

IN-CAR NETWORK ARCHITECTURE 2020

Today's and tomorrow's challenges for automotive networking

DEMAND FOR HIGH BANDWIDTH

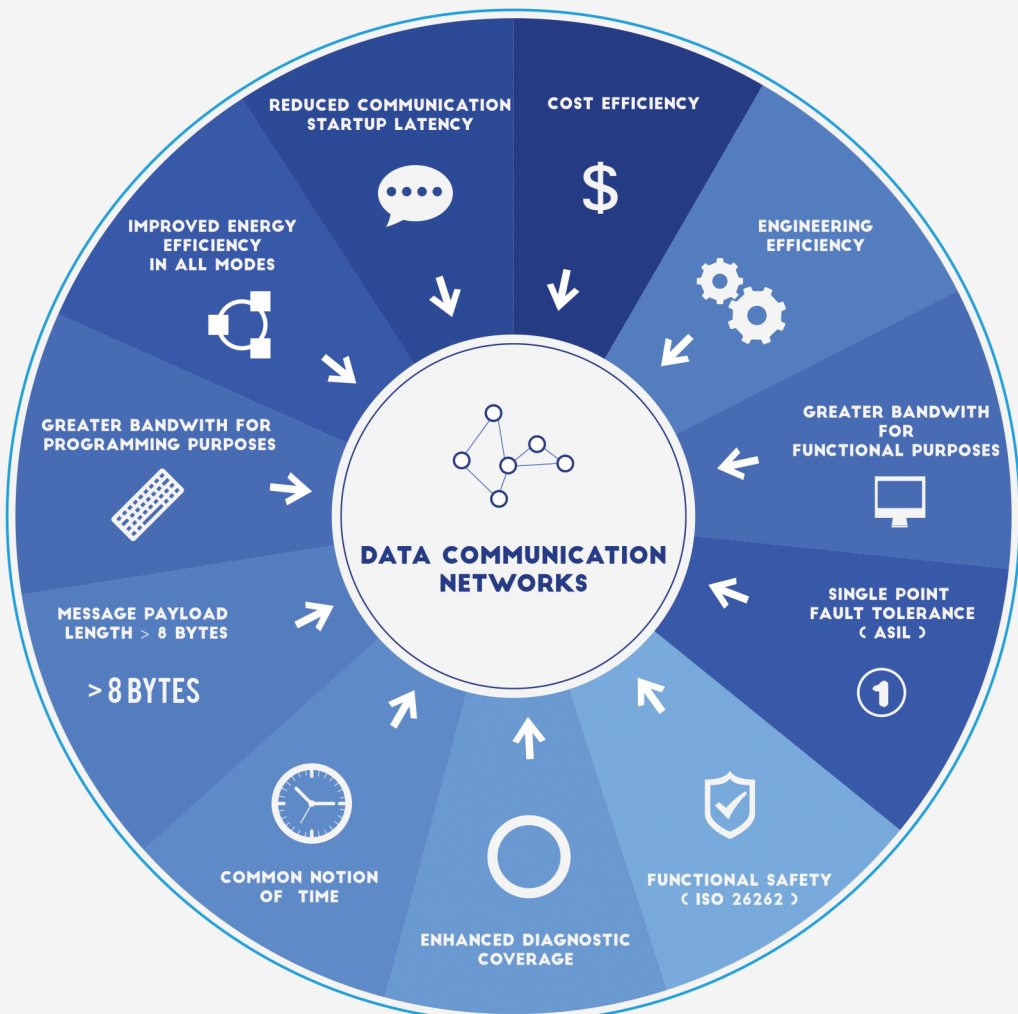


The number of electronic components in cars has increased rapidly during the last few years. With ever more ECU's comes a growing demand for in-vehicle networking infrastructure fueled by CAN, LIN, MOST, FlexRay and Ethernet.

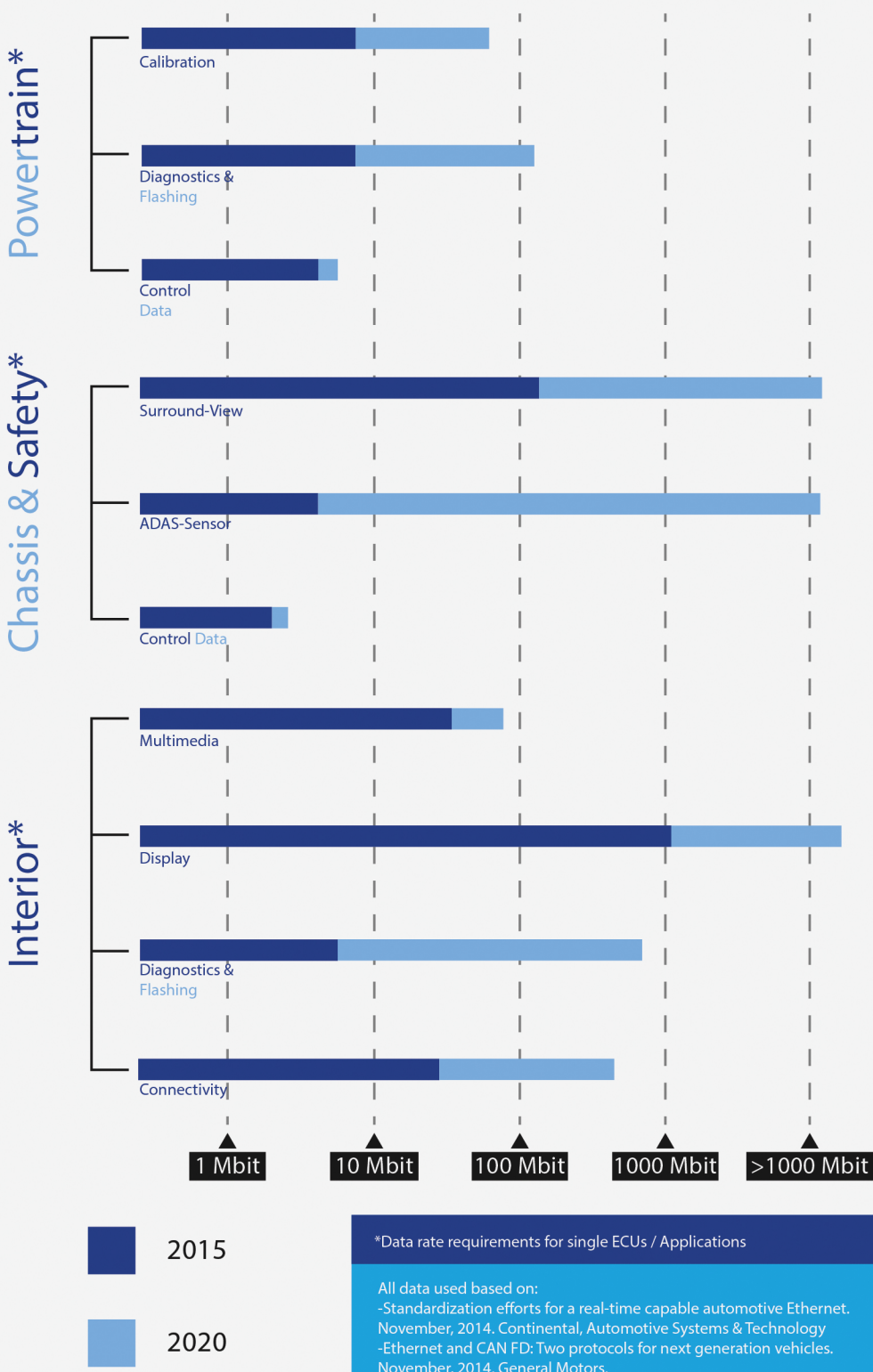
OEM's are set to use more bandwidth in their cars, as automotive architectures adapt to the demands of more consumer electronics functions, automotive app stores, connected location-based services and the need to integrate new driver-assistance functions.

The growing interest in audio and video applications such as camera-assisted parking, lane departure warning systems and collision avoidance technologies also requires high-bandwidth and high-speed network-architecture.

THE PRESENT CHALLENGES FOR AUTOMOTIVE NETWORKING ARE MANIFOLD



IN ORDER TO MEET FUTURE IN-CAR DATA RATE REQUIREMENTS THE DEMAND FOR HIGH BANDWIDTH IS EXPECTED TO GROW ACROSS DIFFERENT APPLICATIONS



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