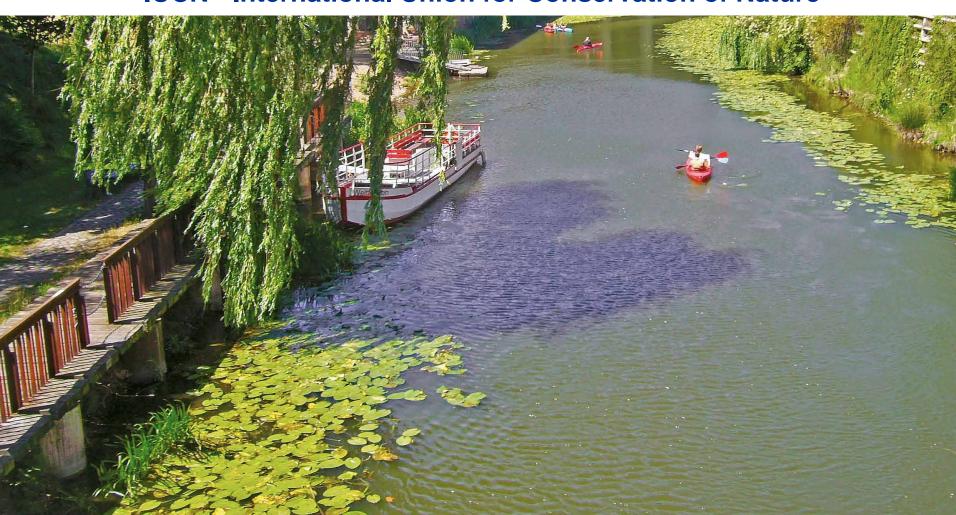
Pioneering nature-based solutions



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IUCN - International Union for Conservation of Nature



Outline



 Increase understanding of naturebased solutions (NBS)



Linkages with EU policy developments



 Identify opportunities for integrating NBS in future Biodiversa research



About IUCN





International Union for Conservation of Nature



 Oldest and largest global environmental organization



 A network of more than 1,200 member organizations (including 200+ government and 900+ NGOs), and almost 11,000 voluntary scientists and experts in 160 countries







IUCN and nature-based solutions



- IUCN Pioneered nature-based solutions at the UN climate negotiations
- Promote them to mitigate and adapt to climate change, secure water, food and energy supplies, reduce poverty and drive economic growth
- Working with governments, the private sector and communities to put science and knowledge into practice - restoring forests, rivers and wetlands, and bring our oceans back to life



A nature-based solution is a solution that....



- 1. Delivers an effective solution to a major global challenge using nature
- Provides biodiversity benefits in terms of diverse, wellmanaged ecosystems
- 3. Is cost effective relative to other solutions
- 4. Is easily and compellingly communicated
- 5. Can be measured, verified and replicated
- Respects and reinforces communities' rights over natural resources and
- 7. Harnesses both public and private sources of funding

Nature-based solutions complement but do not replace other interventions



- Climate adaptation
- Disaster Risk Reduction
- Drinking water supply
- Urban environment











Peatland restoration helps to: reduce emissions of carbon to the atmosphere, improve water quality and conserve biodiversity



- Climate adaptation
- Disaster Risk Reduction
- Drinking water supply
- Urban environment









Forests help protect people and their assets from hazardous processes (i.e. rockfall, avalanches, erosion, landslides) reducing risks to acceptable levels at relatively low costs





- Climate adaptation
- Disaster Risk Reduction
- Drinking water supply
- Urban environment









1/3 of the world's largest cities obtain a significant proportion of their drinking water directly from forest protected areas



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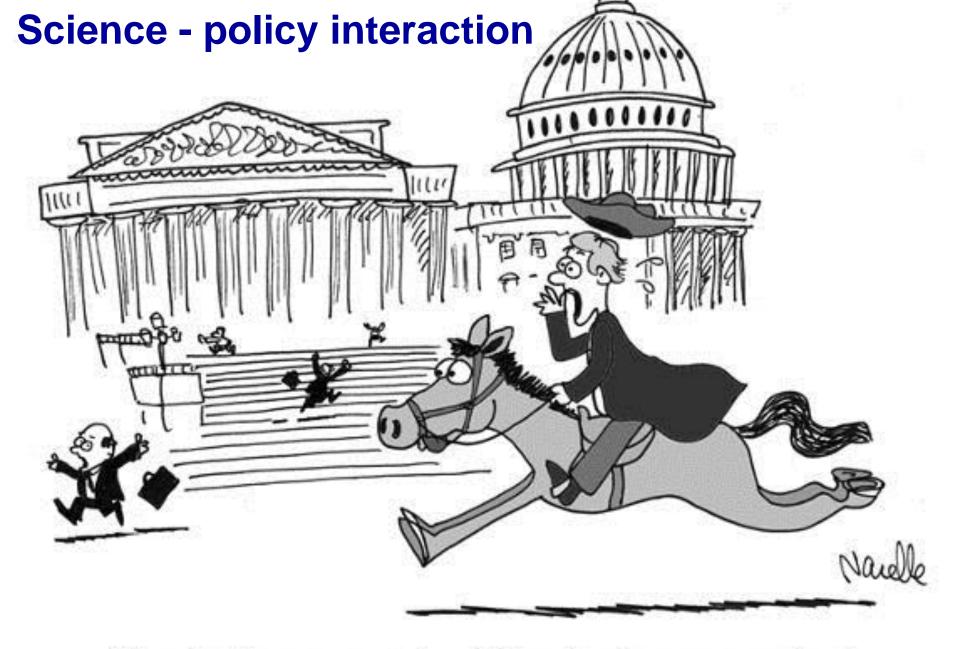




Biodiversity-rich parks, green spaces and fresh air corridors mitigate the negative effects of summer heat waves and contribute to citizen well-being



1/4 of Basel's flat roof areas have been greened, saving 4 Gigawatt-hours per year



The facts are coming! The facts are coming!

Bridging the gap between science and policy







Forests are key ecosystems for conserving Europe's biodiversity and an important focus of the protected area network Natura 2000—the UIV conversione natura policy. They are also essential for delivering multiple cocystems goods and erevices to human societies. Yet, forest biodiversity conservation under Natura 2000 faces several challenges which may trigger conflicts during the implementation of the network.

The Illinofitth funded Baffat anglest has investigated both ecological challenges related to the management to the implementation of Natura 2001. This Policy little describes these issue-ecological challenges, presents key research results, and outlines policy solution pathways towards improving the effectiveness of Natura 2000 with regards so the conservation and autainstale management of Littley Southeast Company for the property of the conservation and autainstale management of Littley's Southeast Company for the company of the conservation and autainstale management of Littley's Southeast Company for the company of the conservation and autainstale management of Littley's Southeast Company (Southeast Company of Company of



- Forests are essential for conserving Europe's biodiversity. No
- Implementation of Natura 200 in forests has led to conflict related to different interests and land use guardigms (e.g. balancing nature conservation and sustainable timber prod and implementation procedures (e.g. science-based techni versus participatory-inclusive). Resolving and managing the conflict premains an important challenge for EU bloddweigh to conflict premains an important challenge for EU bloddweigh.
- management strategies, in particular:

 Making the Yavourable conservation status' concept more
- and quantificable, based on the best available ecological kn across EU Member States' jurisdictions.

 Facilitating continuous learning processes across EU Memb
- States, e.g. through guidance documents on management

 Better integration of Natura 2000 objectives into public and
- Better integration of Natura 2000 objectives into public a forest management planning and practices.
 Beforeign the function arbumer for Natura 2000 by control
- Involving local stakeholders and making Natura 2000 project.





Conservation of Threatened Insects in Europe:

Managing habitats for land use and climate change adaptation

Insects react rapidly to change in land use and climate because of their generally short III or cycle and, in many cases, their dependency on other species. For species which directly depend on one another, a change in one species can have a server impact on the other. A recent report by the European Environment Agency has revealed dramatic declines in zone grassland butterfly propulation is I turpose since 1990.

Beard on research results of the <u>BiolishBulk-funded</u> <u>CMMT proise</u>, conversion schemes could be improved to help half the certification of the threatment lensects statistical in the project, Specific conservation measures could help improve the status of these species by all solving them time to adopt to environment duragra, and to maintain or progress towards frevountable conceivation status, but adaptive management measures can combine is spinlinging for proceeding the management of the <u>CMMT projects of the CMMT projects of </u>

- Some highly-specialized insects, such as the Large Blobutterfly (Macufinea arion), are highly vulnerable to
- The use of appropriate adaptive management measure in particular integrating ecological knowledge and promoting habitat patches and beterogeneity have been demonstrated to be tensificial to insert consent into
- United Kingdom was possible through specific conserv measures
- Adequate monitoring and management of Natura 2000 sites and integration of ecological knowledge into management practices are essential for species adaptat
- and recent policy on Green Infrastructure

 National Rural Development Programmes under the Comm
- EU Member States should build on the advice given in the n European Commission Guidelines on Climate Change an

the URBES



Biodiversity and ecosystem services: the foundation for human health and well-being

Harms being are on integral and inexpensive part of the natural world. Our ordering our of bringing with professing of econograms. The URES Eachter former insecured findings and policy recommendations which underto the value of bedverably and coopsystem sortices in building and protecting hydroid and mornal facility. Within and around cities, grown infrastructure to the natural confession and other environmental features, which sustains bedverably and beings benefits to them. Determine the single substant belotted in the drings benefits to turn may be the grown be sustained bedverably and their possible to turn may be the drings benefits to turn may be the grown be sufficient to the control of the proposation to turn may be form and of the control of the substant to the substan

UPban Elicitivensity and Ecosystems Services

project



Valuing ecosystem services in urban areas

Technological program has between the correspient of an uttorn cookly that is inconsistyly decoupled from making of the complete mentions. Distribution of the couplet mention of the couplet mention is provided to sustain like, health, socially, social relations and to address some of the most pressing chargings, such as refined charge, with an old colourally, with horise increased moderapility and consistent mentions can constitute growth to improve quality of life in date, their malifet values are usually not life place into account in these proby making.

The values of biodiversity and occession services need to be integrated into urban decision making in order to enhance urban restlance, health and quality of the white reducing the ecological footprint of cities and saving costs.

This URRES factsheet explains what the values of ecosystem services are and provides example of their benefits for cities.

ban Blodhersity and Ecosystems Services

www.ususyn

International Union for Conservation of Nature

Linkages with EU policy developments

Integrating nature's values in policy

- EU Biodiversity Strategy
- EU Forestry Strategy
- EU Green Infrastructure Strategy
- Mapping and Assessment
 of Ecosystems and their
 Services (MAES)
 And beyond......



IUCN

Science – policy - action



- Cooperation between all key actors
- Integrated planning and development of projects
- Dissemination of research findings
- Knowledge to demonstrate the potential of NBS
- Awareness for value of NBS for society & economy







Thank you!



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