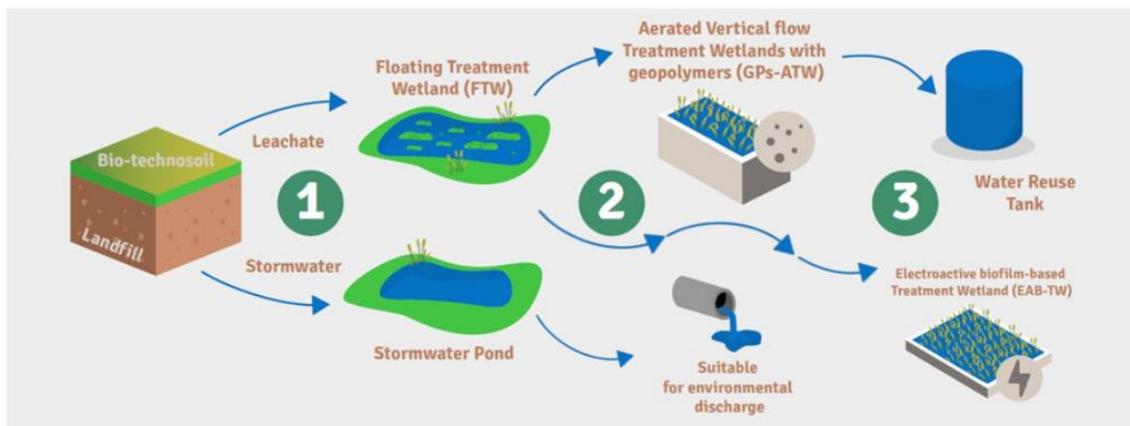


LIFE GREEN ADAPT - Accelerating the adoption of nature-based solutions

LIFE GREEN ADAPT, a project co-funded by the EU LIFE Programme (LIFE20 CCA/ES/001795), seeks to develop waste infrastructure that is resilient to climate change while promoting a circular economy. The project employs several innovative technologies in a multi-stage process to combat landfill erosion, treat landfill leachate to be reused onsite for irrigation purposes, and release stormwater runoff into the ambient environment.



In addition to the treatment of landfill leachate to absorb and degrade pollutants, the project innovations serve to bolster local biodiversity through the development and implementation of nature-based solutions, reduce carbon emissions and accelerate circular economy systems for heightening landfill resilience to climate change-induced heat stress and drought.

1st Innovation Workshop

On 4th April 2025, ISLE hosted the 1st Innovation Workshop for LIFE GREEN ADAPT, focussing on the lessons learned thus far from the design and implementation of the **Floating Treatment Wetlands**, **Aerated Vertical-flow Treatment Wetlands with Geopolymers**, and **Electroactive Biofilm-based Treatment Wetlands** to treat polluted landfill leachate to levels suitable for onsite reuse of water for irrigation purposes.

The workshop connected the innovators with the project's Innovation Board (IB) members, who are sector experts from waste management, research, engineering and investments fields. Their participation at the 1st Innovation Workshop provided highly valuable insights contributing towards the further development and adoption of the project technologies. The outcomes of the 1st Innovation Workshop will help to refine the innovations' business strategies and roadmaps.

Statement from Álvaro Silva Teila, AIMEN (LIFE GREEN ADAPT Project Coordinator): “We recently held our first innovation workshop, a valuable opportunity to present the foundational thinking behind our prototype designs and the key milestones reached in our start-up process. Thank you to all who attended! Our upcoming [2nd] workshop will

focus on demonstrating the concrete results we are now gathering through our operational activities. Stay tuned for more updates!”



What Next?

Two more Innovation Workshops remain to be organised, to facilitate knowledge transfer and future innovation adoption.



END

About LIFE GREEN ADAPT

The LIFE GREEN ADAPT project, co-funded by the EU LIFE Programme (LIFE20 CCA/ES/001795) 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 run-off caused by heavy rainfall and prevent fires and explosions caused by droughts and unusual heatwaves.

The project expects to have a range of results and impacts. Notably, bio-technosoils made of wastes from the landfill are used to stabilise and recover soil by improving its

structure and increase soil quality by regulating nutrient supply. New treatment wetlands (TW) are engineered to address polluted landfill leachate and run-off, delivering water with a 95% reduction in heavy metals and a 99% reduction in ammonium and DBO_5 compounds. Finally, an industrial demonstration site is used to validate the potential of the BGI and ecosystem-based approaches and verify their performance.

Partners of the LIFE GREEN ADAPT Consortium include: [AIMEN](#), [LIMNOS](#), [FACTOR](#), [UPC](#), [AU](#), [XILOGA](#) and [ISLE](#).

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