

GOAL

The development of a toolset that automates a customer's configuration into production process recipes configuration.

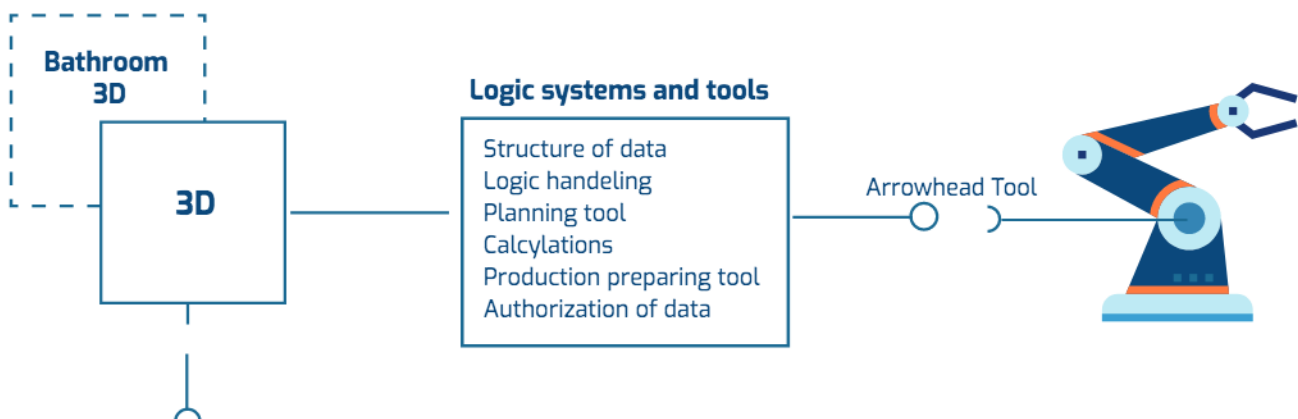
Challenge

The objectives are to revalidate current base line and target production costs, provide requirements for intended tools and the tool chain integration and provide training requirements for the LBB use case on "Production preparation tool chain integration".

Customer 3-D configuration of Bathrooms in flats is currently not existing on the market. Thus the intended innovation is to create a new tool enabling customer to have the opportunity to create her own Bathroom before seeing it in the real world. An important cost saving issue is automatic transformation of configuration data to production data that can be consumed by the involved manufacturing equipment. LQT will adapt tools and integrate the planned use case tool chain.

Tools for handling, structuring and converting 3D-data:

1. Bathroom 3D configurator.
2. Tool for transformation of 3D-drawings to production recipe.
3. Tool for robot configuration for the specific recipe production the Eclipse Arrowhead framework will be applied to retrofitted legacy equipment and tools.





Engineering Phases



Results

With a new scalable 3D-configurator and an internal system to handle the data Lundqvist Trävaru will be able to go to the market with the system, offering the different tools available to other companies.

The main target is the building industry - primarily to small and medium sized construction companies working with new construction.



Partner Data

lundqvist

Lundqvist has undergone a transformation from a traditional producer of wooden building components to one of the leading build-tech companies in Sweden. They have received several national awards for leading the Swedish industry into the new digital era; Smart Industry by The Royal Swedish Academy of Engineering Sciences and Sweden's Digital Gazelle Company by Dagens Industri (Sweden's largest economy newspaper).

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