



The contribution of the RAWFILL project to the valorisation of landfill resources



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THE team

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Key factors of succes for LFM projects :

- Social aspects
- Consultation with local residents



Rawfill is about :

- The potential of a landfill for valorisation activities
- Volume and quality of waste that could be recovered
- The value of the land

Is Not about :

- How to recover materials
- The processes to be put in place to maximise the waste valorisation





Objectives of the Landfill Mining

- ✓ A new use of the land land pressure
- ✓ Mining of 'new' **raw materials** need of ressources
- Fighting soil and groundwater contamination environmental risks
- ✓ Build infrastructure works
- ✓ Reduce the costs of the after-care activities of landfills
- ✓ Improve the visual aspects
- ✓ Produce green energy
- ✓ Reduce GHS emissions





EU priorities

- Green Deal Circular economy strategy
- Climate change
- Biodiversity
- SDGs
- End of waste status
- CRMs



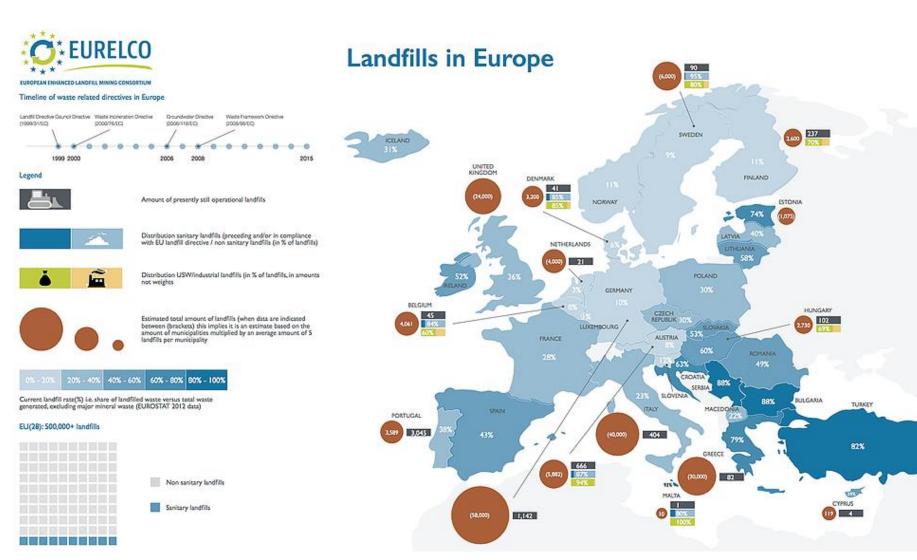




SUSTAINABLE GOALS



Indicator 15.3.1 Proportion of land that is degraded over total land area



+/- 100,000 landfills in the NWE Europe









RAWFILL : focus on developing new methods to reduce the economic risk of LFM projects, to identify the most profitable projects

The identified problems in the management of landfills:

- Lack of detailed information relating to the economical potential of landfill sites (quantity, quality, value of recoverable materials and of the land)
- The costs of investigation methods on landfill sites (wich are high or even prohibitive)



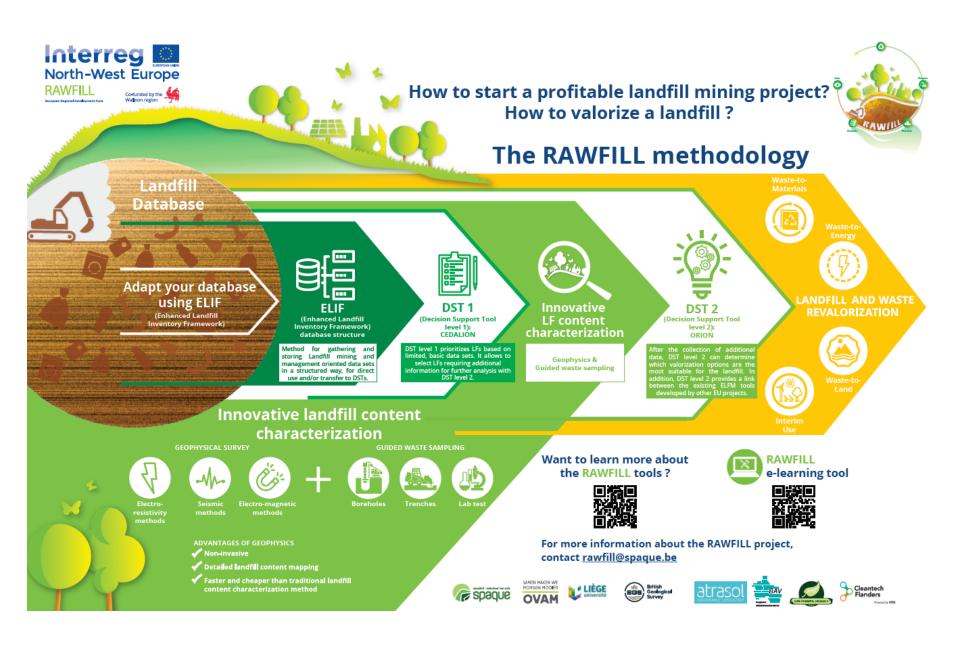




Our contribution to encourage future profitable LFM projects :

- 1. A common structure of inventories of landfill sites (ELIF) by integrating the economic potential of sites, social and technical indicators
- 2. An innovative investigation method of landfill sites (HADESS)by combining the traditional methods of soil sampling, treches, boring, etc. with modern geophysical methods (that will reduce the cost and the duration of studies and will give more detailed information about the content of the landfill site)
- 3. And two decision support tools (CEDALION and ORION) that will allow the selection of the most profitable LFM projects to encourage landfill owners and other SH to recover ressources and land

These methodologies were tested on 8 pilot sites.

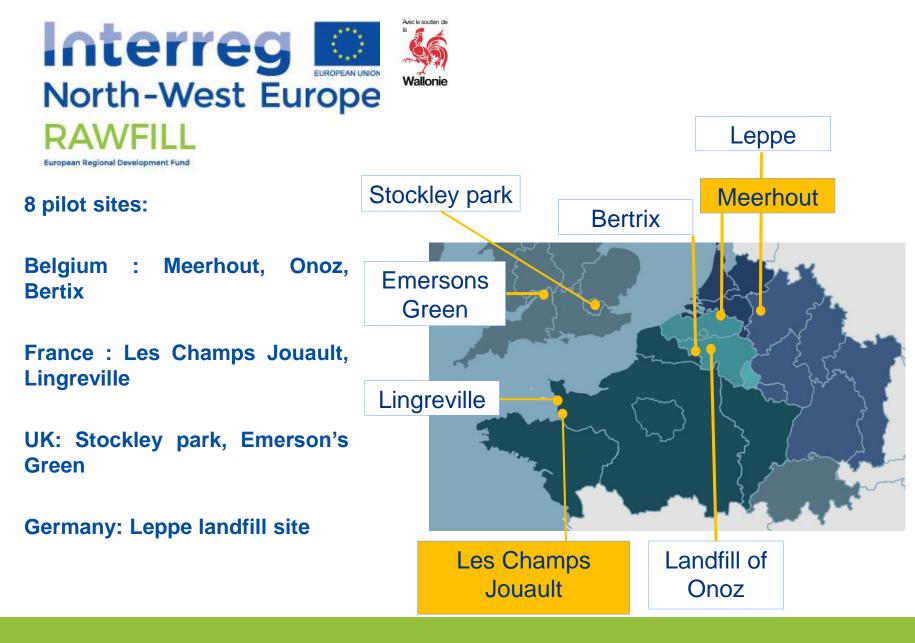




Video RAWFILL – general presentation

https://youtu.be/MAuwXjKkj30







- Lead partner of the RAWFILL project
- a public company from the Wallonia Region, Belgium – active in the field of landfills & brownfields.
- key references in conception, rehabilitation, after-care works, inventories, characterization studies, etc.





Long term effects

• E-learning tool

https://www.rawfill-elearning.eu/en/

- E-library
- Landfill Miner Guide



RAWFILL project unites 8 partners from 4 EU regions with complementary expertise:





LFM

 recover burried ressources and space

European Regional Development Fund

Find on which sites we will have to set it up, under what conditions



LFM : will no longer be an option

- Maximise the profit
- Reduce the risks of operations

www.nweurope.eu/rawfill

Interreg UROPEAN UNION North-West Europe RAWFILL

European Regional Development Fund



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Thank you!