### trinity

### RAPID MAPPING OF A PRODUCTION SYSTEM IN A VIRTUAL ENVIRONMENT **PRODUCTION MANAGER VERSION**





# Purpose of the module

- in a virtual environment. The virtual model is created in a simulation program.
- testing different types of layout in the current layout, optimizing the production and performing offline testing.

The module presents a method for rapid mapping of a production system

The benefit of having a virtual copy of the physical production system is





# Hardware requirements

### Mobile robot

- Used to scan and create a map of the manufacturing environment
- A 3D camera can also be used for scanning of the environment https://academy.visualcomponents.com/lessons/importpoint-cloud/

•Computer





trinity ENGAGE WITH AGILE MANUFACTURING



### Software requirements

- Visual Components Premium
  - Simulation software used to create the digital twin model
- Scanning software from the mobile robot





### Visual Components







# Environmental requirements

- This module has no significant environmental requirements other than that the mobile robot can drive around the scanning area.
  - The mobile robot needs a flat and clean surface with no small parts on the floor.





### Integration

 This module creates a digital twin model of a production already existing environment and work as a support tool.

environment. The digital twin model can be integrated into an





### Thank you.

If you are interested in more tutorials on this module or other use cases, please follow the links in the use case lectures.









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