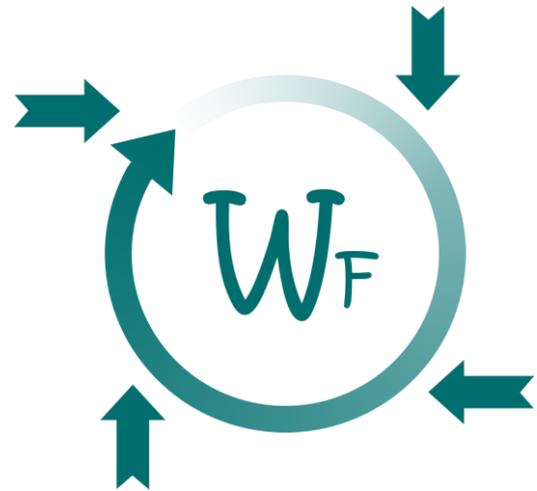


**ReWaste F
Recycling and Recovery of
Waste for Future**

Programme: COMET – Competence
Centers for Excellent Technologies

Programme line: COMET-Project

Type of project: ReWaste F, 04/21 –
03/25, multi-firm



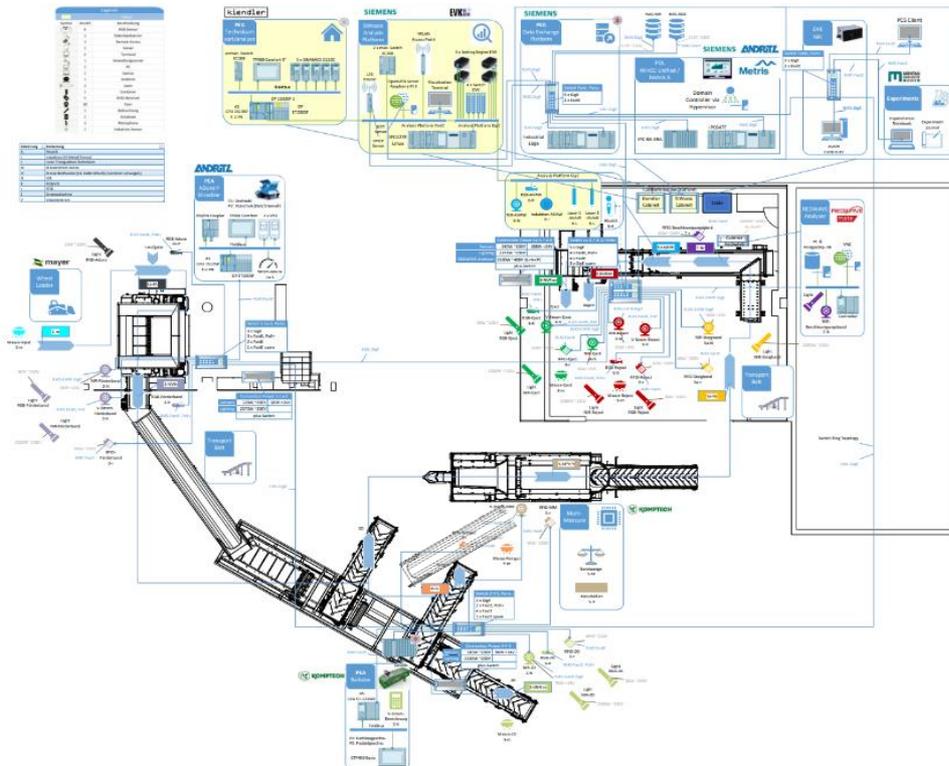
DIGITAL INFRASTRUCTURE OF AN INDUSTRY-SCALE PROTOTYPE OF A SMART WASTE FACTORY

THE COMPLEX DIGITAL INFRASTRUCTURE OF A PROTOTYPE SMART WASTE FACTORY HAS BEEN SUCCESSFULLY IMPLEMENTED AND FORMS THE BASIS FOR INTELLIGENT AUTONOMOUS DYNAMIC WASTE TREATMENT

The vision of a Smart Waste Factory describes a waste treatment plant that adapts autonomously to the constantly changing waste, machine behaviour and market conditions for the treatment products. Such a smart waste factory requires digitally adjustable machines, process understanding, data from sensors and optimisation algorithms. And just as the waste requires a physical infrastructure of machines and conveyor belts, the data requires a digital infrastructure - an infrastructure in which it reaches the right place in the right quality, at the right time, in the right format and with the right metadata (information about its origin and meaning).

For the prototype trial of a Smart Waste Factory (ReWaste Prototype) starting in March 2024, a similar data infrastructure and data processing concept was successfully developed and implemented in addition to an industrial-scale test infrastructure. Machines, sensors and digital platforms from several different manufacturers come together and communicate to optimise an autonomous, dynamic and intelligent waste treatment.

SUCCESS STORY



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Project coordination

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- FH Joanneum, AUT
- IUT Ingenieurgesellschaft Innovative Umwelttechnik GmbH, AUT
- KNOW-CENTER GmbH, AUT
- Komptech GmbH, AUT
- REDWAVE - a division of BT-Wolfgang Binder GmbH, AUT
- SIEMENS AG Austria, AUT
- Mayer Recycling GmbH, AUT
- Müllex-Umwelt-Säuberungs-GmbH, AUT
- Saubermacher Dienstleistungs AG, AUT
- TÜV SÜD Landesgesellschaft Österreich GmbH, AUT

This success story was provided by the consortium leader and by the mentioned project partners for the purpose of being published on the FFG website. Recycling and Recovery of Waste for Future is a COMET Project within the COMET – Competence Centers for Excellent Technologies Programme and funded by BMK, BMDW and the federal state of Styria. The COMET Programme is managed by FFG. Further information on COMET: www.ffg.at/comet