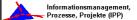


# **Integrated Information Management for TESLA**

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Presentation for the International Conference on Computing in High Energy Physics CHEP 2003, San Diego



# **Agenda**



- Introduction
- Life Cycle and Information Systems
- Technical Information Systems at DESY
- Status and Experience

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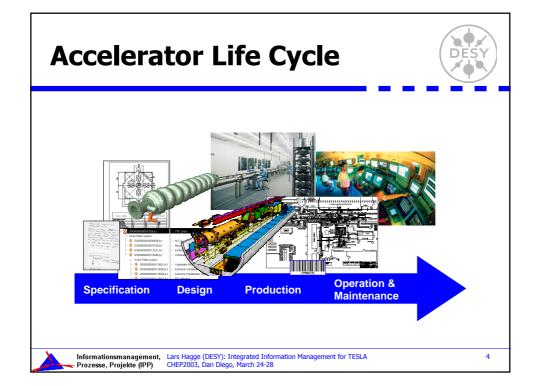
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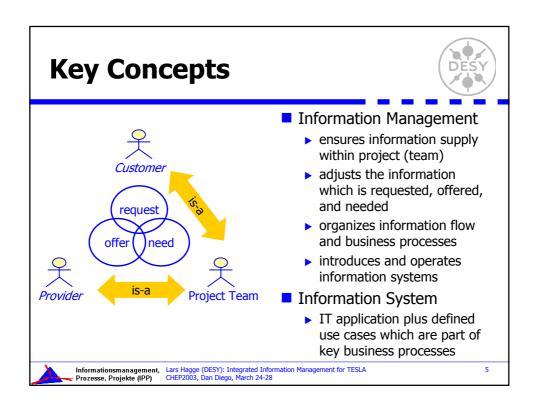


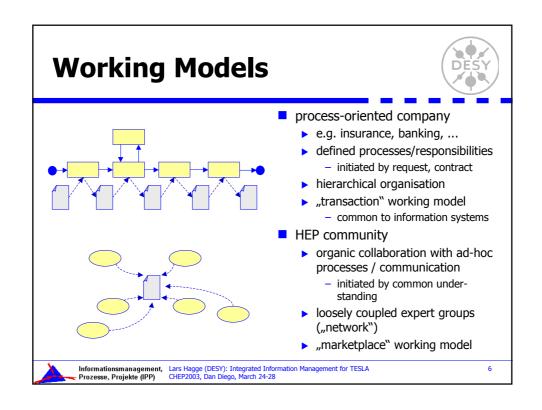
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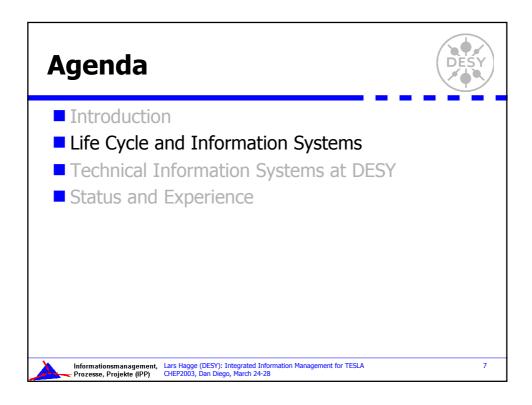
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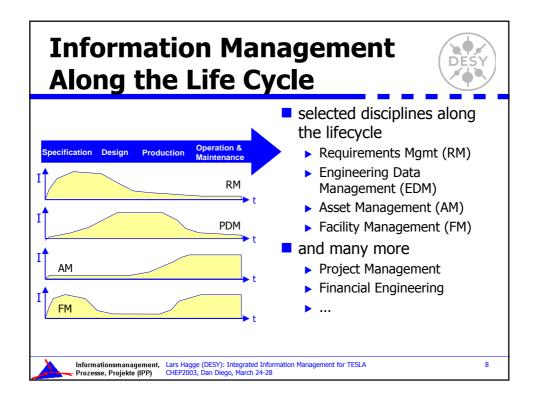
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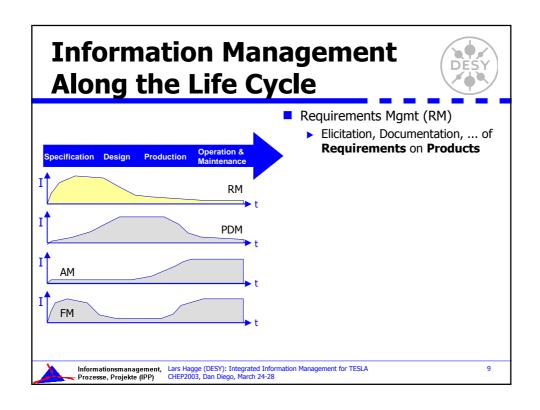


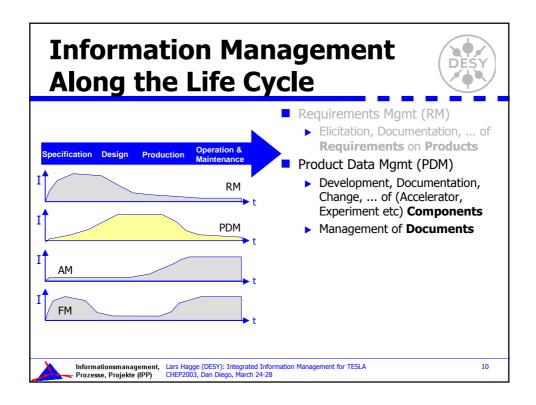


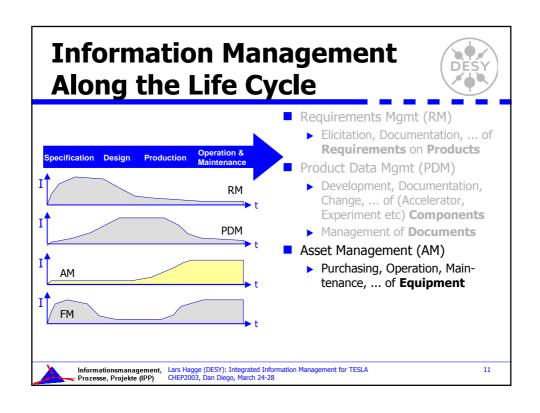


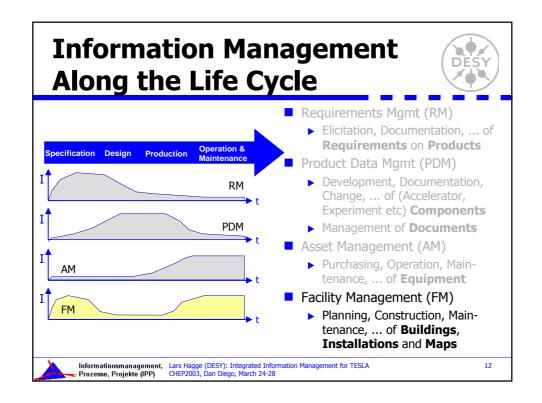


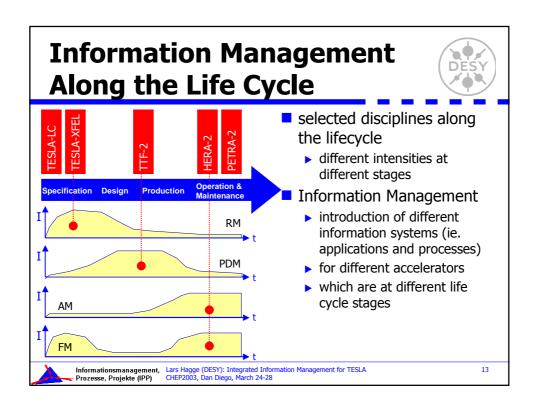


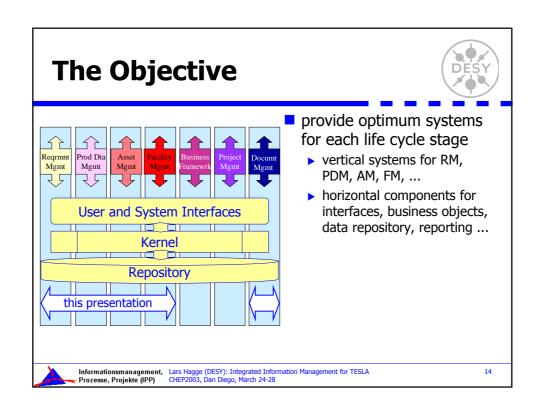


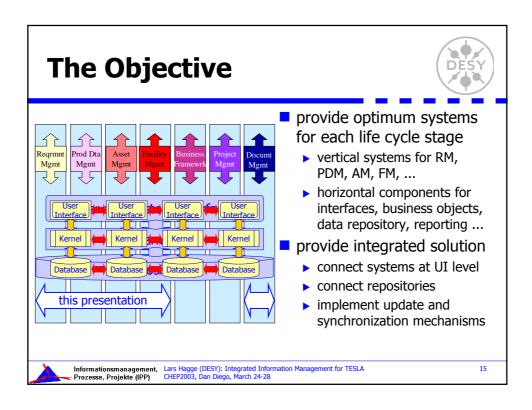


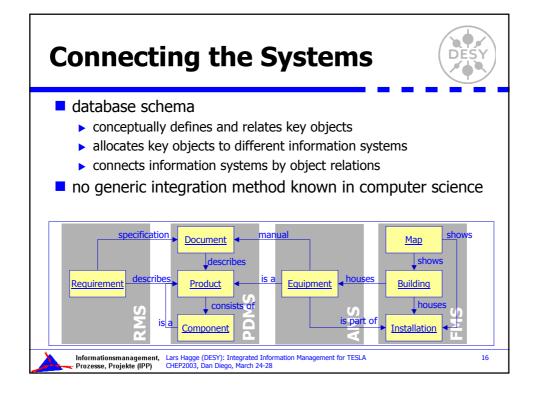




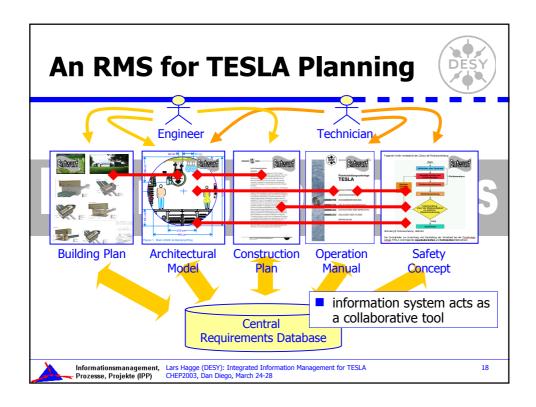


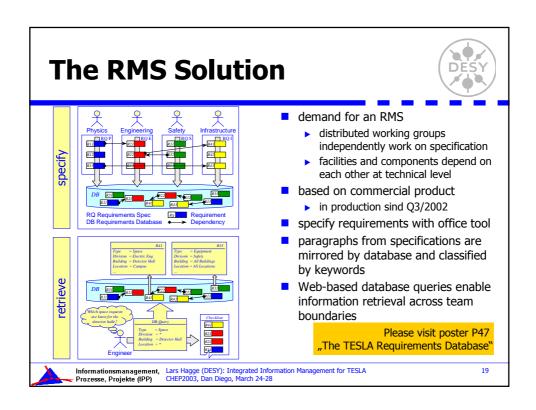


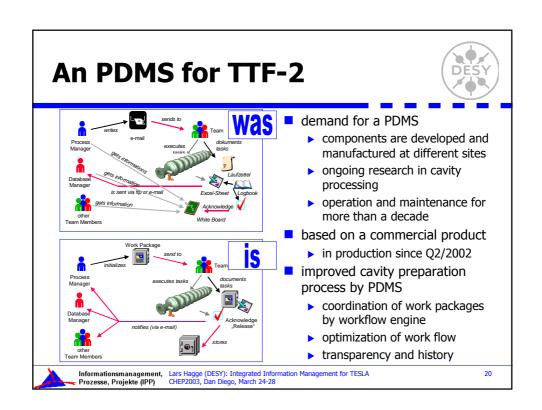


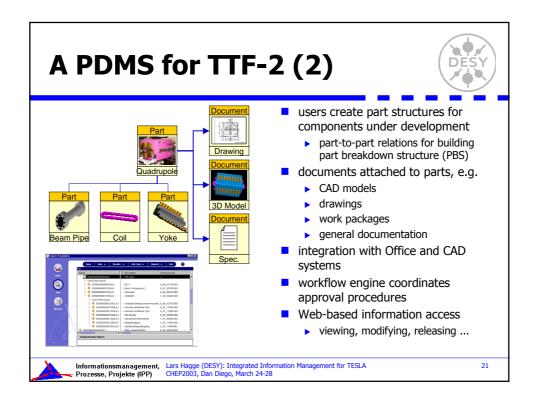


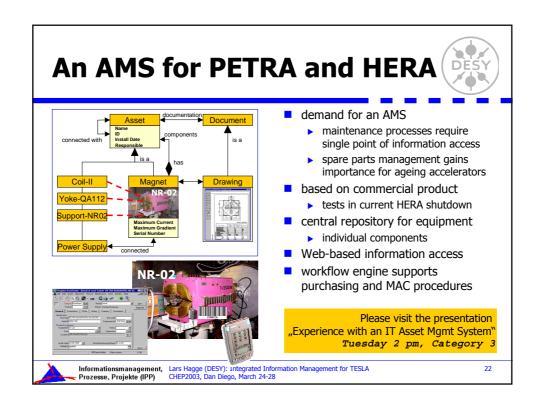
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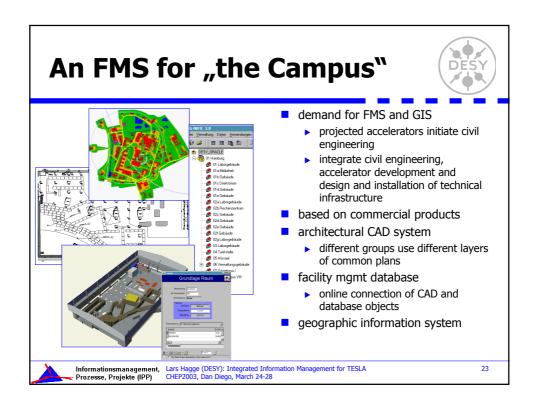


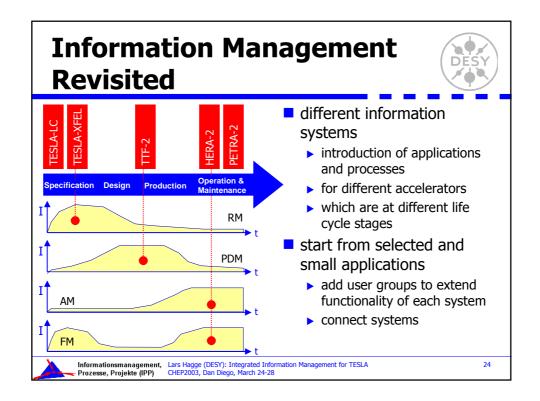


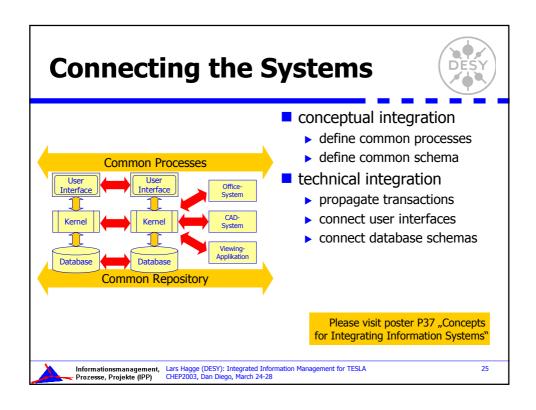


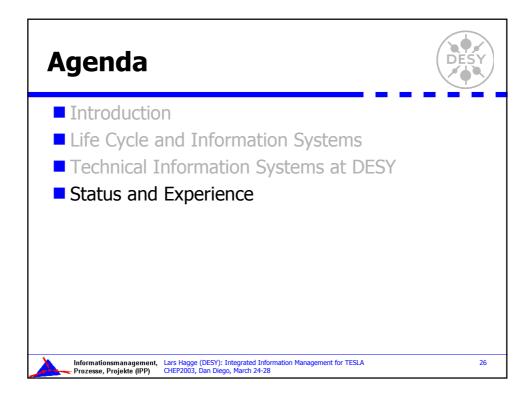








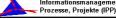




## **Status**



- most systems are up and running
  - ▶ last system scheduled Q3 / 2003
- parallel introduction for different accelerators
  - > system introduction requires accelerator project in corresponding stage of life cycle
  - ▶ harder to integrate systems for lack of common objects
- initial integration efforts were started



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### **Benefits**



- enabler for concurrent engineering
  - ▶ independent distributed working groups
  - ▶ integrate accelerator design, civil engineering, technical infrastructure etc.
  - process and quality improvements (e.g. in cavity prep.)
- central communication / documentation platform
  - ▶ integrates heterogeneous environs. (Office, CAx ...)
  - structured access to up-to-date information
  - available to all the participants
- long term archiving of emerging knowledge
  - documents and information in native formats



## **Experience**



- major success factors include use, usability and extensive user support in method and tools
  - respect the community's working model
- information management requires long advance planning
  - ▶ importance slowly, but increasingly visible & recognized
    - improved cavity preparation because of PDMS
    - better transparency in TESLA planning because of RMS
- integration is a difficult project of its own
  - conceptual integration work has to start very early



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