Almada, Portugal NbS in Education: You will never see dunes the same way **ReDuna - Restoration of S. João da Caparica Sand Dunes**



https://oppla.eu/casestudy/22495









The project is not only a practical As part of the ReDuna project, example of the successful use of international students were able NbS, but also part of the project to gain important experience Nature-Based Solutions Education Network (NBS EduWORLD), which aims to build broad social competence in the field of NbS. Among other things, a central component was the development of various learning scenarios, including 'S.O.C: Save Our Coasts (and Souls)', which familiarises pupils with the effects

NbS in depth



Social benefits

The ReDuna project strengthens social commitment and awareness of the importance of nature conservation measures. The active involvement of pupils and students in the restoration work is particularly noteworthy. By helping to install fences, plant native species and remove invasive plant species, they are contributing to the sustainable development of the region while also receiving valuable, practical training. This raises awareness of the challenges posed by climate change and promotes sustainable thinking among the next generation.

In addition, the project creates close collaboration between different stakeholders - from local communities and NGOs to educational institutions and international volunteer organisations. This collaboration strengthens the sense of community and shows how collective efforts can bring about great environmental change.



of coastal erosion and promotes

solutions through NbS.

Environmental benefits



The restoration of the dune landscape significantly strengthens the local ecosystem. The planting of 100,000 native plant species helps to stabilise the dune structure and encourages the arrival of 49 new animal species that are now colonising the area. This increasing biodiversity contributes to the resilience of the ecosystem by supporting the natural processes needed to protect the coast against erosion and storms.

Economic benefits



Restoring the dunes not only tackles climate change impacts, but also has significant economic benefits. Almada is a popular tourist destination, and protecting the beaches is crucial to continue

This shows that sustainable coastal protection measures not only bring ecological and social benefits, but can also have a positive economic impact on the region.

with NbS through practical volunteer work. This collaboration demonstrates how NBS EduWORLD combines education and hands-on projects to promote sustainable coastal protection and sensitise young people to environmental change.

In addition, the NbS measures restore the natural balance between beach, dune and ocean, which stabilises sediment dynamics in the long term and reduces the risk of coastal erosion. The ability of the dunes to store carbon and thus contribute to the reduction of greenhouse gases emission is particularly noteworthy. The plant roots form a dense network that not only stabilises the sand, but also acts as a natural carbon store.

welcoming the 8 million annual visitors. By slowing coastal erosion and stabilising the beaches, the ReDuna project directly contributes to maintaining the tourism infrastructure, which is an important source of income for the region.

Want to learn more about NbS Education?

The project also creates jobs in the area of dune care and maintenance. The regular maintenance of the fences, reforestation and the use of invasive species control techniques provide long-term employment opportunities for the local population.



https://nbseduworld.eu/

NBS EduWORLD

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Network Selected Nature case studies

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