

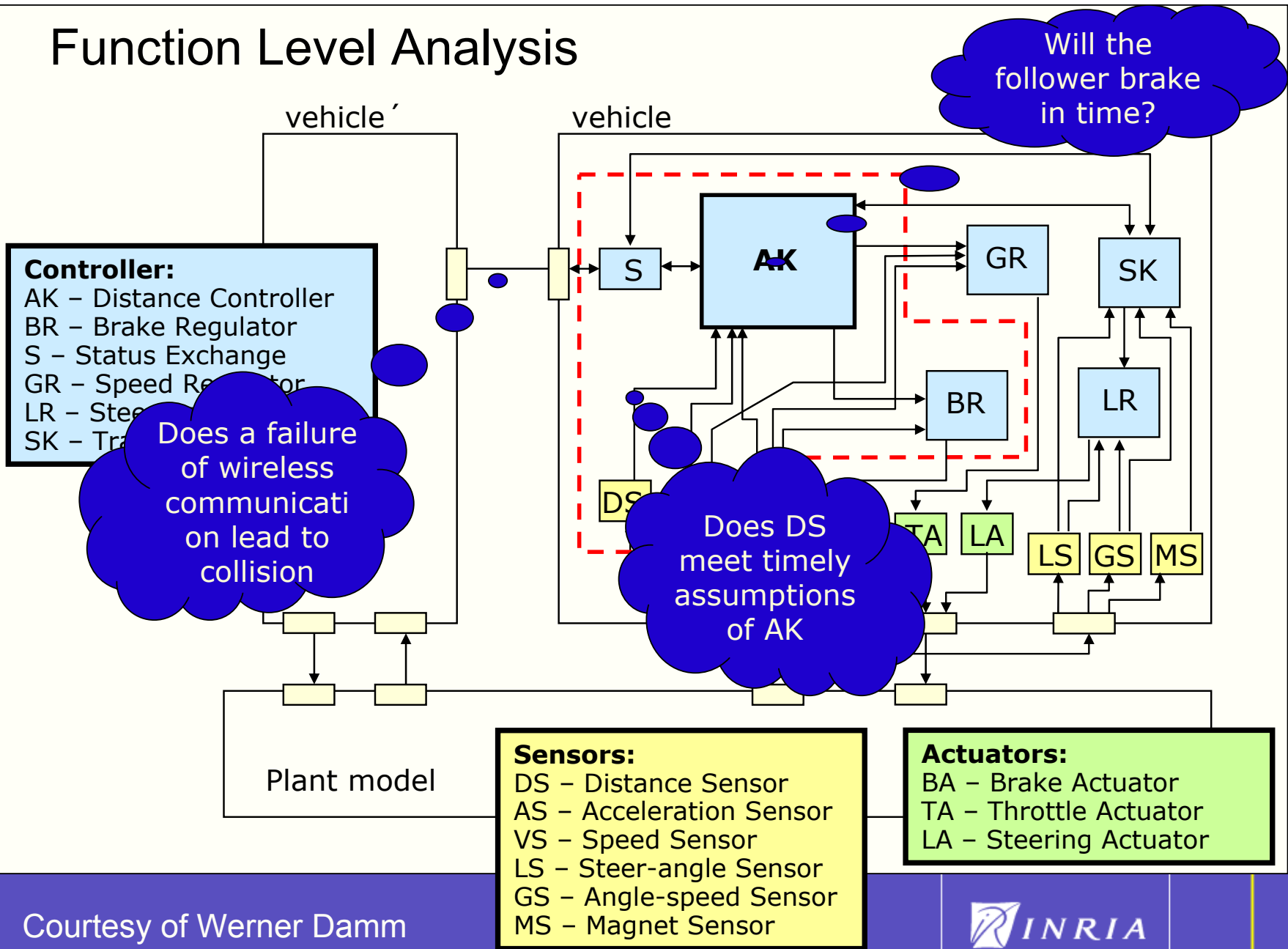
Fundamental research problems raised by component- based design of embedded systems

INSTITUT NATIONAL
DE RECHERCHE
EN INFORMATIQUE
ET EN AUTOMATIQUE



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Function Level Analysis

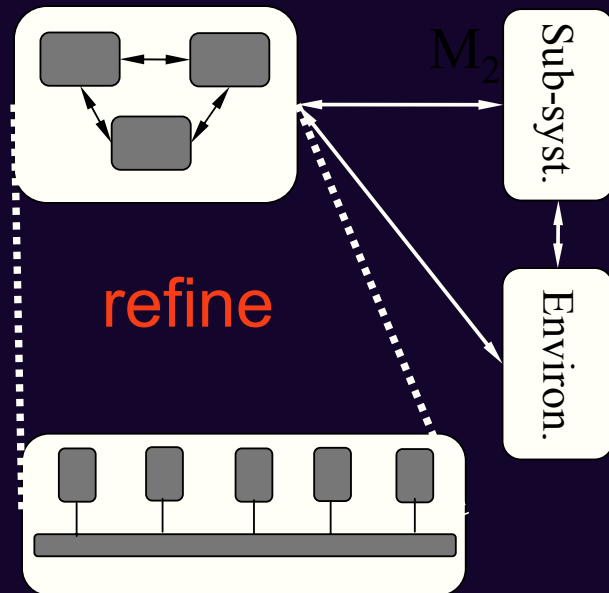


Requirements

- Components as part of *open systems*; support interface-based composition and refinement
- Functional and non-functional aspects *jointly handled*, at both component- and system-level
- Design space involves both functions and execution infrastructure
- With *heterogeneous and flexible* Models of Computation and Communication (MoCC)

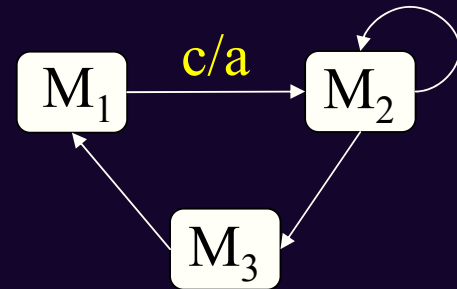
Requirements → Research Challenges

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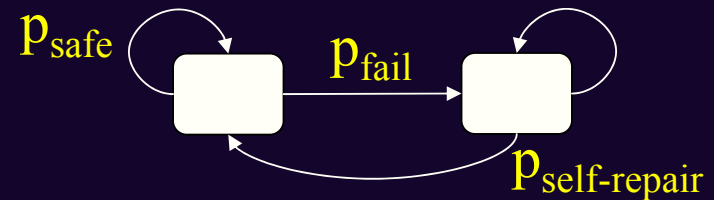


Requirements → Research Challenges

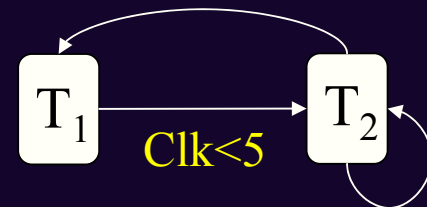
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