Ethernet Bandwidth – Where does it End?

Claude R. Gauthier, Ph.D.
Director of Strategic Innovation, Automotive Ethernet Solutions

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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
SECURE CONNECTIONS FOR A SMARTER WORLD