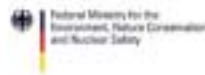




Short Introduction to TEEB – The Economics of Ecosystems and Biodiversity

Alter-Net Summerschool
Peyresq, 8. September 2009

Augustin Berghöfer – Helmholtz Centre for Environmental Research UFZ



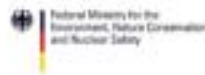
The Economics of Ecosystems & Biodiversity



Sigmund Freud said that mankind had suffered three major blows to its self-esteem,

- Earth is not the centre of the Universe (Copernicus)
- Man is just another animal (Darwin)
- Humans minds are not entirely rational (Freud)

Is there a fourth blow coming ?

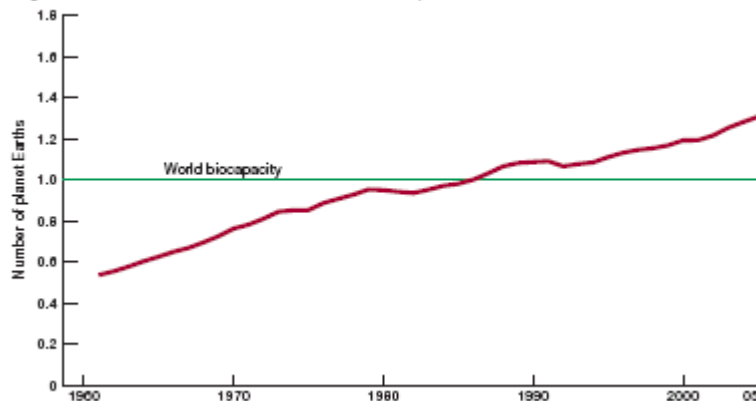


The Economics of Ecosystems & Biodiversity



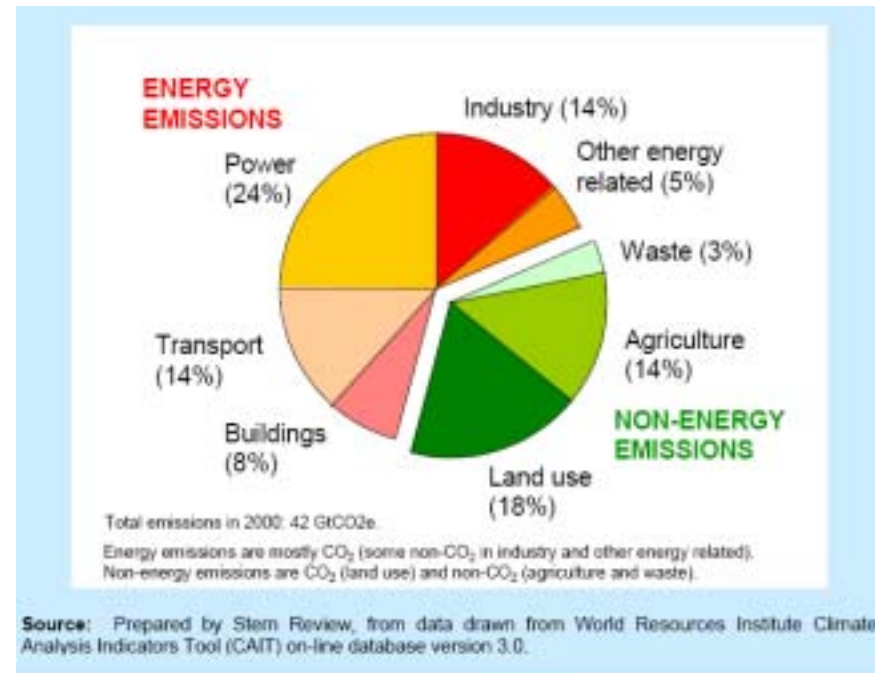
Our global economy ... does risk a planet

Fig. 2: HUMANITY'S ECOLOGICAL FOOTPRINT, 1961-2005

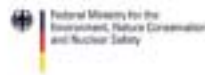


LIVING PLANET REPORT 2008

'Ecological Footprint' already exceeds Earth's regenerative capacity... our demands on the planet have doubled over the last 40 years...



Global GHG Emissions at 42 GtCO₂e per annum are 5 times higher than the Earth can absorb ...



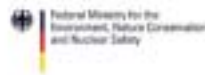


Starting Point:



“Potsdam Initiative – Biological Diversity 2010”

In a global study we will initiate the process of analysing the global economic benefit of biological diversity, the costs of the loss of biodiversity and the failure to take protective measures versus the costs of effective conservation.



The Economics of Ecosystems & Biodiversity



TEEB is...

- A rapidly evolving multi-donor initiative
- A diverse group of economists & ecologists (26 countries) in 5 working groups
- With a focus on policy advice and 'spreading the word' of an economic perspective on biodiversity



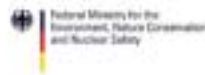
European Environment Agency





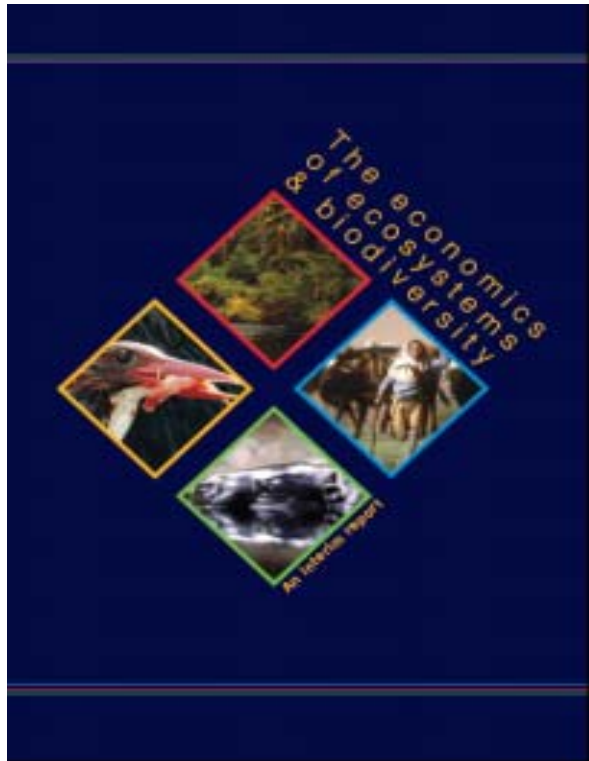
TEEB's goals are

- To propose a complementary economic perspective on ecosystems and biodiversity
- To review current economics of ecosystems and biodiversity, and recommend a valuation framework
- To address the needs of different “end-users” of these economics – providing inspiration and orientation





TEEB – Final Reports Summer 2010



TEEB D0: Ecological and Economic Foundations



TEEB D1: International and National Policy-Makers



TEEB D2: Local Policy-Makers and Administrators

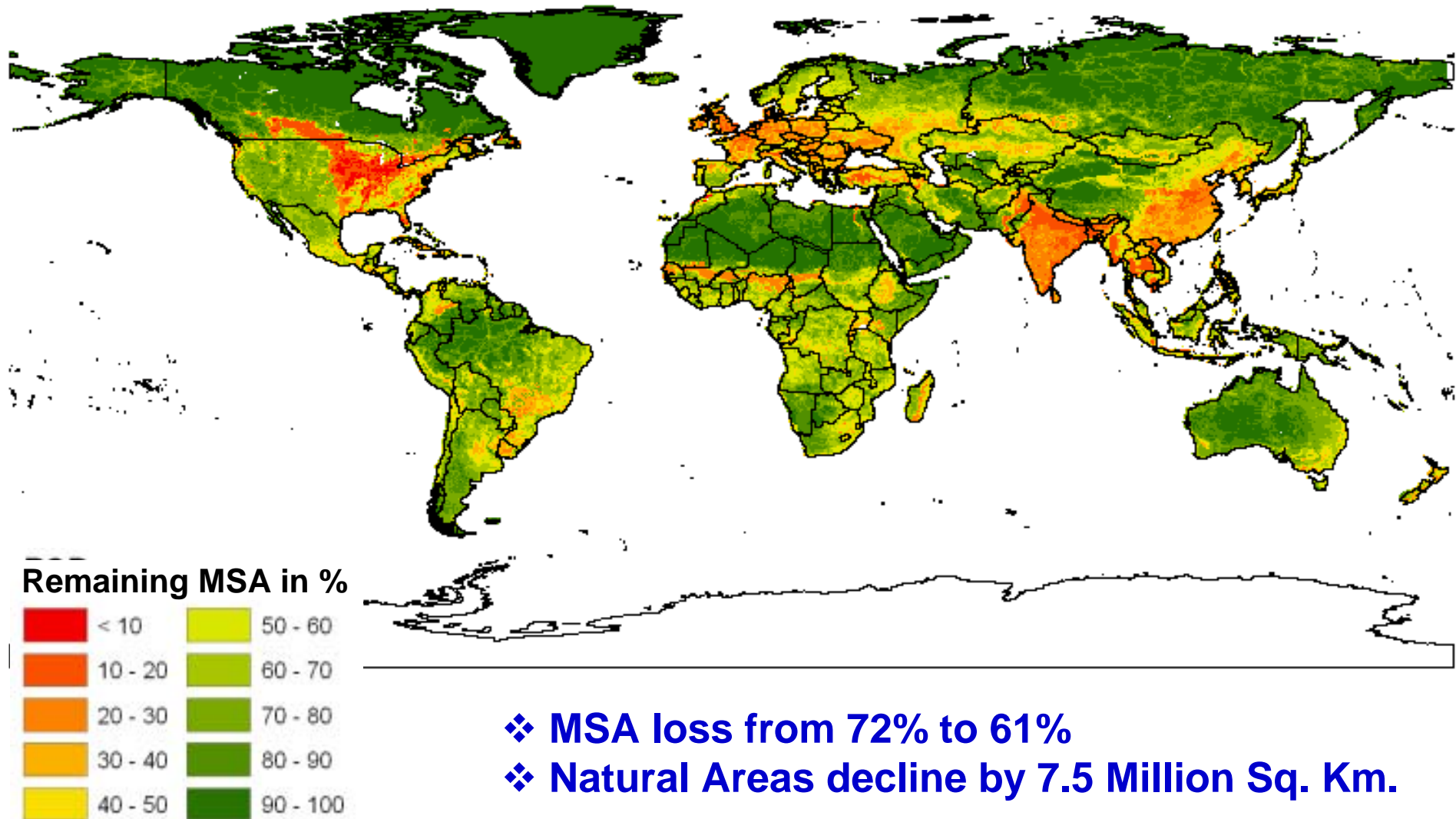


TEEB D3: Business



TEEB D4: Citizens

Level of Biodiversity in the World in 2050 “Business as Usual” Scenario of the future

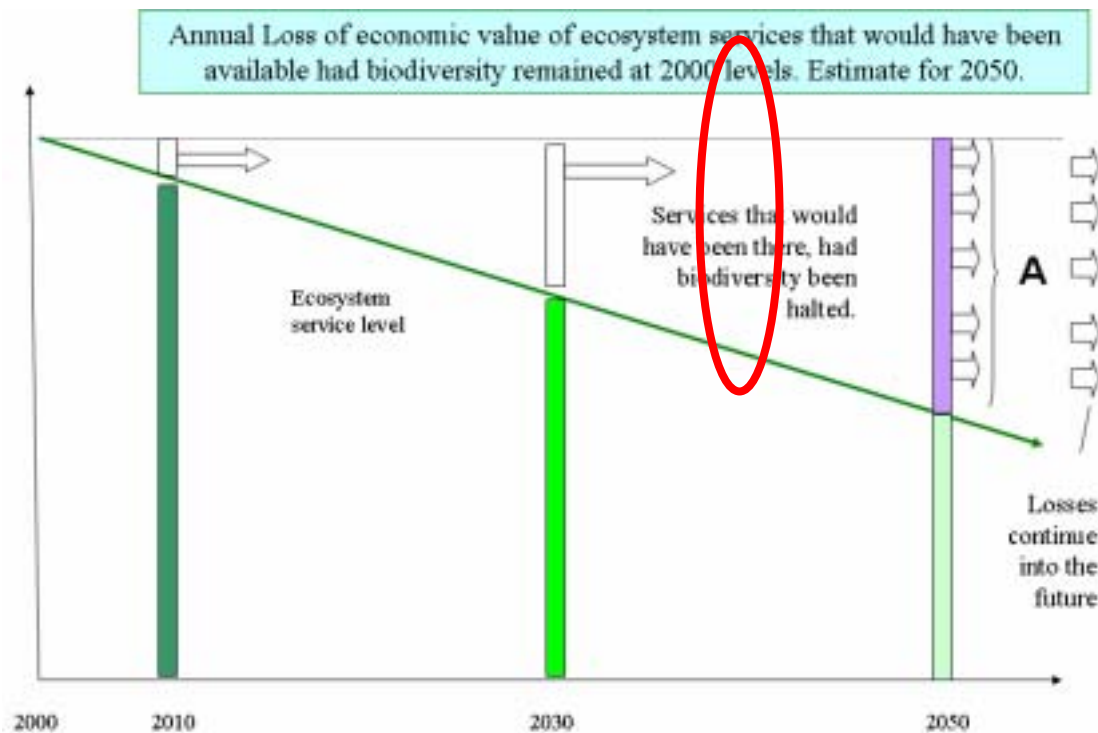


Source: Ben ten Brink (MNP) presentation at the Workshop: *The Economics of the Global Loss of Biological Diversity* 5-6 March 2008, Brussels, Belgium.

The Economics of Ecosystems & Biodiversity



50-year impact of inaction or 'business as usual'

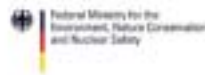


Welfare losses equivalent to roughly **7 % of GDP** by 2050

The Economics of Ecosystems & Biodiversity



Services	1.1	1.2	1.3	1.4	1.5	2.1	2.2	2.3	3.1	3.2	3.3	3.4	3.5
	Food	Materials	Forest trees-related	Plant-related	Physical support	Amenity	Identity	Didactic	Cycling	Sink	Prevention	Refugium	Breeding
<i>Land cover types</i>													
Artificial surfaces/ Urban													
Arable land & permanent crops													
Grassland & mixed farmland													
Forests & woodland shrub													
Heathland, sclerophyllous veg.													
Open space with little/ no vegetation													
Wetlands													
Water bodies													





TEEB D0: Ecological and Economic Foundations

- Frames linkages of economy and ecosystem services
- Reviews existing biophysical measures and indicators
- Explores ethics
- Presents a matrix of valuation methods
- Preliminary analysis of costs of action and inaction

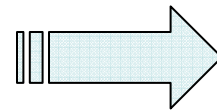


TEEB D2: Inspiration and orientation for local/regional policy levels

1. Introduction: local room-to-manoeuvre
2. Approaches and Methods for considering ES
3. Policy fields and public management tasks
 - Public (Urban) Management Systems
 - Natural Resource Management
 - Spatial Planning/Env Impact Assessment
 - Protected Areas
 - Market-based approaches
4. Conclusions: Potential and limits



TEEB Climate Issues Update



Coral reef emergency



Forest carbon for climate mitigation



National accounting for forest carbon



Ecosystem investment for climate adaptation



**Check the new website for
commenting draft chapters:**

www.teebweb.org

