

Nature-based Solutions on existing infrastuctures for resilient Water Management in the Mediterranean

Lake Chimaditida, Greece CS2

One of the 5 Case Studies in the NATMed PRIMA **Project** 







**Welcome to Lake Chimaditida** 

Natura 2000 protected wetland Amyntaio, Northern Greece, known for its exceptional biodiversity, rare bird species, and rich aquatic life.





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The uncontrolled spread of read beds.



## **NATMed Solution**

Innovative yet traditional solution: controlled grazing by Greek buffaloes.





### **Smart Buffalo Grazing**

- Buffaloes graze in movable electric fences;
- GPS collars track their movements:
- A digital platform collects data for ecosystem safety.





# **Technology and Monitoring**

Scientists also use Earth Observing Systems (EOS) to monitor vegetation and water quality.



# **Results - Ecological Benefits**

- Strengthens the lake's role as a natural carbon sink;
- Contributes to climate neutrality goals;
- Supports smarter and more sustainable water use;
- A natural, low-impact, and climate-friendly method.



## **Community and Future Outlook**

Lake Chimaditida is becoming a living laboratory, where tradition, innovation, and involvement of local stakeholders meet to protect biodiversity and inspire future generations.



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