



Title: Landfill mining trends and opportunities. Matchmaking event

Location: Day 1: [Palau Robert](#)
Day 2: [Clariana de Cardener landfill](#) trip

Date and time: 2 days, October 18th-19th
Day 1: ~ 9:00h to 17:00h
Day 2: ~ 8:30h to 17:00h

Organizers: [EIT Raw Materials-CoLocation Center South](#), [Wasteresource By-product Exchange of Catalonia](#) (Council of Catalan Chambers of Commerce)
[Waste Agency of Catalonia](#) (Agència de Residus de Catalunya)

Objective:

The objective of this seminar is to present and expand knowledge about landfill mining as a technique to support and encourage the transition towards a circular economy model, reducing the environmental impact of waste disposal, and fostering at the same time the material and the energy recovery from waste. The focus is on old urban and industrial landfills. It is aimed to make attendants know about some international and local experiences of landfill mining and the performance achieved.

Topics:

- Policy for landfill mining.
- Mapping and assessment of landfilled resources.
- Safety, material stability, risks, costs.
- Space reclamation: for increased service life of existing landfills or other land uses.
- Material recovery, costs and value.
- RDF and energy recovery.
- Fines and critical raw materials, including rare earth metals.
- Organic matter reduction and environmental impact: methane emissions, material stability.

Addressed to:

- Policy makers.
- Municipalities technicians.
- Waste management companies.
- Recycling and sorting technology companies.
- Landfill managers.
- Consulting companies.

Day 1: 18th Oct- Landfill Mining Conference

8:30 - 9:00 h	Registration for participants.
9:00 - 9:15 h	Welcome (Pere Casals , chairman of the Chamber of Commerce of Manresa and Josep Maria Tost , Catalan Waste Agency Director).
9:15 - 9:30 h	Laurence Lamm/Ignacio Calleja/Floriana LaMarca (EIT Raw Materials): <ul style="list-style-type: none"> ▪ EIT Raw Materials services and opportunities. ▪ EIT Raw Materials innovation in processing and recycling.



<p>9:30 - 11:00 h</p>	<p>Session 1: Landfill mining potential</p> <p><u>Identified Topics:</u></p> <ul style="list-style-type: none"> ▪ Current situation, potential future, regulations, planning, policy, instruments and strategies to foster of landfill mining in Europe. ▪ Organic matter reduction and environmental impact: methane emissions, material stability. ▪ Mapping and assessment of landfilled resources. ▪ Land reclamation: for increased service life of existing landfills or other land uses. ▪ Fines and critical raw materials, including rare earth metal and stocks anthropogenic. <p><u>Speakers:</u></p> <ul style="list-style-type: none"> ▪ Maria Calaf – Researcher ENT ▪ Ives Tielemans – Working Group leader Eurelco ▪ Eddy Wille – Senior Advisor at OVAM <p><u>Moderator:</u> Lorena Jurado, Wasteresource service director</p> <p>The session consists in ~20 min presentations for each speaker and ~30 minutes debate (roundtable and Q&A)</p>
<p>11:00 - 11:30 h</p>	<p>Coffee break</p>
<p>11:30 - 13:00 h</p>	<p>Session 2: Landfill mining operation.</p> <p><u>Identified Topics:</u></p> <ul style="list-style-type: none"> ▪ Main available technologies for the resource extraction from landfills, cost estimation and environmental assessment. ▪ Material recovery, costs, value and assessment of landfilled resources, RDF and energy recovery, ICT & Landfill mining. ▪ Safety, material stability, risks, costs. ▪ Landfill structure, composition, recoverable wastes and selection criteria for the application of landfill mining techniques. ▪ Fines and critical raw materials, including rare earth metals. <p><u>Confirmed Speakers:</u></p> <ul style="list-style-type: none"> ▪ Ángel Martínez – Senior Engineer Landfill Department Ferroviai Servicos ▪ Reinhard Göschl – CEO at the LuT Group Austria ▪ Roberto Raga – Industrial Engineering Department Università di Padova ▪ Kai Münnich – Department Leader at TU Braunschweig (TBC) <p><u>Moderator:</u> Josep Simó, Area of Infrastructures Director in Waste Agency of Catalonia</p> <p>The session consists in ~20 min presentations for each speaker and ~30 minutes debate (roundtable and Q&A)</p>
<p>13:00 - 14:15 h</p>	<p>Networking lunch</p>



14:15 - 16:45 h	<p>Session 3: Flagship initiatives (context, used technologies, results, cost and environmental balance)</p> <p><u>Identified Initiatives:</u></p> <ul style="list-style-type: none"> ▪ First Landfill Mining Trials in Clariana de Cardener, Catalonia. ▪ Greece, LIFE+RECLAIM Landfill mining in Polygyros site. ▪ Belgium, Remo Landfill (closing the cycle project). ▪ Smartgorund H2020 project <p><u>Confirmed Speakers:</u></p> <ul style="list-style-type: none"> ▪ Francesc Giró – Director of strategic planning at the Waste Agency of Catalonia ▪ Veronika Andrea – Head of Environmental Communication HELECTOR. ▪ Yves Tielemans – Business Unit Manager at Group Machiels ▪ Elisabet González – Innovation Responsible at Ferrovial Servicios ▪ Marco de la Feld – Smart Ground Project Leader (TBC) <p><u>Moderator:</u> TBC</p> <p>The session consists in ~20 min presentations for each speaker and ~30 minutes debate (roundtable and Q&A)</p>
16:45 – 17:00	Wrap up and conclusions.

Day 2: 19th Oct - Clariana de Cardener Landfill Trip

8:30 - 10:45 h	Bus transfer from Barcelona city center to Clariana de Cardener
10:45 - 11:00 h	Welcome to the landfill by local authorities
11:00 - 12:00 h	Introductory session
12:00 - 13:30 h	Visit and group discussion (in 2 groups)
14:00 – 17:00 h	Bus transfer from Clariana de Cardener to Barcelona city center.

Location: day trip to [Clariana de Cardener landfill](#)
Limited capacity (40), confirmation needed, upon availability.

Information for participants:

- Bus transfer for day 2 visit included
- Breakfast & Lunch pack for day 2 included
- Language:
Day 1: English, with Catalan and Spanish simultaneous translation available.
Day 2: English, Catalan, no translation.

TBC: to be confirmed.

Last update: September 20th, 2017