

2nd European Conference on Interoperability for Embedded Systems Development Environments

Martin Törngren, Rainer Ersch, Andreas Keis, Ingrid Kundner, Frederic Loiret

Conference in collaboration ARTEMIS, KTH, and the following projects: MBAT, CRYSTAL, iFEST, ICTLabs, CPSE



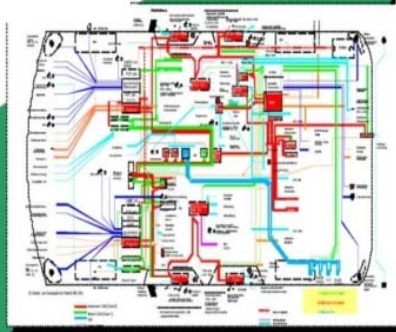
ROYAL INSTITUTE OF TECHNOLOGY



EIT ICTLabs CPSE project

Conference program - overview

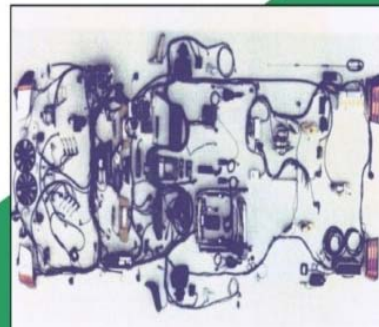
- 09.30-09.40: Introduction & welcome - Chair: Martin Törngren
- 09.40-10.25: Keynote 1
 - Coffee break
- 10.50 – 12:10: Presentation session - Chair: Frederic Loiret
 - Lunch
- 13.10-13.55: Keynote 2
 - Leg stretch
- 14:35 – 15:50: Invited talk & Speed talks – Chair: Rainer Ersch
 - 15.05: Speed talks
- 15:50 – 16:45: Exhibition
- 16.45 - 17.30: Panel debate
- 17.30-17.40: Conclusions and closing



Wiring Harness 1949 170V

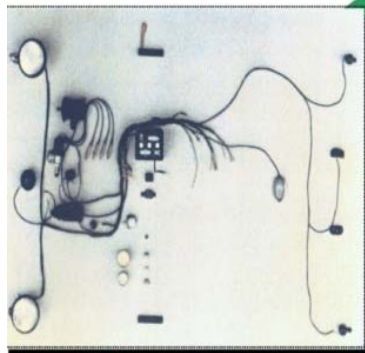
Wires ~ 40

Contact Points ~ 60

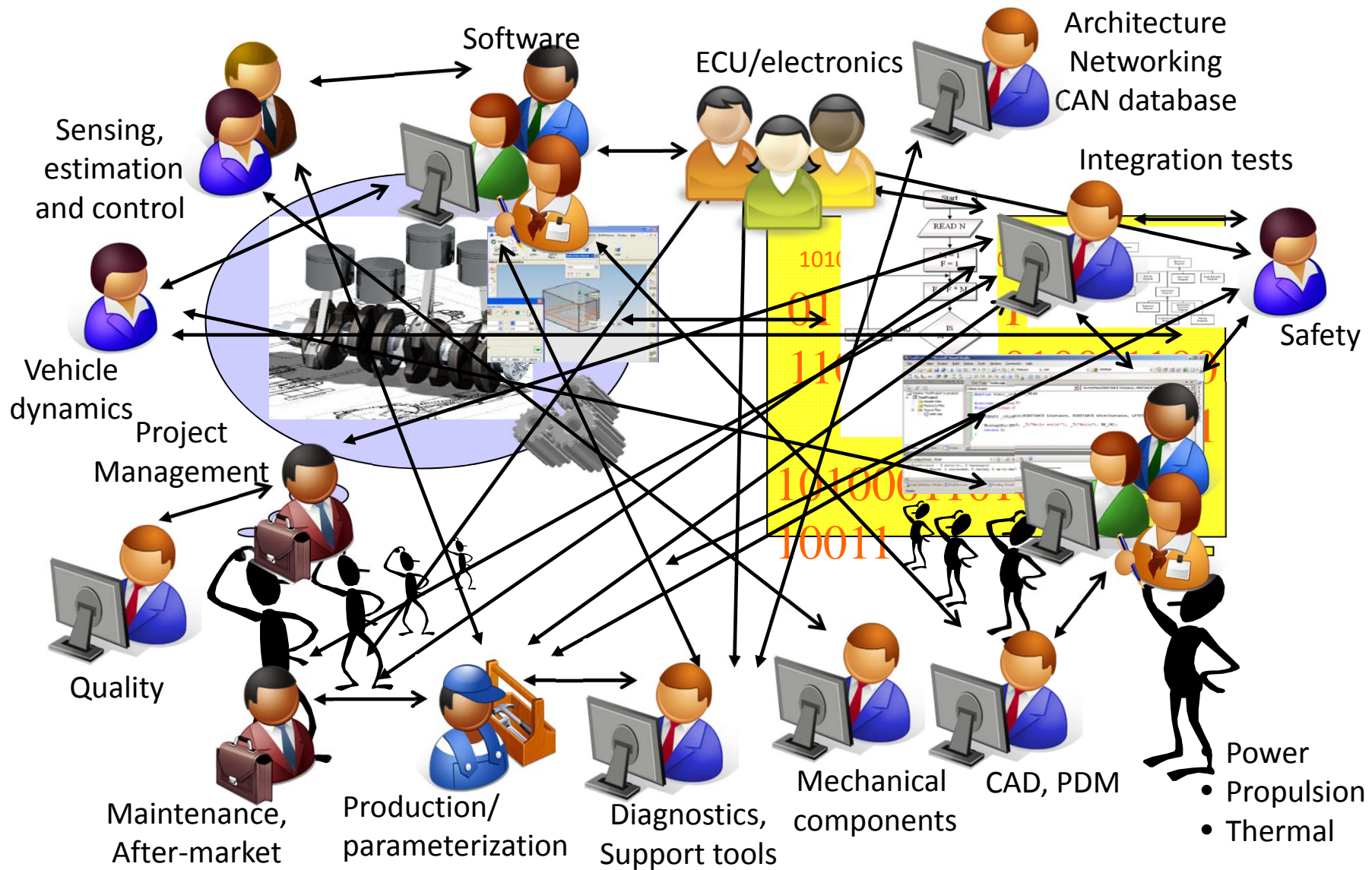


Wiring Harness 1999 S-Class

3 Data Bus Systems



Architecting, integration and interoperability



Conference synopsis

- Learn from experiences
 - Multidimensionality of tool integration
- Discuss way forward towards sustainable interoperability

Tool integration frameworks & aspects

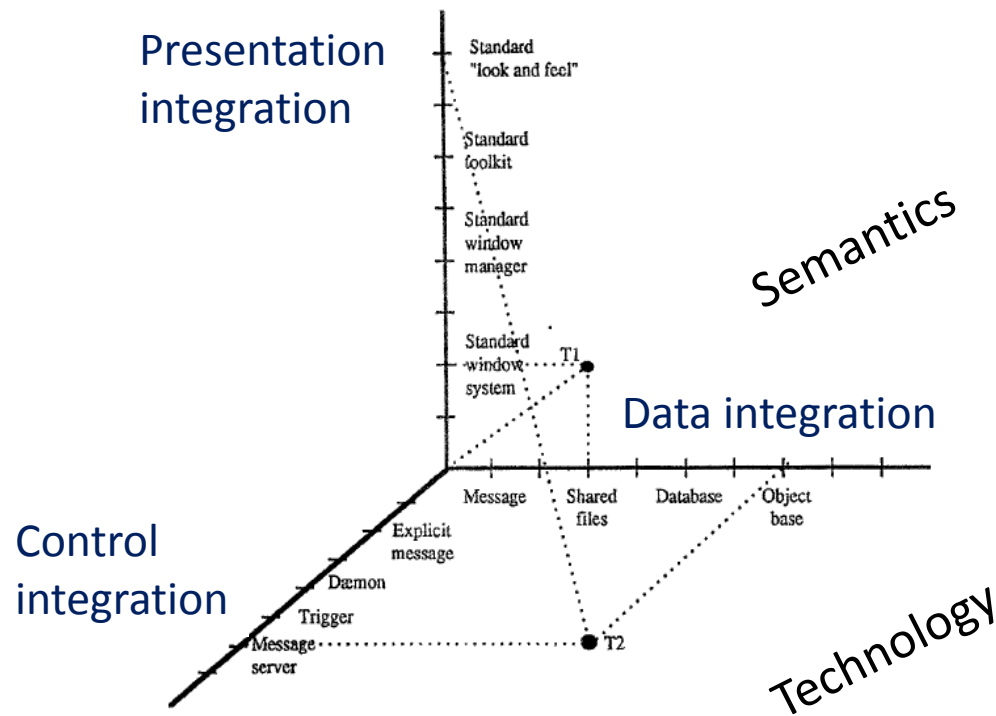
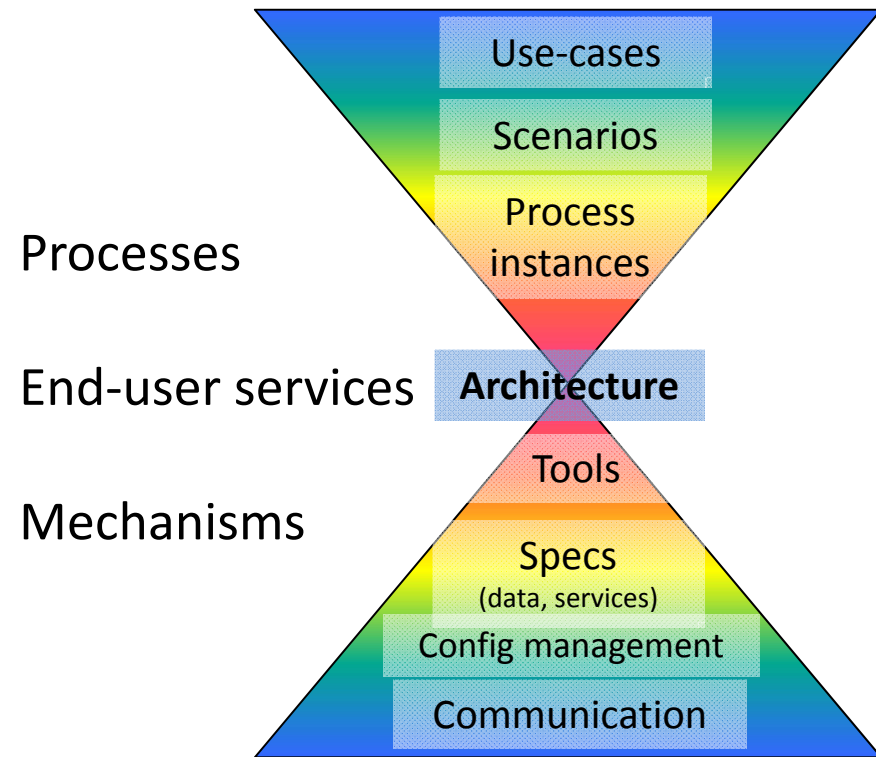


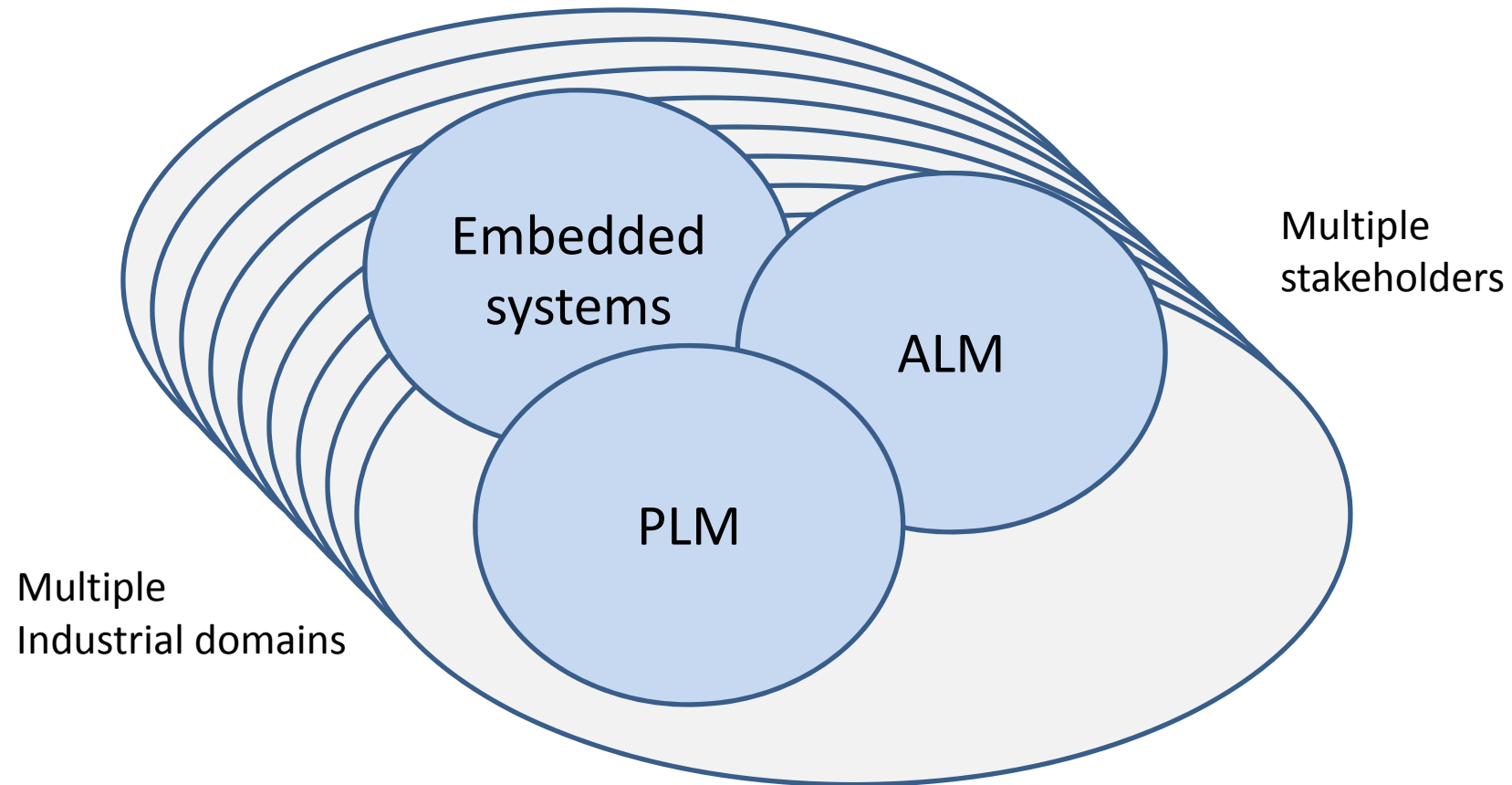
Fig. 2. Three dimensions of tool integration

Wasserman integration dimensions

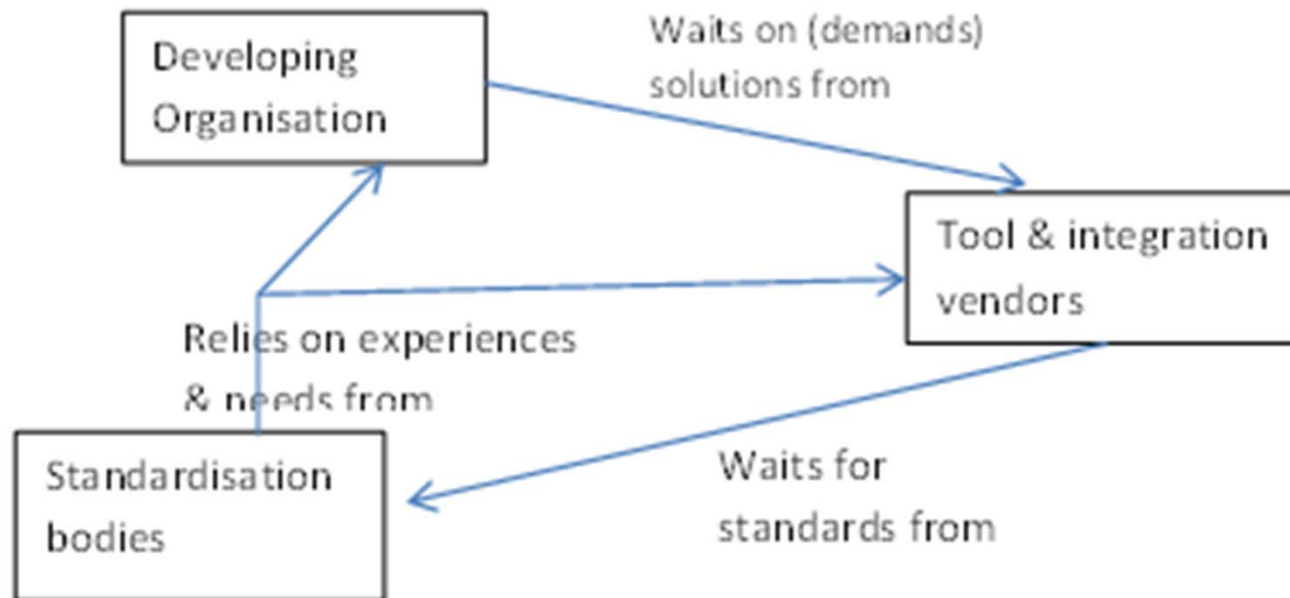


Tool integration as platform-based design

Multiple converging strands



Standardization barriers



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Detailed session program;

10:50 – 12:10

- 10:50 - Interoperability experiences related to requirements management –
Jose Maria Alvarez Rodriguez, University of Madrid
- 11:10 - Work to describe ALM-PLM tool interoperability scenarios – Gray Bachelor, IBM/GM
- 11:30 - Model Federation in OSLC toolchains
- Joel Champeau, ENSTA
- 11:50 - BB industrial tool-chain based on the iFEST (OSLC) based integration framework
- Gaetana Sapienza, ABB

Detailed session program; 13:10 – 14:15

- 13:10 - Interoperability experiences and lessons learned - perspectives from ALM and OSLC – Sky Matthews, IBM
- 13:55 – Tool and model interoperability experiences - from the viewpoint of DSL frameworks – Janne Luoma, Metacase

Detailed session program;

14:35 – 15:50

- 14:35 - Experiences on tool interoperability - Mats Berglund, Ericsson
- 15:05 – 15:50 Speed talks (5-minute):
 - Managing detailed development data in a PLM framework; Jan Söderberg, Systemite/Volvo
 - Co-simulation and the Functional Mockup Interface; Andrea Leitner, VIF
 - Interoperability in Aerospace Public Use Case of CRYSTAL project; Francesco Brunetti, University of Toronto/EADS
 - On the applicability of a formal query language to OSLC specifications. Implementing OSLQ query capabilities through a SPARQL interface; Jose Maria Avarez Rodriguez, University of Madrid
 - OSLC Embedded system user groups; Jad Elkhoury/Martin Törngren, KTH
 - Inconsistency management, application/methods on top of OSLC; Ahsan Qamar, Georgiatech & Koneksys

Panel debate: Towards sustainable interoperability!

- Panel members
- Interoperability initiative and proposal
- Key questions

Panel debate: Towards sustainable interoperability!

1. What are the 5 most central issues to consider towards sustainable interoperability (in the context of Systems Engineering)?
2. How to make Interoperability a primary concern of a developing organization.
3. What are key lessons learnt from previous standardization efforts?
4. What should be the scope and content of Technical Interoperability Specifications for Systems Engineering?
5. What factors have been identified in interoperability research that ensure efficient take-off of results?
6. How can we benefit from complementary relationships between standards?