Pioneering nature-based solutions

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Outline

- Increase understanding of nature-based 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

- Helps the world find pragmatic solutions to our most pressing environment and development challenges such as climate change, sustainable development and food security

- 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
2. Provides biodiversity benefits in terms of diverse, well-managed ecosystems
3. Is cost effective relative to other solutions
4. Is easily and compellingly communicated
5. Can be measured, verified and replicated
6. 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

Examples of nature- based solutions

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

Mangroves help mitigate global climate change and communities from coastal storms

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

Examples of nature- based solutions

- 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

Tidal marshes offer protection from flooding and reduce damages from storm surges

Examples of nature- based solutions

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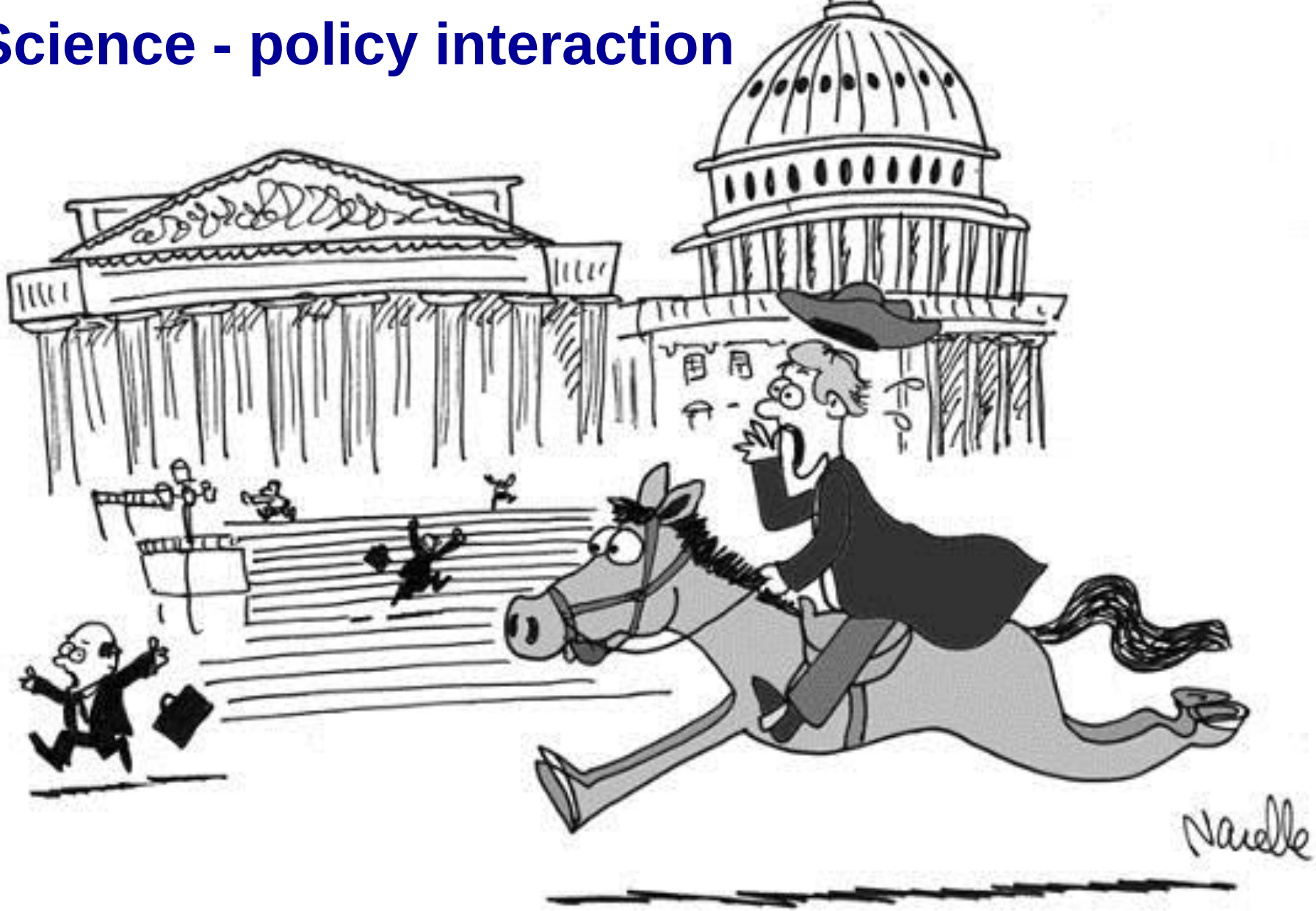
Biodiversity-rich parks, green spaces and fresh air corridors mitigate the negative effects of summer heat waves and contribute to citizen well-being

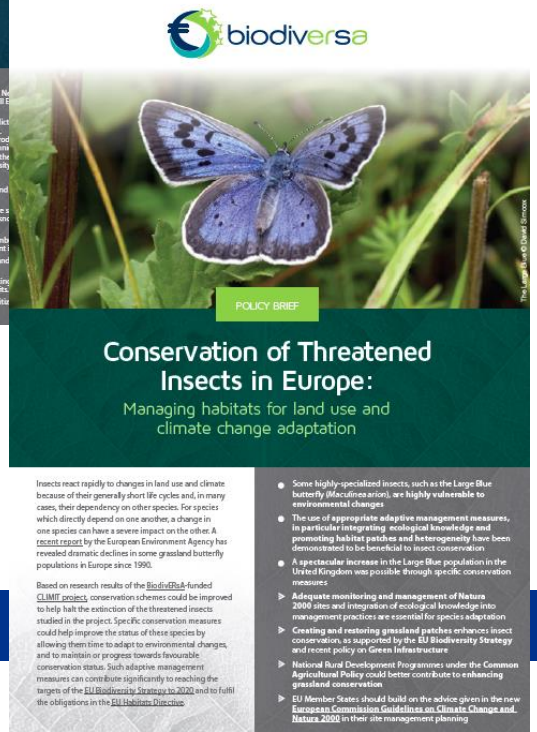
1/4 of Basel's flat roof areas have been greened, saving 4 Gigawatt-hours per year

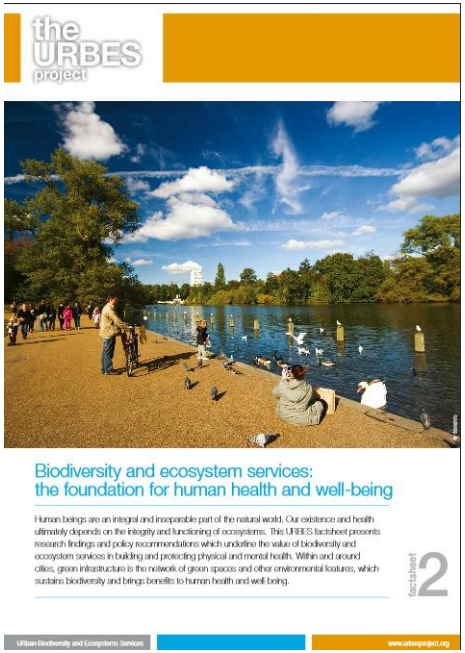
Science - policy interaction



The facts are coming! The facts are coming!

Bridging the gap between science and policy





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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.....

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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