

Project idea: Re-cycling of waste materials in leight metal construction processes

Contact

Company/Institution

AIT Austrian Institute of Technology

Contact person (Name & Position):

Matthias Prandtstetter, Thematic Coordinator Integrated Transport Optimisation

E-Mail:

matthias.prandtstetter@ait.ac.at

Telephone number:

+43 664 815 79 18



Project Description

During metal construction processes waste material is generated which can be re-cycled for further construction processes. If appropriately sorted the value of the re-cycled material can be significantly increased. The production processes as well as the waste collection processes can be adapted such that the sorted re-cycling of the material is simplified.

Project Objectives

- optimisation of collection tours of (sorted) waste material, esp. in leight metal construction
- development of holistic logistics chains, incl. optimisation of production sequences
- development of appropriate hardware (e.g., specialised containers, sorting machines, etc.)

Project idea: Re-cycling of waste materials in leight metal construction processes

Our know-how...

- profound knowledge of material characteristics and possible/allowed mixing ratios
- tour / route planning of collection vehicles
- scheduling and sequencing of collection points
- optimisation of pickup time depending on predictive analytics of filling grades of waste containers

We are looking for...

- application partners
- technology providers for, e.g., sorting machines, specialised transport containers, etc.
- everyone who can contribute to a significant story