

Newsletter #2

Welcome!

Welcome to the second newsletter of the Phy2SUDOE project. This newsletter series provides you with updated information on our project progress, achievements and important forthcoming activities.

Phy2SUDOE ("Advancing in the application of innovative phytomanagement strategies in contaminated areas of the SUDOE space", SOE4/P5/E1021) is a project funded by the European Regional Development Fund (European Commission) through the Interreg Sudoe Programme. Phy2SUDOE is a continuation of the PhytoSUDOE project, in which a network of sites was formed to be phytomanaged in the SUDOE region.

Phy2SUDOE aims to value sites contaminated with metals-metalloids and / or organic compounds in the SUDOE region through the use of phytomanagement strategies aimed at the generation of ecosystem products and services in these sites, while minimizing the environmental impact of pollutants could cause. Likewise, this project aims to implement strategies for the conservation of endemic biodiversity typical of some contaminated sites (e.g, plant growth-promoting bacteria, metallurgical flora, etc.) due to their intrinsic and utilitarian value (e.g., biotechnological applications).

This second newsletter includes a brief introduction to the project progress, which offers in-depth information about project results, publications related to the project, as well as Phy2SUDOE partners.

Enjoy reading,

Carlos Garbisu

Coordinator of the Phy2SUDOE project.

VIDEO: GERMPLASM BANK IN VITORIA-GASTEIZ

From Phy2SUDOE we have made this video to show you where and how the metallicolous plants provided by the project partners are conserved in order to store them for a future use.

Agustí Agut and Brais Hermosilla, curator and technician respectively at the Olarizu Botanical Garden, briefly explain the processes to which the plants are subjected for their optimal conservation in their germplasm bank.





New publications

SAMPLING OF SEEDS, SOILS AND INVERTEBRATES AT THE SENTEIN SITE

Thanks to the research team of Dr. F. Delerue (INP-Bordeaux /ENSEGID, France), he and Dr. M. Mench (INRAE) were sampling seeds, shoots, soils and invertebrates at the Sentein site, a former Pb/Zn mining area.



Read more



IDENTIFICATION AND CONSERVATION OF THE ENDEMIC BIODIVERSITY OF SITES CONTAMINATED BY HEAVY METALS AND THEIR POTENTIAL USE IN BIOTECHNOLOGICAL APPLICATIONS

Last July, teams from the University of the Basque Country (UPV/EHU), the Olarizu Botanical Garden (Vitoria-Gasteiz), and Neiker went on a joint field trip to collect several samplings in the Lanestosa mining site, with the aim of identifying and conserving the endemic biodiversity of sites polluted by heavy metals and studying their potential use in biotechnological applications.





Advancing in the application of innovative phytomanagement strategies in polluted sites in southwest Europe

CHARACTERIZATION OF TOLERANT BACTERIA TO METALS ACCORDING TO ITS CAPACITY TO PROMOTE THE VEGETAL GROWTH

To participate to the implementation of strategies for the conservation of the endemic biodiversity typical of some contaminated sites due to their intrinsic and utilitarian value, Portuguese Catholic University and NEIKER are working on the isolation and characterization of bacteria from metalliferous environments according to their capacity to promote plant growth (PGPB).







POT EXPERIMENT WITH BLACK POPLARS ON THE DURANDEAU SOIL (SITE NS1)

In March 2021, soil was sampled at the Durandeau site (NS1) by HPC-Envirotec in the 0.05 – 0.90 m soil layer under the supervision of the Charente County. This corresponded to the North-East angle of the site, which would display high metal(loid) and TCE (trichloroethylene) concentrations in the soil.

Read more

Workshop in Porto

1ST PHY2SUDOE WORKSHOP PRESENTATIONS AVAILABLE!

On 8th of July, partners met in Porto (portugal) to organize the first workshop of Phy2Sudoe.

The presentations of the first PhytoSUDOE workshop, held virtually on July 8 and hosted by the Universidade Católica Portuguesa, are now available in our Youtube channel.





Progress of the project

Progress of GT1

GT1 is the work package aimed at the maintenance of the old PhytoSUDOE project experimental sites and monitoring of the phytomanagement benefits. Its specific objectives are the assessment of the long term performance of the phytomanagement options; correction of potential deviations of the contamination control; long term maintenance of phytomanaged areas; design and implementation of protocols; and design and implementation of tools.

Read more

Progress of GT2

GT2 is the work package focused on expanding the PhytoSUDOE network, with the addition of new sites and phytomanagement options under a variety of soil and climatic conditions.

Read more

Progress of GT3

GT3 focuses on the conservation (in situ and ex situ) and promotion of biodiversity at mining sites. Efforts will focus on the conservation of metal plants and metallophytes, as well as other organisms (animals, micro-organisms) adapted to environments with high levels of metals, for future biotechnological applications.

Read more



Advancing in the application of innovative phytomanagement strategies in polluted sites in southwest Europe

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The project Phy2SUDOE (SOE4/P5/E1021) is supported by the European Regional Development Fund (European Commission) through the V Interreg Sudoe Programme.