## COMET: K-Project

### ReWaste4.0

**Recycling and Recovery of Waste 4.0**

<table>
<thead>
<tr>
<th>Main location</th>
<th>Leoben – Montanuniversitaet Leoben, Styria</th>
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<tbody>
<tr>
<td>Other locations</td>
<td>Feldkirchen, Gleisdorf, Graz, Lannach, Retznei, St. Michael, Styria; Waidhofen an der Ybbs, Lower Austria; Vienna, Vienna; Münster, North Rhine-Westphalia (GER)</td>
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### Research programme

- Further development of new Sorting, separation and shredding technologies
- Online/Ontime characterization of mixed waste
- Extraction of high quality (recycling and recovery) products or output streams for increasing the recycling rate of mixed wastes
- Determination of recycling rate for solid recovered fuel by its energy recovery in coincineration plants
- Increasing the energy recovery rate for mixed waste.

### 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

- Since 2010: Implementation of scientific projects with thematic relevance to ReWaste4.0 and development of a working group
- Mar. 2015 – Nov. 2015: Preparation of a pre-concept for the project
- Nov. 2015: Establishment of the project consortium
- Nov. 2015 – Apr. 2016: Preparation of the application “Rewaste4.0” and Submission

### Selected company partners (max. 10)

1. Anton Mayer GesmbH
2. BT-Wolfgang Binder GmbH, REDWAVE
3. IFE Aufbereitungstechnik GmbH
4. Ingenieurgemeinsch. Innovative Umwelttechnik GmbH
5. Komptech GmbH
6. Lafarge Zementwerke GmbH
7. Saubermacher Dienstleistungs AG

### Selected scientific partners (max. 5)

1. Montanuniversitaet Leoben, Chair of Waste Processing Technology and Waste Management

### Selected international partners (max. 5)

1. 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

The COMET Project is funded within COMET – Competence Centers for Excellent Technologies – by BMK, BMDW as well as co-financing federal provinces. The COMET programme is managed by FFG. >>

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