



EU TRAINING NETWORK FOR RESOURCE RECOVERY THROUGH ENHANCED LANDFILL MINING

European Training Network for Resource Recovery Through Enhanced Landfill Mining (NEW-MINE)

D6.7 - Policy Brief/Newsletter 1



EU Training Network for Resource Recovery Through Enhanced Landfill Mining



Newsletter



The NEW-MINE Newsletter is integrated in the Newsletter of the EURELCO Mother Network, which provides monthly updates on general EURELCO evolutions and on the specific EURELCO-based projects (NEW-MINE, COCOON etc.).

This Newsletter also provides regular Enhanced Landfill Mining Policy Brief sections, where the policy aspects of ELM are investigated and where suggestions to Policy Makers are provided.

The EURELCO Newsletters can be downloaded through:
<https://www.eurelco.org/newsletter>

You can register for this EURELCO-NEW-MINE Newsletter [here](#).

NEW MINE IS AN EURELCO BASED PROJECT



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This project has received funding from the European Union's EU Framework Programme for Research and Innovation Horizon 2020 under Grant Agreement No 721185

Public

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Date:

[2-08-2017]



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D6.7 - Policy Brief/Newsletter 1

As stated in the Annex 1 and the NEW-MINE project communication strategy, periodic newsletters are sent as part of the overarching EURELCO-network. In this way, the impact of the dissemination on the medium-long term is ensured and contacts with new potential stakeholders are maintained. Generally, the newsletters are sent every 3 to 4 months; special editions can feature important announcements, news or events.

The newsletters contain:

- Various **news** items, including updates of the most relevant news in the field of ELFM;
- **Policy brief sections**, containing targeted information for policy makers (e.g. ERECON report);
- Information on related **projects** like NEW-MINE; and
- Brief **announcements** and upcoming **events**.

A master database is developed to keep track that each newsletter is addressed to the right audience. By August 2017, over 786 persons and institutions receive the EURELCO newsletters. All newsletters can be found online: new-mine.eu/communications/newsletter/ (and/or www.eurelco.org/newsletter).

Below, an overview is given of the table of content per newsletter of all newsletters published in the first year of the NEW-MINE project (September 2016 till August 2017).

Newsletter #10 (September 2016).....	4
Newsletter #11 (October 2016)	4
Newsletter #12 (March 2017)	4
Newsletter #13 (March 2017)	4
Newsletter #14 (April 2017).....	4
Newsletter #15 (April 2017).....	4
Newsletter #16 (May 2017)	4
Newsletter #17 (June 2017)	4



Newsletter #10 (September 2016)

15 PhD students selected for EU H2020 MSCA-ETN NEW-MINE

Newsletter #11 (October 2016)

EURELCO wins Interreg Europe project COCOON on landfill management

Newsletter #12 (March 2017)

1. EURELCO: 5th General Assembly
 - 1.1 NEW-MINE: Successful kick-off & Locals event
 - 1.2 COCOON: First partner meeting
2. Policy brief: EU ELFM Action Plan
3. Publication in the spotlight
4. Save the date for ELFM IV: 5-6 FEB. 2018

Newsletter #13 (March 2017)

BREAKING NEWS European Parliament votes YES to include "Enhanced Landfill Mining" in the EU Landfill Directive

Newsletter #14 (April 2017)

ELFM IV SYMPOSIUM Mechelen (Belgium) February 5 - 6, 2018: Call for extended abstracts now open

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Newsletter #16 (May 2017)

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 - 1.1 NEW-MINE: "Not just another brick" video
 - 1.2 COCOON: call for stakeholders in LfM policy
 - 1.3. RAWFILL: kick-off on June 7, 2017, in Liege
2. Publication in the spotlight
3. Summer school: digitising the circular economy

Newsletter #17 (June 2017)

ELFM IV SYMPOSIUM Mechelen (Belgium) February 5 - 6, 2018: Deadline extension for submission of abstracts for ELFM IV (June 15, 2017)



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EURELCO Newsletter #10 - September

2016



15 PhD students selected for EU H2020 MSCA-ETN NEW-MINE

On 6 September 2016 the official **recruitment event** took place in Leuven for EU Horizon 2020 MSCA-ETN **NEW-MINE**, the [first ever Horizon 2020 project dealing with Enhanced Landfill Mining](#). From an initial list of 182 eligible NEW-MINE candidates, **29 were preselected** for the Recruitment Event where they were interviewed by **20 NEW-MINE Supervisors**.

After a lengthy deliberation the Recruitment Committee selected the **15 winning candidates**, who are set to start their research around **November 2016**. No positions were left open. The official **kick-off meeting** will take place in Leuven on 7 February 2017. The meeting will be combined with a General Assembly meeting of the [EURELCO](#) network.

PARTNER

PROJECT



Merger Shanks and Van Gansewinkel

Our partner Shanks forms a new **European waste collection and recycling alliance** with Van Gansewinkel. Both companies have signed a preliminary agreement. It is expected that the potential merger could be completed **before the end of this year**.

[Read the article here >](#)



Hot-stage design of plasmastone

PLASMAT is a Flemish funded project targeting the conversion of excavated landfilled waste into a **clean plasmastone slag** that is upcycled to high added value **building materials** and integrates a Waste-to-Materials focus with APP's Waste-to-Energy approach.

[Learn more about the project >](#)

DISSEMINATION

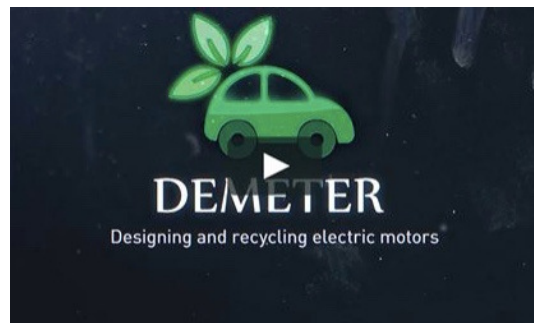
VIDEO



Paradigms on landfill mining

EURELCO researchers from the **Nordic & Baltic countries** published an excellent review paper on the historical evolution of landfill mining paradigms. The paper addresses both **economic feasibility** and **ecosystems revitalisation aspects**.

[Read the paper here >](#)



Animation film on recycling HEVs

The DEMETER project aims to develop **eco-friendly recycling methods** for the present generation of HEVs while also **developing novel motor designs** (based on Design-for-Reuse/Recycling) for the new generation of HEVs.

[Enjoy the video >](#)

EVENTS

19/09/2016 - 21/09/2016: ISWA World Congress, Serbia

22/09/2016 - 23/09/2016: Workshop on material recovery from landfills, Serbia

08/11/2016 - 11/11/2016: Recy & DepoTech, Austria

21/11/2016 - 23/11/2016: 10th Eco-Tech conference, Sweden

03/04/2017 - 05/04/2017: 5th International Slag Valorisation Symposium, Belgium

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2016

EURELCO Newsletter #11 - October

**Interreg
Europe**

European Union | European Regional Development Fund

EURELCO wins Interreg Europe project COCOON on landfill management

EURELCO is delighted to announce that on the 5th of October 2016 the Interreg Europe project COCOON was officially approved. Following the granting of EU Horizon 2020 [NEW-MINE](#), this is **the second flagship EURELCO project**, corroborating the increasing attention for (enhanced) landfill management and mining. The Interreg Europe project COCOON on policy of Landfill Management is coordinated by i-Cleantech Flanders and unites **8 partners from 6 EU regions**. With a budget of **1,4 million euro** the COCOON partners will improve **regional policy on Landfill Management** in 6 regions, starting from existing regional legislation, and learn from the best practices and lessons learned in the other regions. Working with a regional stakeholder group on the development of the policy will enhance the implementation of the policy.

[Read the whole article >](#)

PARTNER

**Danish delegation visited Flanders**

PROJECT

**INSPIRE**

Flanders in October. The aim of the study was to obtain **more information and ideas on Landfill Mining** based on experiences from the different partners in the Region of Flanders.

[Read the report here >](#)

full range of wastes currently in **UK waste repositories** including industrial and commercial waste, incinerator and fuel ash, mineral and municipal wastes.

[Learn more about the project >](#)

DISSEMINATION



Climate impact of landfill mining

The colleagues of **TU Wien** and EURELCO partner **Linköping University** have published a **milestone landfill mining paper** with the investigation of the critical factors for the climate impact of landfill mining projects. Circumstances and sensitive parameters are highlighted.

[Read the paper here >](#)

EVENT



General Assembly EURELCO

The next General Assembly of EURELCO will be held on the **6th of February** in Greenville, Belgium. The programme includes a visit to the **REMO landfill**, a presentation of the **NEW-MINE consortium** and an **event with the locals**. The official invitation will follow soon.

[Save the date in your agenda](#)

EVENTS

08/11/2016 - 11/11/2016: Recy & DepoTech, Austria

21/11/2016 - 23/11/2016: 10th Eco-Tech conference, Sweden

03/04/2017 - 05/04/2017: 5th International Slag Valorisation Symposium, Belgium

28/05/2017 - 31/05/2017: The 2nd Conference on European Rare Earth Resources, Greece

[More information >](#)




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 - 1.2 COCOON: First partner meeting
2. Policy brief: EU ELFM Action Plan
3. Publication in the spotlight
4. Save the date for ELFM IV: 5-6 FEB. 2018

1. EURELCO: 5TH GENERAL ASSEMBLY IN BELGIUM (06-02-2017)

On February 6, 2017 the 5th General Assembly of EURELCO took place in Houthalen (Belgium), which was attended by **80 participants from 13 EU Member States**. Guest speaker was Belgian Member of the European Parliament (MEP) Hilde Vautmans. The **newly initiated EU projects** ETN NEW-MINE and Interreg Europe COCOON were presented. An outlook for the **future functioning of EURELCO** was presented. **New project concepts** were discussed in breakout sessions. The General Assembly was concluded with a **unique event** in which the EURELCO/ETN NEW-MINE researchers went in dialogue with the “locals” living in the vicinity of the Remo landfill site in Houthalen. This event, which was attended by 60 participants, led to an agreement to

[Check out all presentations >](#)

1.1 NEW-MINE: SUCCESSFUL KICK-OFF & LOCALS EVENT



The **MCSA-ETN NEW-MINE** kick-off event took place on February 6-8, 2017 in Houthalen and Leuven. The event included the EURELCO General Assembly, a unique “Locals” event, the formal project kick-off meeting and an IP soft-skills training for the **newly recruited Early Stage Researchers (ESRs)**.

[More information about NEW-MINE >](#)

1.2 COCOON: FIRST PARTNER MEETING ON FEBRUARY 7, 2017

The first partner meeting of the Interreg Europe COCOON project took place at OVAM in Mechelen, Belgium. COCOON's objective is to develop, integrate and improve **relevant policy instruments**, while increasing subsidies through operational programmes (OPs) for **landfill management and mining**.

[More information about COCOON >](#)



2. POLICY BRIEF: EU ELFM ACTION PLAN

On February 6, 2017, **Hilde Vautmans, Belgian Member of the European Parliament**, launched her ambitious ELFM Action Plan for Europe, which targets distinct policy activities. The launching of the Plan received **major press attention**. Curious about the



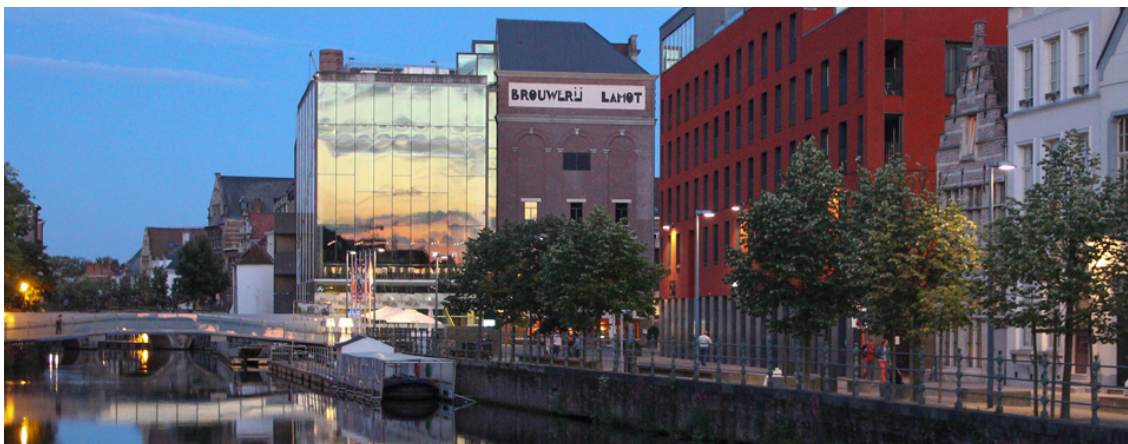
3. PUBLICATION IN THE SPOTLIGHT

Devin Sapsford and colleagues from the University of Cardiff have just published an original research article in the Journal of Sustainable Metallurgy. **In Situ Resource recovery from Waste Repositories:** exploring the Potential for Mobilization and Capture of Metals from Anthropogenic Ores.

[Read the publication >](#)



4. ELFM IV SYMPOSIUM ON FEBRUARY, 5-6, 2018 IN BELGIUM



Following the successful Enhanced Landfill Mining Symposia in 2010 (Houthalen), 2013 (Houthalen) and 2016 (Lisbon), EURELCO and ETN NEW-MINE are delighted to announce that the **4th International Symposium on Enhanced Landfill Mining** will take place on February 5-6, 2018, in Conference Centre Lamot (Mechelen, Belgium).

[Check out ELFM I, II and III Symposia >](#)



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EURELCO Newsletter #13 - March 2017

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BREAKING NEWS

European Parliament votes YES to include "Enhanced Landfill Mining" in the EU Landfill Directive

On March 14, 2017, the European Parliament voted about its position with respect to the on-going revision of EU Waste Policy. The so-called "Waste Package" concerns the adaptation of four EU Directives, including the Landfill Directive. For the first time ever, this Landfill Directive is now to include a specific reference to "Enhanced Landfill Mining".



On March 14, 2017, the European Parliament voted about its position with respect to the on-going revision of EU Waste Policy. The so-called "**Waste Package**", which concerns a

Package" concerns the adaptation of four EU Directives, including the Landfill Directive (i.e. Directive 1999/31/EC), i.e. the Directive which regulates waste management of landfills in the European Union and which overall aim is **"to prevent or reduce as far as possible negative effects on the environment**, in particular the pollution of surface water, groundwater, soil and air, and on the global environment, including the greenhouse effect, as well as any resulting risk to human health, from the landfilling of waste, **during the whole life-cycle of the landfill"**.

Old Landfill Directive

Although the environmental protection goal of the original EC Landfill Directive (1999/31/EC) is of course of key importance, the problem with this Directive is that it still considers landfills as static "end stations" of deposited waste. Landfills are perceived as a source of pollution, a problem that should be capped, contained and monitored in view of eco-protection. The fact that Europe's landfills may harbour vast amounts of untapped resources is not enshrined in this version of the Directive. As a result, until today there is no explicit regulatory framework for ELFM in EU legislation. This causes multiple challenges and uncertainties for private actors who want to perform ELFM investments and projects.

Enhanced Landfill Mining in the new Landfill Directive

With the EP vote of March 14, 2017, this is now about to **change**. For the first time ever, this Landfill Directive is now to include a specific reference to "Enhanced Landfill Mining". In Article 5, the following paragraph has been added:

"The Commission shall further examine the feasibility of proposing a regulatory framework for enhanced landfill mining so as to permit the retrieval of secondary raw materials that are present in existing landfills. By 31 December 2025 Member States shall map existing landfills and indicate their potential for enhanced landfill mining and share information."

The justification for this change is that Enhanced Landfill Mining does not only enable the recovery of valuable materials which can be brought back into the cycle, but also allows for recovering land area, taking into account that a large part of the EU's 500.000 historic landfills are situated in a (semi-) urban environment.



ELFM Seminar European Parliament

This official recognition of the relevance of ELFM in the Landfill Directive is the **result of the concerted efforts of several Belgian Members of the European Parliament, incl. Hilde Vautmans and Mark Demesmaeker**. Since 2015 they have been cooperating with the European Enhanced Landfill Mining Consortium ([EURELCO](#)), a non-profit network that supports the required technological, legal, social, economic, environmental and organisational innovation with respect to Enhanced Landfill Mining within the context of a transition to a resource efficient, circular, low-carbon economy.

In **October 2015** Belgian Members of the European Parliament Hilde Vautmans and Mark Demesmaeker organised the **First Ever ELFM Seminar in the European Parliament together** with EURELCO. One of the key outcomes of that ELFM Seminar, which was attended by **85 participants incl. key EC and EP Members**, was a number of [shared conclusions](#), including the need to develop sound inventories of the landfills in the EU-28 as well as the need to develop a more comprehensive long-term vision for the future management and rehabilitation of Europe's 500,000+ landfills.



EURELCO in Houthalen, Belgium, on **February 6, 2017**. In this Action Plan Hilde Vautmans promised to formally establish an **"EU Parliamentary Working Group on Landfill Mining"** and to organise the **Second ELFM Seminar in the European Parliament (February 7, 2018)**. In this follow-up seminar the goal is to review the Landfill/Waste Directives in the context of EC Circular Economy Package and to mobilise the EU Cohesion Funds for the implementation of specific ELFM projects in EU Member States. The accepted ELFM Paragraph in Article 5 of the to be revised Landfill Directive represents a **first milestone** in the realisation of Vautmans' Action Plan.

Next steps for the EP's Waste Package

In order to become officially part of the revised EU Landfill Directive, the European Council now needs to agree with the EP's Waste Package. If not, then negotiations are set to start to revise the EP proposal. In all cases, **ELFM is set to be integrated in one way or another in the new EU Landfill Directive**.

More information?

Visit [EURELCO](#) & [General Assembly of 2017](#)

[EU ELFM Action Plan](#) (February 2017)

[Report on the 1st ELFM Seminar in the European Parliament](#) (October, 2015)



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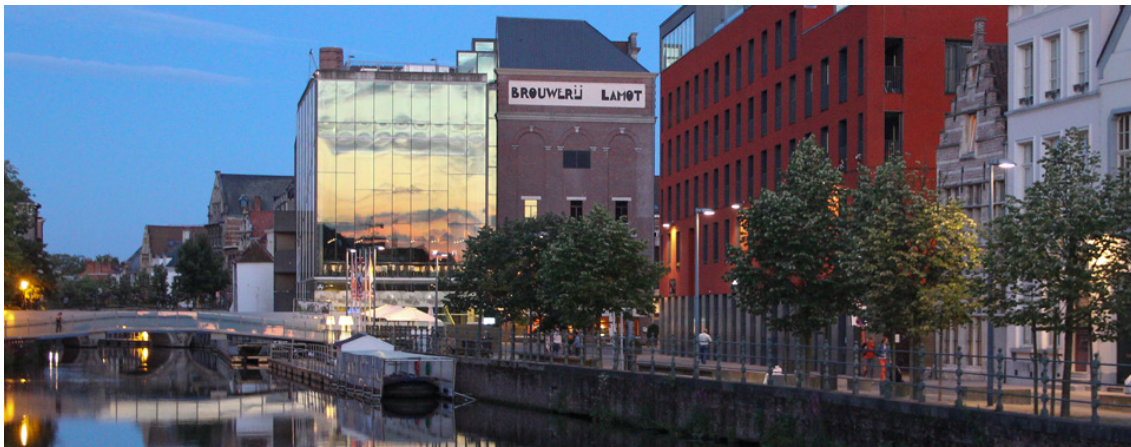
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ELFM IV SYMPOSIUM

Mechelen (Belgium)

February 5 - 6, 2018



Call for extended abstracts now open - We welcome your contributions

We are delighted to announce that the **call for extended abstracts for the *Fourth Symposium on Enhanced Landfill Mining* is now open** (see [website link here](#)). ELFM IV will take place in Conference Centre LAMOT, Mechelen-Belgium (February 5-6, 2018) and will be followed by the Second ELFM Seminar in the European Parliament (February 7, 2018).

Invited & Regular Speakers

ELFM IV provides the floor to a host of both Invited Speakers (with keynote lectures/papers) and **Regular Speakers (through the present [call for extended abstracts](#))** to shed light on the recent progress in both the technological and non-technological aspects of ELFM within the wider circular economy context. Several [Invited Speakers](#) provide review/position papers on the status of key ELFM domains, such as geophysical methods for landfill exploration, state-of-the-art sorting technologies, solar and plasma gasification, multi-criteria assessment results of ELFM projects etc. As such

specific case-study reports.

ELFM IV Sessions

The Symposium consists of four major sessions:

1. Geophysics, remediation and (pre)processing technologies
2. Thermal valorisation technologies
3. Upcycling technologies
4. Multi-criteria assessment

Call for extended abstracts (for Regular Speakers)

By **May 30, 2017**, both Oral Presenters and Poster Presenters are invited to submit a [one-page extended abstract](#) (max. 2,500 characters, incl. spaces) through the **INDICO electronic form** provided [here](#). Presenters indicate the Session they want to be involved in ([see list of Sessions/Topics here](#)) and indicate if they want to present orally and/or through a Poster. Participants will be notified about their contribution by June 30, 2017 (decision: 1. Oral Presentation, 2. Poster Presentation, or 3. Not Accepted – decision made by the Scientific Committee).

Papers

All accepted Presenters (both Oral and Poster Presenters) are then invited to provide a 6-page paper in A4 format by November 10, 2017, which will be published in the official Symposium Proceedings together with the papers of the keynote speakers. The standard paper template will be provided in the near future. **Strict adherence to the paper guidelines (e.g. figure/table caption and reference style) is obligatory.** Submission of the manuscript is to be performed through the on-line submission tool.

Kind regards,

Peter Tom Jones, for the ELMF IV [Organising Committee](#)



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1. EURELCO: Interreg RAWFILL approved
 - 1.1 NEW-MINE: new video launched
 - 1.2 COCOON: second partner meeting
2. Policy brief: ELFM conditions in Sweden
3. Publication in the spotlight
4. ELFM IV symposium: call for papers

1. EURELCO: EU INTERREG RAWFILL PROJECT APPROVED

EURELCO is happy to announce that on the 16th of March 2017 the Interreg North-West Europe Project (NWE 377) RAWFILL was officially approved. Following the granting of EU Horizon 2020 [NEW-MINE](#) and the Interreg Europe project [COCOON](#), this is **EURELCO's third flagship project**. RAWFILL is coordinated by SPAQuE and unites **8 partners from 4 EU regions**. With a budget of 3.8 M€ (2.28 M€ – ERDF funding) the RAWFILL partners provide knowledge and tools to screen landfills, and demonstrate under real conditions an evidence-based, standardised methodology **to select profitable landfill mining projects**, recovering huge amounts of dormant raw materials and land resources. The **kick-off meeting** will take place on June 7 in Belgium. More information will follow soon.

[Read more about the RAWFILL project >](#)



Preceding the formal kick-off meeting of the [EU MSCA-ETN NEW-MINE](#) project on Enhanced Landfill Mining, a unique event “New-miners meet locals” was organised on February 6, 2017 in Houthalen, Belgium. The event took place to initiate a **fruitful dialogue** with the so-called ‘DE Locals’ group of the Remo landfill site.

[Watch the video >](#)

1.2 COCOON: SECOND PARTNER MEETING ON MAY 31 AND JUNE 1

The 2nd interregional exchange of experience meeting (May 31 and June 1, 2017, Malta) will focus on **mapping and prioritisation of landfills** to be managed and/or funded. The project partners will perform a mapping of policy and funding opportunities for landfill management projects in their region.

[More information >](#)



2. POLICY BRIEF: ANALYSIS ELFM CONDITIONS IN SWEDEN



Researchers from **Linköping University** have critically analysed the capacity of the Swedish authorities to navigate the environmental, resource, and economic conditions of ELFM and their attitude to support such radical recycling alternatives. They have analysed three governmental commissions on landfill mining. [Read the full paper >](#)

KU Leuven researchers have published a concept paper on the transformation of plasmarock from Enhanced Landfill Mining into **high-added value construction materials** based on inorganic polymer technology. As many sectors, the cement and construction industry is also subject to this transition.

[Read the publication >](#)



4. ELFM IV SYMPOSIUM (FEB. 5-7, 2018): CALL FOR PAPERS



The list of **Invited Speakers** for the ELFM IV Symposium has now been completed. A comprehensive programme of Invited Lectures has been set up. In parallel the **call for extended abstracts** for Regular Speakers is now open (deadline for extended abstracts: May 30, 2017). The Organising Committee welcomes contributions according to the **four Symposium Sessions**: 1. Geophysics, remediation and (pre)processing technologies; 2. Thermal valorisation technologies; 3. Upcycling technologies; 4. Multi-criteria assessment.

[View the list of Invited Lectures and Symposium Sessions & Topics >](#)

[Submit your Extended Abstract >](#)



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1. EURELCO: call for abstracts ELFM IV
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 - 1.3. RAWFILL: kick-off on June 7, 2017, in Liege
2. Publication in the spotlight
3. Summer school: digitising the circular economy

1. EURELCO: CALL FOR ABSTRACTS ELFM IV SYMPOSIUM



The **call for extended abstracts for the *Fourth Symposium on Enhanced Landfill Mining*** (ELFM IV, February 5-7, 2018) is **open until May 30, 2017**. We call upon all our stakeholders to submit a proposal. Papers for ELFM IV will be grouped into four major sessions: Geophysics, remediation and (pre)processing technologies; Thermal valorisation technologies; Upcycling technologies; Multi-criteria assessment. Submit your abstract [here](#). Part of the ELFM IV programme is already available as it consists of 15 Invited Lectures, featuring a number of key academic, industrial and societal ELFM actors.

[You can view the programme here >](#)

1.1 NEW-MINE: "NOT JUST ANOTHER BRICK" VIDEO LAUNCHED

The NEW-MINE team just launched its official ETN video, presented by Early Stage Researcher G. Sauve (KU

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ELFM leads to a radical breakthrough in both **waste management** and the way we can build the **(green) houses of the future**. [Watch the video >](#)

1.2 COCOON: CALL FOR STAKEHOLDERS IN LFM POLICY

Are you a member of an organisation that is involved in (funding or performing) **landfill management** or landfill-related projects? Then you might just be the organisation we are looking for to participate in our regional **stakeholder group** meetings. Are you interested to participate?

[More information can be found here >](#)



1.3 RAWFILL: KICK-OFF ON JUNE 7, 2017, IN LIEGE



The Interreg RAWFILL project will be **officially launched** on June 7, 2017, in Liège. The kick-off is open for all (landfill mining) stakeholders. RAWFILL will develop an **enhanced framework** for private/regional/national/ transregional landfill inventories using geophysical techniques.

[More information >](#)

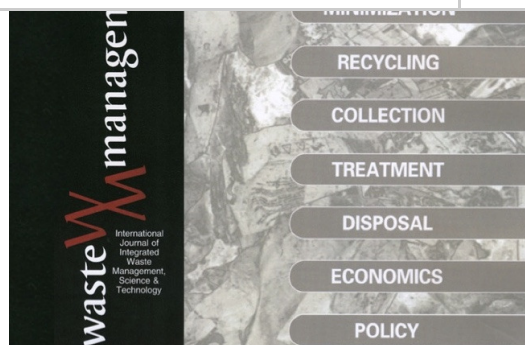
2. PUBLICATION IN THE SPOTLIGHT

Researchers from the Technische

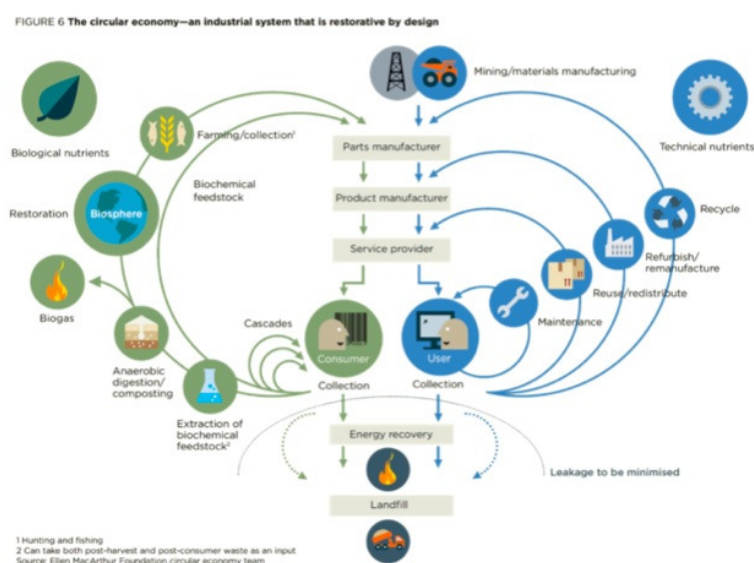
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The paper presents a **material flow-based economic assessment of six landfill mining processes**, ranging from basic processes to more sophisticated ELFM technology combinations.

[Read the publication >](#)



3. SUMMER SCHOOL: DIGITISING THE CIRCULAR ECONOMY



Metallurgy is a key enabler of a **circular economy**. Its digitalisation is the metallurgical Internet of Things. This EIT summer school will illustrate some of these concepts with **hands-on training** (July 17-20, 2017, in Leuven).

[More information >](#)



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ELFM IV SYMPOSIUM

Mechelen (Belgium)

February 5 - 6, 2018



Deadline extension for submission of abstracts for ELFM IV (June 15, 2017)

Following the request of several stakeholders the deadline for the submission of extended abstracts for the Fourth Symposium on Enhanced Landfill Mining (ELFM IV, February 5-6, 2018) has been shifted to **June 15, 2017**. This will be a one-off deadline extension. Papers for ELFM IV will be grouped into **four major sessions**:

- Geophysics, remediation and (pre)processing technologies;
- Thermal valorisation technologies;
- Upcycling technologies;
- Multi-criteria assessment.

You can submit your abstract [here](#). Please note that a significant part of the ELFM IV programme is already available as it consists of 15 Invited Lectures, featuring a number of key academic, industrial and societal ELFM actors.

[You can view the programme here >](#)

[Download the ELFM IV leaflet here >](#)

2nd ELFM Seminar in the European Parliament: change of date

Due to agenda issues of the European Parliament, the organisers of the 2nd ELFM

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going ahead. EURELCO will attempt to align the 2nd ELFM Seminar as best as possible with other key events in Brussels (e.g. EIP Raw Materials Week in November 2017). The 2nd ELFM Seminar in the European Parliament will be, furthermore, **coupled with a new General Assembly meeting for EURELCO**. A decision on the new date will be taken mid June, as it also coincides with the erection of the European Parliament Working Group on ELFM.

[Download booklet of 1st ELFM Seminar here >](#)

Kind regards,

Dr. Peter Tom Jones, for the ELFM IV Organizing Committee

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