

LIFE GREEN ADAPT

Green and Nature-Based Solutions for climate change-resilient waste infrastructure



The project LIFE GREEN ADAPT has received funding from the LIFE programme of the European Union under the Grant Agreement no LIFE20 CCA/ES/001795

Concept

Three climate change impacts threaten the waste sector:

1. Increased risk of flooding which reduces soil stability and increases rates of waste decomposition
2. Reduced water availability for wet processes and site management, particularly during summer
3. Increased risk of fires and explosions caused by drought periods and unusual heatwaves

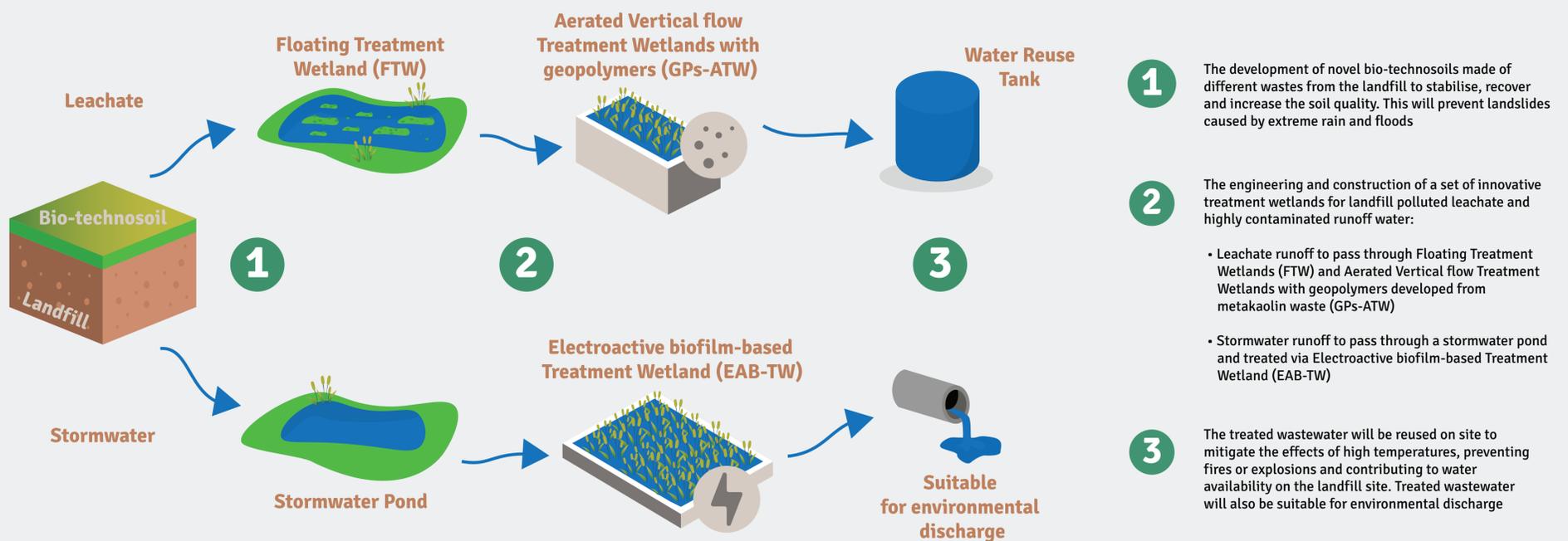
The risk of landfills being affected by climate change increases even further due to the longevity of the infrastructure. Landfills remain active for decades. This includes the period after closure; a closed landfill produces leachates and greenhouse gases for up to 25 years.

LIFE GREEN ADAPT aims to increase the resilience of EU waste infrastructures against climate change. This will be achieved by demonstrating the potential of blue-green infrastructures (BGI) and ecosystem-based approaches to manage flash flooding and runoff caused by heavy rainfall. The approach will also prevent fires and explosions caused by droughts and unusual heatwaves.



LIFE GREEN ADAPT Process

LIFE GREEN ADAPT will develop blue-green infrastructure (BGI) and ecosystem-based approaches to make waste infrastructures more resilient, with a focus on landfills. An industrial demonstration site in As Somozas (Galicia, Spain) will be used to validate the approaches and verify the performance under a real-scale landfill scenario as follows:

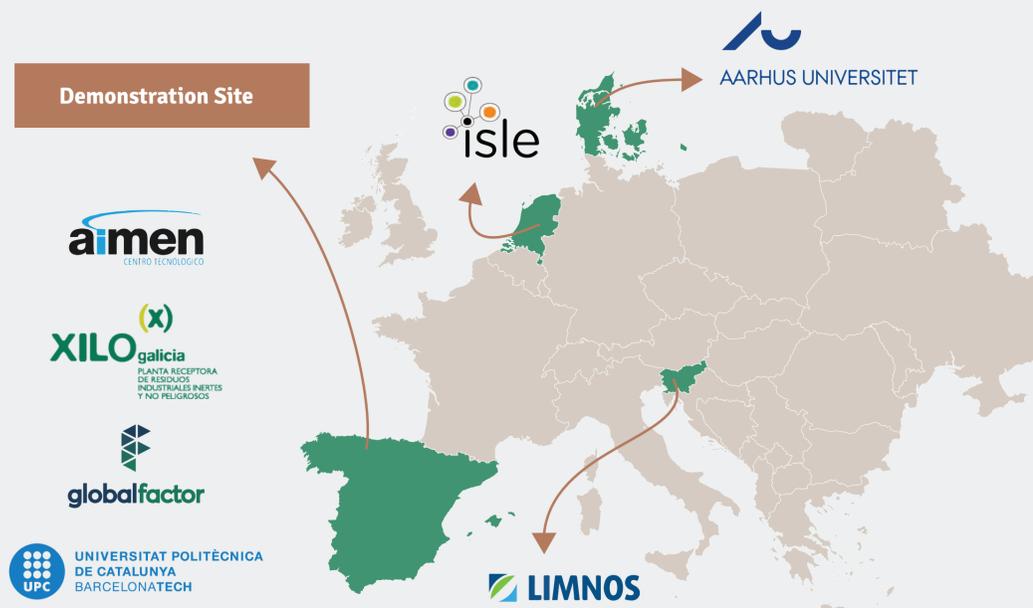


Outcomes



LIFE GREEN ADAPT also has the following benefits:

- **Analysis and assessment tools:** Multi-level governance analysis and specific vulnerability assessment tools for developing and adapting resilient waste infrastructures, engaging stakeholders and presenting LIFE GREEN ADAPT benefits
- **Transferability:** A detailed exploitation strategy and commercialisation roadmap, transferability studies and opportunities analysis to ensure replicability of the project for the waste industry and other infrastructure-related sectors contributing to the circular economy
- **Knowledge Sharing:** Creation of a network of contacts to foster collaboration and knowledge sharing, dissemination of the results to the general public to raise awareness and promote the benefits and advantages of LIFE GREEN ADAPT solutions



7 Partners
4 Countries

A team of 7 international and multidisciplinary partners will work together to ensure the success of the project over 42 months (July 2021 – December 2024). The partners are based in Spain, Denmark, the Netherlands and Slovenia.



For more information, visit our website

www.lifegreenadapt.com