

COMET: K-Project

ReWaste4.0	
Recycling and Recovery of Waste 4.0	
Main location	Leoben – Montanuniversitaet Leoben, Styria
Other locations	Feldkirchen, Gleisdorf, Graz, Lannach, Retznei, St. Michael, Styria; Waidhofen an der Ybbs, Lower Austria; Vienna, Vienna; Münster, North Rhine-Westphalia (GER)
Research programme	<p>Further development of new Sorting, separation and shredding technologies</p> <p>Online/Ontime characterization of mixed waste</p> <p>Extraction of high quality (recycling and recovery) products or output streams for increasing the recycling rate of mixed wastes</p> <p>Determination of recycling rate for solid recovered fuel by its energy recovery in co-incineration plants</p> <p>Increasing the energy recovery rate for mixed waste.</p>
Planned realisation and outcomes	
Development of a future smart waste factory: Optimization and further development of mechanical sorting, separation and comminution techniques as well as contactless sensor based technology for sustainable and resource-oriented processing of mixed wastes. Additionally, new data sets, models and control programmes for equipment and their digitalised “networking and communication” based on “Industry 4.0 approach” will be developed.	
History of establishment	<p>Since 2010: Implementation of scientific projects with thematic relevance to ReWaste4.0 and development of a working group</p> <p>Mar. 2015 – Nov. 2015: Preparation of a pre-concept for the project</p> <p>Nov. 2015: Establishment of the project consortium</p> <p>Nov. 2015 – Apr. 2016: Preparation of the application “Rewaste4.0” and Submission</p>
Selected company partners (max. 10)	Selected scientific partners (max. 5)
<ol style="list-style-type: none"> Anton Mayer GesmbH BT-Wolfgang Binder GmbH, REDWAVE IFE Aufbereitungstechnik GmbH Ingenieurgemeinschaft Innovative Umwelttechnik GmbH Komptech GmbH Lafarge Zementwerke GmbH Saubermacher Dienstleistungs AG 	<ol style="list-style-type: none"> Montanuniversitaet Leoben, Chair of Waste Processing Technology and Waste Management
	Selected international partners ¹ (max. 5)
	<ol style="list-style-type: none"> University of Applied Sciences - FH Münster, IWARU Institute for Water Resources Environment
Start of the K-Project	01.04.2017 (4 years)
Number of personnel	10,8 (FTE) are involved (9,5 FTE are scientists)
Total costs	EUR 4.880.000
Leader of consortium:	Dr. Renato Sarc, Montanuniversitaet Leoben - Chair of Waste Processing Technology and Waste Management, Deputy of the Chair
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¹ Partners with headquarters outside Austria