

Welcome to KTH!

Education, Research and Entrepreneurship



Key-figures 2006:

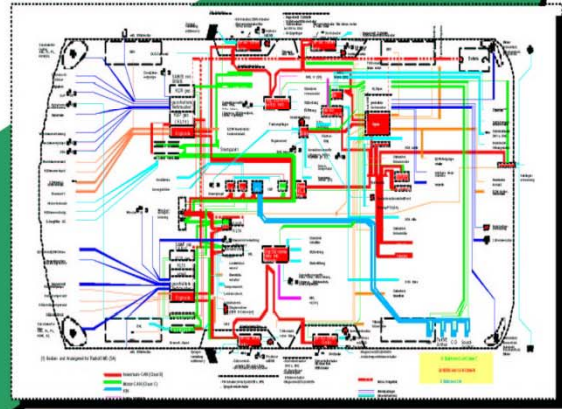
- 17,000 students → 2000 examined
- 1,400 PhD students → 216 examined
- 3100 employees, ~ 3 billion turnover



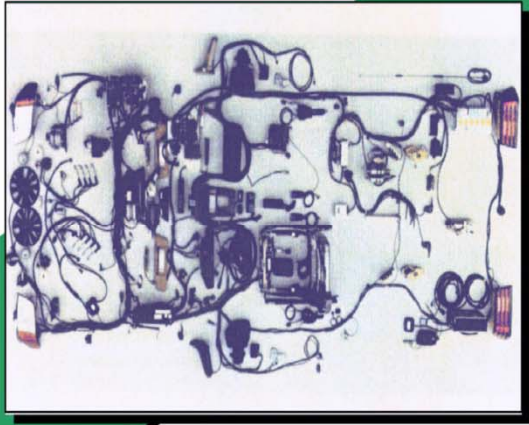
Complexity in everyday devices
 Embedded systems permeate life cycle
 Cost-efficient dependability
 Autonomy vs. Humans

Reduced emissions
 Energy efficiency
 Active safety
 Comfort

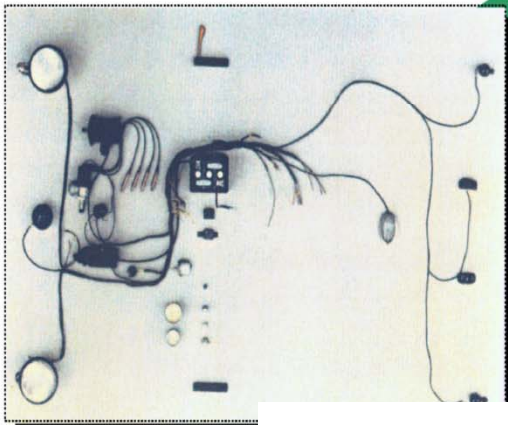
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- ✍️ **Wiring Harness 1949 170V**
- ✍️ **Wires ~ 40**
- ✍️ **Contact Points ~ 60**



- ✍️ **Wiring Harness 1999 S-Class**
- ✍️ **3 Data Bus Systems**
- ✍️ **~ 60 ECUs**
- ✍️ **~ 110 Electric Motors**



- ✍️ **Wiring Harness 1990 S-Class**
- ✍️ **Length ~ 3 km**
- ✍️ **Wires ~ 1900**
- ✍️ **Contact Points ~ 3800**

Mercedes removed 600 EE functions (2003)

ICES – Innovative Centre for Embedded systems at KTH

Cooperation among

- Mechatronics
- Networked control, Automatic Control
- Electronic, Computer and Software Systems
- Human machine interaction, Computer vision and Autonomous systems
- Industrial partners including ABB, Enea, Ericsson, Elekta, Scania, Stoneridge, and ÅF

Joint research projects and education

To be inaugurated September 2008

