

CLIMATE CHANGE

Adaptation and Nature-based Solutions

Humans are Responsible for Global Warming

Climate change refers to long-term shifts in temperature, precipitation, and other atmospheric patterns.

Some Consequences of Climate Change



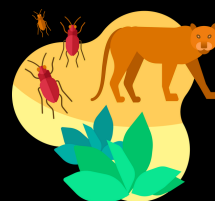
Extreme Weather, e.g. floods and wildfires.



Sea Level Rise



Lack of Fresh Water and Food



Loss of Biodiversity



Health risks for humans, animals and plants



Lower crop yields and less suitable areas for crop cultivation



Damage on infrastructure, Buildings and Forests



Poverty and Displacement

Climate change is happening. Now.

We need to take measures to slow down global warming but also to adapt to the changing climate — to protect people, animals and nature.



What is Adaptation?

Climate change adaptation refers to measures aiming to **decrease the vulnerability to the impacts of climate change**, such as flood prevention and including more trees in a city to shelter from heat and improve water absorption.



Did You Know?

Fossil fuels are by far the largest contributor to global climate change, accounting for over 75 % of global greenhouse gas emissions and nearly 90% of all CO₂ emissions.

What are NBS?

Nature-based Solutions (NBS) are solutions to societal issues inspired and supported by nature, increasing resilience and providing **environmental, social and economic** benefits, such as:

- Bring more nature into cities
- Benefit biodiversity
- Improve the health of citizens
- Improve climate change adaptation and mitigation



Examples of NBS Good Practices

Blue Deal Flanders, **Belgium**, an action plan combating water scarcity and drought with NBS, e.g. ponds, buffer basins, natural grasslands and green roofs.



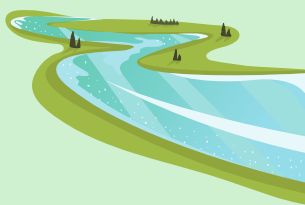
NATURAVITA, a strategic project focused on demining, restoration, and protection of forests, forest land, and water resources, **Croatia**.

A project at Näätämö River, **Finland**, restoring parts of the river, crucial for local people and fish populations and many other natural species.



Program Priorytetowy Moja woda , giving grants for homeowners to construct backyard rainwater retention systems, **Poland**.

La Marjal, an urban park designed to replicate a wetland that can store water during heavy rainfall, **Spain**.



Constructing natural barriers at the side branch of the Szilágyi stream to slow and prevent flooding, **Hungary**.

Did You Know?

In addition to NBS role in climate change adaptation, the World Bank estimates that nature-based solutions can provide **37% of the mitigation needed** until 2030 to achieve the targets of the Paris Agreement aiming to limit the temperature increase to 1.5°C above pre-industrial levels.



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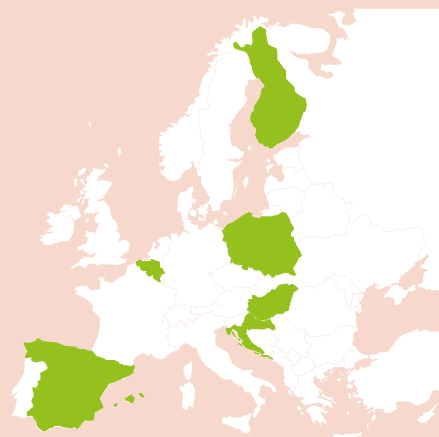
NBS4LOCAL

NBS4LOCAL

Adopting Nature-Based Solutions to Improve the Climate Resilience of Local Governments

The Project

- Aims to **improve policies** in 6 European countries to foster **climate change adaptation** and the usage of **NBS**.
- March 2023 - May 2027
- Budget 1,819,180 €
- 8 partners



Did You Know?

With the current climate policies the world is on the track of global warming of 2,5 degrees celsius, estimates the UN.

Instead of cutting emissions, current commitments will increase emissions by 10.6% by 2030. Therefore there is an urgent need for mitigation and adaptation actions as well as policy improvement.



So What Do We Do in NBS4LOCAL?

- Bring in **stakeholders** and **policymakers** to work together for **climate change adaptation** and **NBS**
- Collect **Good Practices** and learn from each other
- Organise **peer review meetings** to discuss policy challenges in depth
- Help build the capacities of **regional and local authorities** and stakeholders
- Survey regional needs for NBS implementation and map financing options for NBS.

And most of all: **improve regional policies!**



Some Challenges We Aim to Help With

Draught and floods



Outdated grey infrastructure solutions



Lack of awareness of NBS



Loss of Biodiversity



Crop loss and soil degradation



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Read more at: <https://linktr.ee/nbs4local>