

Ethernet Bandwidth – Where does it End?

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SECURE CONNECTIONS
FOR A SMARTER WORLD

PUBLIC

Once Upon a Time...



Source: Library of Congress

Several Simultaneous Drivers for Change



THE USER-DEFINED CAR



Update, reprogram, customize

Hardware abstraction
Safe hyper-connectivity



THE AUTONOMOUS CAR

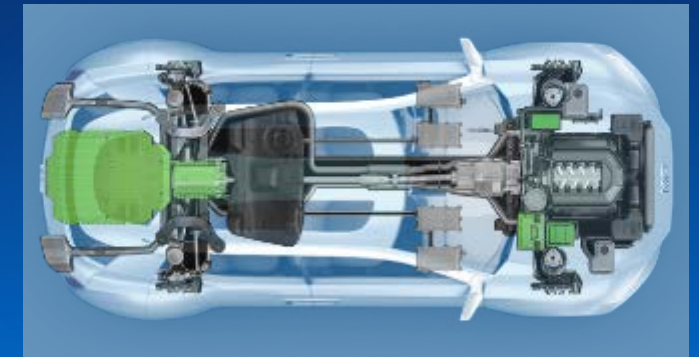


Be conscious, decide, learn

Mega sensing + processing
New infrastructures



THE ELECTRIC CAR



Transport at top efficiency

New infrastructures
Battery technology

A Question of Bandwidth?

Ethernet is an Enabler,
Economic Feasibility is Critical

- Many end-points don't need higher speed
- Architectures will drive faster Ethernet backbones but IVN design needs to
- consider other factors:
 - Cost
 - Harness design and manufacture
 - Security and Safety
 - Power
 - Latency
 - TSN Profile

4G / 5G / 802.11
BTLE / WiFi / NFC

 1-10Gb+ SerDes

 100Mb

 10Mb





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