

Lesson 7

Automotive IoT

Automotive IoT

- Enables the connected cars
- Vehicles-to-infrastructure technology
- Predictive and preventive maintenances and autonomous cars

Connected Cars Technology with the combination of GPS tracking and Internet

- The automotive vehicles driving through roads with little or no efforts at all
- Display for driver that enables the drive through the shortest route, congested route
- Customisation of functioning of the vehicle to meet the driver's needs and preferences

Connected Cars Technology with the combination of GPS tracking and Internet

- Get notifications about traffic
- Protecting cars against theft
- Weather and enroute destinations
- Keeping a tab on driver's health and behaviour.

Vehicle-to-Infrastructure Technology

- Alerts and warnings for forward collision
- Information of blind spots
- Notification about a vacant parking space
- Information of congested traffic on route to destination
- Stream live music and listen to the latest news.

Automotive IoT technology

- Useful in predictive maintenance of an automobile by a service centre application
- The sense data communicates in real-time or stores and transmit when the automobile reaches Wi-Fi node.
- The service centre application schedules maintenance alerts and predicts the failures and alerts for the
- actions.

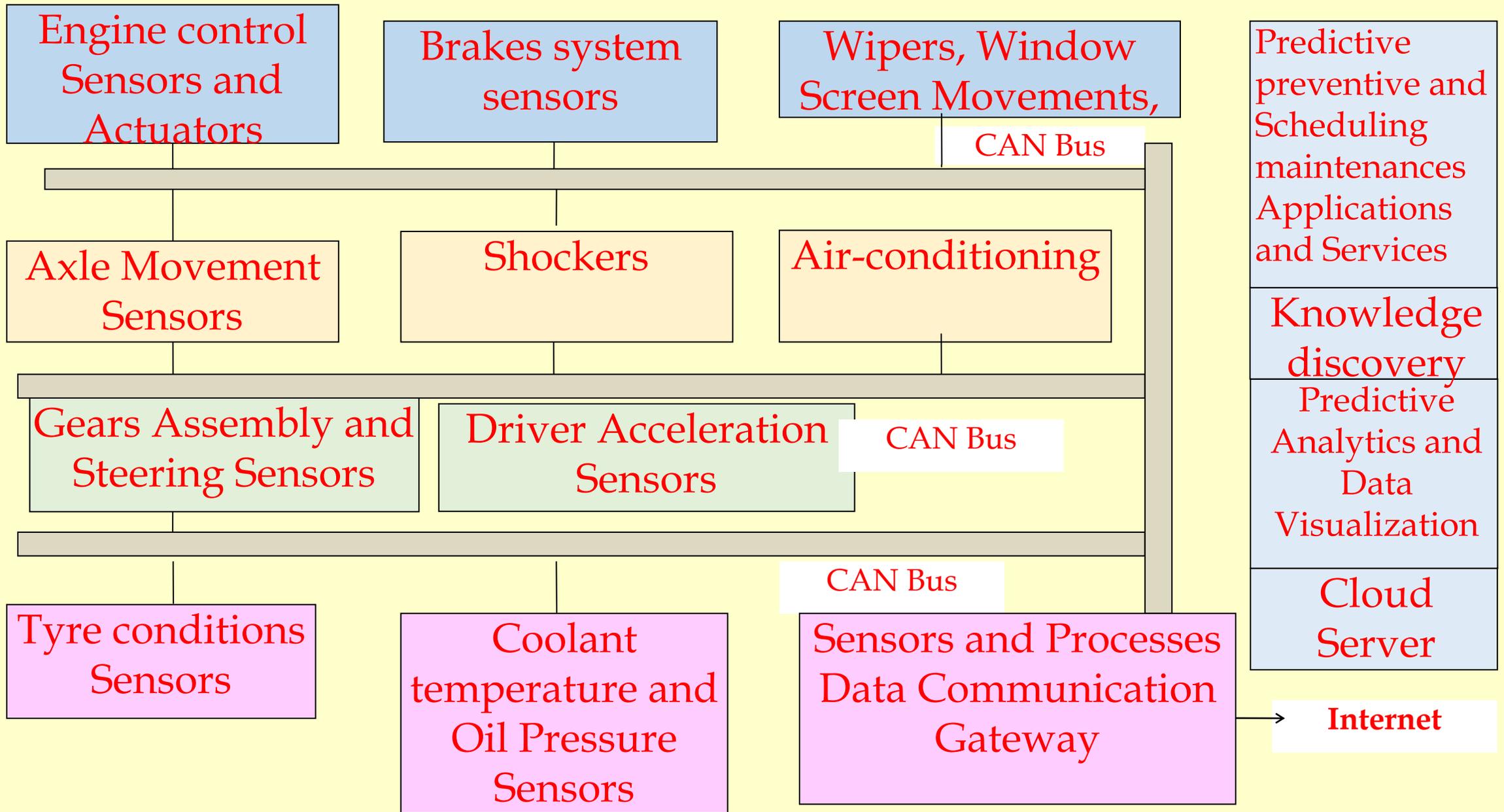


Fig. 7.11 IoT phases for phases for predictive and preventive maintenances by Service Centre

Autonomous Cars

- Driverless cars (also known as autonomous cars or robotic cars)
- Deploying LIDAR and laser 3D imaging technology

Summary

We learnt

- Automotive IoT
- Connected Cars
- Predictive Maintenance by Service Centre Application
- Vehicle-to-Vehicle Infrastructure
- Autonomous cars

End of Lesson 7 on Automotive IoT