



Company presentation

Metall-Konzentrat und Recycling GmbH (Mekon)



(Co-ordinator) **I.A.R.** - Department of processing and recycling of solid waste material - **RWTH Aachen University** is one of the leading waste management and recycling technologies departments



MeKon Metall-Konzentrat und Recycling GmbH is a small company working in Salzgitter, Germany since September 2008 in the area of recycling of metals.



Founded in 1993, **TITECH** has pioneered the automation of waste sorting and is known as the world leader in this field.



pbo GmbH is a consulting company in waste management and waste processing technology.



Envirolink Northwest is an industry led , not for profit organisation supported by the Northwest Regional Development Agency (NWDA) and is based in the UK.



Company Profile:

MeKon GmbH – a dynamic, young, innovative company forging the way in batch-wise automatic separation of FE & NF metal products from waste using newly developed sensor sorting technologies

Founded as a limited Company in 2008

Located in Salzgitter, Germany

35 Staff

Main business areas in manual separation of metals from waste streams



Target of MeKon's activities:

- To separate out the valuable NF metals from the input material into separate clean fractions more effectively!
- Enrichment of FE containing residues from MSW processing plants
- To improve the output material to suit quality demands of European companies
- To make good business



**Input
material**



**Input
material**



**Hand sorted
fraction:
Copper**

First Workshop Aachen

Kate Hornsby

11th March 2010



**Hand sorted
fraction:
Brass**

First Workshop Aachen

Kate Hornsby

11th March 2010



**Hand sorted
fraction:
Aluminium**

First Workshop Aachen

Kate Hornsby

11th March 2010



Units in operation:

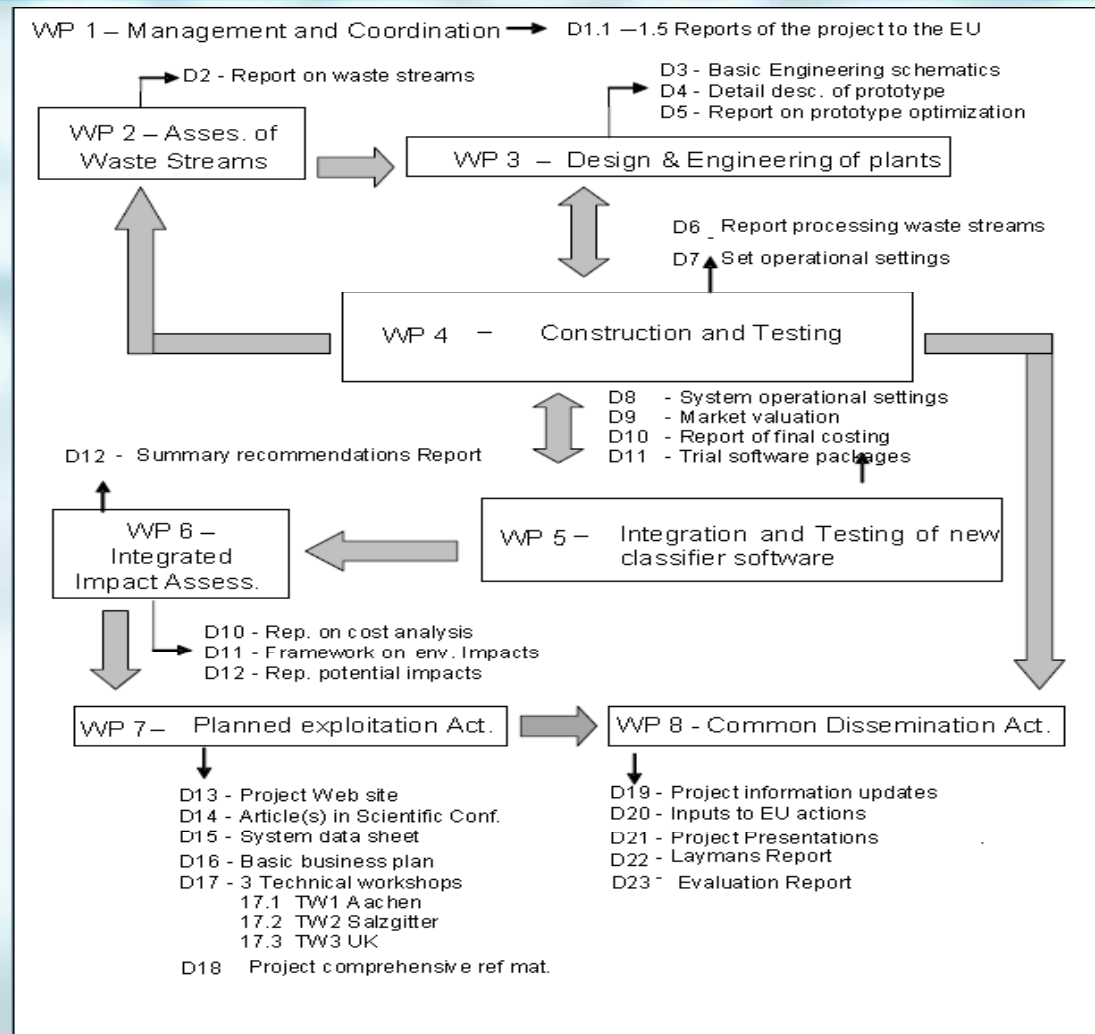
- Separation plant for 12,000 tonnes metal containing residues from MBT and commercial residue plants
- Existing plant was designed and built in co-operation with RWTH Aachen
- Input material varies considerably and consists of very dirty multi-component mixtures
- Installation of new Saturn separation plant with sensor sorting



- Role of MeKon in the EU Saturn project
 - Provision of Site for the new Saturn automatic sensor-sorting plants (Saturn)
 - Know-how and technical input to all 8 WPs
 - Construction of the plant in co-operation with partners
 - Optimisation and test runs
 - Constant operation to provide demonstration data and plant reliability profiles



- Saturn
Work plan





- WP1 Management & Coordination
- WP2 Assessment of waste Streams
 - Assessment of present waste streams as input for design parameters
- WP3 Design and Engineering of Plants
 - Assistance in implementation plan for 2 plants of 12,000 t/a and 25,000 t/a



- WP4 Construction and testing of the demonstration plant
 - Construction and installation of the Saturn sorting plant to run in parallel to the existing sorting plant
 - Test runs and optimisation
- WP5 Integration and testing of new classifier software
 - Participation of integration of sensor sorting and optimization strategies



- **WP6 Integrated Impact Assessments**
 - professional analysis of the correct product end mix in accordance with the world metal commodity market
- **WP 7 Planned Exploitation Activities**
- **WP8 Common Dissemination Activities**
 - Leyman's report and evaluation of project's impacts and success



Hall before
plant
installation at
MeKon

First Workshop Aachen

Kate Hornsby

11th March 2010



Saturn plant
installed at
MeKon

First Workshop Aachen

Kate Hornsby

11th March 2010



Main contact persons for SATURN:

Mr Werner Bartz & Mr Markus Bree

Metall-Konzentrat und Recycling GmbH

Heerter Straße 55

38229 Salzgitter-Heerte

Telefon 0049 5341 / 833 666 - 0

Telefax 0049 5341 / 833 666 - 9

Email: info@mekon-recycling.com



Thank you for your attention
For further information, please contact
me!

Kate Hornsby

hornsby@ifa.rwth-aachen.de

Official web site:

www.saturn.rwth-aachen.de