

Slut cirkeln med ett levande system, från integrerad konstruktion till integrerad drift



- Trends in the Process Industry
- Challenges & Business Requirements
- Answers with your business potentials
- Summary



Trends in Process Industry

Business drivers

Base & petroProcess

- Availability and reliability of production
- Efficiency
- Safety

Specialty and fine Process

- Innovation
- Variety of products

Industry wide

Global engineering

Technology focus

Base & petroProcess

- · Replication/duplication of production facility and production lines
- Flexibility of using different feedstocks
- · Optimization of process during production

Specialty and fine Process

- · Better management of the process complexity
- Modular and container based design
- · Validation and regulation

Industry wide

Asset information integrity management

Economical focus

Base & petroProcess

- Time-in-Market
- Major CAPEX projects in middle east and far east
- CAPEX projects in US due to availability of shale gas
- · CAPEX projects in Australia due to coal bed methane

Specialty and fine Process

- Time-to-Market
- High value add

Industry wide

Total Cost of Ownership (TCO)



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Business requirements

Trends

Market Situation

High product quality

Flexibility

Environmental sustainability

Regulations

Requirements

Continuous increase in productivity

Optimized lifecycle

Preservation of high quality

Continued process verification

...for Design

Flexible and open process design

Reduced design time

Modular design

... for Engineering

Reduction of engineering times

Reusability and standardization

Management of high complexity

... for Operations

Guarantee high product quality

Improved OEE (Overall Equipment Efficiency)

Fast provision and update of As-Built documentation



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Digital Plant lifecycle phases



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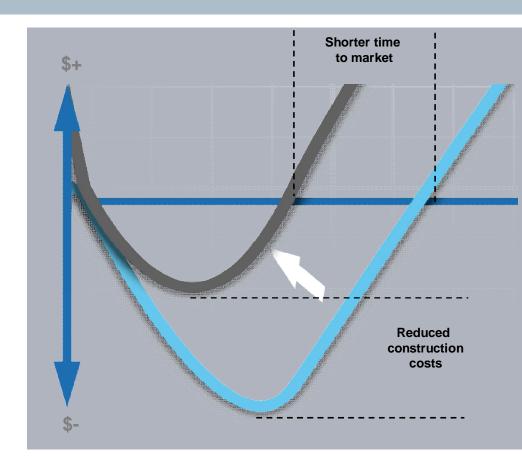
Business potentials

Integrated engineering:

- Reduction of engineering costs up to 30%
 - Due to reduction of applications, automation of engineering work, reuse and integrated qualification
- Reduction of construction rework up to 10 %
 - Due to data consistency

Integrated operations:

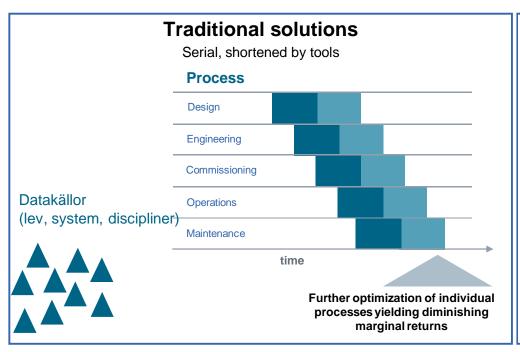
- Reduction of operating costs up to 25%
 - Due to data consistency
 - Due to reuse of standards
 - Due to in-sync plant documentation
 - Due to single source of information

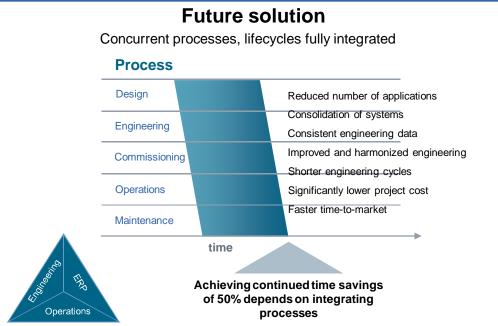




#4 In Digital Engineering with Integrated plant management

Only an integrated view across all lifecycle phases enables holistic plant management and reduces data complexity







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In summary – your benefits

Data model is the lever for...

- Single source of information
- Standardization and reuse
- Efficient asset lifecycle management
- Embedded compliance management
- Paperless electronic lifecycle
- Ongoing plant optimization

your success!

- Reduced costs in CAPEX/OPEX
- Retained key knowledge
- Enhanced production quality
- Reduced risk of inspection failures
- Shorter time to market
- Higher flexibility

Be prepared for the future!



Thank you very much for your attention!

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