Siemens AG

Technology to Transform the Everyday

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March, 28th 2022
Leave no waste behind in construction industry

Problem definition: The construction industry has a highly resource (e.g. materials) and CO2 footprint. Reduction of waste and optimized re-use of waste are enabler to reduce sustainable footprints.

Waste-Challenge: What has to be done for minimizing waste and optimizing re-use and recycling? Data gathering and measurement, visualization and modeling to get the value chain transparent, the waste management predictive and optimized sorted towards a highly automated waste management plan per building/city.

Desired Impact: Sustainability: Reduction of waste and CO2 emission based on re-use. Resilience of supply chain based on re-use of materials.

Skills needed/recommended:
Understanding of waste management for construction industry due to pains, challenges and solutions. Technical capabilities for improvements of selected process steps based on digitalization. Ideas how to create a Mindmap of most important parameters and show first dependencies.

Relevant considerations for the challenge/theme:
Check today’s waste management due to challenges/pains/room for improvements. What are the most important parameters and functions to get transparency and prediction for optimized re-use and recycling.