



LIFE GREEN ADAPT

Newsletter #2: May 2023

Welcome to the second LIFE GREEN ADAPT newsletter! LIFE GREEN ADAPT aims to increase the resilience of EU waste infrastructures against the challenges of climate change. The project demonstrates the potential of innovative nature-based solutions to manage flash flooding and run-off caused by heavy rainfall, as well as to prevent fires and explosions caused by droughts and unusual heatwaves.

Our newsletter is your go-to source for the latest news related to LIFE GREEN ADAPT and the project's implementation of cutting-edge nature-based solutions. By subscribing, you'll gain access to expert insights into these technologies. Join us on this important journey towards a more sustainable future, and subscribe to our newsletter today!

Introduction from LIFE GREEN ADAPT Project Coordinator

On behalf of the whole LIFE GREEN ADAPT consortium, we are pleased to introduce the second project newsletter. During this past 22 months of the project, we have been making good progress, highlighting the work on the design of the bioremediation systems: the Geopolymer Aerated Vertical Treatment Wetlands (GP-ATW), Electroactive Based Treatment Wetlands (EAB-TW) and the Floating Treatment Wetlands (FTW).

Additionally, the list of materials needed for the construction and the creation of planting protocols, such as the selection of plant species for the treatment wetlands have been completed. During 2022, we completed the work to develop the biotechnosoils as well as the development of a geopolymer test for selection and use in the EAB-TW, which will improve the performance of the wetland. By the end of 2023,

the construction and start-up of the treatment wetlands will be finalised and subsequently the monitoring of the leachate and run-off treatment will follow.

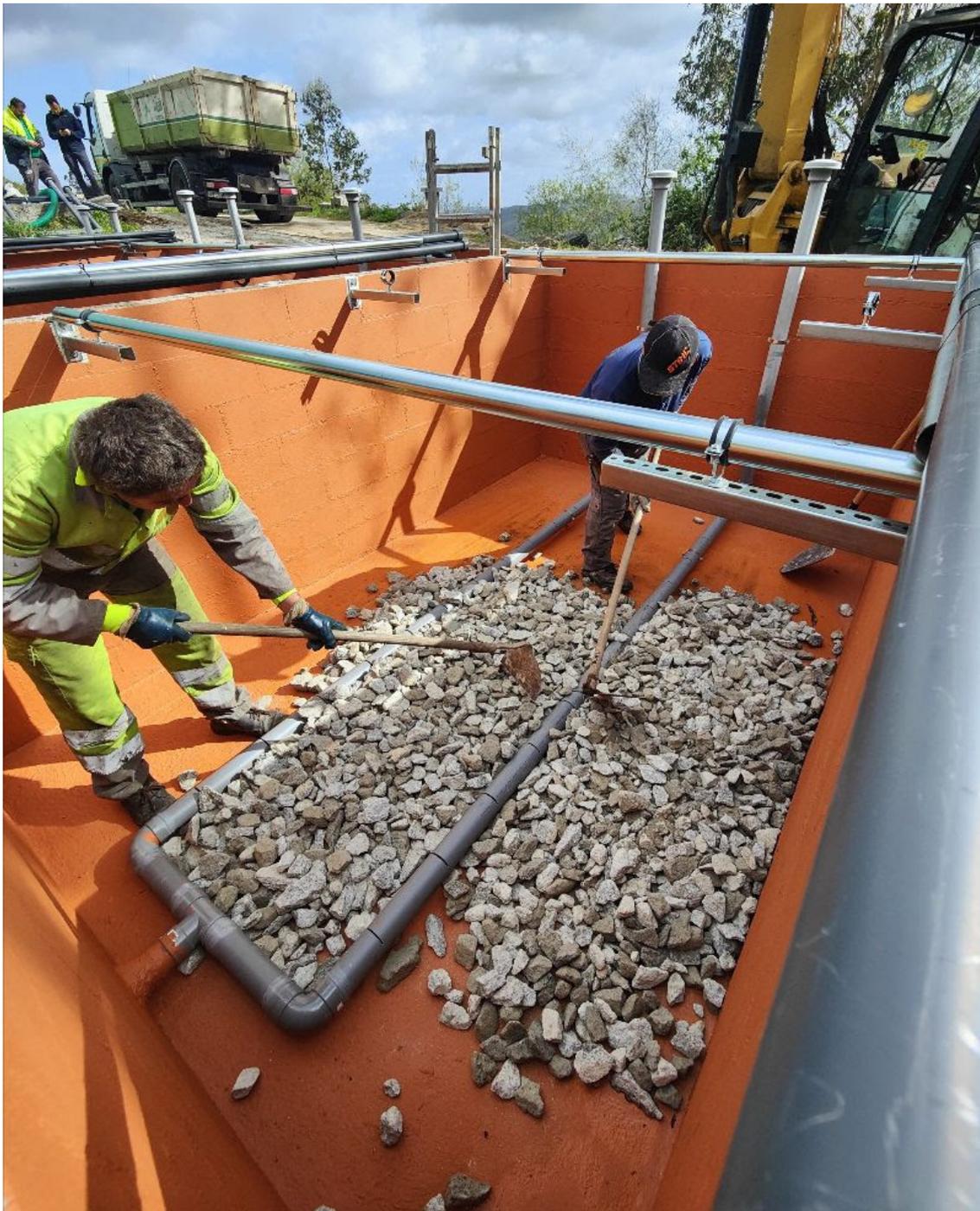
The consortium are pleased to present the LIFE GREEN ADAPT project video which you can watch below. The video explains the main project aims, how the project has developed nature-based solutions to make landfill sites more resilient to climate change, and the expected results. We look forward to sharing more project news with you all and encourage you to follow the project over at our website, or the project social media. **Luz Herrero, LIFE GREEN ADAPT Project Coordinator.**

LIFE GREEN ADAPT Project Video



Watch here

Nature-Based Solutions in Action at the Project



Aerated Vertical Treatment Wetlands under construction at the demo site, Xiloga, Galicia

The construction of the LIFE GREEN ADAPT demo site in Galicia, Spain is reaching the final stage. We caught up with project partners, Xiloga and Limnos, who shared their updates on the LIFE GREEN ADAPT project and the progress achieved so far:

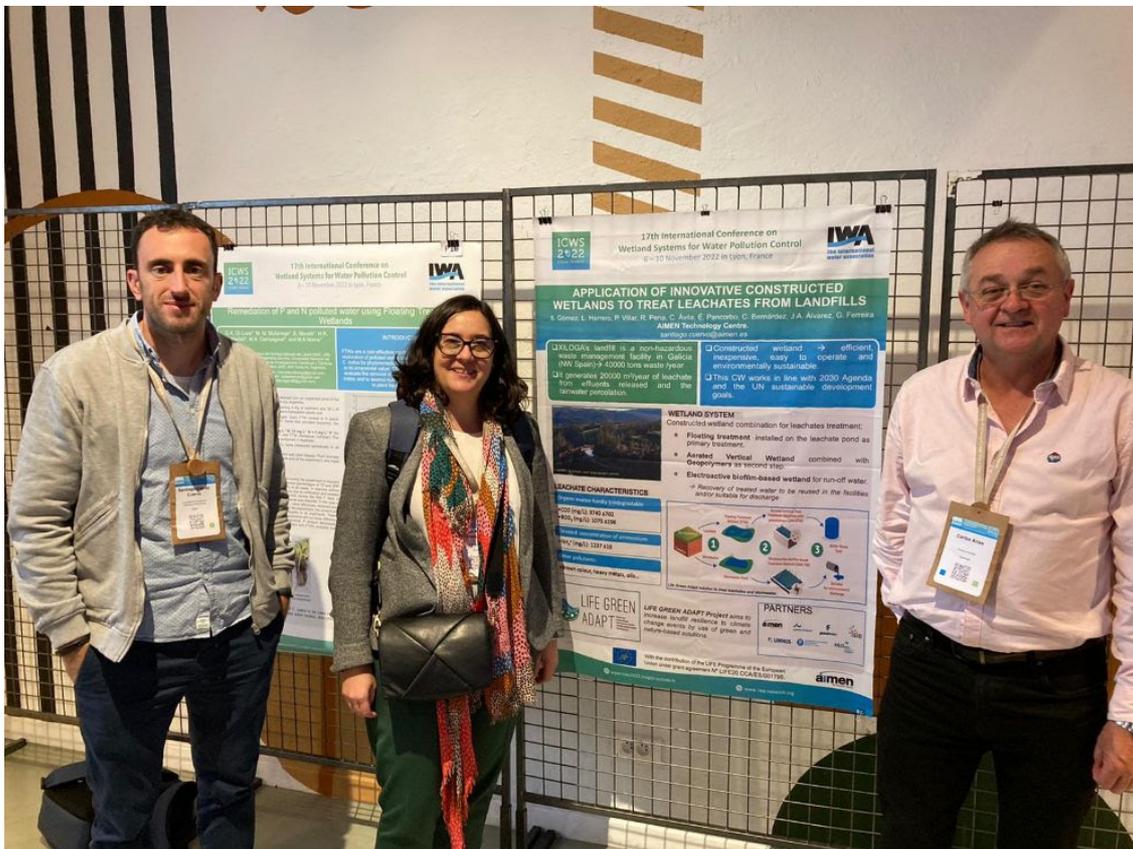
- **Xiloga** are the waste management company who provide their facilities and equipment at the LIFE GREEN ADAPT demo site. Victor Toca Salgado, Xiloga Property Representative, said: "We have worked to create and place the bio-technosoils this past year. The bio-technosoils are an innovative way to increase the resilience of the landfills: they stabilise the soils, preventing landslides. They are produced by reusing materials from the landfill itself. In total 4,000 m³ of bio-technosoils with a density of 1.5 mt/m³ have been laid in Xiloga, with 6,000 mt planned for the next application."

Victor Toca said: "Currently we are waterproofing all the wetlands with 20cm of coarse gravel, placing aeration pipes in 4 of them, and then placing the plants. In this first phase we will use 4 wetlands out of the 8 units in the project and the ponds to place 3000 plants in both areas. We will then install the distribution boxes for the leachate and rainwater, which will be subsequently treated in this exciting project. With the Treatment Wetlands (TW) together with the bio-technosoils we are building a way to fight climate change, using these innovative, nature-based solutions."

- **Limnos** led the design of the TW for the LIFE GREEN ADAPT project. Project Engineer, Urša Brodnick said "TW have an important part to play in adapting to the impacts of climate change in terms of flooding risk mitigation, stormwater runoff management, and increasing water supply and availability. For instance, TW can improve the water quality of stormwater runoff and manage watershed nutrients, as well as treatment of wastewater and other industrial contaminants. The treated water can be reused for watering or irrigation."

"Therefore TW mitigate the effects of high temperatures and help prevent droughts. Treated water can be discharged into natural waters reducing the effects of drought in water-scarce regions. The application of TWs can contribute to the reduction and mitigation of flood risks through increasing water storing capacities. For all of these reasons, TW are an excellent choice of nature-based solutions to help make landfill sites more resilient to climate change which is the aim of the LIFE GREEN ADAPT project."

Events



LIFE GREEN ADAPT at the IWA Wetlands Conference, November 2022

LIFE GREEN ADAPT attended the 17th International Conference on Wetland Systems for Water Pollution Control in Lyon, France in November 2022. The conference was a global knowledge sharing event, focused on the scientific and practical development of natural and constructed wetlands, and the many benefits these nature-based solutions bring, including improving water quality. The project engaged with 100 stakeholders at this event which reflects the high levels of interest in the activities of the LIFE GREEN ADAPT project. The consortium presented a poster which is available to download [here](#).

In 2022 and 2023, LIFE GREEN ADAPT has been presented at a total of 9 events including 7 conferences, 1 forum and 1 webinar, briefly:

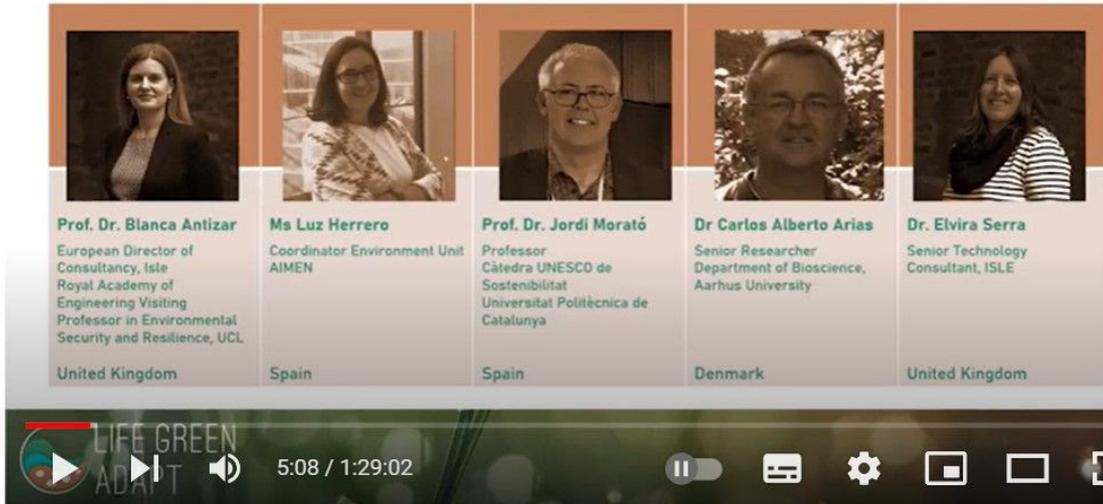
Type of Event	Event	Presentation	Partner	Location	Date
Conference	Ninth International Water for All Conference on Climate Change	Oral	Limnos	Slovenia	May 2022
Webinar	Green & Nature-Based Solutions for Climate Change Resilient Infrastructure	Webinar	Isle, Aimen, Universitat Politècnica de Catalunya (UPC), Aarhus University (AU)	Online	May 2022
Conference	IWA World Water Congress	Oral	AIMEN, AU and UPC	Denmark	September 2022
Conference	Adaptation to Climate Change and Sustainable Development	Oral	UPC	Peru (Hybrid)	September 2022
Conference	National Conference on Climate Change	Oral	Limnos	Slovenia	October 2022
Conference	IWA 17th International Conference on Wetlands Systems for Water Pollution Control	Poster	Aimen	France	November 2022
Conference	Microbiology Week as part of MicroTech Week	Oral	Limnos	Slovenia (Hybrid)	November 2022
Conference	DuRSAAM2023 Symposium	Oral	Aimen	Belgium	February 2022
Forum	Inter-American Development Bank Annual Meeting	Oral	Isle	Panama	March 2023

[Events: Read more](#)

[Watch and Learn](#)

Green and Nature-Based Solutions for Climate Change Resilient Infrastructure

Innovative initiatives to address climate-resilient infrastructure



Green and Nature-Based Solutions for Climate Change Resilient Infrastructure



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Webinar: Nature-Based Solutions for Climate Change Resilient Infrastructure

The first LIFE GREEN ADAPT project webinar took place in May 2022. The webinar looked at global examples of nature-based solutions that are creating climate change resilient infrastructure. The webinar is available to watch again on the project YouTube channel.

Watch again

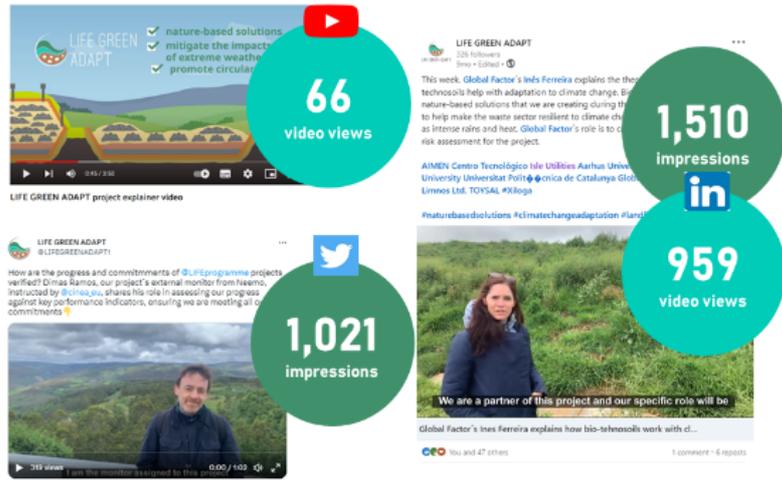
Spreading the Word

Social Media & Website

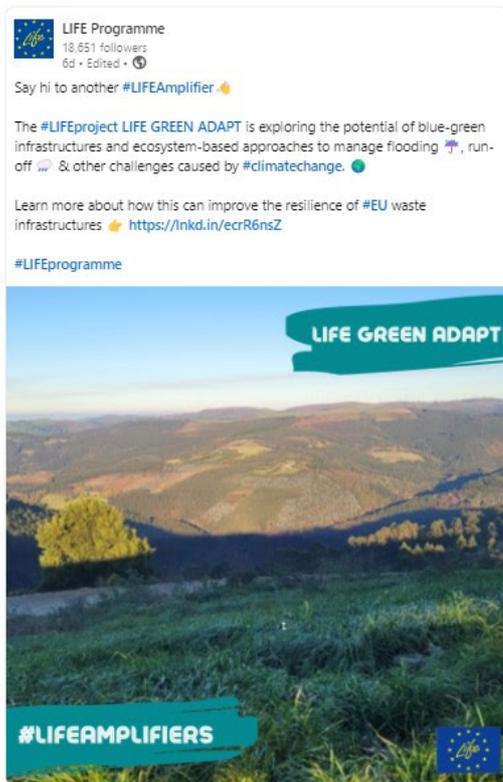


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Project progress so far



LIFE GREEN ADAPT has been featured in the LIFE Programme #LIFEAmplifiers initiative on social media.

The LIFE Programme state that: "59% of the world's population use social media. On average, people use channels like Twitter for two hours and 29 minutes daily."

The aim is for LIFE Programme projects to share information and raise awareness about their projects, which the LIFE Programme will also help to promote on social media.

LIFE GREEN ADAPT joins #LifeAmplifiers on Twitter & LinkedIn



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