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Subject Area	Organisation and Processes
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Implementation of Digital Site Solutions



Software Map with Data Flow Own presentmen



Progress Reporting Process Model Own presentment



Task Plan and Schedule for the Pilot Trial Own presentment

Introduction: Emerging opportunities through digitization are prompting construction companies to investigate new solutions on the market. The potentials of new digital tools in the construction industry are manifold. Despite the incentives for the digital transformation, the challenges of implementing new software in a company must be considered

Hitachi Zosen Inova AG (HZI) is a world-leading provider of energy from waste technology and acts as a partner for the engineering, procurement, and construction (EPC) of turnkey plants. In their role as a general contractor, they often work with numerous external organizations during a construction project. Consequently, a large amount of data from different sources must be managed. For that reason, the company seeks a standardizing solution that ultimately paves the way for enhanced digital site management.

During a previous analysis, conceivable candidates were already evaluated. Within this Bachelor Thesis, the most promising tool is now further investigated in order to elaborate a first concept regarding an implementation and first tests at HZI.

Approach: Due to the comprehensive business nature of an EPC contractor, the rollout of new software must be thoroughly planned. Therefore, the initial focus of the analyses lies on the environmental conditions at HZI. Starting with research on necessary preparatory steps to an overall software implementation, with the aim to create the appropriate mindset for this project. Subsequently, a suitable field of application for a first pilot is progressively narrowed down.

Based on these findings, the provider of the selected software is contacted in order to further evaluate its products and mode of function against the identified requirements of HZI.

Result: On the one hand, this thesis documents an approach on how to analyze the in-house data flow and how internal processes can be model before conducting a software pilot. On the other hand, by cooperating with the software vendor directly, initial clarifications regarding the implementation process are provided. Ultimately, this thesis proposes a possible pilot concept, under consideration of the vendor's conditions. The aim of the concept is customized to the gained insights during the previous analyses at HZI.

Due to the research within this paper, the complexity of such a project, especially in the construction industry and in larger companies, is revealed. It is identified that new digital construction solutions can incur large expenses. Hence, piloting a software beforehand and test it for suitability to purpose is highly recommended.

