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### **Incorporating Nature-based Solutions** in schools: Evaluation of student learning,



my building is green

## climate adaptation and environmental awareness

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#### BACKGROUND

The inclusion of vegetation and Naturebased Solutions (NbS) in schools provides numerous benefits through hands-on experiential learning and address climate change adaptation and enhances well-being. However, there is a lack of plant and innovative systems content for students, contributing to disconnection from nature, ignorance of the biodiversity crisis, and inability to address it. Therefore, it is important to include NbS in schools, both for climate adaptation and to support ecosystem services knowledge.

context, LIFE In this in the **MYBUILDINGISGREEN** project, we evaluated the environmental and social impacts from NbS implementation in the **CEIP GABRIELA MISTRAL, SOLANA DE** LOS BARROS (BADAJOZ – SPAIN)



#### **METHODOLOGY**

**SURVEYS** To assess how NbS influences school community' understanding of ecosystem service provision and their comfort perception GREEN ROOFS – 3 types (CUVE-SUS; CUVE-1; CUVE-2), new green area: 420 m<sup>2</sup>



GREEN FACACES - 2 types (FAVE-1; FAVE-2), new green area: 400.5 m<sup>2</sup>











**GREEN PAVEMENT -** 2 types (SUVE-1; SUVE-2), new green area: 456.7 m<sup>2</sup>

**GREEN PERGOLA** - 2 types (PEVE-1; PEVE-2), new green area: 173.3 m<sup>2</sup>





#### **RESULTS** - Evaluation of the impacts resulting from NbS implementation





Challenge: Governance and participation

**TEMPERATURE MEASURES** To assess how NbS impact on reduction of surface, indoor, and outdoor temperatures

> Challenge: Climate Change mitigation and Adaptation

BIODIVERSITY **SURVEYS** To assess the impact of NbS on the increase of local plant and animal biodiversity

> Challenge: Green Areas management



CONCLUSIONS - In conclusion, NbS proves to be an effective approach not only for enhancing ecosystem services in schools but also for fostering botanical knowledge through active learning based on experience.





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