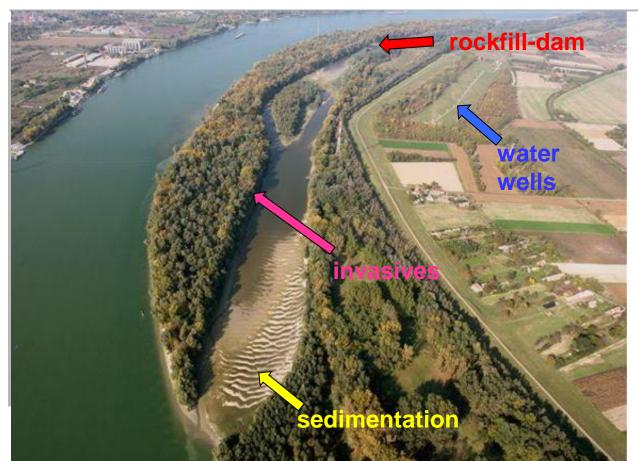


"Liberty Island" restoration in Hungary - before





Motivation and resources

Mayor with vision to foster recreation, drinking water supply, nature conservation in integrated fashion

WWF searching for restoration pilots that show multiple benefits

Partners: state bodies, local institutions, corporation

Duration: 2009-2013

Funding: LIFE Nature, budget

of 1,795,529 Euro

"Liberty Island" restoration in Hungary - after





Results

Water: secured drinking water quality

Fish: Better conditions for angling, fishing

Recreation: Improved recreational use (beach, canoe, excursions)

Floods: More space for the river - flood peak mitigation

Nature: invasive plant species in check

Watershed rehabilitation in Reghin city, Romania





Restoration of channel Canalul Morii (old arm of Mureş river) in Reghin, in past used for transportation and electricity generation; garages and kiosks built on banks

Expected benefits:

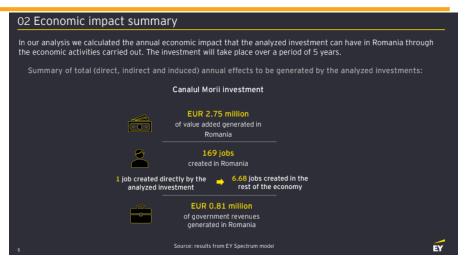
- Reduce flood risk
- Reduce river bed erosion
- Create green spaces for sports and leisure
- Space for gastronic facilities
- real estate added values
- Know-how generation for NbS

....still in the planning phase!

Economic impact assessment by Earnst & Young







Why this investment?

- ✓ Potential for replication in cities
- ✓ Integration of NbS for flooding&erosion control
- Urban regeneration by transforming rivers into points of social and economic interest.

Economic arguments:

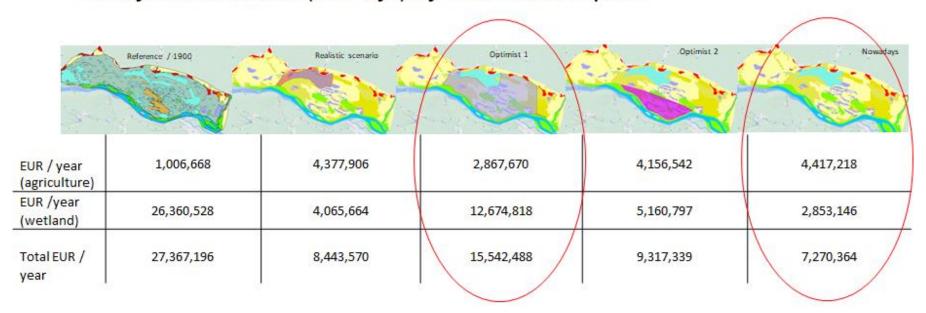
- Added value generated in the economy
- ✓ Jobs created in the economy
- ROI: government revenues generated

⇒ River restoration in cities has a high return in terms of job creation, fiscal impact and urban standard of living

Floodplain restoration along the Romanian Danube, Bistret



Ecosystems values (EUR/yr) by restoration option



Stakeholder involvement is key for mobilising support for restoration measures – takes time and resources!

Obstacles to Nature-based Solutions (NbS)





- Trust: insufficient evidence and pilots that NbS provide the expected benefits
- Short-term thinking: NbS need long time to prepare and sometimes to pay off;
- Complexity: multisectoral negotiations and solutions needed; no off the shelf solutions
- Land rights: often land ownership unclear or there are many landowners to deal with
- Land use: strong agriculture interests to maintain the status-quo driven by lucrative agricultural subsidies
- Knowledge: insufficient know-how for planning and implementing of NbS; tendency to apply tested approaches
- Funding: insufficient project preparation funds; harmful subsidies (e.g. CAP)

Conclusions





- Examples show that harnessing nature for sustainable development can be a **feasible** option
- Nature-based Solutions are still rarely considered as they must compete with "off the shelf" grey infrastructure solutions that enjoy higher trust
- Nature-based Solutions usually win over conventional solutions if their multiple benefits are being taken into account and costs are written of over longer period of time
- Nature-based Solutions are likely to play an increasing role in mitigating complex pressures caused by climate change and grey water infrastructure interventions of the past

