EU Training Network for Resource Recovery through Enhanced Landfill Mining

Fact Sheet

Project Information

**NEW-MINE**

Grant agreement ID: 721185

Closed project

<table>
<thead>
<tr>
<th>Start date</th>
<th>End date</th>
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<tr>
<td>1 September 2016</td>
<td>31 August 2020</td>
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Funded under H2020-EU.1.3.1.

Overall budget € 3,836,165,55

EU contribution € 3,836,165,55

Coordinated by KATHOLIEKE UNIVERSITEIT LEUVEN Belgium

Objective

Europe has somewhere between 150,000 and 500,000 landfill sites, with an estimated 90% of them being “non-sanitary” landfills, predating the EU Landfill Directive of 1999. These older landfills tend to be filled with municipal solid waste and often lack any environmental protection technology. In order to avoid future environmental and health problems, many of these landfills will soon require expensive remediation measures. This situation might appear bleak, but it does present us with an exciting opportunity for a combined resource-recovery and remediation strategy, which will drastically
reduce future remediation costs, reclaim valuable land, while at the same time unlocking billions of tonnes of valuable resources contained within these landfills. However, the widespread adoption of Enhanced Landfill Mining (ELFM) in the EU, as envisaged by NEW-MINE, urgently requires skilled scientists, engineers, economists and policy makers who can develop cost-effective, environmentally friendly ELFM practices and regulatory frameworks. All this demands a European commitment to concerted, inter- and transdisciplinary research and innovation. The NEW-MINE project trains 15 early-stage researchers (ESRs) in all the aspects of landfill mining, in terms of both technological innovation and multi-criteria assessments for ELFM. The technological innovation follows a value-chain approach, from advanced landfill exploration, mechanical processing, plasma/solar/hybrid thermochemical conversion and upcycling, while the multi-criteria assessment methods allow the ESRs to compare combined resource-recovery/remediation ELFM methods with the “Do-Nothing”, “Classic remediation” and “Classic landfill mining with (co-)incineration” scenarios. By training the ESRs in scientific, technical and a range of soft skills, all based on a collaboration involving EU-leading institutes, they become highly sought-after scientists and engineers for the rapidly emerging ELFM and recycling industries.

**Fields of science**

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Programme(s)

Topic(s)

**Call for proposal**

H2020-MSCA-ITN-2016
### Funding Scheme

#### Coordinator

<table>
<thead>
<tr>
<th>KATHOLIEKE UNIVERSITEIT LEUVEN</th>
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<tbody>
<tr>
<td><strong>Address</strong></td>
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<tr>
<td>Oude Markt 13, 3000 Leuven</td>
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<tr>
<td>Belgium</td>
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**Website** [Link](#)  
**Contact the organisation** [Link](#)

#### Participants (9)

<table>
<thead>
<tr>
<th>RHEINISCH-WESTFAELISCHE TECHNISCHE HOCHSCHULE AACHEN</th>
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<tr>
<td><strong>Address</strong></td>
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<tr>
<td>Templergraben 55, 52062 Aachen</td>
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<td>Germany</td>
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**Website** [Link](#)  
**Contact the organisation** [Link](#)

<table>
<thead>
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<th>UNIVERSITEIT GENT</th>
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<tr>
<td><strong>Address</strong></td>
</tr>
<tr>
<td>Sint Pietersnieuwstraat 25, 9000 Gent</td>
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<td>Belgium</td>
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**Website** [Link](#)  
**Contact the organisation** [Link](#)

<table>
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<tr>
<th>MONTANIVERSITAET LEOBEN</th>
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<tbody>
<tr>
<td><strong>Address</strong></td>
</tr>
<tr>
<td>Franz Josef Strasse 18, 8700 Leoben</td>
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<tr>
<td>Austria</td>
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**EU contribution** € 255,934.08

**Website** [Link](#)  
**Contact the organisation** [Link](#)
<table>
<thead>
<tr>
<th>Organisation</th>
<th>Country</th>
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<th>Address</th>
<th>Activity Type</th>
<th>Website</th>
<th>Contact the organisation</th>
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<tr>
<td>UNIVERSITA DEGLI STUDI DI PADOVA</td>
<td>Italy</td>
<td>€ 258 061,32</td>
<td>Via 8 Febbraio 2 35122 Padova</td>
<td>Higher or Secondary Education</td>
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<td>€ 375 737,91</td>
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<td>€ 373 517,37</td>
<td>Campus Valla 581 83 Linkoping</td>
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<td>€ 417 460,59</td>
<td>Brinellvagen 8 100 44 Stockholm</td>
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</table>
RENEWI VALORISATION & QUARRY
Belgium
EU contribution
€ 250 560
Address
Gerard Mercatorstraat 8
3920 Lommel
Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)
Contact the organisation

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€ 258 061.32
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Activity type
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(excluding Higher or Secondary Education Establishments)
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SCANARC PLASMA TECHNOLOGIES AB
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Activity type
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Activity type
Private for-profit entities
(excluding Higher or Secondary Education Establishments)
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<tr>
<th>Country</th>
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<td>Hans-hruschka-gasse 9, 2325 Himberg</td>
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<td>Germany</td>
<td>Braunswerth 1-3, 51766 Engelskirchen</td>
<td>Public bodies (excluding Research Organisations and Secondary or Higher Education Establishments)</td>
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<tr>
<td>Belgium</td>
<td>Prinsstraat 13, 2000 Antwerpen</td>
<td>Higher or Secondary Education Establishments</td>
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Contact the organisation
CRANFIELD UNIVERSITY
United Kingdom

Address
College Road
MK43 0AL Cranfield -
Bedfordshire

Activity type
Higher or Secondary
Education Establishments

Website
Contact the organisation

Last update: 5 May 2021
Record number: 205545

Permalink: https://cordis.europa.eu/project/id/721185

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