Stakeholders' Conference Biodiversity and the EU – Sustaining Life, Sustaining Livelihoods

Grand Hotel, Malahide, Ireland 25-27 May 2004

A first set of EU headline biodiversity indicators

Gordon McInnes Deputy Director European Environment Agency



Presentation will include:

- Background to the proposed set
- Example illustrative indicators
- How to deliver



Background to the proposed set



Background to the proposed EU set

- Recent decisions and discussions at global, pan-European and EU level on requirements for biodiversity monitoring, indicators and reporting
- CBD has agreed 7 focal areas for indicators for immediate testing and further development
- Proposal from Biodiversity Expert Group for a first set of EU headline biodiversity indicators consistent with the CBD focal areas and indicators



Considerations for EU set

- EU target to halt biodiversity loss by 2010
- Link to other EU Biodiversity Policy issues
- Link to relevant sectors, threats and pressures
- Make use of ongoing developments (EEA core set, OECD, Bio-IMPs, Biodiversity Index etc)
- Distinguish different indicator functions
- Be selective in the communication



EU Sixth Environmental Action Programme (from overall aims in Art. 2)

"Protecting, conserving, restoring and developing the functioning of natural systems, natural habitats, wild flora and fauna with the aim of halting desertification and the loss of biodiversity [by 2010], including diversity of genetic resources, both in the European Union and on a global scale."



Biodiversity loss definitions

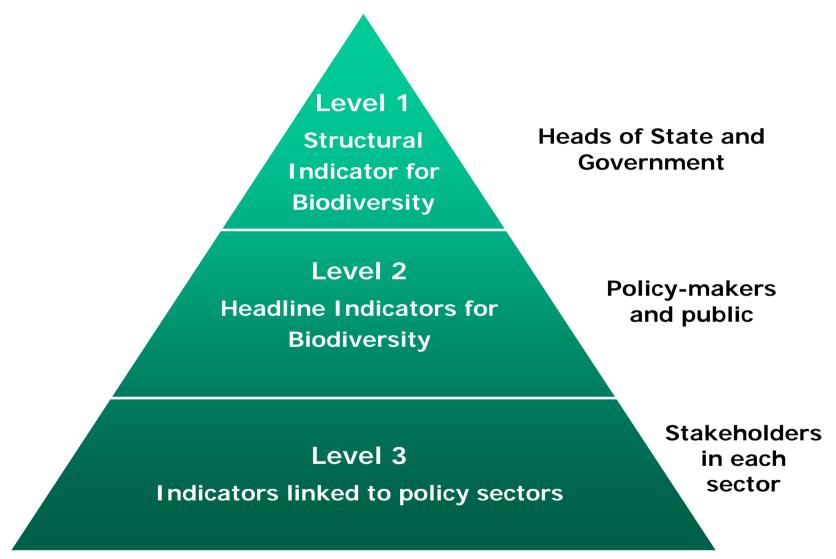
UNEP/CBD/COP/7/L.27 defines biodiversity loss as the long term or permanent qualitative or quantitative reduction in components of biodiversity and their potential to provide goods and services, to be measured at global, regional and national levels.

UNEP/CBD/SBSTTA/9/INF/26 recognises as a basis for developing indicators that biodiversity loss can consist of:

- a) A decline in extent, condition or sustainable productivity of ecosystems
- b) A decline in abundance, distribution or sustainable use of species populations, and extinctions
- c) Genetic erosion



Levels of communication



Focal areas for indicators

CBD:

- Status and trends of the components of biological diversity
- Sustainable use
- Threats to biodiversity
- Ecosystem integrity and ecosystem goods and services
- Status of traditional knowledge, innovations and practices
- Status of access and benefits sharing
- Status of resource transfers

EU:

• Public opinion



First set of EU headline biodiversity indicators based on CBD decision and focal areas (1/3)

Status and trends of the components of biological diversity

Trends in extent of selected biomes, ecosystems and habitats

Trends in abundance and distribution of selected species

Change in status of threatened and/or protected species

Trends in genetic diversity of domesticated animals, cultivated plants, and fish species of major socioeconomic importance

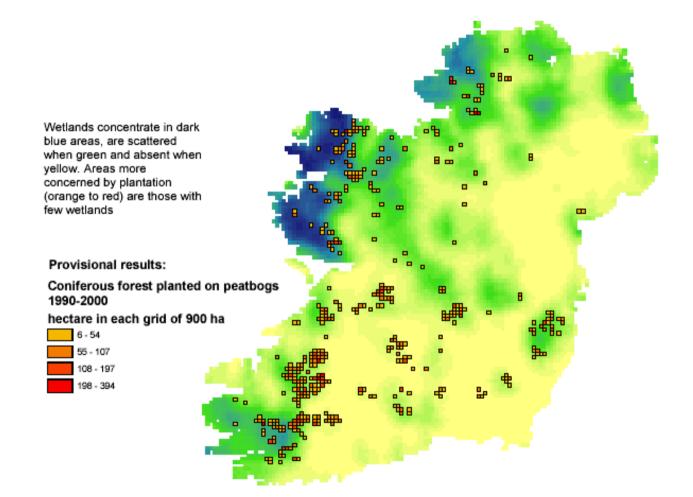
Coverage of protected areas

Sustainable Use

Area of forest, agricultural, fishery and aquaculture ecosystems under sustainable Management

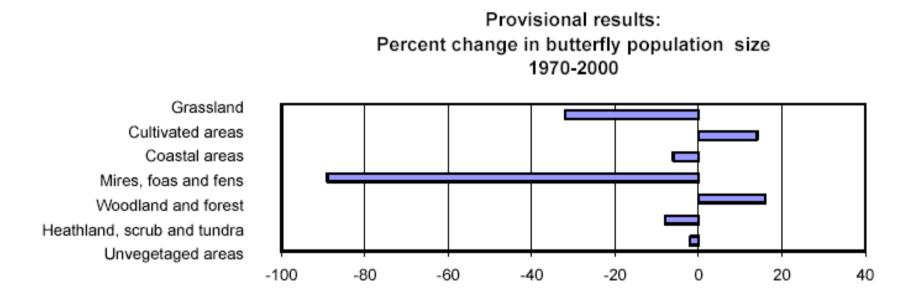


Trends in extent of ecosystems





Trends in abundance of selected species





Change in status of threatened and/or protected species

Iberian Lynx now critically endangered

Source: IUCN 2003 red list of globally threatened species



'It is time to ring the alarm bell. Biodiversity loss has accelerated to an unprecedented level, both in Europe and worldwide'.

Margot Wallström, EU Commissioner for the Environment, at the Third Intergovernmental 'Biodiversity in Europe' Conference, Madrid, January 2004



First set of EU headline biodiversity indicators based on CBD decision and focal areas (2/3)

Threats to Biodiversity

Nitrogen deposition

Numbers and costs of invasive alien species

Impact of climate change on biodiversity

Ecosystem integrity and ecosystem goods and services

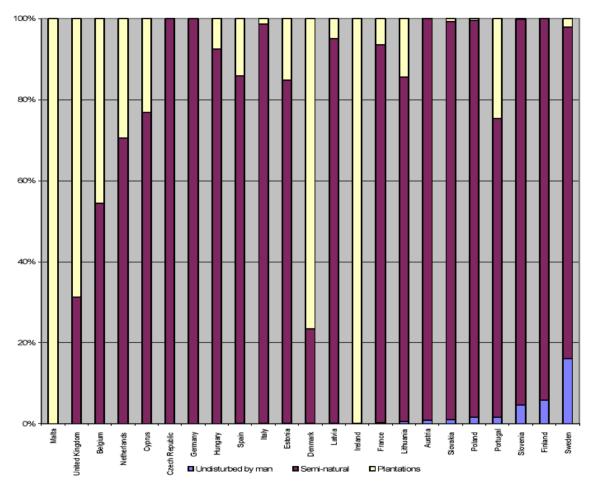
Marine trophic index

Connectivity/Fragmentation of ecosystems

Water quality in aquatic ecosystems



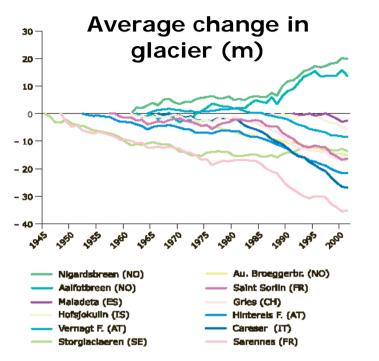
Area of forest under sustainable management

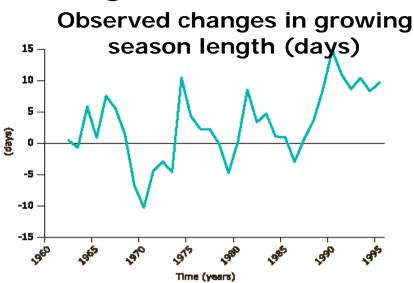


Note: No data available for Belgium and Luxembourg.

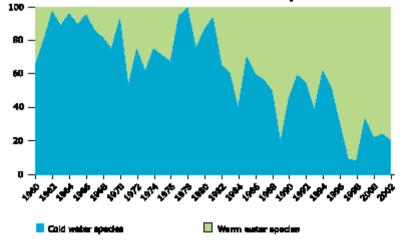


Impact of climate change on biodiversity



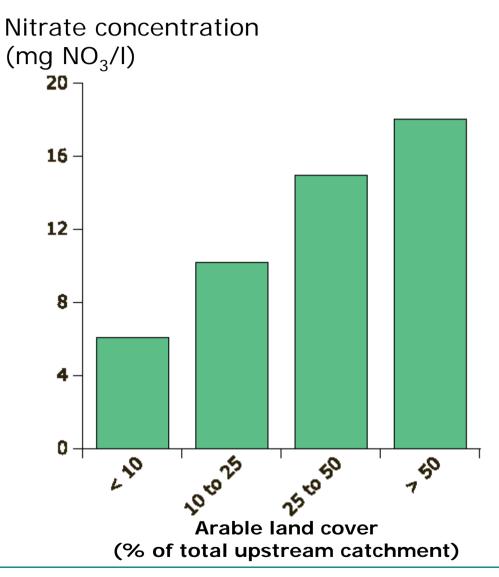


Relative abundance of plankton (%)





Water quality in aquatic ecosystems



First set of EU headline biodiversity indicators based on CBD decision and focal areas (3/3)

Status of access and benefits sharing

Patents

Status of resource transfers and use

Funding to biodiversity

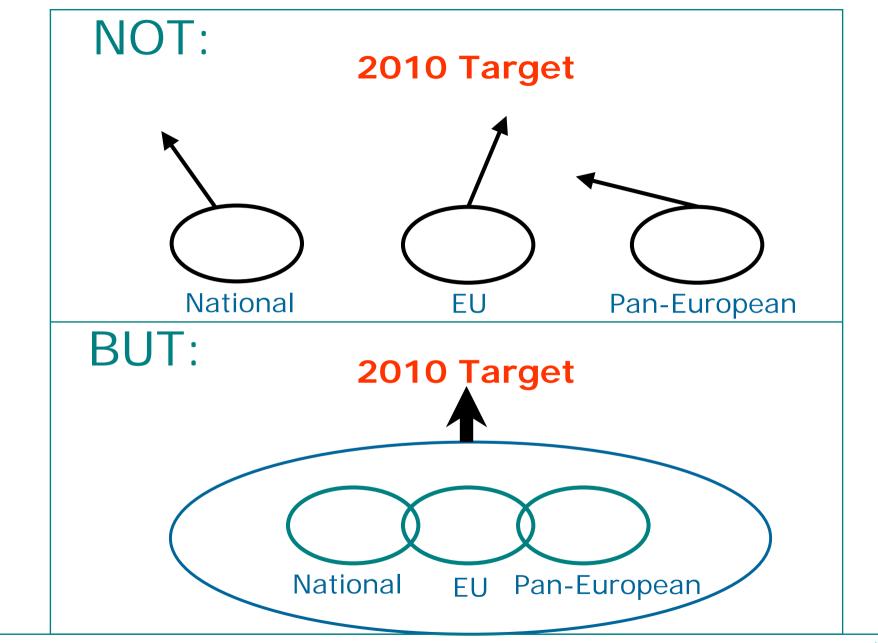
Public opinion (not included in CBD list)

Public awareness and participation



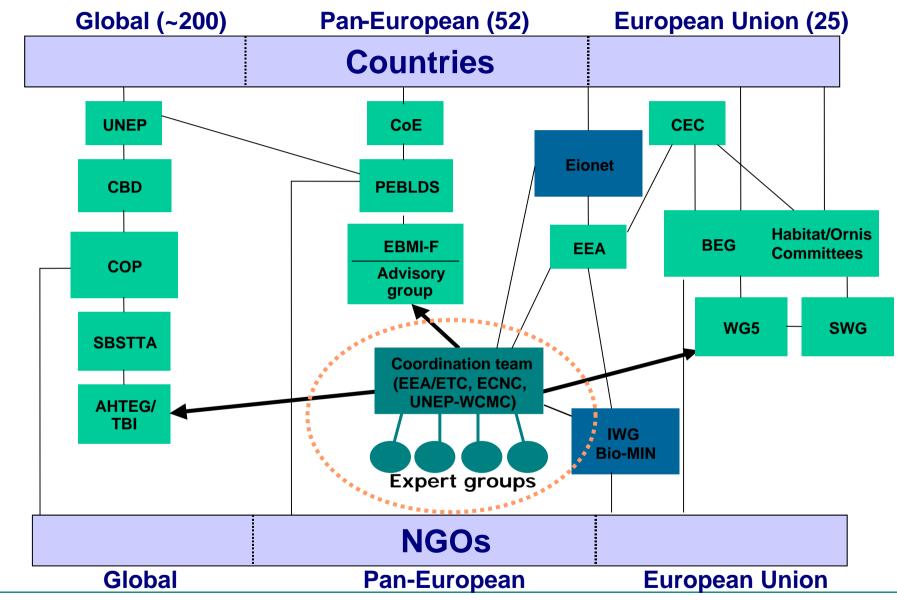
How to deliver











Indicative overview biodiversity organisations and activities





Objectives for coordination team (to be led by EEA in cooperation with ECNC and UNEP-WCMC)

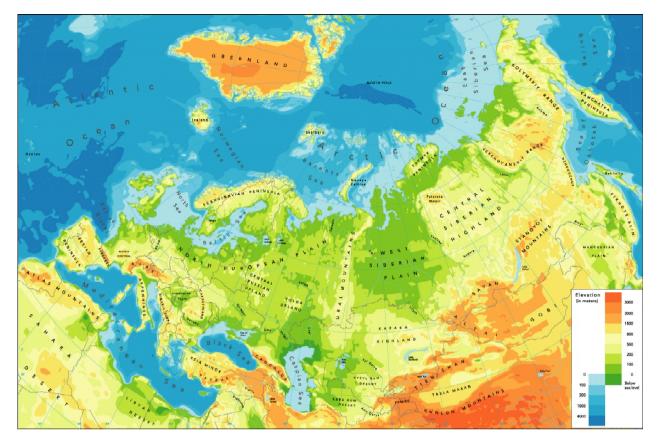
- Improve coordination, information exchange and collaboration
- Build on current activities and good practice within both governmental and nongovernmental organisations
- Do it! consolidate, test, refine, document and produce agreed biodiversity indicators
- Ensure adequate funding for monitoring, indicators and assessments to support achievement of 2010 target



Workplan and related events

- May 2004: mandate from Malahide Conference to Coordination team
- August 2004: detailed work plan prepared
- 2005-2007: indicators developed and tested; monitoring and reporting requirements defined
- 2005: reporting under CBD
- **2007**: reporting under Habitats Directive
- 2008: baseline for 2010 defined
- 2010: target year
- 2011-2012: reporting on 2010





Man has a special responsibility to safeguard and wisely manage the heritage of wildlife and its habitat, which are now gravely imperilled by a combination of adverse factors. Nature conservation, including wildlife, must therefore receive importance in planning for economic development.

Stockholm Declaration - Principle 4 (1972)

