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Dependability and Driving Delegation

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Automotive has since long faced the need for a strong reliability, leading to cars that seldom fail and have enlarged maintenance intervals. The subject was complexified when electronics entered in the automotive controls, requiring to elaborate specific methods, processes and tools to handle the dependability in all its aspects:

- Reliability, through management of the reliability of the electronic components with specific requirements
- Availability, through "back-up"modes allowing to be tolerant to some failures
- Safety, through dedicated analysis of the specifications and the related implementation (ISO 26262).

With this respect, I will briefly present the status of automotive domain, and then more specifically discuss the impact of driving delegation.

Driving delegation addresses the more general scope of "Autonomous vehicle". I will elaborate on some other fields that are investigating the autonomous move, and I will focus on the main topics that need to be considered, and how to reach the maturity and confidence for deployment:
- Technical aspects of the vehicle and the infrastructure
- Legal and responsibility aspects
- Human factors
- Transition period

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