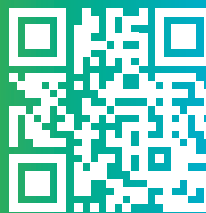




NEWSLETTER

ISSUE 8, AUGUST 2026



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BIOSYSMO UPDATES

1. BUILDING SMARTER BIOREMEDIATION SOLUTIONS

From biological potential to tailored biosystems for complex pollution

Complex pollution challenges demand more than one-size-fits-all solutions. Throughout BIOSYSMO, project partners have worked together to transform biological potential into a portfolio of tailored bioremediation systems for contaminated groundwater, soils and sediments. Microorganisms, plants and bioelectrochemical processes were investigated individually and in combination, progressively refining each solution according to the targeted pollutants, environmental matrix and remediation challenge.

This development was supported by a continuous exchange between experimentation and digital modelling. IDENER's model-driven framework connected biological knowledge with metabolic, community and process modelling, helping partners interpret experimental observations, understand the mechanisms behind remediation performance and use this knowledge to support subsequent optimisation. In this way, modelling became a co-design tool embedded within biosystem development, rather than a standalone computational exercise.

Tackling complex groundwater contamination

For groundwater, LEITAT, UBU and JSI developed and optimised complementary strategies based on bioelectrochemical systems (BES), phytoremediation and integrated hybrid approaches, targeting metals and metalloids, petroleum hydrocarbons and chlorinated contaminants. Optimised BES configurations achieved above 90% removal in several targeted scenarios, primarily by harnessing enriched indigenous pollutant-degrading microbial communities. In parallel, phytoremediation explored the capacity of plants and their associated microorganisms to remove, immobilise or tolerate contaminants. The benefits of combining complementary mechanisms

became particularly clear in highly acidic, metal-contaminated groundwater, where an integrated BES-phytoremediation-bioaugmentation system achieved 82–96% removal of total metal(loid)s, while also reducing contaminant mobility, plant stress and groundwater ecotoxicity. Alongside experimental optimisation, IDENER's process models helped interpret contaminant transformation, operating conditions and the relative contributions of mechanisms such as BES-mediated removal, precipitation, and plant uptake, supporting the progressive refinement of both individual and integrated solutions.

Harnessing plants and microbial communities in soils and sediments

Across contaminated soils and sediments, UBU, UMLP, CIIMAR, UPM, JSI, ICL and collaborating partners developed complementary strategies based on phytoremediation, bioaugmentation, biostimulation and engineered biological approaches to address complex mixtures including PAHs, metals, pesticides and pharmaceuticals. Plants were combined with microorganisms displaying complementary remediation traits, while enriched and engineered microbial systems were explored for specific contamination challenges. Digital modelling supported this experimental work by moving beyond simply identifying microorganisms towards understanding what they could contribute to the biosystem: genome-scale models characterised functions linked to pollutant transformation, metal tolerance, nutrient mobilisation and plant-growth promotion, while metagenomics and community modelling revealed how remediation functions and metabolic interactions were distributed across complex microbial communities. Together, these analyses helped explain differences between native, enriched and bioaugmented systems and supported a more function-driven selection and optimisation of biological components.

BIOSYSMO UPDATES

Experiment. Understand. Refine.

Together, these results provide BIOSYSMO with a diverse portfolio of optimised and better-understood bioremediation solutions. By continuously connecting experimental

evidence with digital co-design, partners moved beyond simply identifying what works towards understanding why it works and how it can be improved, laying the foundations for smarter and more adaptable bioremediation strategies.

2. PUTTING BIOSYSMO BIOREMEDIATION TO THE REAL-WORLD TEST

Real environments are the ultimate test for bioremediation. BIOSYSMO therefore took selected technologies beyond controlled experiments to assess whether the performance achieved during development could be maintained at larger scale and under real contamination conditions. Working together with TAUW to connect technology development with real contaminated sites and implementation needs, these demonstrations tested not only pollutant removal but also technology robustness, environmental response and the practical challenges that emerge when moving from the laboratory to the field.

Putting phytoremediation into the field

At a contaminated industrial site in France, UMLP and collaborating partners demonstrated bioaugmented poplar-based phytoremediation under real multi-contamination conditions. The trees successfully established and continued growing over two seasons, supporting the potential of phytoremediation as a long-term strategy for contaminated land management. The more limited effect of microbial inoculation compared with controlled experiments also provided an important lesson: field conditions matter, and interactions between plants, native microorganisms, contaminants and environmental variability can strongly influence performance.



BIOSYSMO UPDATES

Scaling up without losing performance

For hydrocarbon-contaminated groundwater, LEITAT, TAUW and collaborating partners progressively scaled the bioelectrochemical technology from 300 mL to 3 L and finally 110 L, moving from laboratory optimisation to on-site pilot operation. The system achieved an average

TPH removal of 92%, maintaining 90–95% removal over nine consecutive cycles. Importantly, degradation kinetics remained comparable across scales, showing that treatment performance could be preserved despite a more than 350-fold increase in reactor volume and providing strong evidence of the technology's robustness and scalability.



300 mL



3L



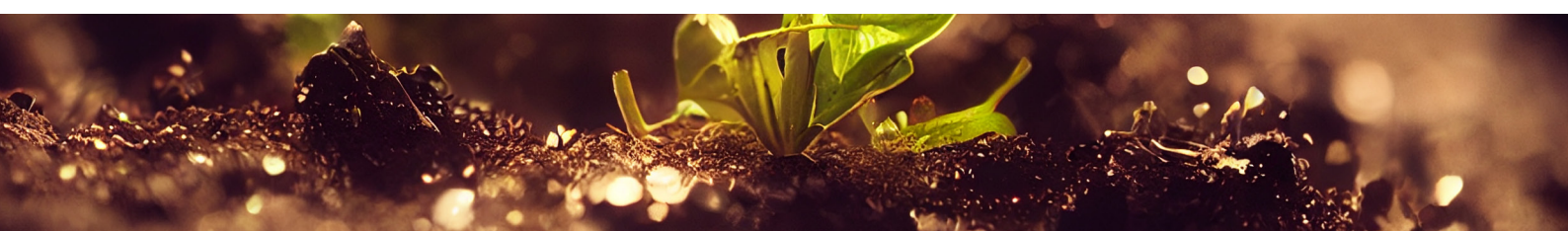
100 L

Looking beyond contaminant removal

Nonetheless, demonstrating technical performance was only part of the story. BIOSYSMO integrated physicochemical, (eco)toxicological & microbiological assessment evidences within its Environmental Risk Assessment to determine whether contaminant removal was also accompanied by reduced biological impacts and ecosystem recovery. The results showed that cleaner does not always immediately mean safer, reinforcing the need to evaluate remediation success beyond chemical concentrations and removal percentages alone.

From promising biosystems to real-world solutions

Together, these demonstrations complete a key step in the BIOSYSMO journey, connecting technology developers, environmental researchers and real-site expertise to understand what remains robust during scale-up, what changes under real environmental conditions and where further optimisation is still needed. Combined with the biosystems, knowledge and tools developed throughout the project, these lessons provide a strong foundation for advancing smarter, more sustainable and environmentally meaningful bioremediation solutions towards real-world implementation.



BIOSYSMO UPDATES

48M General Assembly Meeting



A major milestone for the project was the **final BIOSYSMO General Assembly**, held on **22-23 June 2026** in **Florence, Italy**, immediately before BioRemid 2026. The meeting brought together consortium partners from across Europe to review the scientific, technical, communication, and management achievements accumulated over the project's lifetime and to prepare for the final review phase. Participants discussed the progress achieved across all Work Packages, assessed the status of key deliverables and milestones, and reviewed the project's

overall impact on environmental bioremediation research and innovation.

The General Assembly also provided a valuable opportunity to align final activities, discuss exploitation and sustainability plans, and identify opportunities for continuing collaboration beyond the project's completion. Particular attention was given to the integration of project results, the performance of the developed biosystems, policy-related outcomes, stakeholder engagement activities, and future research directions.

BIOSYSMO UPDATES

New videos launched for BIOSYSMO and ALL4BIOREM



Two videos were developed by EXELISIS to showcase BIOSYSMO's achievements and strengthen the visibility of the ALL4BIOREM Cluster. These audiovisual communication assets provided an engaging way to communicate project results, capture key project milestones, and highlight the value of collaboration among European bioremediation initiatives.

Video 1: BIOSYSMO Final Project Video: Reflections, Achievements and Future Perspectives

The first video was produced during the final **BIOSYSMO General Assembly in Florence** and focused on presenting the project's achievements, scientific advances, and future perspectives. Through interviews with the coordination team and Work Package leaders,

including Sara Gil and Lila Otero (IDENER), Alfredo Pérez de Mora (TAUW), Michel Chalot (UMLP), Eduard Borràs (LEITAT), Blanca Velasco (UBU), and Ana Paula (CIIMAR), the video documented the consortium's journey and provided stakeholders with first-hand insights into the key results, challenges, and impact of BIOSYSMO over its lifetime.

BIOSYSMO UPDATES

New videos launched for BIOSYSMO and ALL4BIOREM



Footage during the consortium interviews

Video 2: ALL4BIOREM at BioRemid 2026: Collaboration for Sustainable Bioremediation

The second video was developed following the **ALL4BIOREM Cluster Workshop and BioRemid 2026 Conference in Florence**. Designed as a follow-up and dissemination tool, it captured the main discussions, outcomes, and collaborative spirit of the event. The video featured interviews with **Simona Di Gregorio** (University of Pisa) representing BioRemid 2026, **Sara Gil Guerrero** (IDENER) for BIOSYSMO, **Thomas Reichenauer** (AIT) for MIBIREM, **Giulio Zanolli** (University of Bologna) for NYMPHE, **Leire Ruiz Rubio** (University of the Basque Country) for SYMBIOREM, and **Akanksha Mishra** (IDENER) for pPHYBi. Through these perspectives, the video highlighted the scientific achievements of the participating projects, showcased the

importance of clustering activities, and reinforced the role of the **ALL4BIOREM Cluster** in promoting knowledge exchange and advancing innovative bioremediation solutions across Europe.



Our coordinator presenting BIOSYSMO within the ALL4BIOREM follow up video.

ALL4BIOREM CLUSTER UPDATES

ALL4BIOREM met on 17 and 26 March 2026

During the ALL4BIOREM cluster meetings held on 17 and 26 March 2026, partners focused on preparations for the upcoming BioRemid 2026 conference and cluster workshop in Florence. Discussions covered administrative updates, programme development, and the coordination of joint dissemination activities.

A key outcome of the meetings was the finalisation of the ALL4BIOREM workshop concept and agenda, with BIOSYSMO, pHYBi, NYMPHE, and SYMBIOREM leading the restructuring of the programme to better reflect the cluster's shared objectives and scientific priorities.

Partners also contributed to defining speaker slots, thematic sessions, and the overall workshop framework.

The cluster additionally coordinated its joint promotional and dissemination materials for BioRemid 2026, agreeing on common communication assets and giveaways to strengthen the visibility of participating projects at the event. Discussions also covered future collaboration opportunities, including contributions to the BIOREM database, continued knowledge exchange within the cluster, and the planning of future networking and dissemination activities.



ALL4BIOREM Cluster Met on 26 May 2026

The final ALL4BIOREM cluster meeting before BioRemid 2026 was dedicated to finalising all organisational and communication aspects of the workshop and conference activities. During the meeting, partners reviewed and approved the final workshop agenda, confirmed speakers and session coordinators, and aligned the contributions of the participating projects to ensure a coherent and impactful programme.

The meeting also served to formally announce the workshop structure and communication activities associated with the event. In this context, EXELISIS presented the concept for a dedicated video campaign, proposing a series of interviews with project coordinators,

workshop speakers, and members of the BioRemid 2026 organising committee. The objective was to document the workshop outcomes, capture expert perspectives, and further promote the achievements of the ALL4BIOREM Cluster.

In addition, arrangements were made for the professional video and photo coverage of the workshop activities, which was coordinated by EXELISIS. This ensured that key moments, presentations, discussions, and stakeholder interactions would be recorded and transformed into communication assets supporting the dissemination of project results beyond the event itself.

BIOSYSMO & MIBIREM JOINT MEETING IN FLORENCE

On 23 June 2026 in Florence, Italy, BIOSYSMO and its sister Horizon Europe project MIBIREM held a dedicated joint meeting, bringing together researchers, project coordinators, and consortium partners to strengthen collaboration and exchange knowledge on advanced bioremediation approaches.

The meeting provided an excellent opportunity to review the progress achieved by both projects and explore

common scientific interests, particularly in the areas of microbiome-based remediation, microbial consortia, environmental biotechnology, data integration, and the development of innovative solutions for contaminated soil and water restoration. Participants shared recent findings, discussed ongoing research activities, and identified opportunities for further collaboration and knowledge transfer.



Particular attention was given to the challenges associated with translating research results into practical applications, including technology validation, field implementation, stakeholder engagement, and regulatory aspects. The discussions highlighted the complementary

expertise of the two projects, with BIOSYSMO contributing its experience in biosystem design and modelling approaches, while MIBIREM shared insights from microbiome-focused remediation strategies and field applications.

BIOSYSMO & MIBIREM JOINT MEETING IN FLORENCE



The meeting reinforced the strong partnership established between the two projects throughout their implementation and demonstrated the value of cross-project cooperation in advancing innovative, sustainable, and scalable bioremediation solutions.

It also laid the foundation for future collaborative activities within the broader ALL4BIOREM Cluster, supporting the collective impact of European research in environmental restoration and ecosystem recovery.



A joint press release summarises all the meeting outcomes:
<https://www.biosysmo.eu/wp-content/uploads/2026/07/PR-COLAB-2.pdf>

FINAL EVENT IN BIOREMID 2026

Following the BIOSYSMO General Assembly Meeting, the consortium actively participated in a joint workshop alongside its sister projects, **NYMPHE** and **SYMBIOREM**, during the **Bioremid 2026 Conference**, with the support of the **ALL4BIOREM Cluster**. The workshop, which served as the final joint event bringing together the three sister projects as they approach the conclusion of their respective project lifecycles. The event created a dynamic platform for exchange, enabling researchers, industry stakeholders, policymakers, and project representatives to share experiences, discuss challenges, and identify opportunities for future collaboration beyond the duration of the projects. The morning session focused on showcasing the major achievements and scientific advances generated by BIOSYSMO, NYMPHE, and SYMBIOREM. Participants presented innovative remediation approaches, demonstrated the effectiveness of biological and nature-based solutions for contaminated sites, and reflected on lessons learned

from pilot-scale implementation activities carried out across Europe. The session highlighted how multidisciplinary research, combining microbiology, plant science, environmental engineering, and digital tools, is contributing to more sustainable and cost-effective remediation strategies. Followingly, the afternoon thematic sessions featured valuable contributions from several Horizon Europe and EU-funded projects, including **pHYBi**, **MIBIREM**, **InBioSoil**, **BIOREM**, **PHY2SHINE**, **ISLANDR**, and **IASIS**. Presentations



FINAL EVENT IN BIOREMID 2026

stimulated engaging discussions on topics such as:

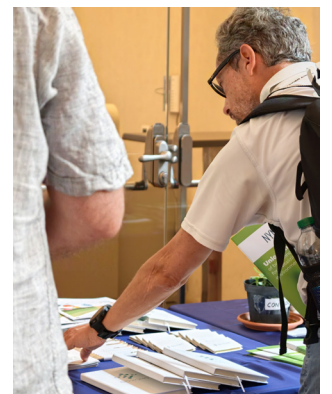
- **Innovations in bioremediation technologies**, including novel biological processes, microbial applications, and integrated remediation systems;
- **Addressing barriers to bioremediation from laboratory studies to field implementation**, with a particular focus on technical, regulatory, and economic challenges affecting large-scale deployment;
- **Expanding the applications of bioremediation through bio-based materials and value-added products**, highlighting opportunities to combine environmental restoration with circular economy principles.

The workshops clearly demonstrated the importance of clustering activities in strengthening knowledge exchange and creating synergies across projects. By bringing together experts from diverse disciplines and sectors, the event helped identify common challenges, potential collaborative pathways, and opportunities for harmonising methodologies

and impact assessment approaches.

The BIOSYSMO consortium was particularly honoured to welcome the project's **European Commission Project Officer**, whose participation underscored the strategic value of cross-project collaboration and highlighted the European Commission's commitment to maximising the scientific, environmental, and societal impact of EU-funded research and innovation initiatives. The discussions reinforced the role of collaborative networks such as ALL4BIOREM in accelerating the uptake of innovative bioremediation solutions and supporting Europe's transition towards healthier and more sustainable ecosystems.

The event also included an **ALL4BIOREM Dissemination Corner**, where cluster projects presented their latest results and outreach materials. The dedicated exhibition space encouraged networking and knowledge exchange, increasing the visibility of project achievements and strengthening collaboration within the European bioremediation community.



IN A NUTSHELL

BioRemid 2026 Conference brought together a diverse international community of researchers, students, industry representatives, environmental consultants, public authorities, and policymakers to exchange knowledge on the latest developments in bioremediation science and technology. The conference attracted 259 participants from 27 countries, including 90 students, 3 keynote speakers, 6 plenary speakers, and 33 members of the Scientific Committee, providing a dynamic platform for networking, scientific discussion, and the exploration of innovative solutions to environmental remediation challenges.

BIOSYSMO TEAM ATTENDING CONFERENCES AND OTHER EVENTS

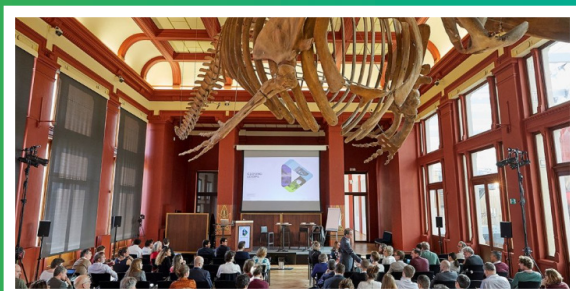
The 249th ECS Meeting: Presenting Research at a Leading International Electrochemistry Conference

JSI participated in the 249th ECS Meeting, held in Seattle, USA, from 24 to 28 May 2026, through an oral presentation delivered to an international audience of researchers, academics, and industry professionals active in the fields of electrochemistry and solid-state science. The conference provided an important platform for disseminating research results, exchanging scientific knowledge, discussing emerging technologies and sustainable solutions, and strengthening networking and collaboration opportunities within the global scientific community.



More information is available at:
<https://www.electrochem.org/249>

The 10th EuChemS Chemistry Congress (ECC10): Presentation of Research on Sustainable Chemical Solutions

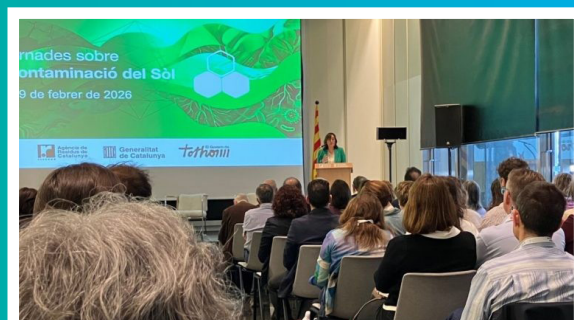


More information is available at:
<https://euchems2026.eu>

JSI participated in the 10th EuChemS Chemistry Congress (ECC10), held in Antwerp, Belgium, from 12 to 16 July 2026, through the presentation of a scientific poster to an international audience of researchers, academics, and industry representatives. The congress provided an excellent opportunity to disseminate project results, exchange knowledge on the latest developments in chemistry, sustainability, and environmental technologies, and establish new scientific collaborations within the European research community.

V Jornades de la Contaminació del Sòl in Barcelona

LEITAT participated in the **V Jornades de la Contaminació del Sòl**, held in **Barcelona, Spain, on 18-19 February 2026**, through an oral presentation addressing topics related to soil contamination and environmental remediation. The conference provided an important platform for sharing research results, exchanging knowledge with experts and stakeholders, and discussing innovative approaches and solutions for the sustainable management and restoration of contaminated soils.



BIOSYSMO TEAM ATTENDING CONFERENCES AND OTHER EVENTS

SETCoMS 2026: Advancing Microbial Science and Environmental Biotechnology

Researchers from the Jožef Stefan Institute (JSI) participated in the **1st South-East Transnational Congress of Microbial Sciences (SETCoMS 2026 & Mikromed Regio 6)** in Belgrade, Serbia, contributing through oral presentations and poster sessions. The event provided an important platform for sharing research results, networking with international experts, and discussing the latest developments in microbial sciences and environmental biotechnology.

Among the contributions, Aleš Lapanje presented innovative work on Microbial Ecosystem Engineering by Electrostatic Design, while Dmitrii Deev showcased a novel microfluidic screening approach for isolating bacterial consortia capable



of reducing phytotoxicity in olive pomace phenolics. These presentations highlighted JSI's research excellence and its contribution to developing sustainable microbial solutions for environmental remediation.

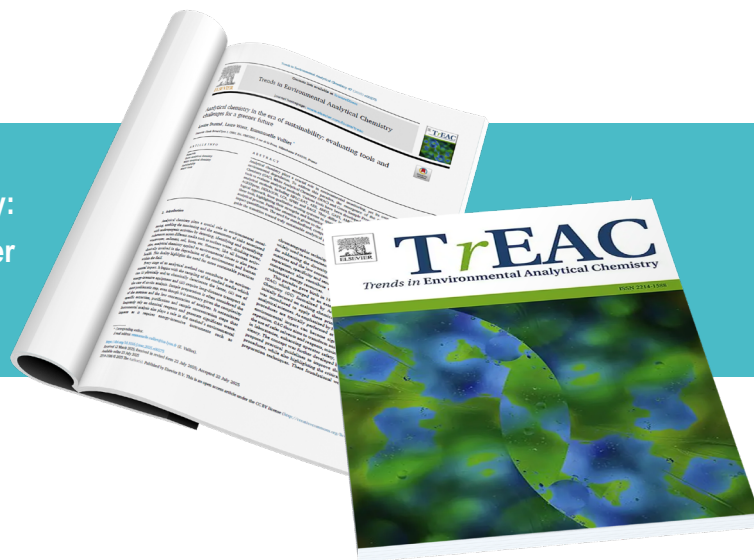
More information is available at:

<https://lnkd.in/dX5QQBdz>

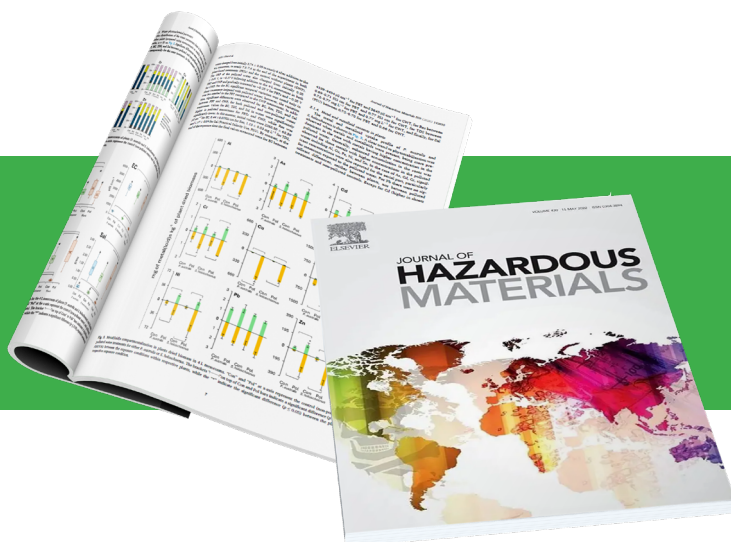


NEW BIOSYSMO RESEARCH PUBLISHED

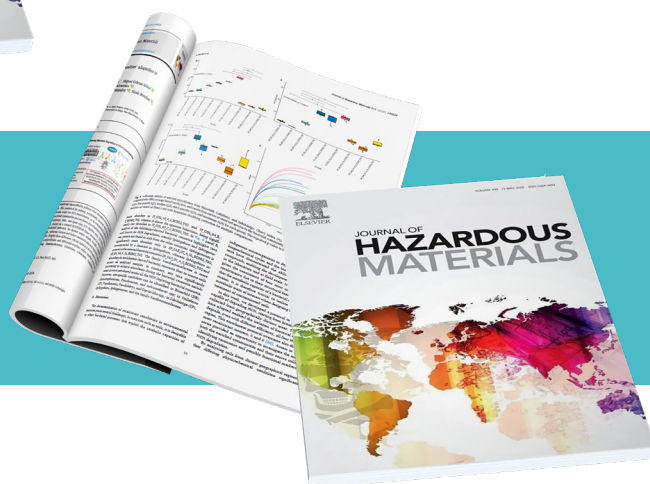
Analytical chemistry in the era of sustainability:
evaluating tools and challenges for a greener
future (CNRS)



Phragmites australis and Scirpus holoschoenus
for metal(loid)s polluted groundwater
remediation: a wetland mesocosm study with
different exposure regimes (UBU & TAUW)



Region-specific patterns of soil bacterial
communities' adaptation to hexachlorocyclohexane
contamination (IDENER, UBU & MIBIREM)



Sustainable mercury monitoring using graphitic
carbon nitride as a 2D binding layer in diffusive
gradient thin films (JSI)



NEW BIOSYSMO RESEARCH PUBLISHED



Identification and Validation of Reference Genes for RT-qPCR Normalization in Shoots and Roots of *Phragmites australis* Exposed to Copper Stress (Universidad de Burgos)

Characterization and transcriptome analysis of mercury-resistant *Pseudomonas canadensis* isolated from a chlor-alkali contaminated soil revealed mer-independent detoxification pathways (UMLP)



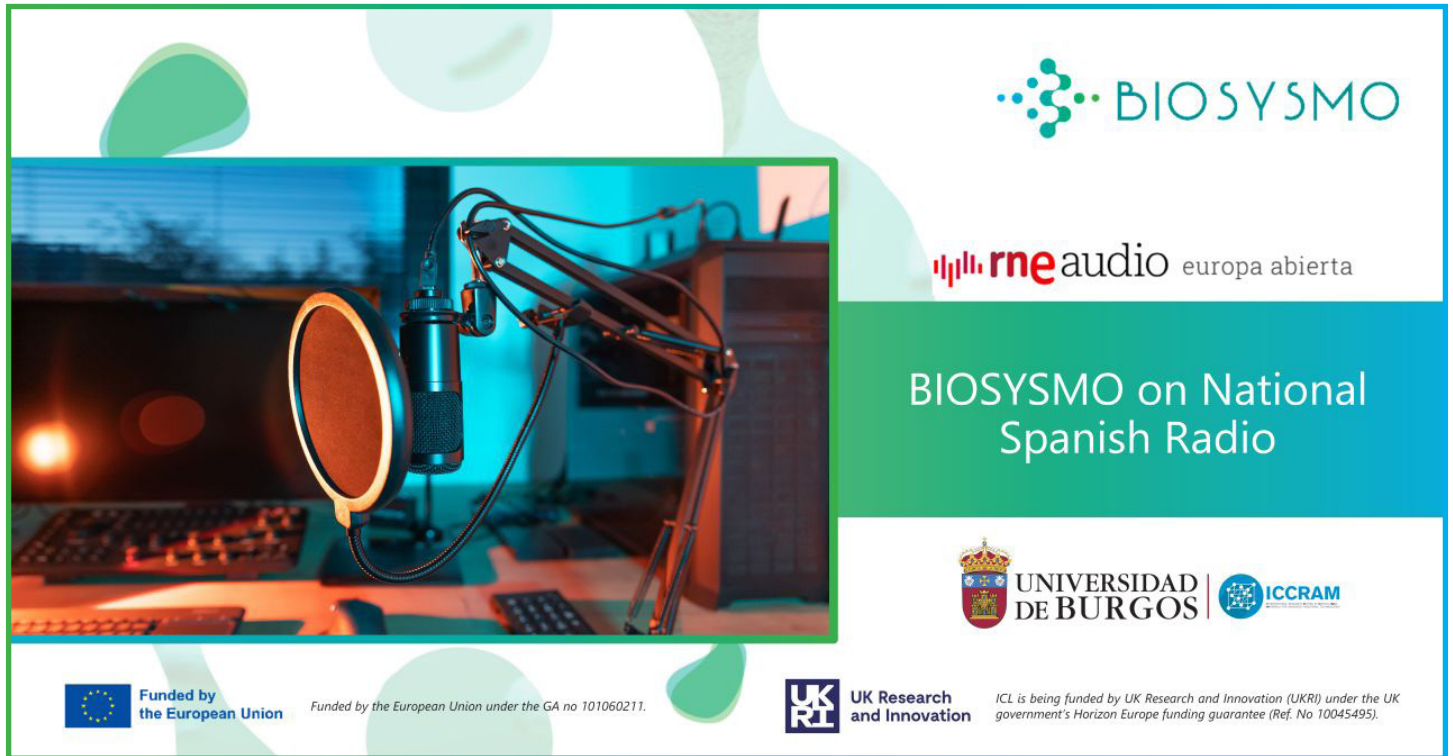
Integrated Sustainability Assessment of Brownfield Regeneration: The Vieux-Charmont Park Case (France) (Blue Synergy & UMLP)

ALL PUBLICATIONS ARE AVAILABLE HERE: WWW.BIOSYSMO.EU/PUBLICATIONS

AND IN THE ZENODO COMMUNITY:



RADIO DISSEMINATION



The **BIOSYSMO Project** was featured on the Spanish national radio programme **Europa Abierta**, providing an opportunity to present the project's objectives and achievements to a wide public audience. During the broadcast, **Dr Rocío Barros García** from the **University of Burgos (UBU)** introduced BIOSYSMO alongside other EU-funded initiatives, highlighting the project's

work on the use of native soil microorganisms to degrade pollutants and support the remediation of contaminated environments through sustainable and nature-based approaches. The radio feature contributed to raising awareness of the importance of soil health research and the role of environmental biotechnology in addressing pollution challenges.

CHECK IT OUT HERE!

EDUCATION AND TRAINING

EDAPHOS and BIOSYSMO Summer School 2025: Building Skills and Strengthening Research Collaboration in Environmental Sciences

UMLP organised the EDAPHOS-BIOSYSMO Summer School, held from 26 to 29 June 2025 at the Université Marie et Louis Pasteur, Montbéliard Campus, Montbéliard, France. The event brought together researchers, students, and project partners to explore topics related to soil health, environmental sustainability, ecosystem restoration, and bioremediation through a combination of lectures, practical activities, and networking sessions. The Summer School also fostered knowledge exchange and collaboration among participants from BIOSYSMO and related projects, including pHYBi, PHY2SHINE, BIOREM, and EDAPHOS, strengthening links within the European environmental research community.



UMLP at HARMi Annual Meeting 2025: Fostering Knowledge Exchange on Hazardous Materials and Environmental Sustainability



UMLP participated in and contributed to the organisation of the HARMi Annual Meeting 2025, held on 22-23 September 2025 in Dole, France. The event brought together researchers, practitioners, and stakeholders working in the fields of hazardous materials, environmental protection, and sustainable innovation. As part of the programme, UMLP supported a poster presentation session that showcased ongoing research activities, encouraged scientific exchange, and fostered interdisciplinary collaboration. The meeting provided an important forum for discussing emerging methodologies, current environmental

challenges, and future research directions while strengthening networks within the European research and innovation community.

EDUCATION AND TRAINING

Jožef Stefan Open Days 2025: Promoting Research Excellence Through Public Engagement

JSI participated in the Jožef Stefan Open Days 2025, held on 28 March 2025 in Ljubljana, Slovenia, where project-related research activities were presented to a diverse audience including students, researchers, industry representatives, and members of the public. The event provided an excellent opportunity to showcase project objectives, methodologies, and key findings, while promoting public understanding of scientific research, encouraging stakeholder engagement, and fostering dialogue between the research community and society. Through its participation, JSI contributed to raising awareness of innovative environmental research and strengthening connections with potential future collaborators and stakeholders.



Master's in Environmental Engineering and Management (University of the Basque Country): Guest Master Class on Sustainable Environmental Management



A guest master class was delivered by LEITAT on 6 May 2026 within the Master's Programme in Environmental Engineering and Management at the University of the Basque Country (UPV/EHU) in Bilbao, Spain. The session introduced postgraduate students to current environmental challenges, innovative research approaches, and advanced strategies for sustainable

environmental management. By presenting real-world case studies and discussing emerging policy and technological developments, the activity facilitated knowledge transfer between research and higher education while encouraging critical thinking and professional development among future environmental professionals.

A PRIZE AWARDED TO ICCRAM UBU

ICCRAM (University of Burgos) was awarded the First Prize by the Social Council of the University of Burgos in recognition of its outstanding work on soil health research and innovation. The award acknowledges the impact of several collaborative European initiatives, including BIOSYSMO, TRIBIOME, BIOREM, and PHYBi, among others, which contribute to advancing

soil health, microbial biodiversity, sustainable agriculture, and ecosystem restoration. This recognition highlights the importance of nature-based solutions and biotechnology in addressing environmental challenges and further motivates the continued development of innovative approaches for protecting and restoring soils and ecosystems.



1st Prize
Awarded to ICCRAM (UBU) for
their "Soil Health Project"



UNIVERSIDAD
DE BURGOS



ICCRAM



Funded by
the European Union

Funded by the European Union under the GA no 101060211.



UK Research
and Innovation

ICL is being funded by UK Research and Innovation (UKRI) under the UK government's Horizon Europe funding guarantee (Ref. No 10045495).



KIDS FUN TIME

BIOSYSMO Releases Magazine for Kids in Spanish

To support science education and outreach, the BIOSYSMO Project developed and launched a Spanish edition of its Fun Facts & Puzzles Magazine for Kids, making the project's educational resources accessible to a wider audience. The magazine combines science facts, puzzles, games, matching activities, and colourful illustrations to introduce children to the fascinating

world of microorganisms, environmental science, and bioremediation in an engaging and interactive way. Through this initiative, BIOSYSMO aimed to stimulate curiosity, promote environmental awareness, and inspire younger generations to explore science while learning about the importance of protecting soils, ecosystems, and natural resources.



Check Now!
Our Magazine for Kids
now in Spanish!



 **Funded by the European Union**
Funded by the European Union under the GA no 101060231.

 **UK Research and Innovation**
ICL is being funded by UK Research and Innovation (UKRI) under the UK government's Horizon Europe funding guarantee (Ref. No 10045495).

THE SPANISH COPY IS AVAILABLE HERE!

CHECK MORE HERE!

NEW BIOSYSMO KIDS MAGAZINE

The new BIOSYSMO Kids Magazine was developed as an engaging educational resource designed to introduce young audiences to environmental science and bioremediation through fun and interactive activities. The magazine explains key concepts such as “What is Bioremediation?” and showcases real BIOSYSMO applications, helping children understand how microorganisms can contribute to cleaning polluted environments and protecting ecosystems.

To make learning enjoyable, the magazine includes a variety of games and challenges, such as Spot the Difference, BIOSYSMO Sudoku, a Multiple-Choice Quiz, a Treasure Hunt, a Crossword Puzzle, and a Maze Game, among many others. By combining science, creativity, and play, the magazine aims to spark curiosity, raise environmental awareness, and inspire the next generation of scientists and environmental stewards.



SAYING A BIG THANK YOU TO THE TEAM



Dr Sara Gil Guerrero
BIOSYSMO coordination team
(IDENER)



Dr Lila Otero
BIOSYSMO coordination team
(IDENER)



Dr Akanksha Mishra
BIOSYSMO coordination team
(IDENER)



Dr Rocio Barros
(ICCRAM UBU)



Prof Blanca Velasco
(University of Burgos)



Dr Aqib Hassan Ali Khan
(University of Burgos)



Dr Ales Lapanje
(Jozef Stefan Institute)



Dr Tomaž Rijavec
(Jozef Stefan Institute)



Dr Patricio Ivan Cano Santana
(BSY)

SAYING A BIG THANK YOU TO THE TEAM



Prof Michel Chalot
(Université Marie & Louis
Pasteur)



Dr Alfredo Pérez de Mora
(TAUW)



Dr Eduard Borràs
(LEITAT)



Dr Diana Losantos Velasco
(LEITAT)



Arturo Redondo López
(Universidad Autónoma de
Madrid)



Dr Ioanna Katsavou
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Dr Ana Paula Mucha
(CIIMAR)



Ana Margarida Matos Pereira
(CIIMAR)



**Dr Cristina Marisa
Ribeiro de Almeida**
(CIIMAR)

SAYING A BIG THANK YOU TO THE TEAM



Sotiria Tzampazidou
(AXIA Innovation)



Prof Jose Jimenez Zarco
(Imperial College London)



Alberto Soto Canas
(University of Burgos)



Dr Humberto Castillo-Gonzalez
(UMLP)



Dr Ruben Martinez Lopez
(LEITAT)



Dmitrii Deev
(Jolief Stefan Institute)



Dr Jose Carlos Castilla Alcantara
(University of Burgos)



Dr Emmanuelle Vulliet
(CNRS- ISA)



Dr Maja Zupan
(Jolief Stefan Institute)

MEET THE BIOSYSMO CONSORTIUM



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and Innovation

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