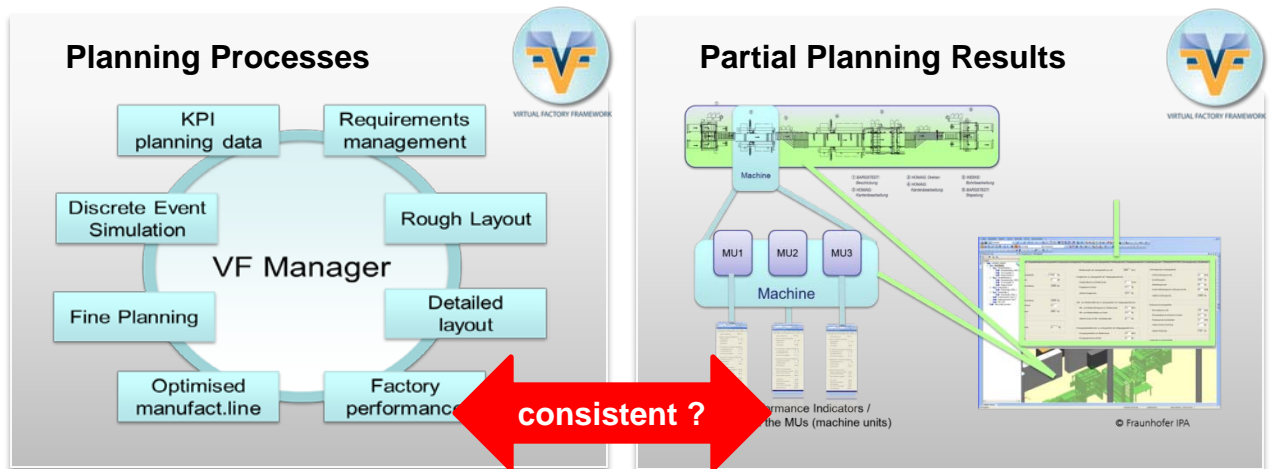


Design aspects for consistent and safe factory planning processes that meet customer requirements

Keywords: functional requirements, factory planning, goal-modeling



Background Information

In the context of designing the factory of the future, it is important to efficiently capture and manage all requirements as early as possible in the design process. Especially in the context of the EU project VFF, one of our industry partners deals with the management of requirements and related KPIs.

In order to reach a useful planning output that meets the requirements, inconsistencies shall be detected whenever they appear. The definition of useful and related consistency-rules is seen as a good starting point.

Thus, this work aims at an in-depth study of the nature of such inconsistencies and may also reveal standard-rules in the context of factory planning. Furthermore the study shall address where inconsistencies may appear and how the creation of such rules can be seamlessly integrated in the distributed, iterative and creative process of factory planning.

Workpackages

- get familiar with related literature
- set up an questionnaire (or similar) to find out more about inconsistencies in factory planning
- analyze the gathered data and try to identify different types of inconsistencies
- discuss and demonstrate your findings with a real-case from industry
- point out where inconsistencies may appear and suggest how this can be prevented
- documentation, mid-term and final presentation

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Daniel Politze, CLA F 21.2 – politze@iwf.mavt.ethz.ch

Jens Bathelt, CLA G 19.2 – bathelt@iwf.mavt.ethz.ch