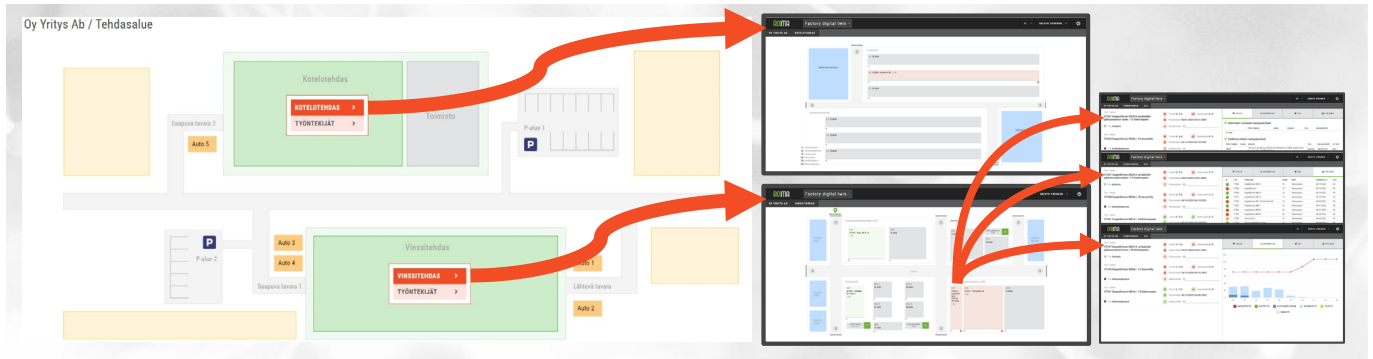


OSME Showcase: Factory Digital Twin

In today's fast-paced business environment, it is important to be able to monitor the status of your factory, its manufacturing process, and related resources in real time. It is essential to easily identify potential problem areas and drill down into the more detailed data associated with them.



Roima's **Factory Digital Twin** creates a real-time view of the factory or other business environments in an easy-to-understand visual format. The solution allows users to create visual models of the factory layout and present essential information in an illustrative graphic. This not only brings awareness of what's happening in your factory at any moment but gives you the ability to detect and react to deviations as early as possible.

Factory Digital Twin creates a whole **new way of using data** from ERP, MES, and WMS systems. The solution can be used to build a representation of a monitored business process or, for example, a factory in an **easy-to-understand and illustrative format**.

A production or manufacturing unit is **approached visually** from the layout perspective, which makes it easy to identify production lines and their components. For each line, piece of equipment, or machine shown, there is more detailed information available, both on the characteristics and key figures associated with the equipment as well as the jobs that are currently being performed or queued at the equipment.

Roima and Sandvik have a long history of cooperation in the area of production planning software and ERP. The OSME collaboration has enabled Sandvik to benefit from the results of this project and Roima to bring its well-known expertise into the OSME use cases.

The **next steps** are to add new features to the Factory Digital Twin based on the experiences from the manufacturing process. The experiences from Factory Digital Twin will also be utilized in the Supply Chain Control Panel solution, another project in planning within OSME.



Impacts:



- Improvement of decision-making process
- Decreased problem detection time
- Early mitigation of upcoming challenges

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