

22. January 2019

Subject: Program on Workshop “Knowledge base for anthropogenic resource and reserve estimates, with a focus on buildings & infrastructures, landfills, wastes from extractive industries and waste incineration residues, 24-25. January 2019, Czech Technical University in Prague.

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1 Context

Driven by environmental, economic and social benefits, material recovery from residues has started to gain increasing attention worldwide. Recovering secondary raw materials from land disposal and waste flows can provide a commercial viable source for material supply, even though primary raw materials from geogenic deposits will dominate future supply chains.

Managing the future raw material supply needs reliable, comparable and transparent estimates on the future production of raw materials. Therefore, the mining sector developed resource classifications in order to communicate “resources” and “reserves” to stock exchange markets, decision boards and governments. The term “resource” covers all material quantities that have been identified at the source, including those which cannot be extracted due to a lack of technology or uneconomic conditions. A “resource” can turn into a “reserve” when material quantities are technically, economically and legally extractable.

Since 2016, the COST Action “Mining the European Anthroposphere” brings together experts from academia, industry and government to initiate resource/reserve estimates of materials in land disposals and waste flows in Europe. The focus is on construction and demolition waste from buildings and infrastructure, residues from extractive industries, waste in landfills and residues from municipal solid waste incineration. It obvious that reliable and comparable numbers on resources/reserves can only be provided by a detailed resource assessment study, involving the characterization of material quantities at the source and the evaluation of the recoverability from a technical, economic, environmental, social and political point of view.

2 Workshop scope

This workshop is the kick-off event for developing a knowledge base for anthropogenic resource and reserve estimates. In the last 2 ½ years, the WGs collected and pooled knowledge in the field of resource assessments with a focus on selected material sources (construction and demolition waste from buildings and infrastructure, residues from extractive industries, waste in landfills and residues from municipal solid waste incineration) and on resource classification. This workshop pools existing knowledge and findings from the MINEA WG1-4 activities.

The workshop covers moderated interactive sessions, compiles the expert knowledge from the participants and streamlines the findings towards a comprehensive knowledge base.

The findings will be integrated into MINEA Memorandum of Understanding (MoU) Deliverable 2 and submitted to the COST Association in November 2019.

3 Expected outcome

- Purpose, structure and draft content of the knowledge base
- Initial draft structure of MoU Deliverable 2
- Roadmap for developing the knowledge base

4 Agenda

4.1 Overview and venue

Date	Time	Activity	Location
Thursday 24/01/2019	9:00 – 17:00	Workshop	Czech Technical University in Prague Mechanical engineering department Technická 4, 166 07 Praha 6 Google maps: https://goo.gl/maps/SZm4HEcaHug
	19:00	Dinner	Restaurace U Pětníka Lotyšská 645/8, 160 00 Praha 6, Goolge maps: https://goo.gl/maps/LenGrtuj8pT2
Friday 25/01/2019	9:00 – 12:00	Workshop	Czech Technical University in Prague Mechanical engineering department Technická 4, 166 07 Praha 6 Google maps: https://goo.gl/maps/SZm4HEcaHug
	12:00 – 13:00	Lunch	
	13:00 – 14:00	Core Group Meeting	

4.2 Detailed program

Thursday, 24th January 2019

	Session / topic	Presenter / Facilitator	Expected outcome
	Registration		
	Welcome		
09:00	5' Welcome and approval of the agenda	Dagmar	
09:05	15' Tour de table	all	
09:20	10' Workshop overview: Context, expected output, session overview.	Ulrich	
	Session 1: Setting the scene		
09:30	15' A knowledge base for anthropogenic resource and reserve estimates?	Ulrich / Soraya	Common understanding on the scene and terms.
09:45	30' Questions & answers	All	
10:15	15' <i>Break</i>		
	Session 2: Mission "Knowledge base"		
10:30	10' Instructions for interactive debate with guiding questions: <ul style="list-style-type: none"> What do we want to achieve? [Result] What is the purpose of the result? [Sense and purpose] For whom? [Target audience] How to measure the success? [Success criteria] 	Ulrich	Common understanding of our joint efforts until D2 submission.
10:40	30' Plenary session	all	
11:10	30' Group work	all	
11:40	1h Plenary session (10' for each WG, 20' synthesis)	Soraya	
12:40	1h 10' <i>Lunch (served in the workshop room)</i>		
	Session 3: Knowledge base for each WG		
13:50	10' Instructions for WG-specific discussion on guiding questions: <ul style="list-style-type: none"> Which system knowledge is available to estimate resources and reserves? Which target knowledge is needed to estimate resources and reserves? 	Ulrich	Initial Structure and draft content of the knowledge base.
14:00	1h 30' WG-specific discussion	all	
15:30	1h 30' Plenary session (15' for each WG, 30' synthesis and discussion)	Soraya	
17:00	<i>End</i>		
19:00	<i>Dinner</i>		

Friday, 25th January 2019

	Session / topic		Presenter / Facilitator	Expected outcome
	Session 1: D2 Report structure			
09:00	15'	Wrap up from day 1		Initial draft structure of MoU Deliverable 2
09:15	1h 25'	Developing report structure and converting the findings from day 1 into headings.	All	
10:40	20'	<i>Break</i>		
	Session 2: Roadmap for developing D2			
11:00	1h	Planning of activities until Nov 19 (stakeholder involvement, tasks, meetings etc.)		Roadmap for developing the knowledge base
12:00	1h	<i>Lunch (served in the workshop room)</i>		
13:00		<i>End</i>		
	Core Group Meeting (closed meeting)			
13:00	1h	4 th Grant Period Work Plan	Core Group	
14:00		<i>End</i>		

5 Local Organizer

Prof. Dr. Dagmar Juchelkova, Technical University of Ostrava.

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