

Opening Plenary by Senior Advisory Board QRA, RAM and Safety Management in Decision

Safety/Reliability in Industry

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**VDI - Association of German Engineers,
Competence Centre of Reliability**

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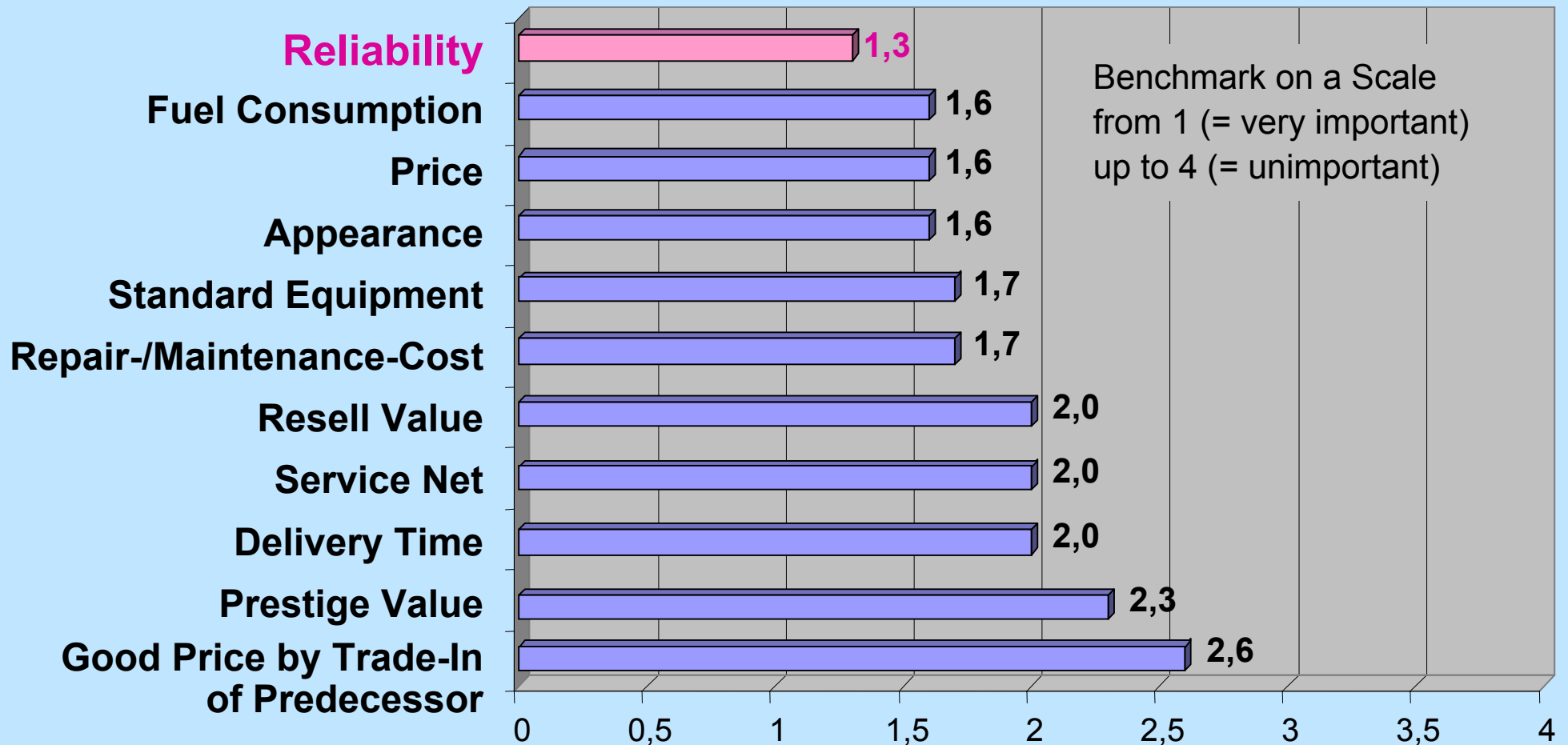
Accomplishments

- **Increasing demand of functionality**
- **higher complexity**
- **cross-linking of hardware, software, sensors**

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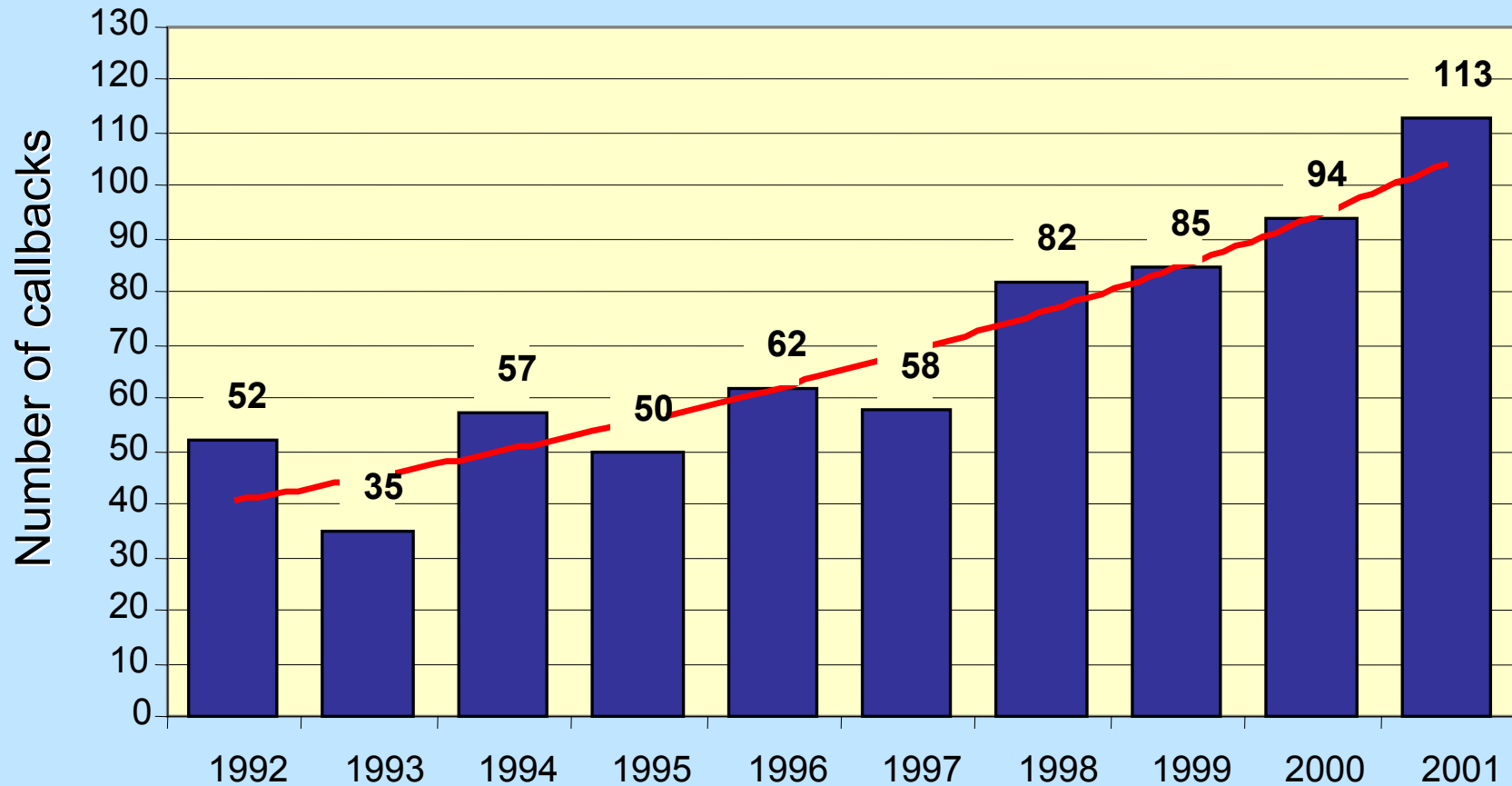
- Customer survey on what is important

Reliability is first Priority



Source: DAT-Verdol-Report 2002

Number of callbacks caused by safety-relevant defects of cars (Ref.: Kraftfahrt-Bundesamt)



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Challenges and Future Prospects

- **Methods to master the increased complexity of the products have to be developed and implemented into development process**
- **Methods for a fast development process have to be adapted or new generated. A faster and better decision making has to be established.**
- **Reliability methods have to be applied in all phases of development process. Here, the methods have to be optimized dependent on the phase of development to which they are applied to.**

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In this ESREL conference, numerous contributions provide good and promising approaches to reach this objective.

Thank You for attention