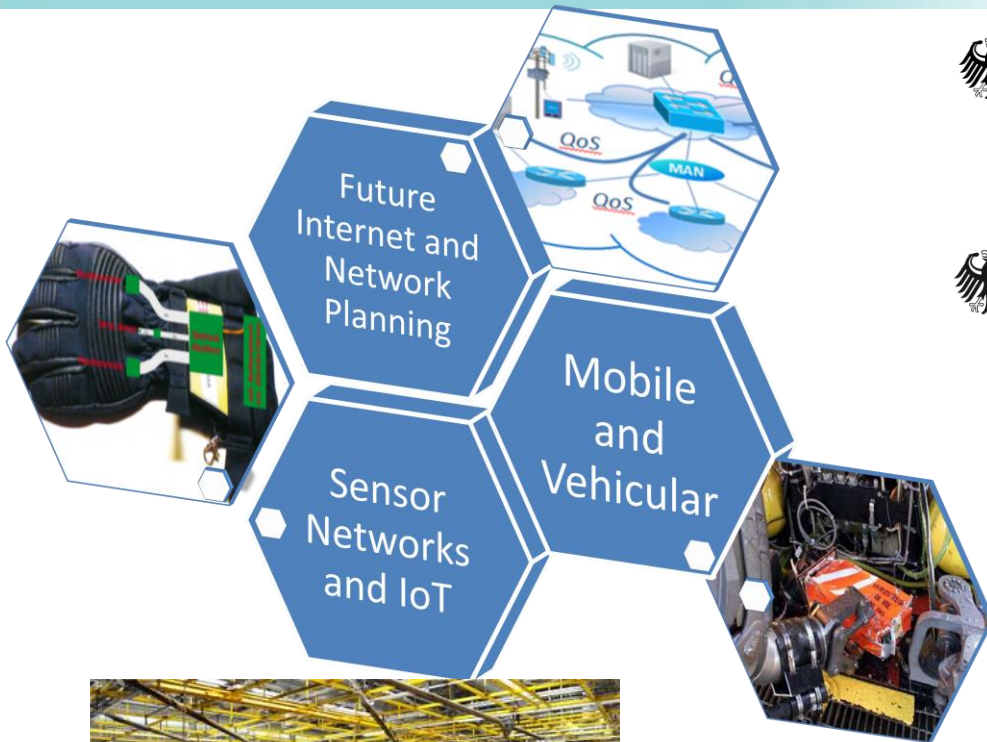


Research on Reliable 5G Systems for Vehicles and Industry at Hamburg University of Technology, ComNets

Maciej Mühleisen, Andreas Timm-Giel

5G-PPP Phase 2 - Stakeholders and Information Day
30. June 2016, Athens



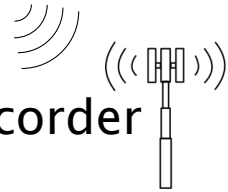
Bundesministerium
für Bildung
und Forschung



Bundesministerium
für Wirtschaft
und Energie



REKOTRANS:
Online Flight Data Recorder
(Airbus, SMEs)



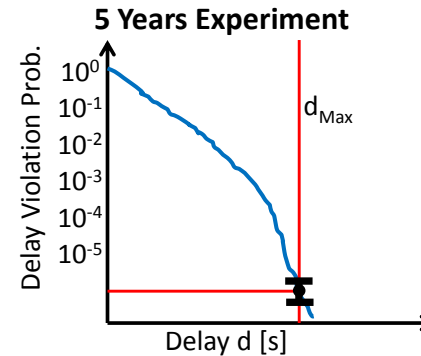
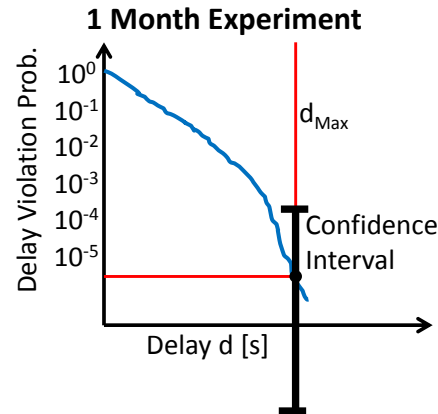
INDUSTRIE 4.0

Wireless, Reliable and Robust
Industrial Transmission Systems
(SMEs)

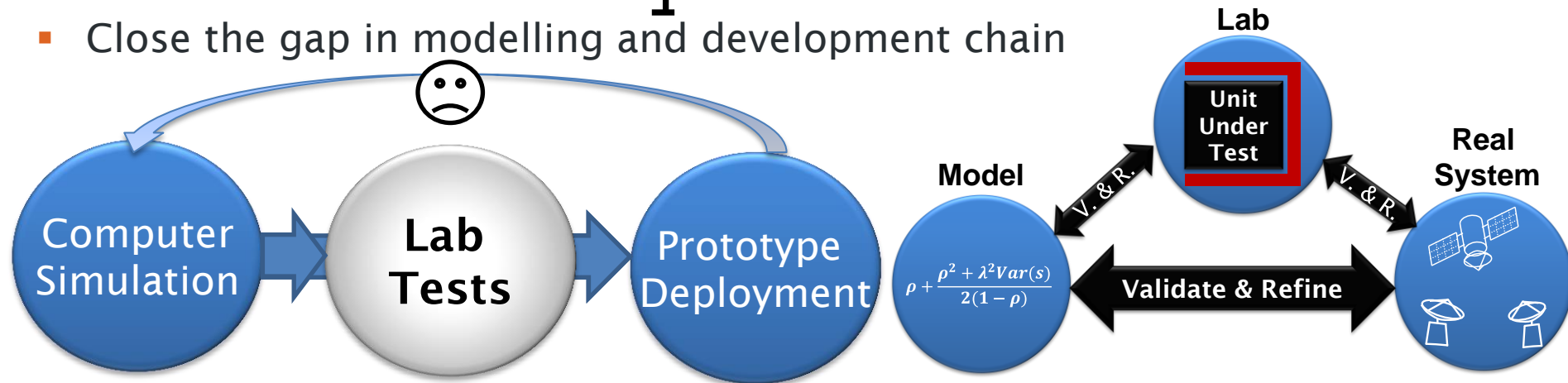


Safe and Reliable Maritime
Communication
(DNV-GL, SAM Electronics)

- Reach and **prove** 99.999...% reliability
- Evaluate result confidence (e.g. Limited Relative Error (LRE) Algorithm)



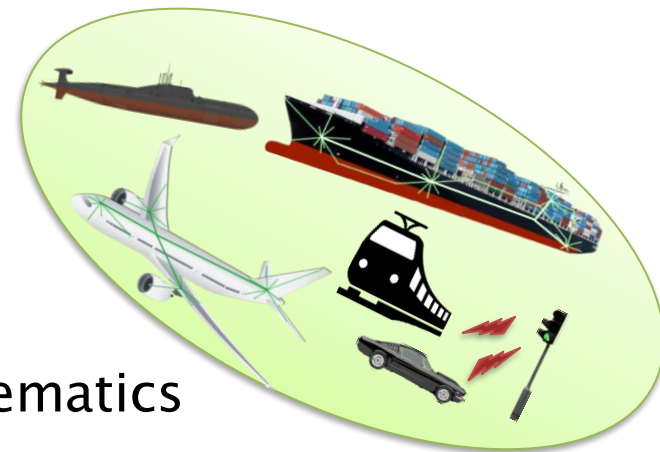
- Close the gap in modelling and development chain



- Looking for projects and partners in Targeting Action (TA) 13 “Security, Privacy, Resilience, and High Availability”

Design Principles and Performance Evaluation of Highly-Available and Ultra-Reliable Vehicular Communication Systems (ComNets Hamburg & MassM2M Aalborg)

- Project goal: Define methods to systematically **design, model, evaluate, certify and deploy safety critical vehicular communication systems**
- Domains: Automotive, aviation, railway, (sub)maritime
- Use-Cases (least to most challenging):
 - 1) Operations (e.g. control center) & telematics
 - 2) Cooperation & swarm
 - 3) Remote control (Tactile Internet)



Thank you! Questions?

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