

GeoIKP

Platform for Nature-based Solutions as mitigation measures for hydrometeorological hazards

Joy Ommer KAJO 25th May 2022





Nature-based Solutions

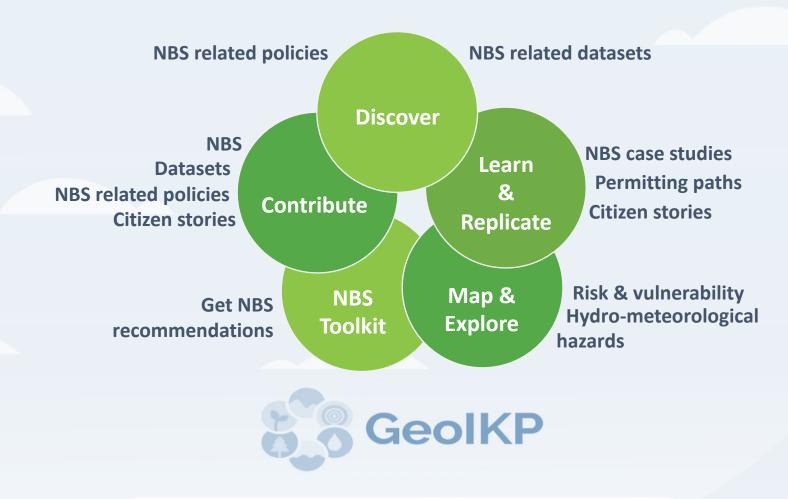


'Nature-based Solutions are actions to protect, conserve, restore, sustainably use and manage natural or modified terrestrial, freshwater, coastal and marine ecosystems, which address social, economic and environmental challenges effectively and adaptively, while simultaneously providing human well-being, ecosystem services and resilience and biodiversity benefits.'

(United Nations Environment Assembly (UNEP/EA5/L9/REV.1))



Platform for Nature-based Solutions

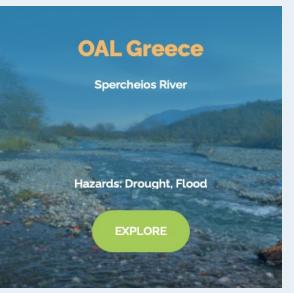


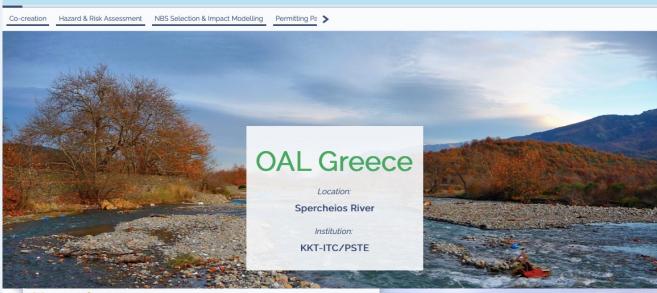






Open-air Laboratory in Greece





OAL Greece

Hazards

- Floods
- Droughts

Floods and droughts are serious hydro-meteorological risks identified in the region of East-Central Greece, that lies the river of Spercheios. Rainfalls and riverbank overflows cause flood events regularly. It is calculated that the mean yearly precipitation for the period 1980-2010 is up to 788 mm. Meanwhile during the summer months, due to irrigation demands, the area also faces water scarcity.









Citizens Getting Active



Flood and drought prevention through collaboration between citizens, the municipality and local experts

Greece, Sterea Ellada
Flood, Drought



Basic info

Hazard: Flood, Drought

Nature-based Solution: 1. Restoration and stabilization of the river banks, cleaning the bed material loasd and widening the river bed 2. Re-meandering the river course 3. Flood storage reservoir with an earth dam

How it started

Starting point: community

First approaches: municipality

Getting started: Yes, I knew a few people who had the same issue that we cannot go to work sometimes because the bridge is flooded. Together we asked the

municipality for holp







Risk Identification & Site Selection

NBS

Nature Reserves (OAL EL)

Railroad Network (OAL EL)

River Network (OAL EL)

Settlements (OAL EL)

Weather Stations (OAL EL)

Water Areas (OAL EL)

Water Bodies (OAL EL)

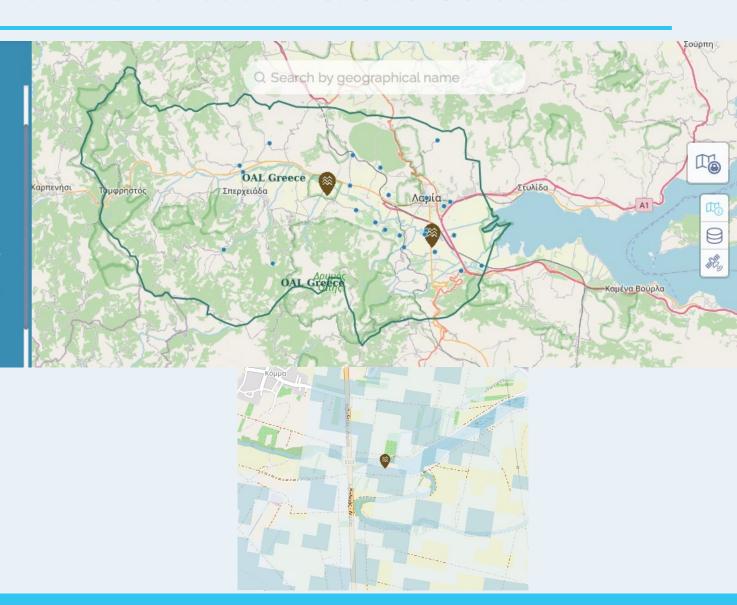
Average Daily Temperature (OAL EL)

Average Daily Precipitation (OAL

Disaster Events (OAL EL)

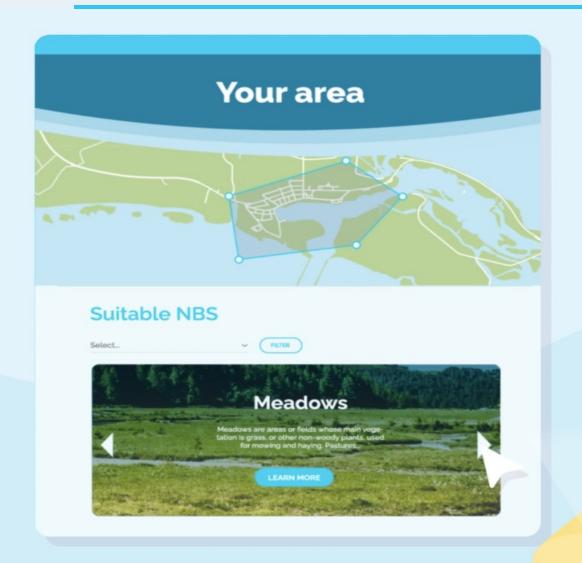
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Flood Events (OAL EL)





NBS Selection







Explore NBS Examples

Search NBS...

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Flood, Drought



Intervention type (e.g. green roofs)







SEARCH



A green roof for environmental education at the Aimé Césaire School, Nantes, France

Hazard

Flood



Switzerland Goverment recognizes the protective capacity of forest against snow alanches and landslides

Hazard

Snow Avalanche Soil Erosion Flood



Water retention basin as water resource for agriculture and flood prevention, Giavenale di Schio, Italy

Hazard

Flood

Meteorological Drought



One Platform Fits All

- ✓ Open-source
- ✓ User customised
- ✓ User-friendly



Scientist

Universities and research organisations engaged in research and development and training of individuals and/or organisations.





Business & Investors

Privately owned profit-orientated business and industrial groups.



Policy-maker

National and local government; organizations which possess membership of more than one country. Public and semi-public entities that have interest in OPERANDUM related topics.



Association

Associations of categories, organizations, interest group.



Citizen

Any person living in close proximity of an OAL or NBS, directly or indirectly impacted or having an influence on the functioning of the OAL or NBS.

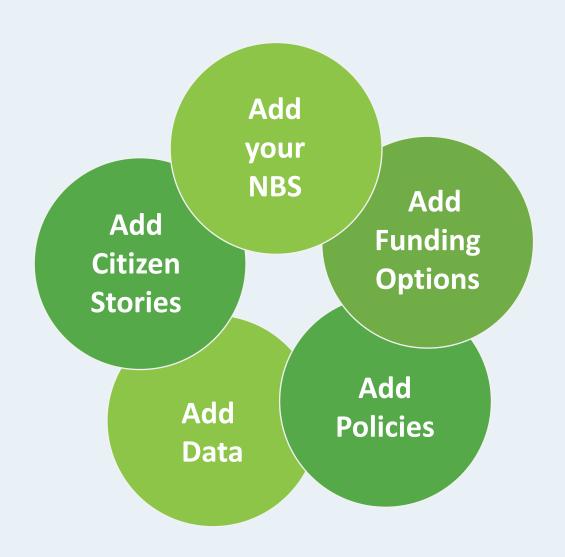


News & Media

Any other stakeholder that might use OPERANDUM's GeoIKP to acquire information about the project or NBSs, including social media and news outlets.



Shaping the Platform Together





Links

The GeolKP Platform:

https://geoikp.operandum-project.eu

The GeoIKP video:

https://youtu.be/WRLnVSO3dMk

NBS Toolkit video:

https://geoikp.operandum-project.eu/nbs/toolkit

The OPERANDUM website:

https://www.operandum-project.eu



Thank you!

www.operandum-project.eu

solUtions to Manage hydro-meteo risks

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