## Proposed P802.3dh Objectives (1 of 2)

- 1. Preserve the IEEE 802.3/Ethernet frame format at the MAC client service interface
- 2. Preserve minimum and maximum frame size of the current IEEE 802.3 standard
- 3. Support full duplex operation only
- 4. Define optional startup procedure which enables the time from power\_on=FALSE to a state capable of transmitting and receiving valid data to be less than 100ms
- 5. Support data rates of 2.5 Gb/s, 5 Gb/s, 10 Gb/s, and 25 Gb/s at the MAC/ PLS service interface
- 6. Support optional Energy Efficient Ethernet optimized for automotive applications
- 7. Support operation in automotive environments (e.g., EMC, temperature)
- 8. Do not preclude meeting FCC and CISPR EMC requirements

## Proposed P802.3dh Objectives (2 of 2)

- 9. Define the performance characteristics of an automotive link segment and an optical PHY to support 2.5 Gb/s point-to-point operation over this link segment supporting up to 3 inline connectors for at least 15 m on at least one type of automotive optical cabling
- 10. Define the performance characteristics of an automotive link segment and an optical PHY to support 5 Gb/s point-to-point operation over this link segment supporting up to 3 inline connectors for at least 15 m on at least one type of automotive optical cabling
- 11. Define the performance characteristics of an automotive link segment and an optical PHY to support 10 Gb/s point-to-point operation over this link segment supporting up to 3 inline connectors for at least 15 m on at least one type of automotive optical cabling
- 12. Define the performance characteristics of an automotive link segment and an optical PHY to support 25 Gb/s point-to-point operation over this link segment supporting up to 2 inline connectors for at least 15 m on at least one type of automotive optical cabling
- 13. Support a Bit Error Ratio better than or equal to 10<sup>-12</sup> at the MAC/PLS service interface (or the frame loss ratio equivalent)