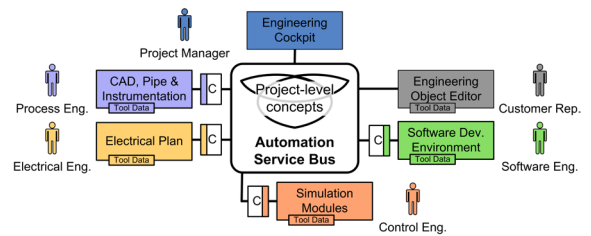


# Current Project Overview with the Engineering Cockpit (ECo)



The effort for near-time analysis of the project progress based on real change data in distributed plant engineering is to be minimized. The Engineering Cockpit shows automatically the current view on project progress and risks as soon as the engineering groups send their local changes to planning data to the common data basis.



The Engineering Cockpit for the view on project progress across engineering domains in distributed plant engineering.

changes of data from software tools and systems in the project. Project participants can configure all relevant views on queries in the Engineering Cockpit and therefore always have the current view on the relevant aspects of the project status. The Engineering Cockpit has been successfully evaluated at ANDRITZ HYDRO with concepts from real projects.

## Goal

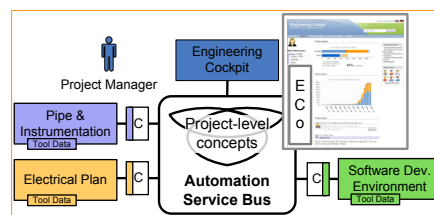
In plant engineering, the planning data of distributed domains evolve in parallel, often without overview on the real project progress. Project managers and group leads can see the real progress and risks only late, typically shortly before a project milestone. In particular, changes to plans, which come in late in the project, are insufficiently visible to enable the analysis for improvements.

Project managers need to see between milestones the overview on project progress based on current and systematically integrated data. The data coming from all relevant software tools and systems have to be collected. Collecting the status of engineering objects must be simple and efficient.

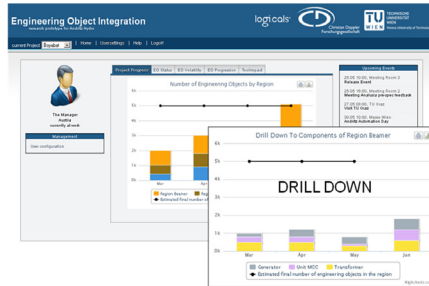
## Solution

With the web application „Engineering Cockpit“, logi.cals and the Christian Doppler research laboratory at the TU Wien provide rolespecific views for participants in the engineering team to give each participant the relevant information on current and historic project activities.

Users specify queries as SQL queries to the common data basis which the „Automation Service Bus“ provides and which contain all relevant



## Engineering Cockpit Auswertungen



## Customer Benefits

- Project management: View on project and progress across domains in a distributed engineering project.
- Quality management: Analysis of risks, e.g. an unexpectedly large number of changes to engineering objects late in the project.

## Technical Data:

- Automation Service Bus®
- Schema-less Engineering Database/ Knowledge Base
- SQL queries to the integrated data basis
- Web design with Wicket

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