



AURE'06 Workshop

Automotive Requirements Engineering

Workshop Organizers:

Betty Cheng, Frank Houdek, Shigeyuki Kawana



Workshop Agenda

9:00 Welcome, Introduction, Agenda

9:30 Keynote One

10:30 Break

11:00 Keynote Two

11:45 Short Paper

12:30 Lunch

13:30 Technical Papers

14:50 Break

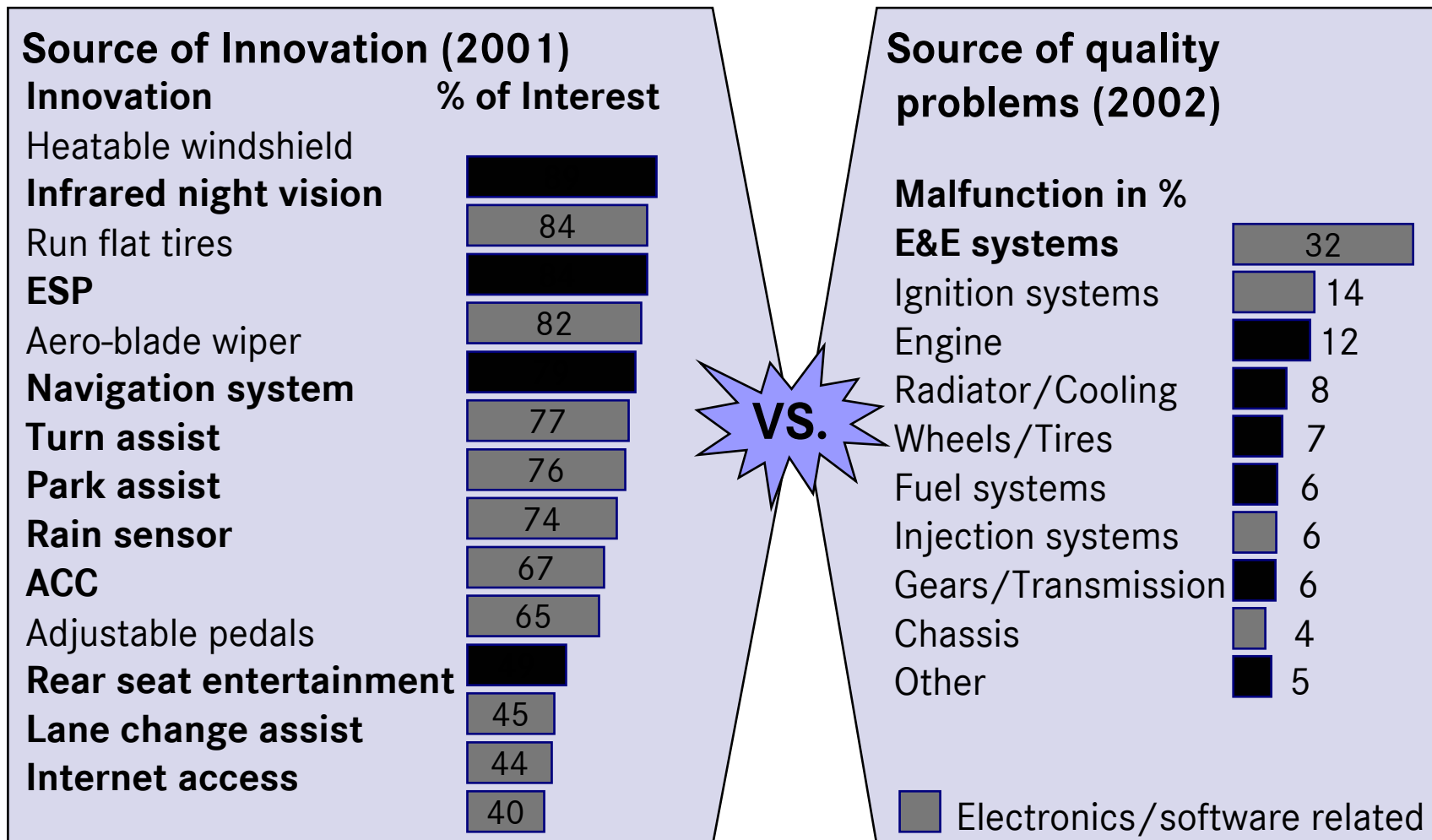
15:20 Technical Papers

16:40 Discussion (Issue Map)

17:15 Summary and Fare-well

17:30 End

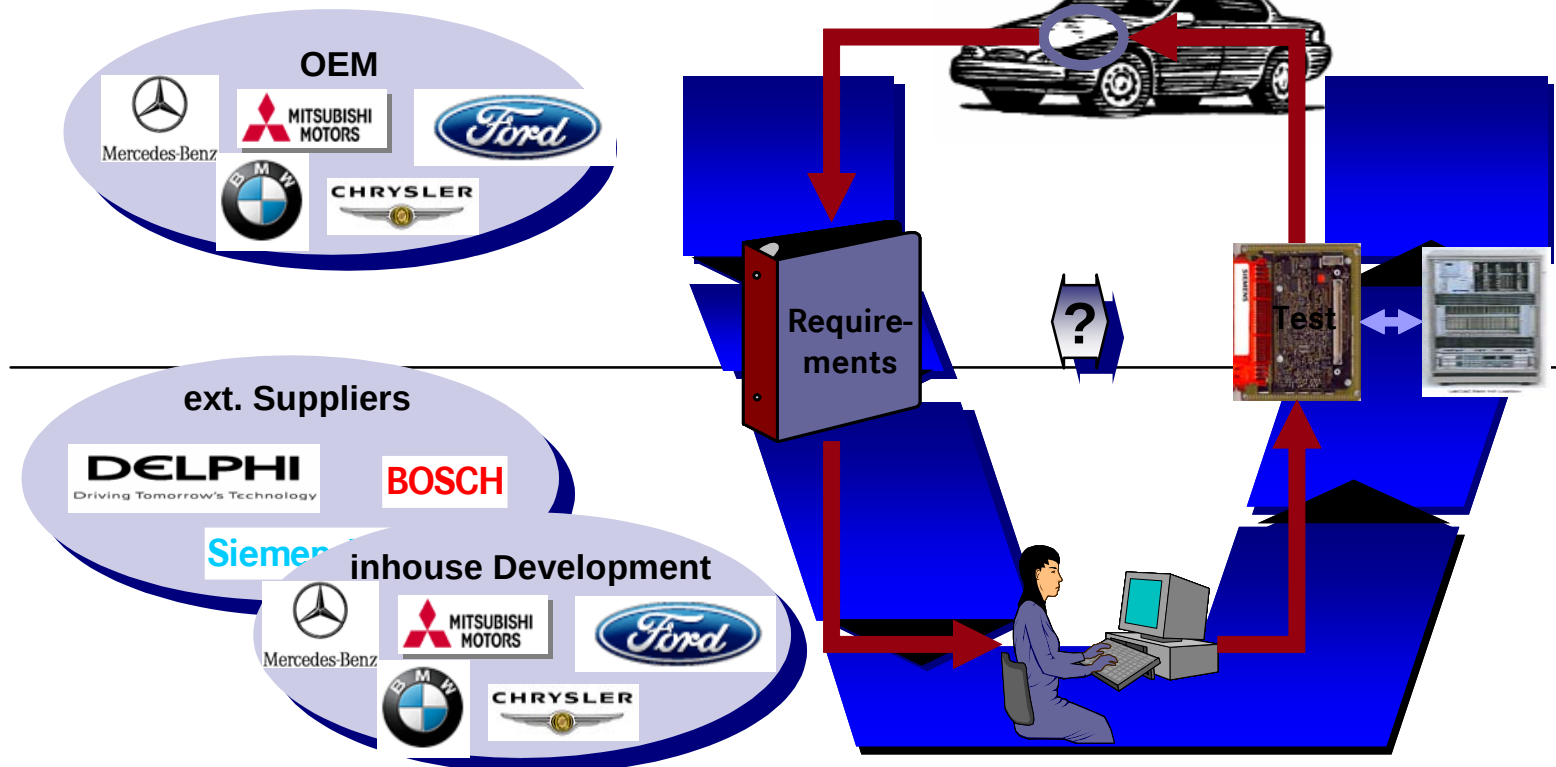
Automotive Software – Driver for innovations and Source of quality problems



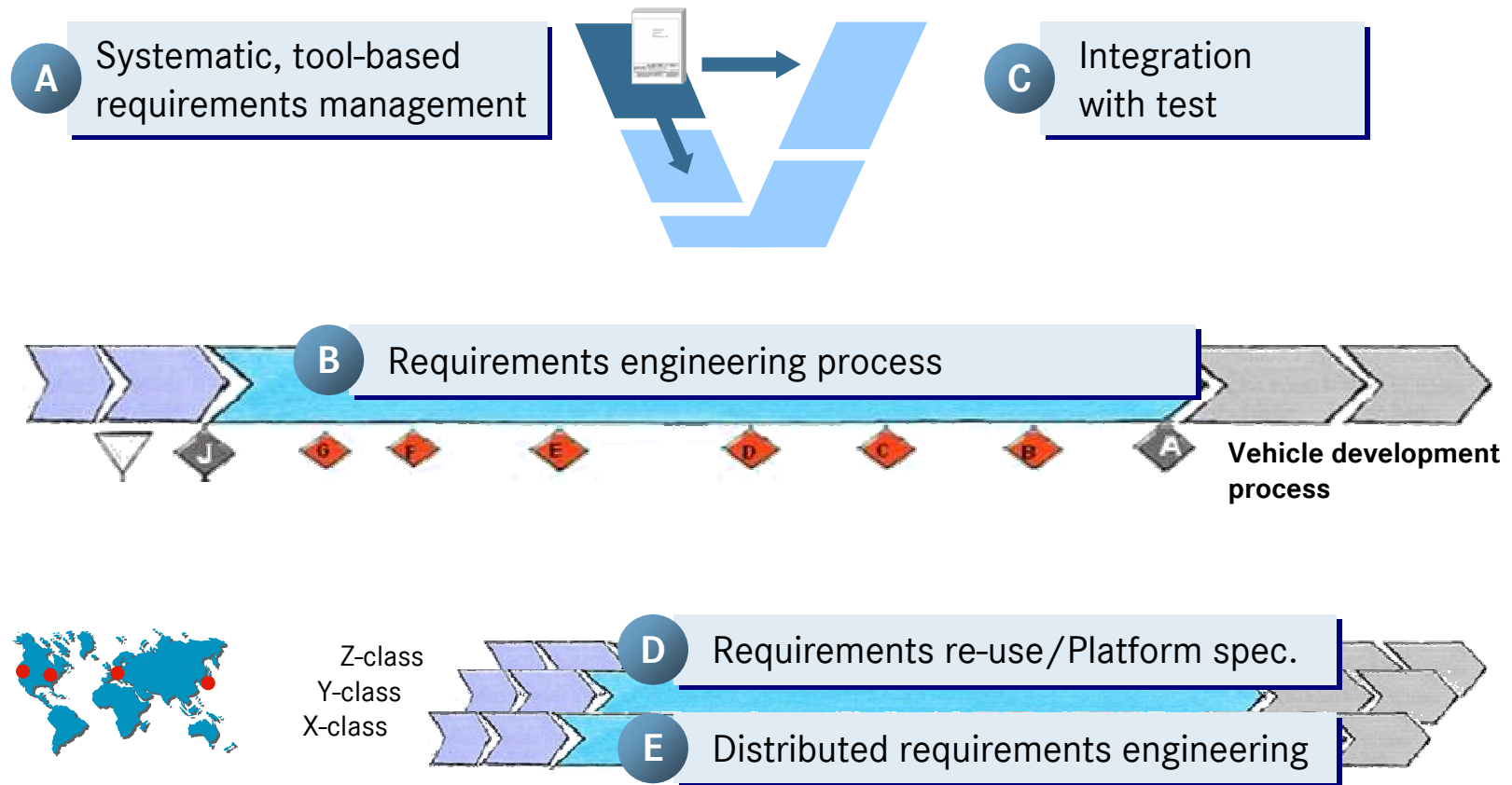
Source: McKinsey, 2002

Requirements Engineering + Supplier Management + Integration/Test = Automotive Software Development

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Main Challenges in Automotive Requirements Engineering



Detailed Workshop Agenda

- 9:00 Welcome, Introduction, Agenda
- 9:30 Keynote (by Mr. Milam, Ford Corporation)
- 10:30 Break
- 11:00 Keynote (by Betty Chang, Michigan State)
- 11:45 Short Paper *"Tailoring the Process for Automotive Software Requirements Engineering"* (Beatrice Hwong, Xiping Song, Siemens Corporate Research)
- 12:30 Lunch
- 13:30 Technical Paper *"Interdisciplinary Requirements-Analysis Using the Model-Based RM-Tool AUTORAID"* (Eva Geisberger, Johannes Grünbauer, and Bernhard Schätz, TU München)
- 14:10 Technical Paper *"A compositional approach for functional requirement specifications of automotive software systems"* (J. Hartmann, M. Rappl, S. Rittmann, D. Wild, TU München; P. Scholz, Fachhochschule Landshut)
- 14:50 Break
- 15:20 Technical Paper *"Applying Aspect-Oriented Techniques in Automotive Software Product-Line Engineering"* (Katharina Mehner, Mark-Oliver Reiser, TU Berlin; Matthias Weber, DaimlerChrysler AG)
- 16:00 Technical Paper *"AoREAS: Aspect-Oriented Requirements Engineering for Automotive Software Systems"* (Mikio Aoyama, Atsuko Higashi, Nanzan University) + Discussion
- 16:40 Discussion (Issue Map)
- 17:15 Summary and Fare-well
- 17:30 End

Program Committee

- Mikio Aoyama,
Nanzan Univ., Japan
- Manfred Broy,
Technical Univ. of Munich, Germany
- Ken Butts,
Toyota Technical Center, USA
- Ingolf Krüger,
Univ. of California, San Diego, USA
- Klaus Müller,
Robert Bosch GmbH
- Klaus Pohl,
Univ. Duisburg-Essen, Germany
- Alexander Pretschner,
ETH, Switzerland
- Matthias Weber,
DaimlerChrysler AG, Germany

Issue Mapping/Open Research Areas

- Vision: Common Automotive RE research agenda
- Goal for now: Collect some (new) pieces of the “research agenda puzzle”
- Possible questions?
 - Which results do I want to see in 2 to 5 years?
 - What are upcoming research topics in Automotive RE?
 - From which domains can we borrow what?
Why? Why not?