

# **Workshop: Recovery technologies for construction and demolition waste**

**16-17 November 2016**

**Vienna University of Technology  
Vienna, Austria**

## **Context**

The construction industry plays a leading role in improving the quality of the built environment, but its activities also impact on the wider environment in a number of ways, including waste production. Recent figures published by EUROSTAT reveal that construction and demolition activities in EU Member States generate 821 million tonnes waste, which equate to 33% of all waste generated in the EU. The introduction of regulations, the emergence of new technologies and practices in both waste disposal and recovery, and the rising tide of public awareness are all conspiring to change the face of construction and demolition waste (CDW) management.

## **Workshop scope**

The workshop, which is part of the EU COST Action CA15115: “Mining the European Anthroposphere (MINEA)”, will provide a comprehensive overview of innovative recovery and recycling technologies for CDW flows in buildings and infrastructure across European regions. It will also provide a unique opportunity to discuss and evaluate the current CDW recovery challenges and opportunities.

The workshop programme will include: keynote presentations, specialised sessions and oral presentations. Representative from universities, research centres, industrial organisations, public institutions and organisations, local governments and legislators are welcome to attend the workshop in order to share best practice recovery and recycling strategies and technologies related to CDW flows.

## Workshop programme

### Day 1: Wednesday 16<sup>th</sup> November 2016

9:00	<b>REGISTRATION</b>
9:30	<b>OPENING AND INTRODUCTION</b>
09:30	<b>Welcome and workshop overview</b> Mohamed Osmani (Loughborough University, UK)
09:40	<b>COST Action CA15115: Mining the European Anthroposphere (MINEA)</b> Ulrich Kral Vienna (University of Technology, Austria)
10:00	<b>KEYNOTE PRESENTATIONS</b>
10:00	<b>ZenRobotics waste sorting technologies.</b> Maciej Borkowski (ZenRobotics, Finland)
10:30	<b>Material Flow Analysis of stocks and flows to assess construction and demolition waste recovery potential</b> Clemens Deilmann (Leibniz Institute of Ecological Urban & Regional Development, Germany)
11:00	<b>Strategies for the recovery and recycling of raw materials from Construction and Demolition Waste: IRCOW and HISER projects</b> Amaia Lisbona (Tecnalia, Spain)
11:30	<b>COFFEE BREAK</b>
11:45	<b>Construction and demolition waste recovery assessment and optimisation</b> Mohamed Osmani (Loughborough University, UK)
12:15	<b>Recycling and closing the loop for gypsum products: The European Gypsum Industry circular economy approach</b> Christine Marlet (Eurogypsum, Brussels)
12:45	<b>Recycling of construction finishing work wastes</b> Hervé Grimaud (Recylum, France)
13:15	<b>LUNCH</b>
14:00	<b>BREAKOUT SESSION</b>
<b>Topic 1: Construction and demolition waste recovery challenges.</b> <b>Topic 2: Construction and demolition waste recovery enablers.</b> Session facilitator: Mohamed Osmani (Loughborough University, UK).	
15:30	<b>COFFEE BREAK</b>
16:00	<b>DEBATE</b> <b>The EC and Member States' actions and incentives to support the industry to achieve the Waste Framework Directive target to reuse, recycle and recover 70% (by weight) of construction and demolition waste by 2020.</b>
Panel members: Maciej Borkowski (ZenRobotics, Finland); Clemens Deilmann (Leibniz Institute of Ecological Urban and Regional Development, Germany); Amaia Lisbona (Tecnalia, Spain); Christine Marlet (Eurogypsum, Brussels); Hervé Grimaud (Recylum, France).	
17:00	<b>CLOSE OF DAY 1 ACTIVITIES</b>

## Day 2: Thursday 17<sup>th</sup> November 2016

**9:00** | **WELCOME AND DAY 2 PROGRAMME**

### Overview of Day 2 workshop activities

Mohamed Osmani (Loughborough University, UK)

**9:15** | **PLENARY PRESENTATION**

### On-site wet-screening of construction and demolition waste.

Christian Mlinar (Bernegger GmbH, Austria).

**9:45** | **SESSION 1: CONSTRUCTION AND DEMOLITION WASTE RECOVERY NATIONAL AND REGIONAL STRATEGIES**

### 9:45 New initiatives in Belgium to improve the current construction and demolition waste management practice and to develop innovative solutions.

Jeroen Vrijders (Belgian Building Research Institute, Belgium)

### 10:15 Construction and demolition waste management and recovery in Lombardy Region, Italy.

Sara Pantini (Politecnico di Milano, Italy).

**10:45** | **COFFEE BREAK**

**11:00** | **SESSION 2: CONSTRUCTION AND DEMOLITION WASTE RECOVERY TOOLS**

### 11:00 Clean-Way software facilitating construction and demolition waste recycling- real-time data to reach zero waste.

Krisztián Petrovski (Clean-Way Ltd, Hungary).

### 11:30 Dynamic Performance Assessment of the construction and demolition waste recovery policies.

Ibrahim Motawa (Heriot-Watt University, Scotland).

### 12:00 Computational framework for assessing the end-of-life performance of building materials

Lukman Akanbi (University of the West of England, England)

**12:30** | **WORKSHOP CLOSING REMARKS AND COST Action CA15115 (MINEA) NEXT STAGES**

Mohamed Osmani (Loughborough University, UK) and Ulrich Kral Vienna (University of Technology, Austria)

**13:00** | **LUNCH**