





## **Enablers and Challenges for Operational Excellence**

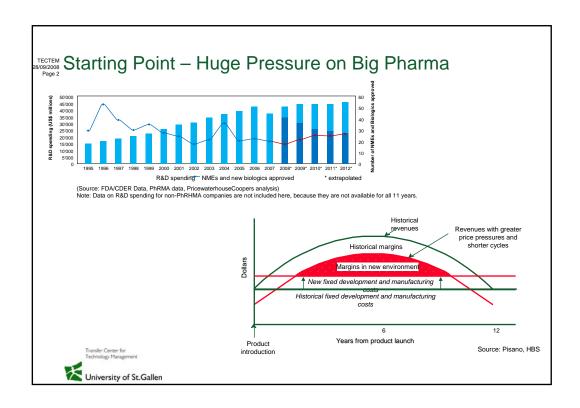
Prof. Dr. Thomas Friedli - The Heidelberg PAT Conference, October 28th, 2008

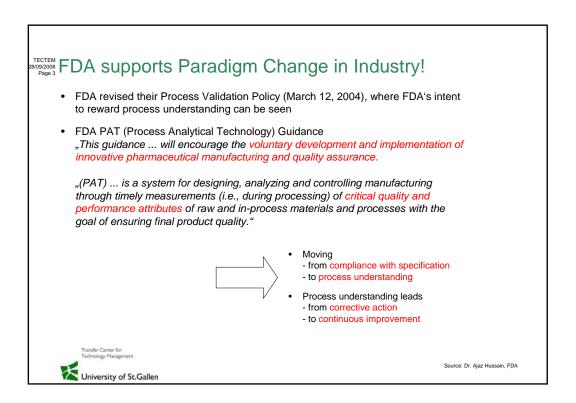
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Structure
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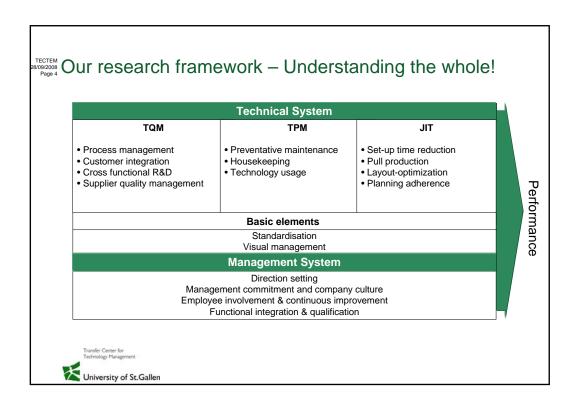
- 1 Potential of Operational Excellence
- 2 A Model for a Sustainable Implementation
- 3 How could Excellence have an Impact on the Regulatory Environment?
- 4 Summary and Discussion

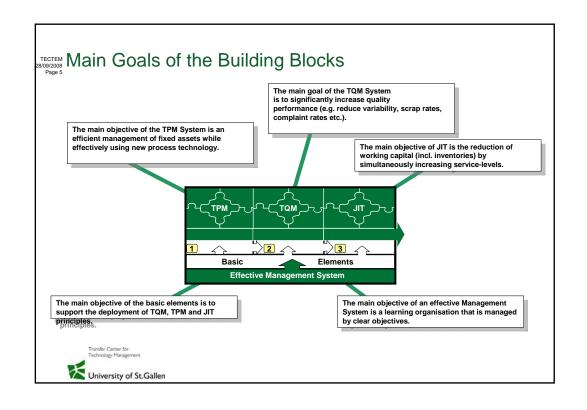




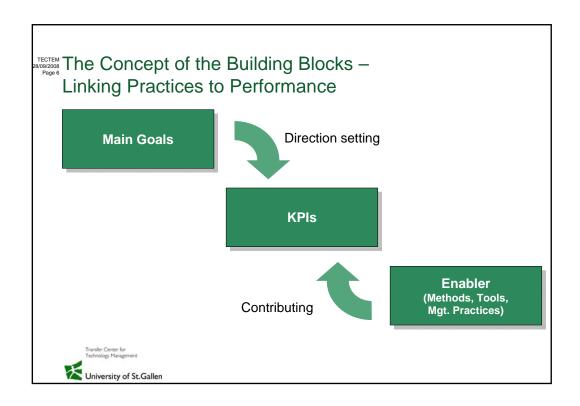


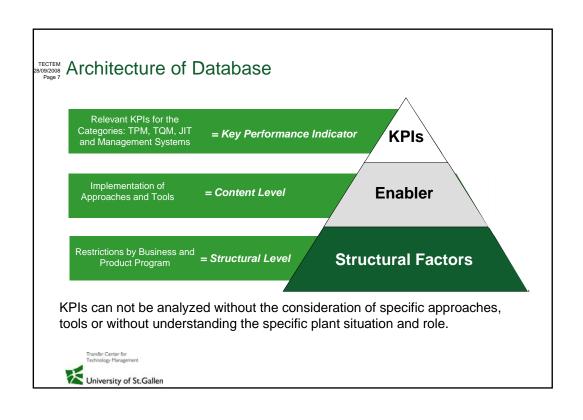




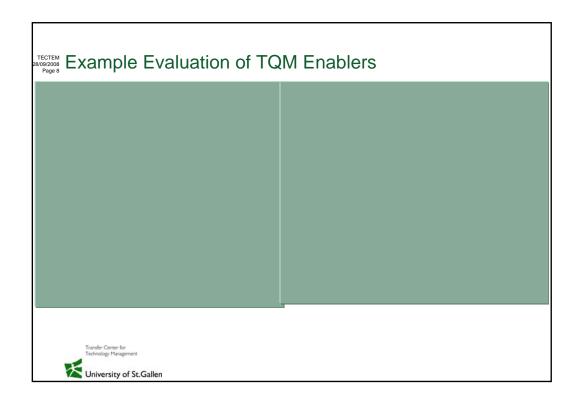


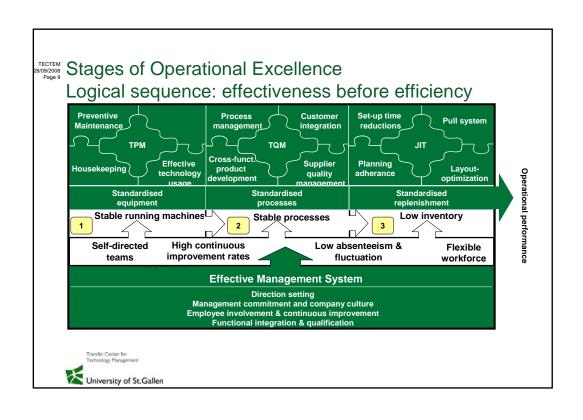


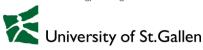


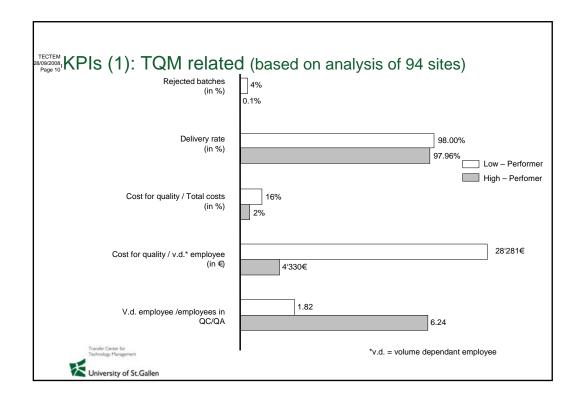


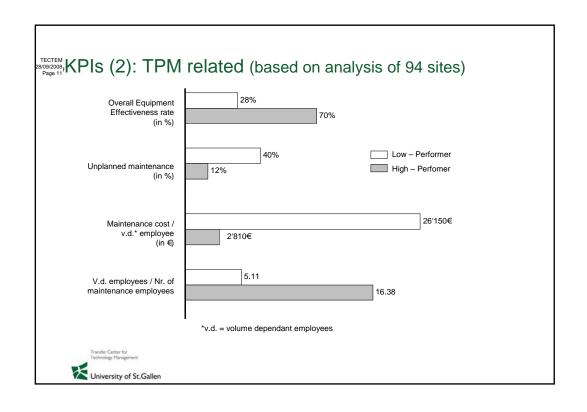




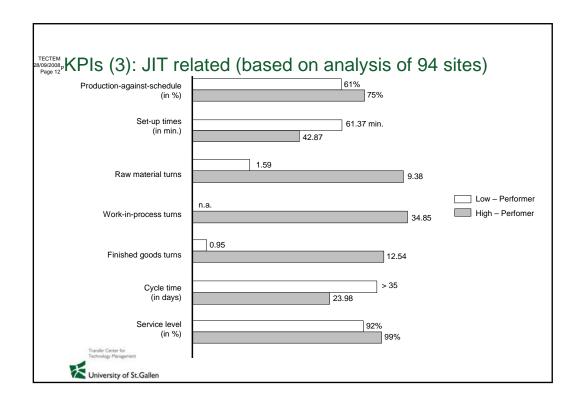


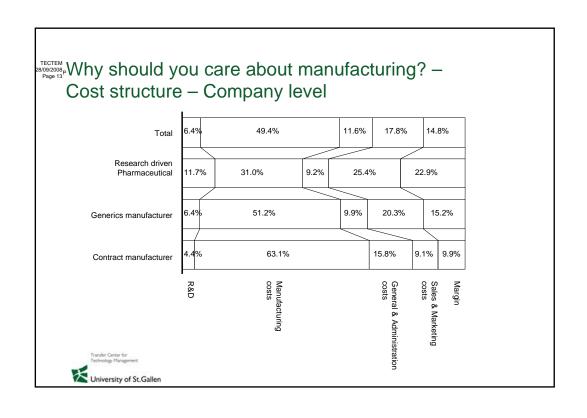


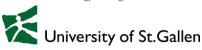


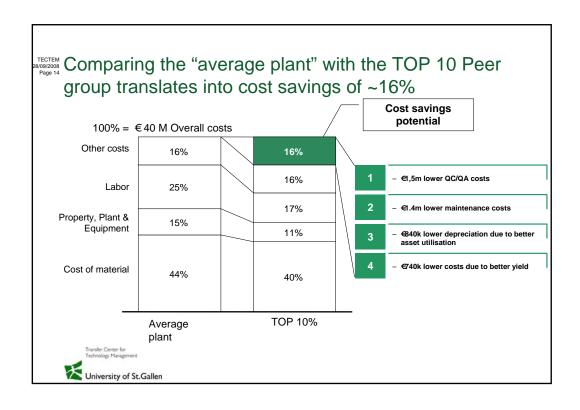


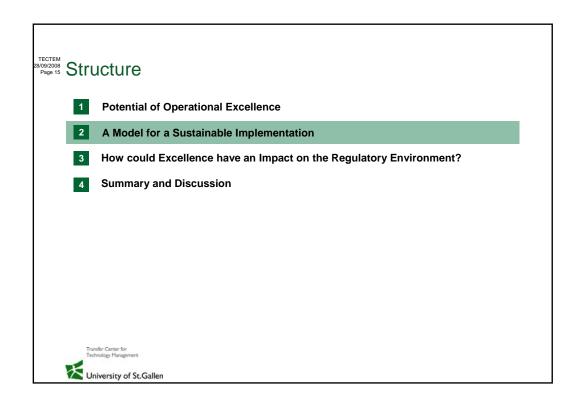


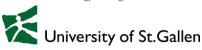


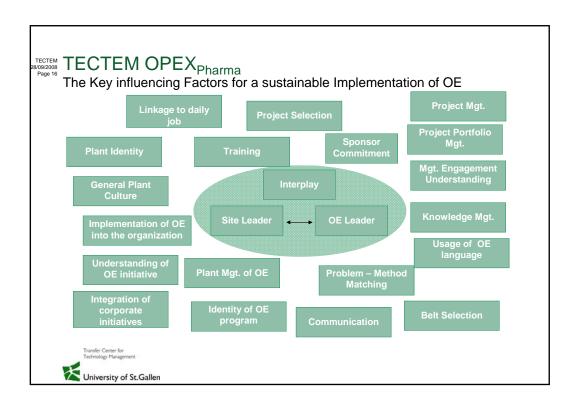


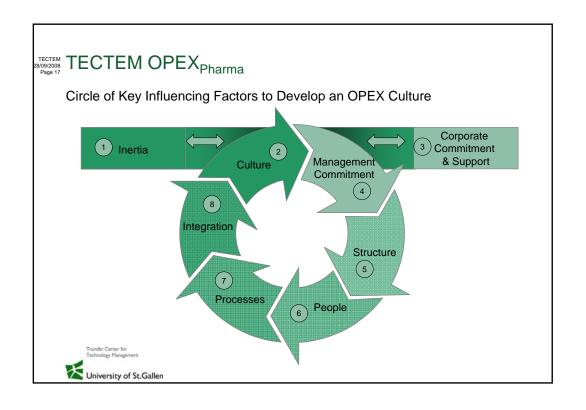


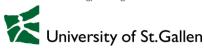


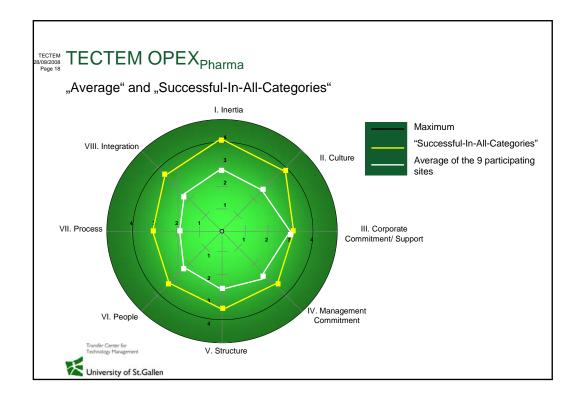


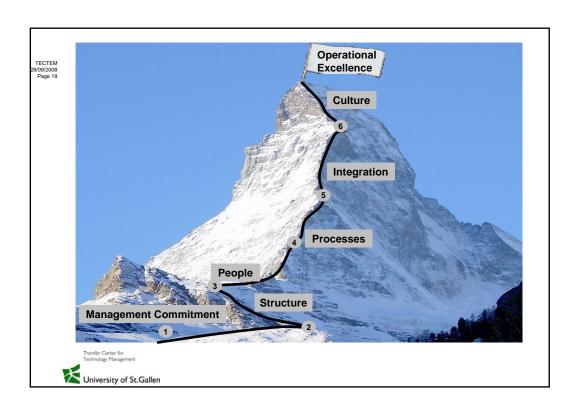




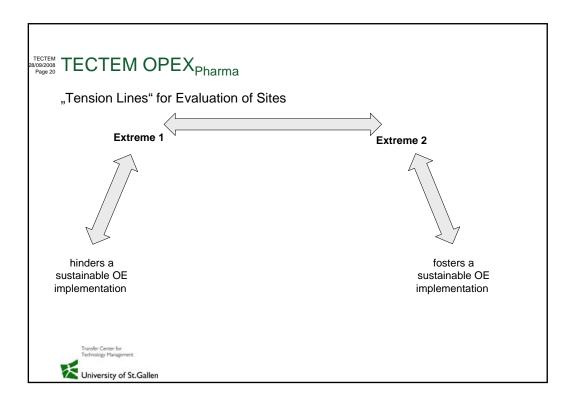














Selected tension lines in our Model (1)

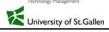
#### Site Culture / Background

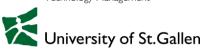
#### Corporate/OpU Commitment & Support

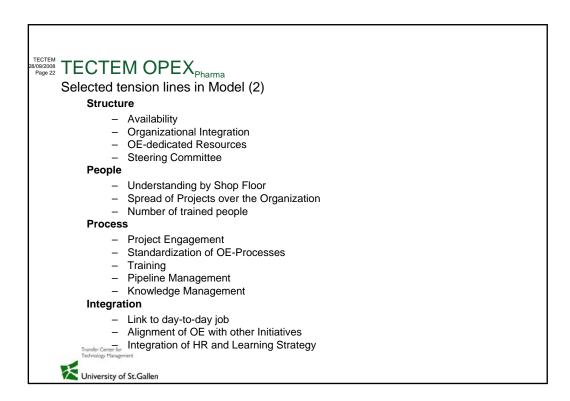
- Resources
- Involvement in target setting for sites
- Engagement of corporate support people

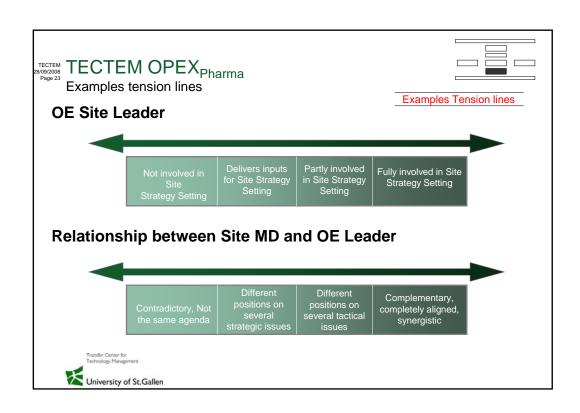
### **Management Commitment**

- Site leader commitment
- OE site leader commitment
- Relationship between site leader and OE leader
- Commitment of Plant Leadership Team
- Management of OE
- Understanding of OE by Middle Management
- Average level of sponsor
- Communication of OE
- Strategic Alignment / Target Setting
- Belt selection

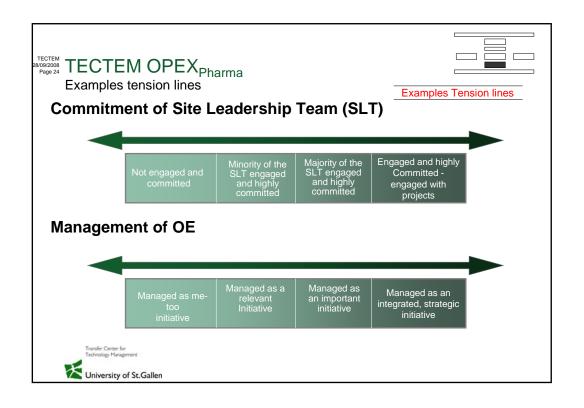


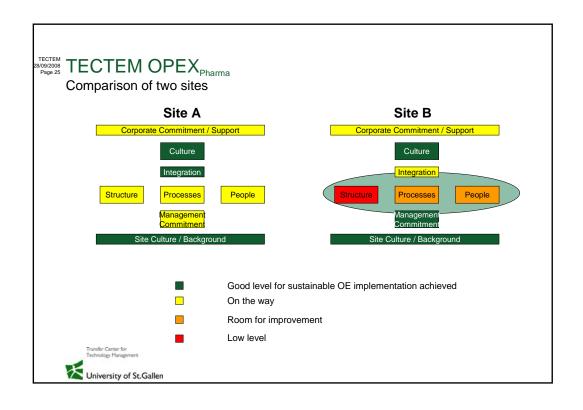




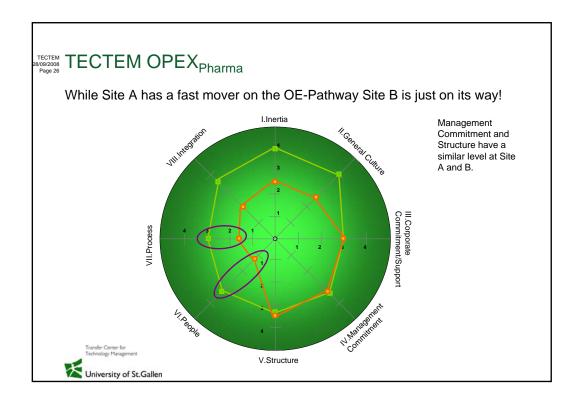


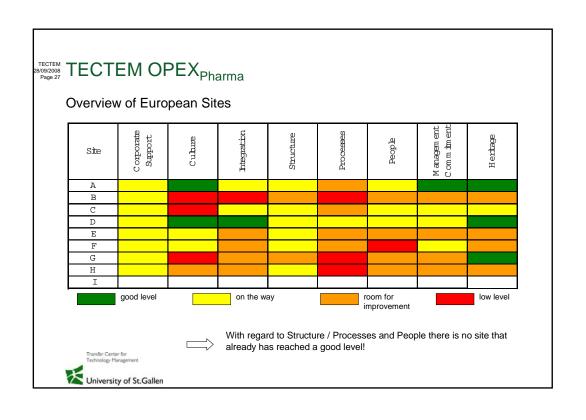




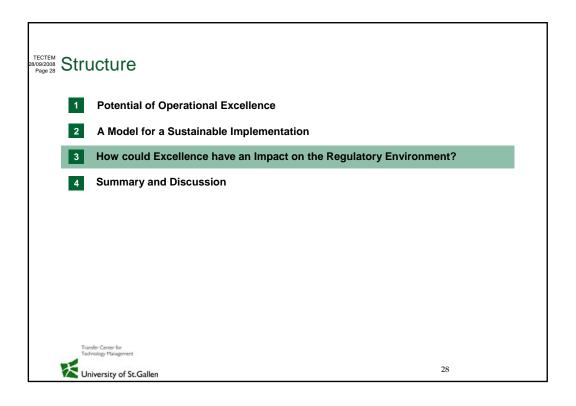


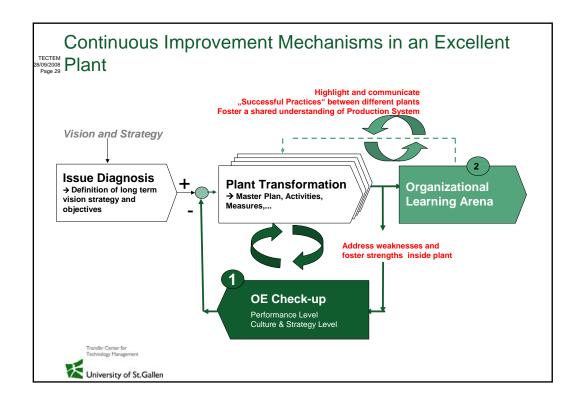


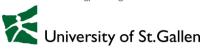


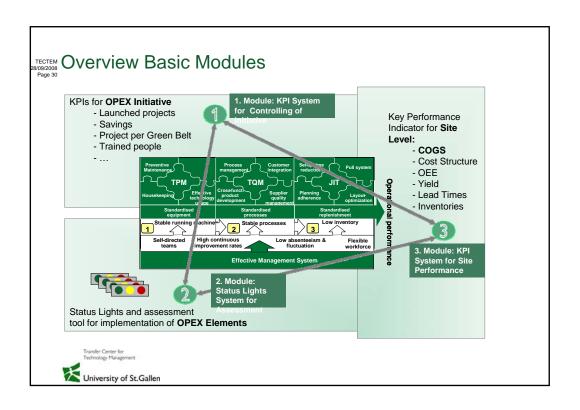


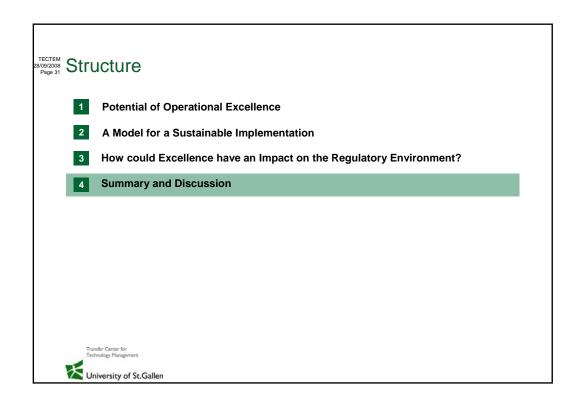


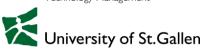












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- The improvement potential coming from Operational Excellence is huge!
- Operational Excellence is not achieved overnight!
- QbD should be part of Operational Excellence!
- The cultural challenges are the biggest hurdles for a sustainable implementation at the moment!
- A regulatory Vision for the Future could be to define the Design Space for the entire Plant no longer for a single process so as fostering the motivation to strive for Operational Excellence!

