

Mainstreaming Nature-based Solutions into Policies and Strategies

– Lessons from the NBS4LOCAL Partnership

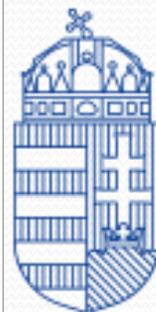
Managing Authority for Environmental and Energy Efficiency Operational Programs

(Ferenc Réder, chemical engineer, bioengineer, development policy advisor, Water Framework Directive, strategy officer – ferenc.reder@nfk.gov.hu, +36 70 1995978)

**Interreg
Europe**



Co-funded by
the European Union



NATIONAL
DEVELOPMENT
CENTRE



**Széchenyi Plan
Plus**

Let's build
Hungary together!

NBS4LOCAL



vizválasztó

Watershed
Initiative



VÍZ KOALÍCIÓ

Water Coalition



City and the
River

Canticle of
the Sun



Great Lakes and Wetlands Alliance

#VízŐrzők
Water Guardians



Beaver
Believers

Managing Authority for Environmental and Energy Efficiency Operational Programs (Cohesion Fund, European Regional Development Fund)

Horizon

Life



LIFE-MICCAC projekt
LIFE16 CCA/HU/000115



TECHNICAL SUPPORT INSTRUMENT



LOGOS
4 WATERS



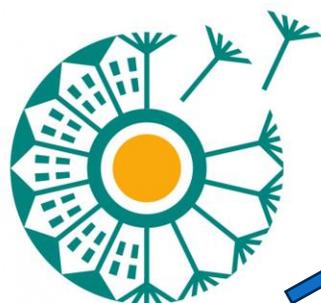
New
legislation



New GBI Call for
Municipalities
CF, ERDF 0.1bnEur



Interreg



BURST
FOR URBAN DEVELOPMENT



New
GI Guidance

„NBS4LOCAL - Adopting Nature-based Solutions to Improve the Climate Resilience of Local Governments” INTERREG EUROPE project

Objective: The aim of the projects announced in the Interreg Europe (IE) programme is to further develop a related policy/development policy instrument (e.g.: tender structure) with the intention of incorporating international good practices into the selected instrument (here: nature-based solutions).

Budget: 1.819.180 €

80% EU support, 20% cofinancing

Lead partner: Ministry of Public Administration and Regional Development (Hungary)

Project partners:

Flemish Land Office (Belgium)

Regional Council of Lapland (Finland)

Regional Development Agency of Rzeszów (Poland)

Provincial Council of Alicante (Spain)

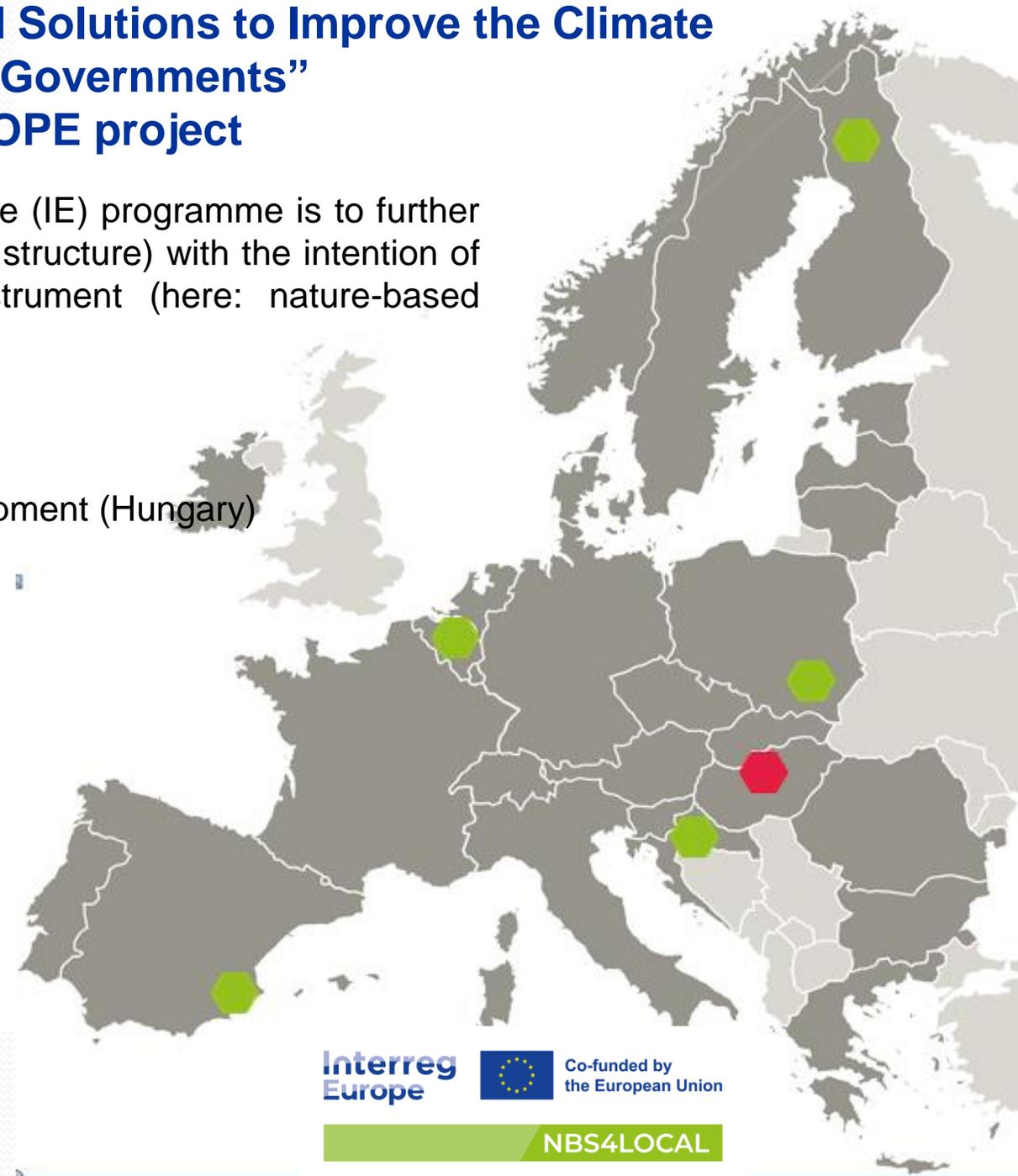
Centar kompetencija d.o.o. for innovation and development (Croatia)

BURST Nonprofit Limited Liability Company (Hungary)

EEE OP MA, National Development Centre (Hungary)

Project schedule: 01.03.2023. – 31.05.2027.

+ a PILOT project for crowdfunding NBS projects



Interreg
Europe

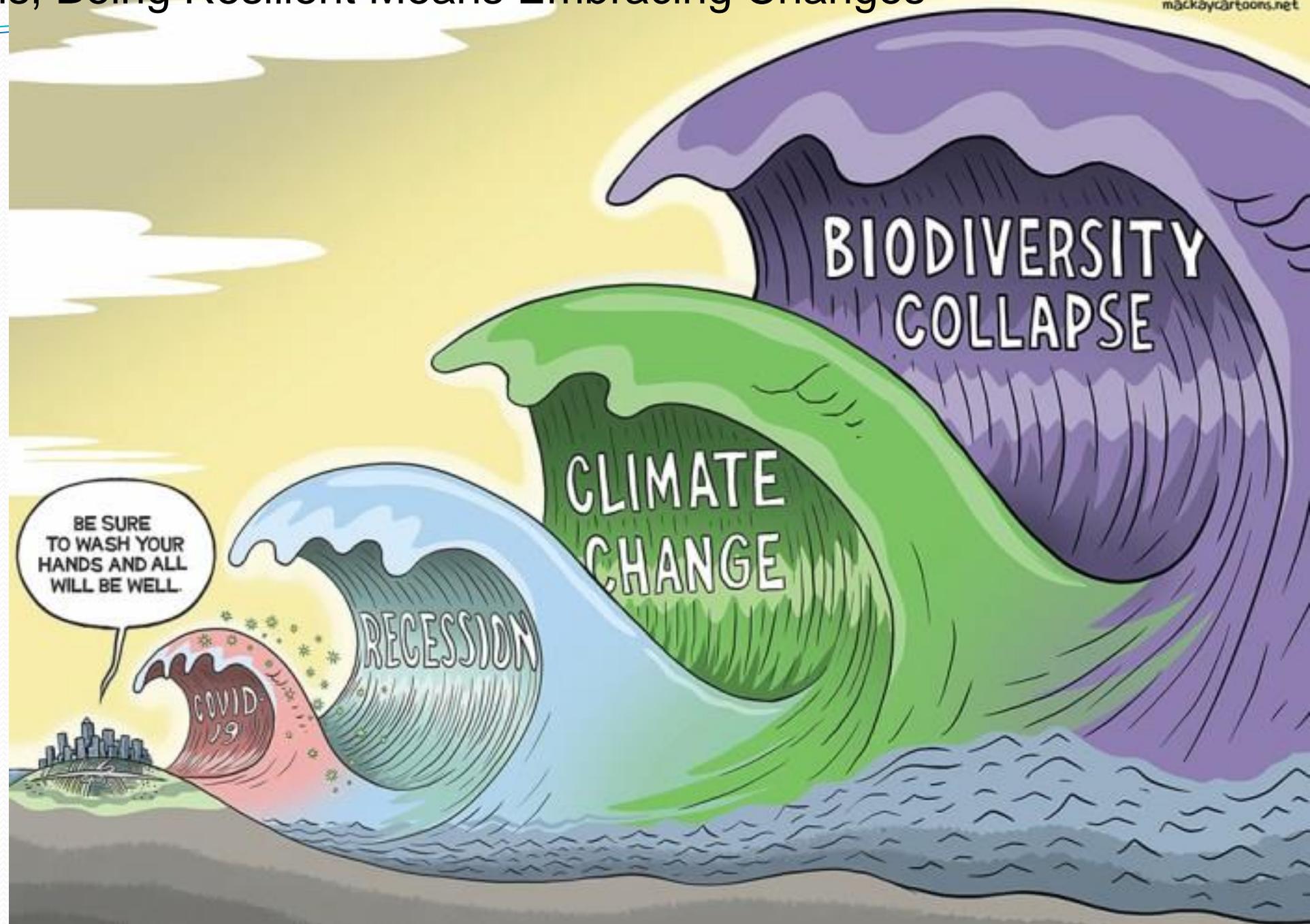


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NBS4LOCAL

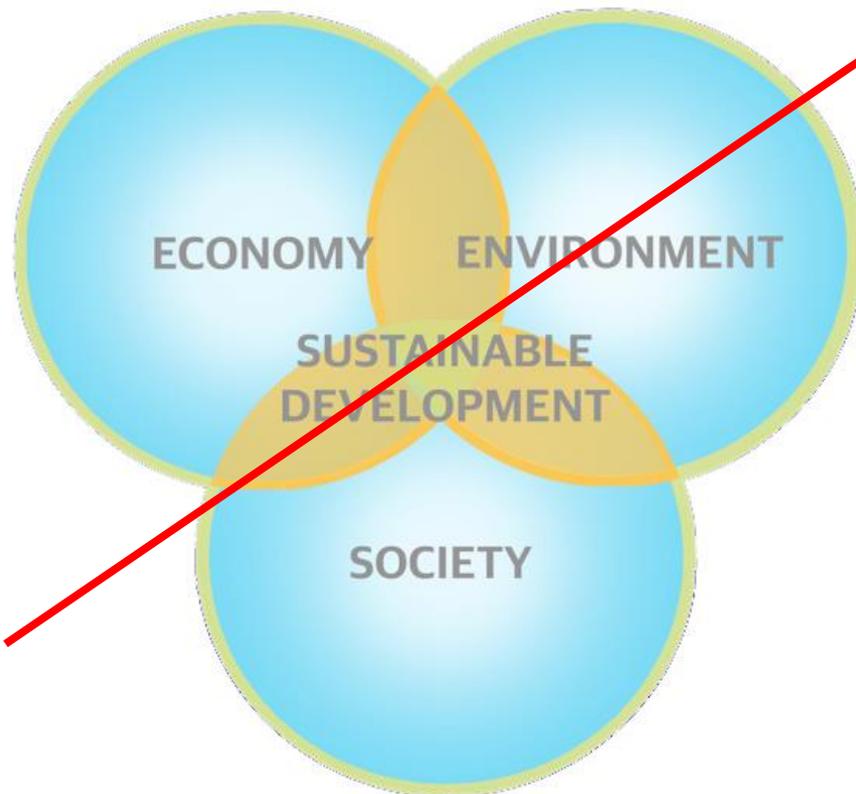
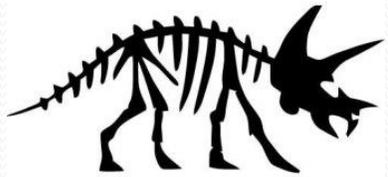
„In Times of Polycrisis, Being Resilient Means Embracing Changes”

- Strategic mistake to focus on a single wave, even climate change
- Strategic mistake to single out one cause, like CO₂

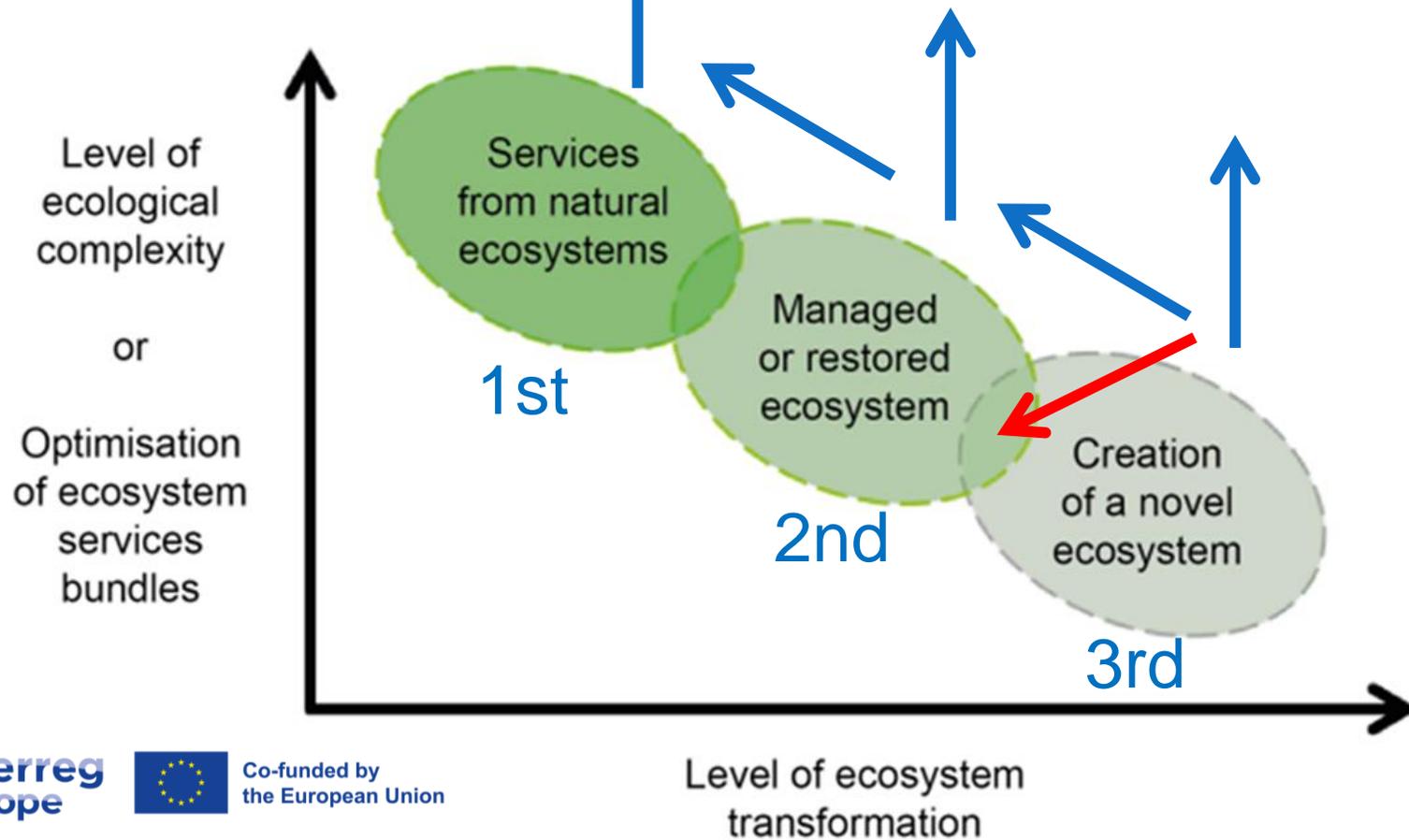


Sustainable Development Models

Competing circles - Wedding-cake



Biodiversity net-gain **The Compass**

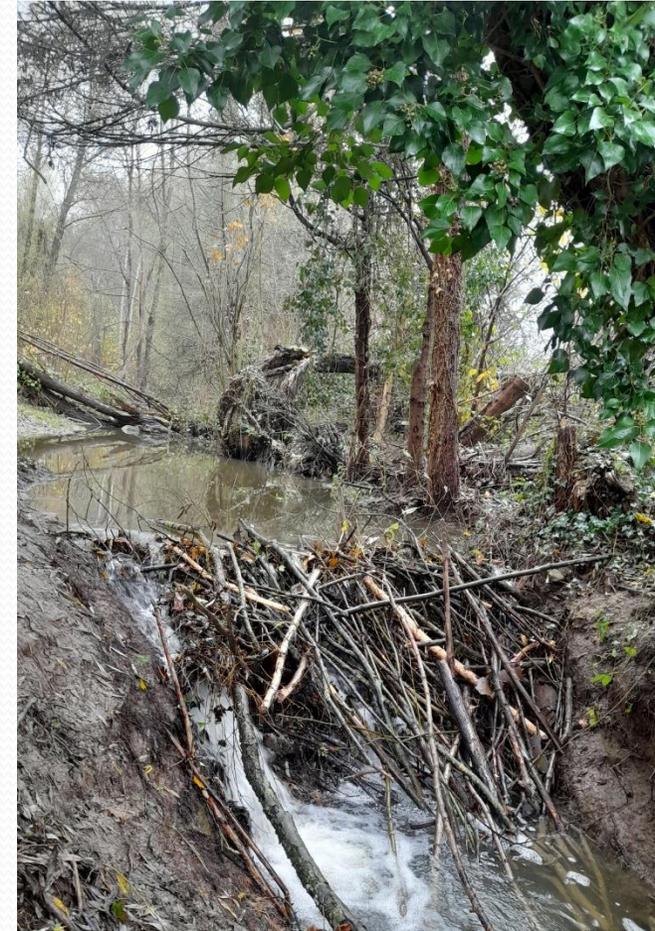


Do no harm:
The only way is
toward a more
natural, more complex
ecosystem.
Stronger than DNSH!

- Temporary effects???
- Vegetation has an establishment period.
- How long might it last???
- Optimally not over the end of the obligatory 5-year maintenance period.

Figure 8 The relationship between ecological complexity and ecosystem services optimisation, and the level of engineering ecosystems. (Adapted from Balian, Eggermont & Le Roux (2014))

Flanders – BlueDeal & RiverContract



IJse valley, Brussels region, NBS
Watershed-restoration interventions

Blue Deal: 343 mio € Funded by the Flemish Resilience Plan

Impact
monitoring to
evaluate cost-
efficiency and
cost-
effectiveness



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NextGenerationEU

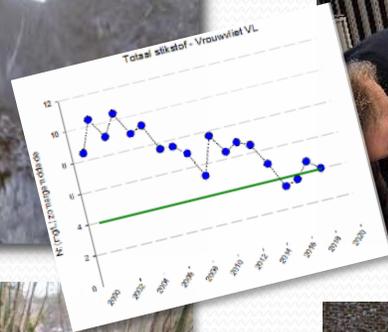
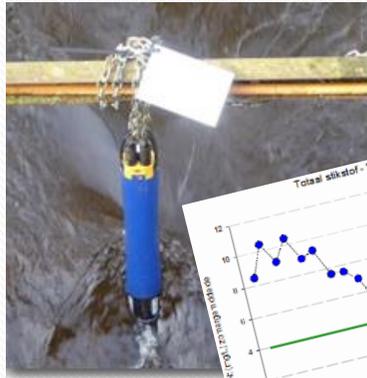
www.bluedeal.vlaanderen

Integrated projects

Analysis

Participation

Realisation



Example: Integrated project Ijse – River Contract

The screenshot shows the website for the Ijse River Contract. The header includes the logo for 'Integraal Waterbeleid Dijle- en Zennebekken' and navigation links for 'Overleg', 'Stroomgebiedbeheerplannen', 'Regelgeving', 'Beleidsinstrumenten', and 'Bekken'. A search bar is also present. The main content area features an 'Intro' section with text about the Ijse catchment area and a large blue banner with the URL 'www.integraalwaterbeleid.be/ijse'. Below the text are several images: a river landscape, a map of the catchment area, and a view of a dam or weir structure.

This infographic, titled 'WATER AAN ZET IN DE VALLEI VAN DE IJSE', provides information about the 'DIJLE-ZENNE BEKKEN'. It includes sections such as 'UITDAGING IN VLAANDEREN', 'Drak op waterproeven groei', 'Verandering is nodig', 'Hoe pakken we het aan?', and 'SAMEN ROND DE TAFEL VOOR BETER IJSEWATER'. The infographic features a large photograph of a river flowing through a lush green valley. At the bottom, there are logos for various stakeholders including 'Vlaamse overheid', 'Midden- en Kleinbedrijf', 'Agroflora', and 'Natuurpunt'.



Integrated project IJse

- Land development IJsevallei (VLM)

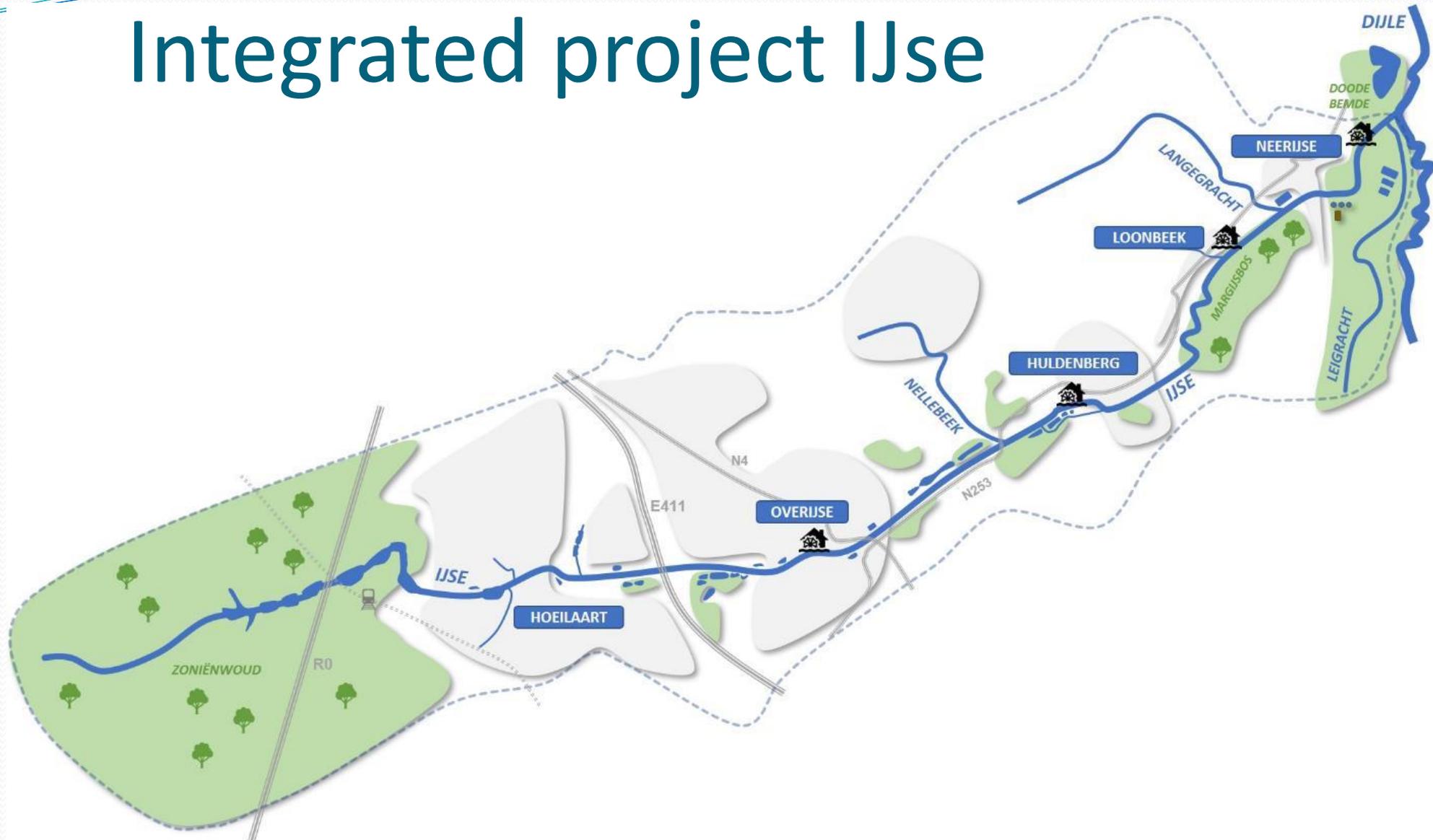


Integrated project IJse

- Erosion



Integrated project IJse



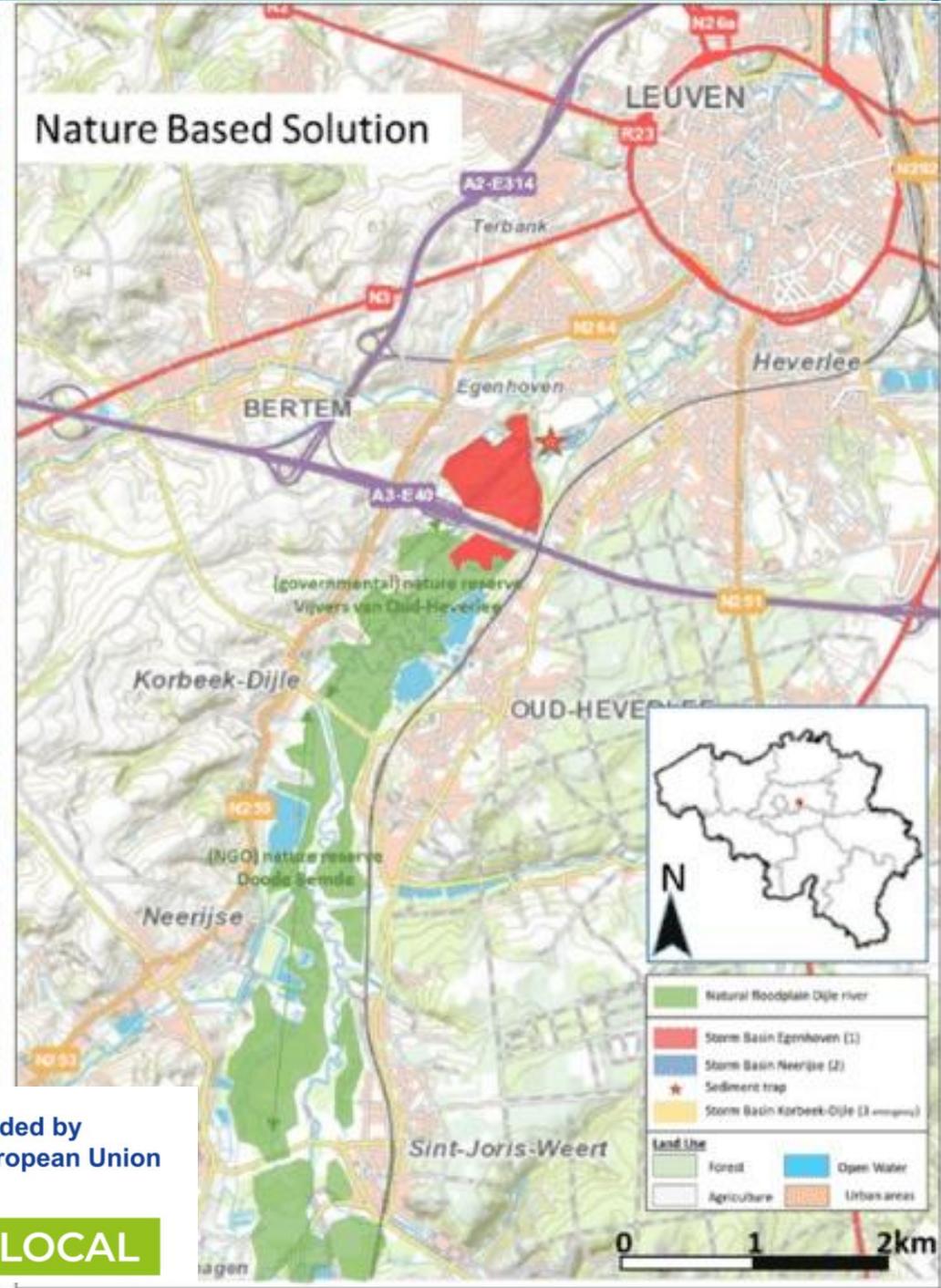
Dijle - Leuven

20 years of discussion

- Improving water quality

- Dynamic flood models

- Habitats



Interreg Europe



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NBS4LOCAL

Do
Nothing

-

Stop
mismanag
ement

-

Change
Landuse

-

Remove
Bankprote
ction

-

Let
beavers
beav

Dijle - Leuven





Too clean
Too nice
-
New
conflicts,
tourism



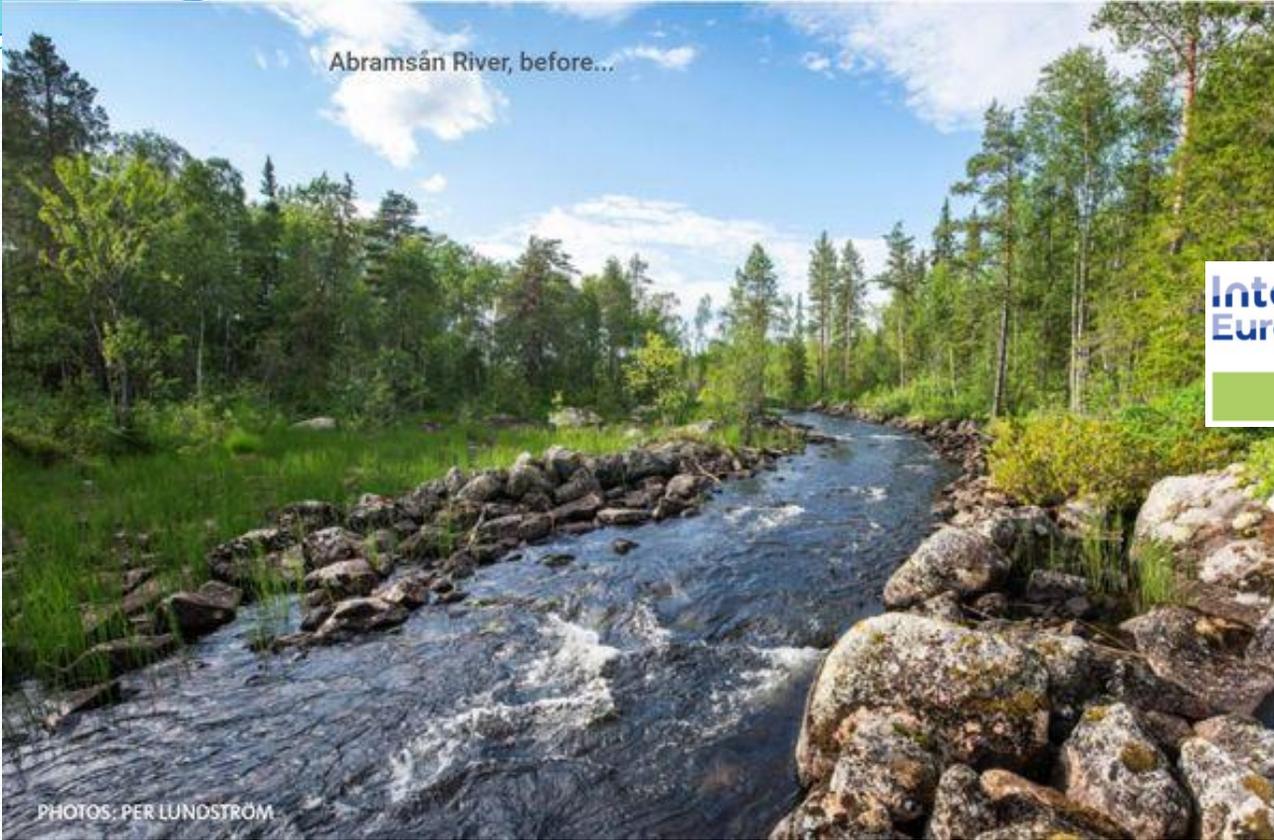
NBS4LOCAL Interreg Europe project partner meeting - Inari

28-29. 05. 2024.



Shifting Baseline Syndrome

Abramsán River, before...



PHOTOS: PER LUNDSTRÖM



Interreg
Europe

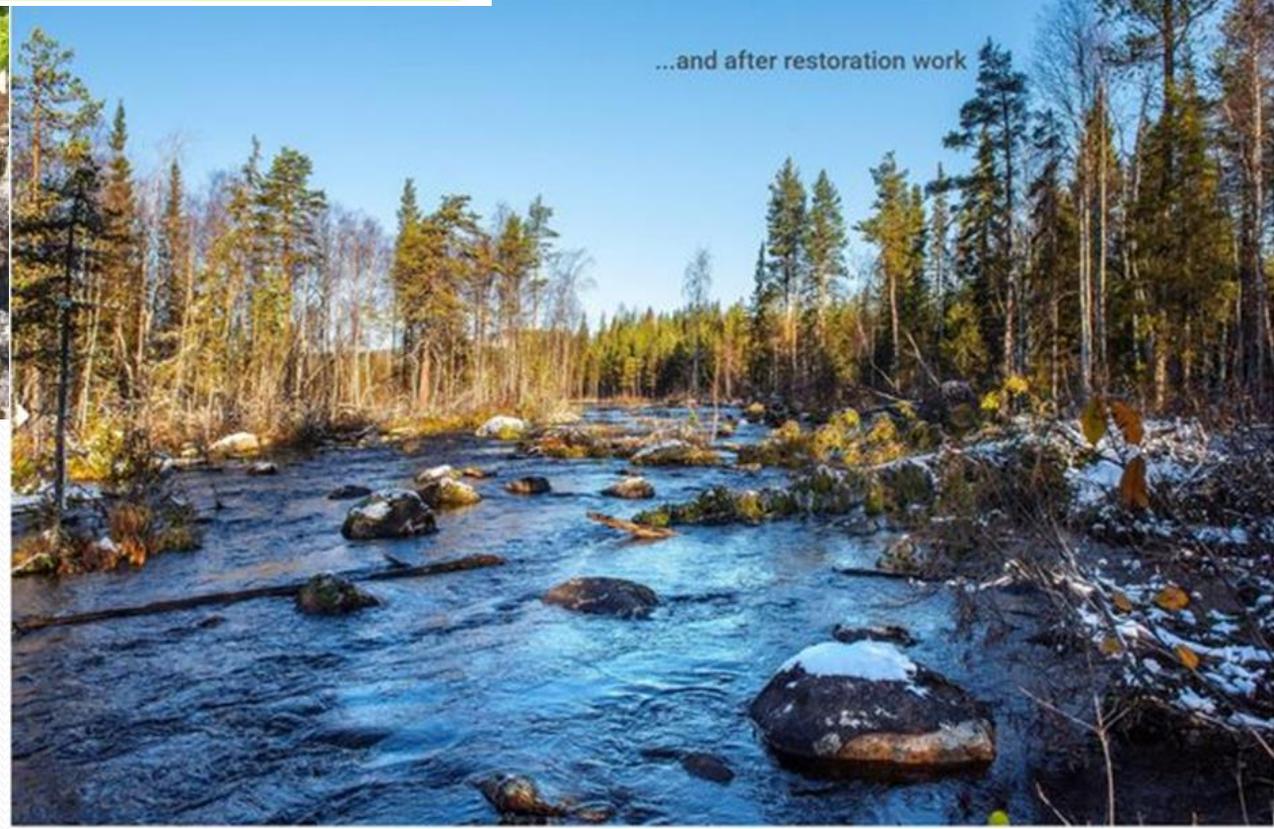


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NBS4LOCAL



...and after restoration work



Snowchange Cooperative

2009-2013: determination of reference status based on ecological and traditional knowledge

<https://www.snowchange.org/2018/02/co-management-efforts-expand-significantly-in-naatamo-watershed-finland/>

'Established management' of Salmon Rivers (post-WW2), Finland and Norway

1. Knowledge basis: Science and management by state (power flows from top to the local communities)→
2. Actions, quotas, conservation and management by state agencies→
3. Local communities are notified, and they can 'express opinions' about decisions→
4. Cross-border state commissions harmonize salmon management issues

B.a.u. top-down vs. co-management

Being challenged by emerging and Indigenous-led

'Collaborative management' of Salmon Rivers (post-2011), Finland and Norway

1. Knowledge basis: Science and management by state and Indigenous and local knowledge on status, trends, past events, equity and community-based monitoring (power is shared and it travels across levels of agencies and actors)→
1. Actions, quotas, conservation and management through a co-management contact group, sometimes a council, in consensus→
2. Local communities are fully involved, and they can co-decide on salmon issues→
3. Indigenous and state representatives decide jointly using ecosystem and basin approach on issues of the salmon and river

Which one is an NBS?

... and from a larger scope, with more details?



Beaver-restoration - Poland



Strzalowo kerület, 200 db kisléptékű műtárgy kb. 1/3-át átvették kezelésbe a hódok



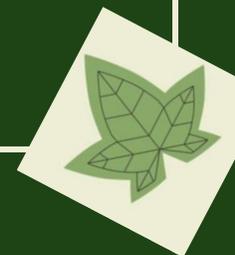
**N. Strzalowo, tama zabudowująca bród,
zwiększenie retencji śródleśnego jeziora**



JADALNY
KRAKÓW

- „Classy garden” – school gardens as a green learning spaces – schools, teachers, kids, parents
- „Edible Krakow” – cultural institution, univesrities, companies, NGOs
- **Community gardens** – district and city cancelors

Common visions –
Liveable city
Happy city
Edible city





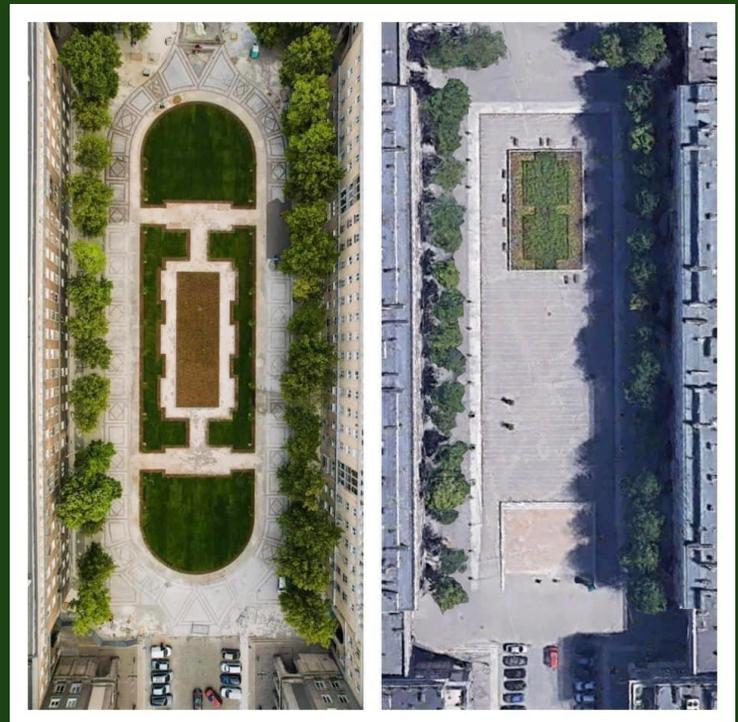
GREY to GREEN

Green neuroplastiCity

PARTICIPATORY
BUDGET

Global uniCity

NEW ALEJA RÓŻ



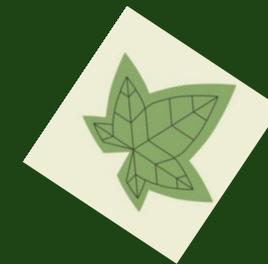
<https://www.facebook.com> Profil: Aleja Róż na nowo





CLIMATE CHANGE

Different departments, no communication – filling the trenches



INTRODUCING
GREENERY
into historic city center

PLAC ŚW. DUCHA

Csömöri-creek Logos4Waters pilot site



Stage 0 Restoration - Tápió River



<https://www.facebook.com/patakrevitalizacio/posts/pfbid0SX4H7JASUiTxo7WwnSqPHFjfU2fL2sEh6oN7AdJtbv4TTCwiwv8UPWQKdZniY3DNI>



Tápió Valley



Beaver restoration

<https://www.facebook.com/patakrevitalizacio/posts/pfbid02xUdmcMgc34kyjxb4y54NAMhaK3kknDmgfAnN49fQ53SB8LfcTj4ar2YRjemJtovSl>

WaterGuardians

<https://www.facebook.com/patakrevitalizacio/posts/pfbid0HGzQUEkok7Fzo7q5z6g6TpHAmZab2J7UD2EKugjDFAn2p7Cm8XGfWjmqdHn8CEUcl>

IT'S ALL ABOUT THE GOOD PRACTICE
**URBAN FLOODPROTECTION BY
 RESTORATION OF CITY CREEK**
 PRESENT STATUS OF TORNA CREEK AT AJKA

Ajka

BIODIVERSITY IS ONE OF THE DEFINING PROJECT TARGET CRITERIA

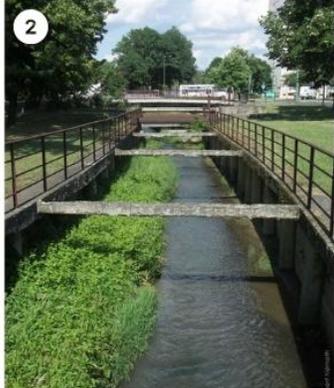


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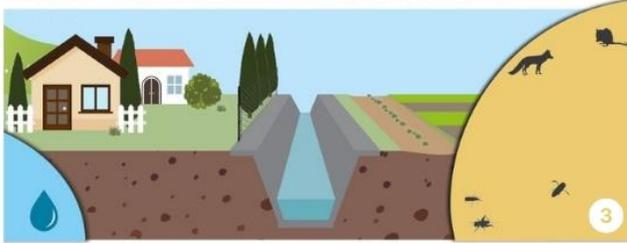
Contact info

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 +36 70 199 5978
 Hungary, Budapest

Source
 Photo 1: Facebook -
 Patakrevitalizáció
 Photo 2: Facebook -
 Patakrevitalizáció
 Photo 3: LOGOS4Waters



2



3



1

Source
 Photo 1: Facebook -
 Patakrevitalizáció
 Photo 2: LOGOS4Waters



Where is
 this Good Practice located?

website of the municipality
 of City Ajka
<https://www.ajka.hu/>



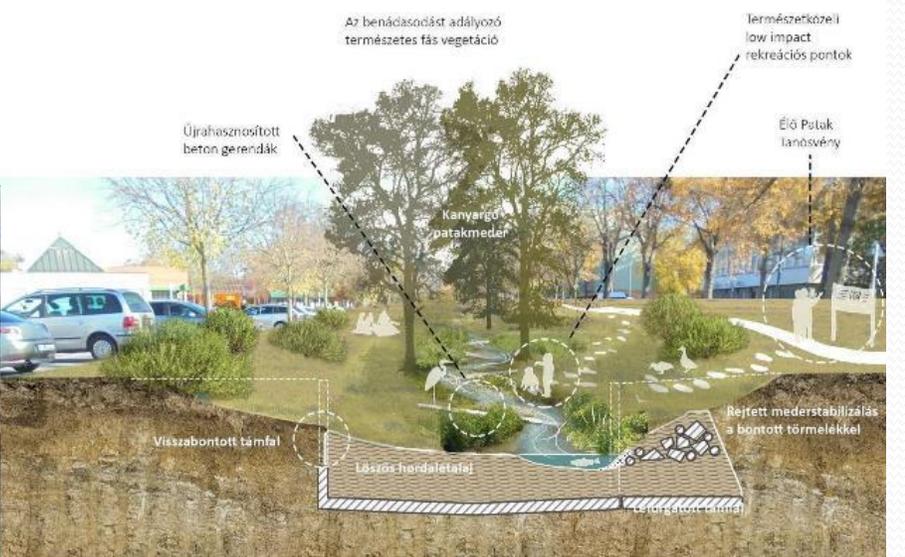
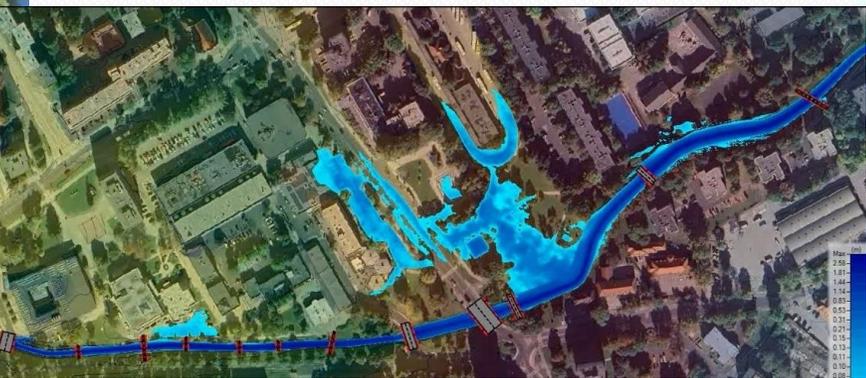
2

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NBS4LOCAL



led by
 opean Union
LOCAL

Check out our pages:
<https://linktr.ee/nbs4local>



Ajka Municipality – Torna Creek Restoration



Avoid

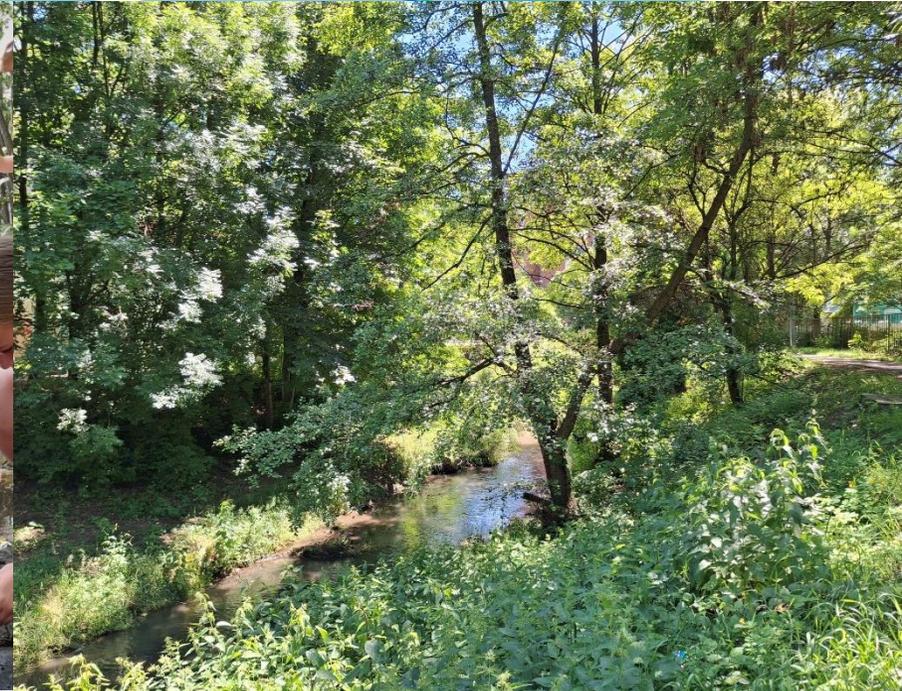
Support



Costs



Values



Emerging ideas

- Snowchange-Traditional knowledge of ecological baseline (placing back the boulders)
- Salla–alternative financing mechanism connected to tourism
- PPGIS -public participation geographic information system <https://www.ppgis.net/>
- Voluntary work – (Swarmwise: The Tactical Manual to Changing the World)
- Community management, community monitoring, citizen science
- Look for the key (sourdough) people in your own communities
- Not to harm nature with NBS, monitoring
- OPM phenomena: Living with Water Scarcity by David Zetland
- Conservation is the most efficient way to have ecosystem services
- „Sometimes, ‚do nothing‘ is the best” or „less is more” – e.g. forestry measures, river management
- Fill in the trenches (land use, drainage trenches & society, divisions)
- The ultimate NBS is nature itself (learn from beavers!)
- Nature is messy, e.g. a healthy stream is a messy stream
- Be holistic, fight invasive species in time, do not use nerve agents against mosquitos
- Enjoy Life, festivals, river walks, art exhibitions, living labs, being together in nature

Community involvement



<https://www.facebook.com/profile/100079565164463/search/?q=csatorna%20art>



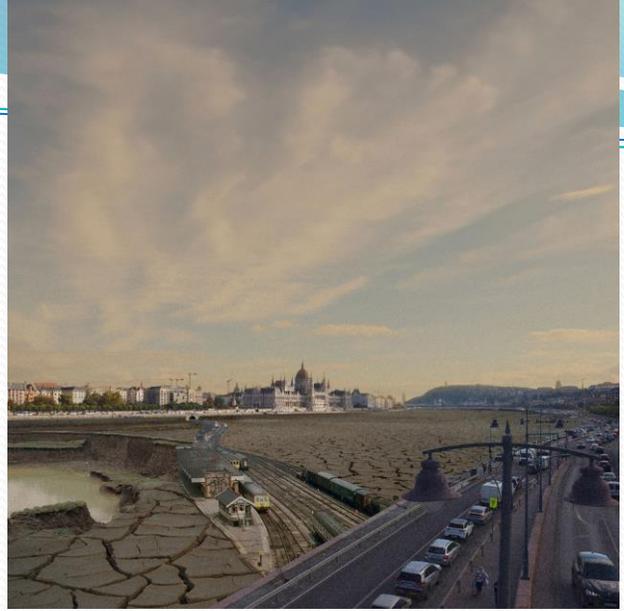
<https://www.facebook.com/patakre vitalizacio/posts/pfbid02oRwKZ2UJLEgXFUbuqPP5i9nPCigZzR5brzF1RQAxL8kVjRuCg9JV2DPzWGsv8ze8l>

<https://www.facebook.com/patakre vitalizacio/posts/pfbid02uKDdP8NueYHmbWjFMg4FJBhNMFCy2zpEQ1vGrQBbA69teim83Di8WEZTghxJsFTUI>



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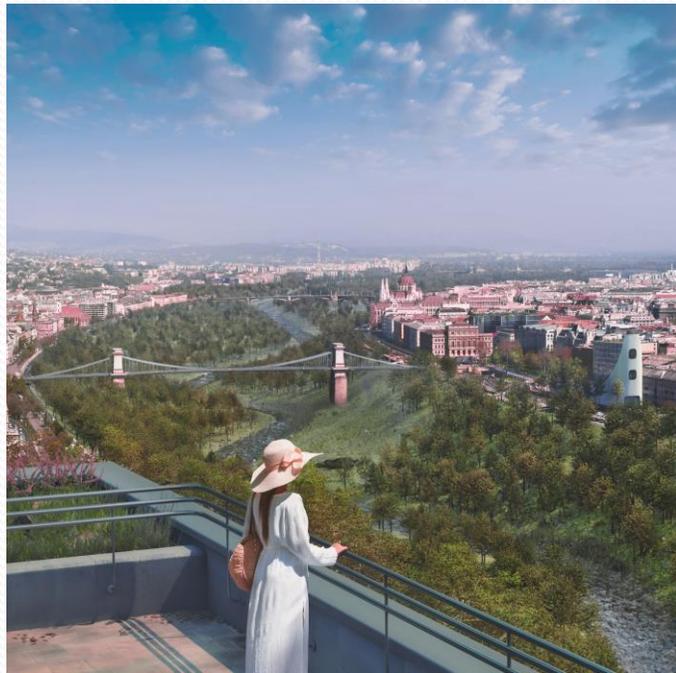
<https://www.facebook.com/patakre vitalizacio/post s/pfbid0t5o8VogTvVPERfaAjmiVYquQdtCFJg4W3GBcUWFzCUsgQZEZnkYykMiEW4ySh8F3l>



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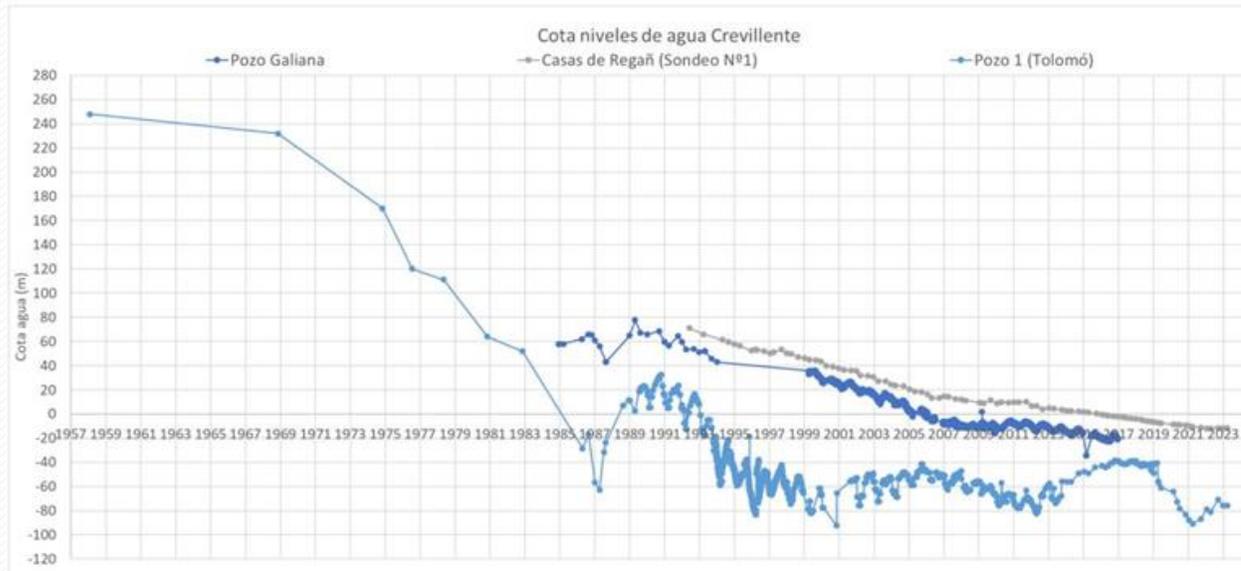
<https://www.facebook.com/profile/100079565164463/search/?q=k%C3%B6rnezeti%20nevel%C3%A9s>



Water Management of Spain - 3 things I admire

1. Efficiency

MASUB Sierra de Crevillente 080-189 + 070-31



Los recursos subterráneos en el Alto y Medio Vinalopó

Not the using up of future generations' water resources...

But

The World-class efficiency in water recycling, reusing of treated wastewater (the extra treatment and monitoring needed).

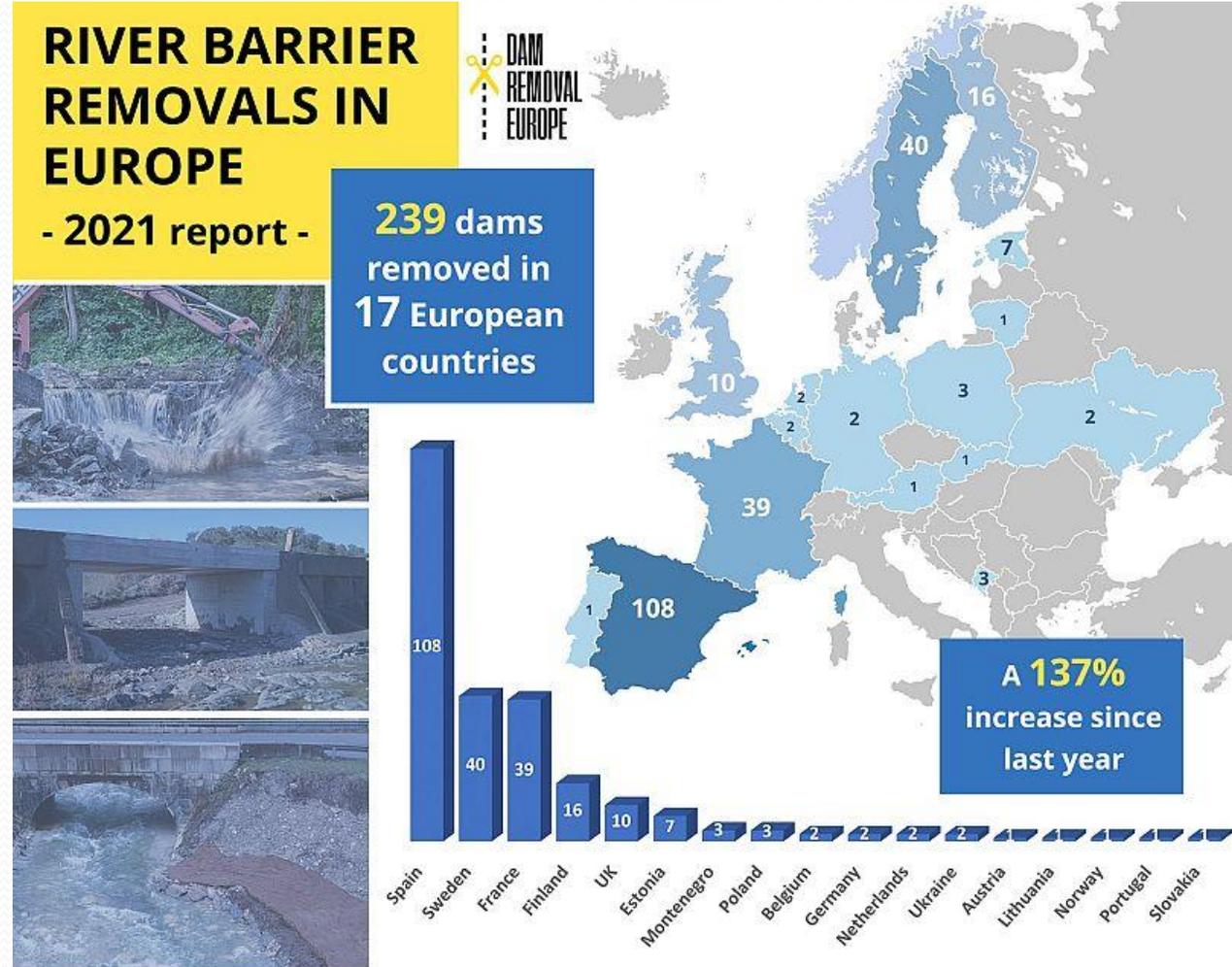
In Murcia over 90%!!!

Water Management of Spain - 3 things I admire

2. Engineering



X



Yes

Manzanares - Madrid

2018



Puente del Rey



Water Management of Spain - 3 things I admire

3. Legislation

Law 19/2022 Lagoon Mar Menor



Tradition

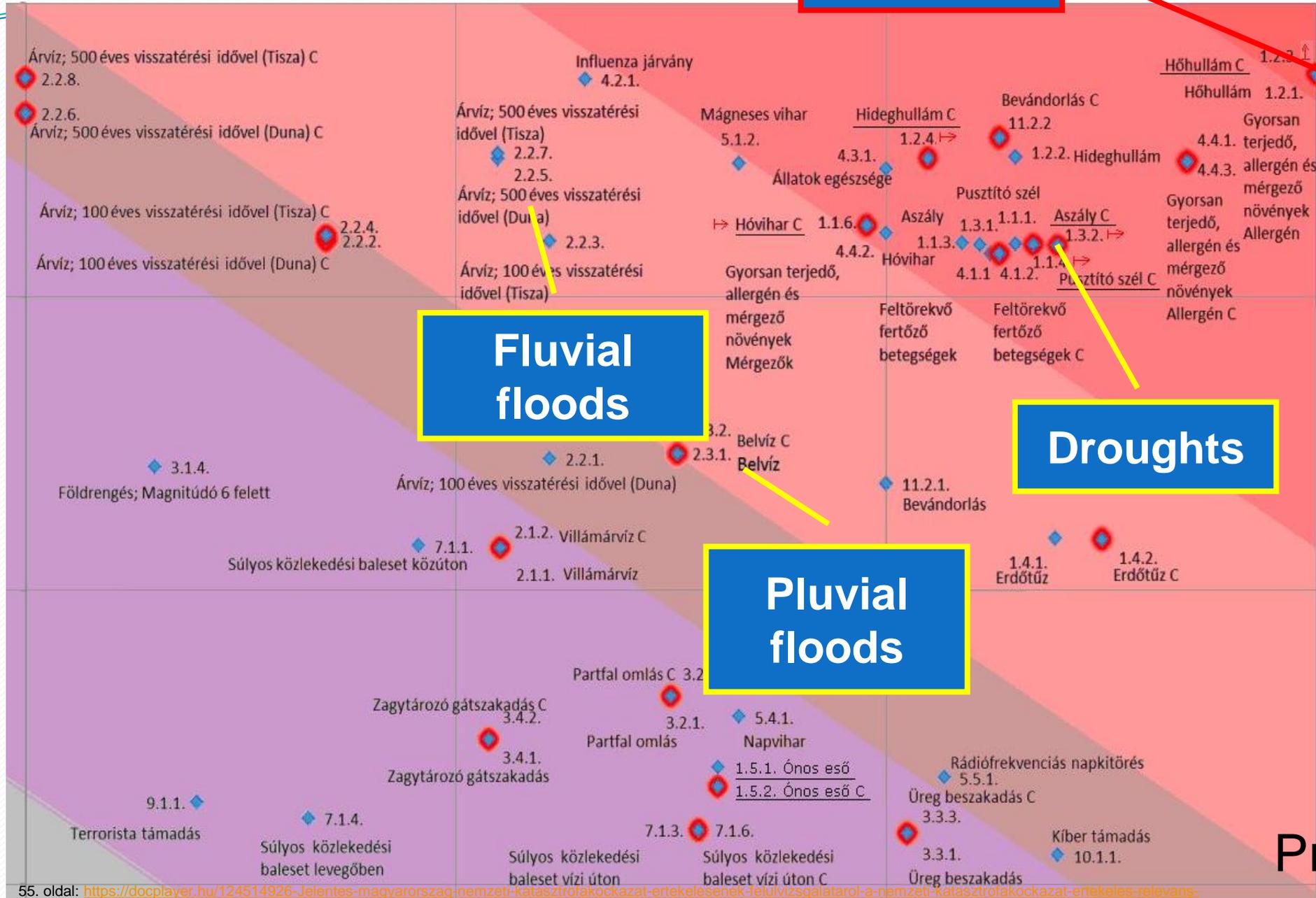
&



Revolution

Impact

Heatwaves



Probability

Zebegény – DINPI good practice Malomvölgyi-creek residential area



KEYSTONE SPECIES



**WHAT IS A CULTURAL
KEYSTONE SPECIES?**

A species whose value we recognize beyond ecology and relate to our identities as residents of the regions in which we live.



www.coexistwithbeavers.org

Orzsán-creek, pilot project

„Always Be Yourself Unless You Can Be A Beaver Then Always Be A Beaver.”



Thank you for your time and attention!



Links:

<https://www.interregeurope.eu/nbs4local>

<https://www.facebook.com/profile.php?id=100094393698757>

<https://www.linkedin.com/company/nbs4local-interreg-europe-project/posts/?feedView=all>

<https://kormany.hu/miniszterelnokseg/nbs4local-interreg-europe-projekt>