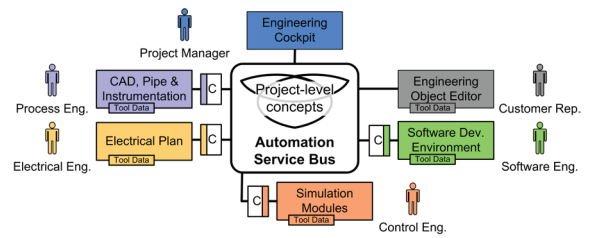


# Engineering Process Improvement according to VDI 3695



The efficient design of technical systems requires appropriate engineering processes to enable high-qualified engineers in focusing on new challenges and delivering high-quality results. Reusing experiences and solution concepts, derived from previous projects, have to be efficient and systematic.

## Goal

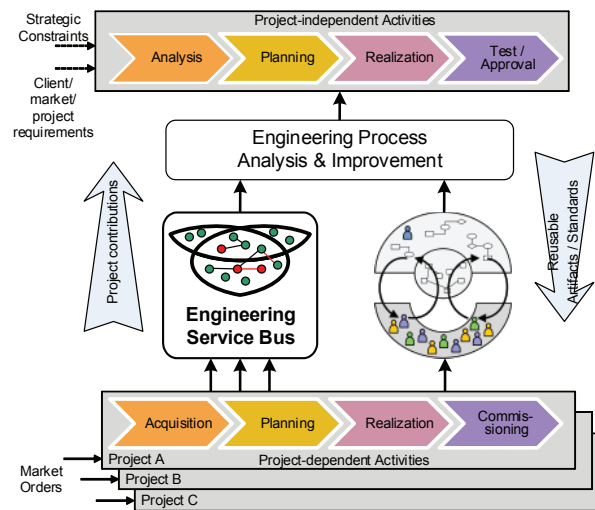
Efficient and timely execution of engineering projects are success critical issues in many organizations. However, every project is challenging for all project stakeholders. Projects that exceed planned project constraints, e.g., time and budget, and the loss of critical experiences and knowledge include high risks for project success. To overcome these risks, organizations have to establish processes that link project-dependent activities and project-independent activities efficiently.

Established processes have to be assessed according to upcoming needs and opportunities and have to be adapted accordingly to limit project risks and to enable engineers to benefit from previous experiences and knowledge.

The VDI/VDE guidelines 3695 „Engineering of Industrial Plants – Evaluation and Optimization“ can support different aspects of engineering processes by analysing the current state of the process, defining planned target states, pre-conditions, and measures to achieve these states.

## Implementation

Based on VDI 3695, logi.cals GmbH, University of Magdeburg, and TU Vienna developed an analysis and consulting approach that enables an efficient and traceable analysis of existing engineering processes as



well as an efficient identification of improvement options and opportunities.

In addition, this process approach enables analyzing projects that could be at risk.

Based on a an on-site process analysis including all involved stakeholders, current engineering processes

## Customer Benefits

- Identification of potentials for improving efficiency and reuse
- Localization of project risks and project delays.
- Applicability for continuous improvement and emergency actions

are described and assessed to elicit current needs. In cooperation with experts of the organization improvement options and improvement strategies are derived.

## Topics:

- Engineering Processes
- Process Description languages
- Reuse
- Craft integration
- Integration and Traceability
- Tools and Tool Chains

## Technical Data:

- VDI/VDE Richtlinie 3695
- Sichten-basierte kooperative Prozessanalyse
- Adaptierbarer Analysefokus

## Contact:

Heinrich Steininger  
CEO logi.cals Austria  
Phone: +43 5 77147  
Fax: +43 5 77147-99  
info@logicals.com  
http://www.logicals.com

Stefan Biffi  
Head of CDL-Flex  
Stefan.Biffi@tuwien.ac.at  
http://cdl.ifs.tuwien.ac.at

