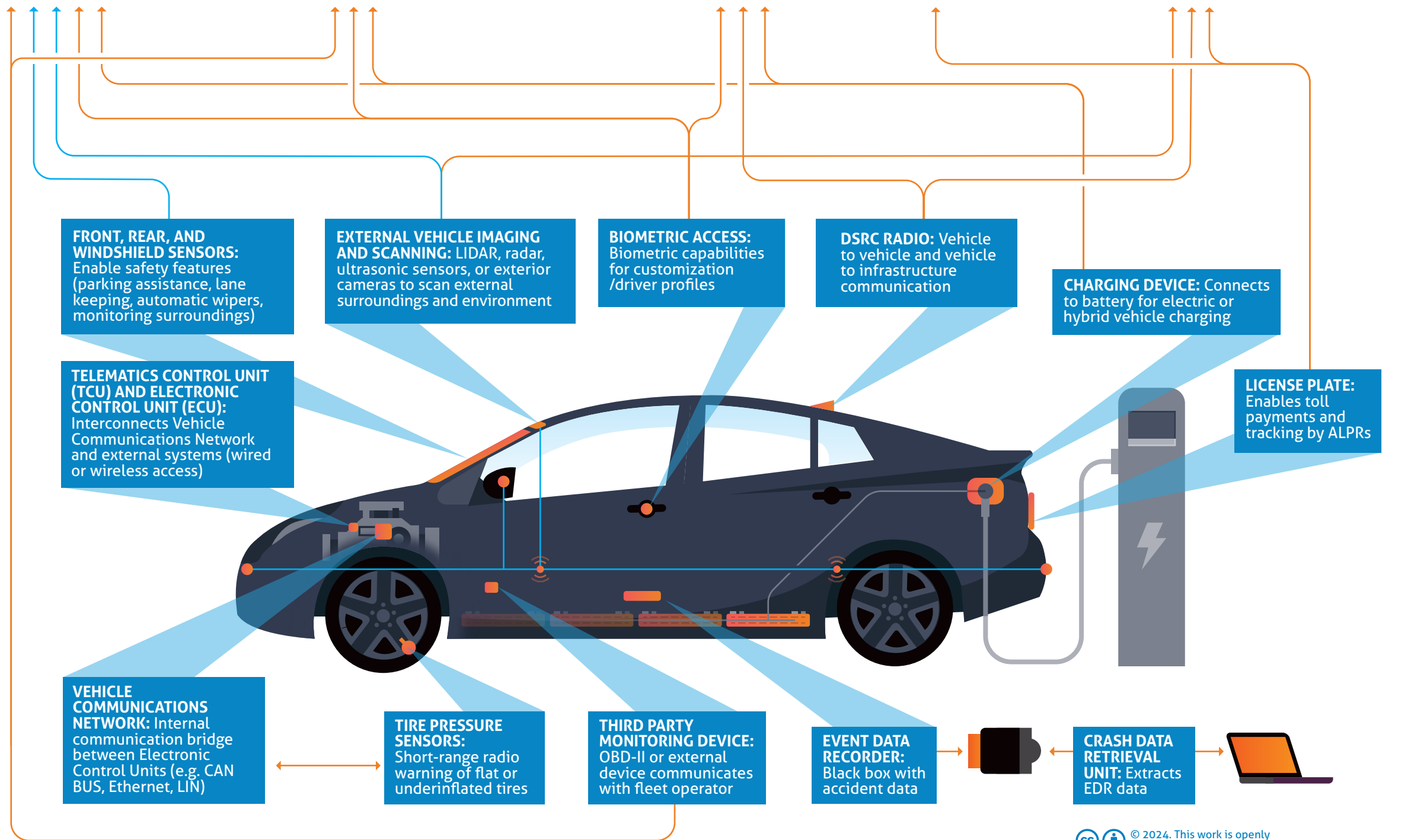
- CELLULAR**
- NON-CELLULAR**
 - BLUETOOTH
 - WIFI
 - CELLULAR V2X/DSRC
 - SATELLITE/GPS
 - SHORT RANGE RADIO
 - SHORT RANGE RADAR

TYPES OF DATA

- VEHICLE & SAFETY**
Can include: Vehicle diagnostic and health data (CPU health, oil pressure) vehicle data, driver assistance systems, and battery and charging data
- OCCUPANTS**
Can include: Occupant's physical characteristics, driver monitoring systems (speed, seat belt use, etc.), and driver preferences (climate control, seat position, etc.)
- LOCATION**
Can include: Precise geographic location of the vehicle and/or other location data like vehicle surroundings and location flags
- ACCOUNT**
Can include: Personal accounts established by vehicle users (mobile apps, car-related accounts, etc.)
- BIOMETRIC & BODY-RELATED**
Can include: Information from interior or exterior sensors about the physical characteristics of occupants or those nearby (fingerprints, faceprints, etc.)

DATA PROCESSING

- ARTIFICIAL INTELLIGENCE**
Can include: Algorithmic processing, decision making, and machine learning present throughout various vehicle systems and features



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CAR MAKERS



THIRD PARTIES & SERVICE PROVIDERS



EMERGENCY SERVICES



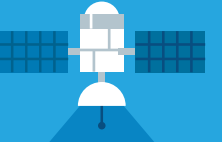
PERSONAL SMART DEVICES



TOLL BOOTHS



TRAFFIC LIGHTS (V2I) & LICENSE PLATE READERS



SATELLITES

WIRELESS CONNECTIVITY

CELLULAR

NON-CELLULAR

- BLUETOOTH
- WIFI
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