Economics of biodiversity and ecosystem services workshop

September 20th -21st 2014, King's College, University of Cambridge.





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conflic Chief, Ecosystem Services Economics Unit,

United Nations Environment Programme (UNEP)





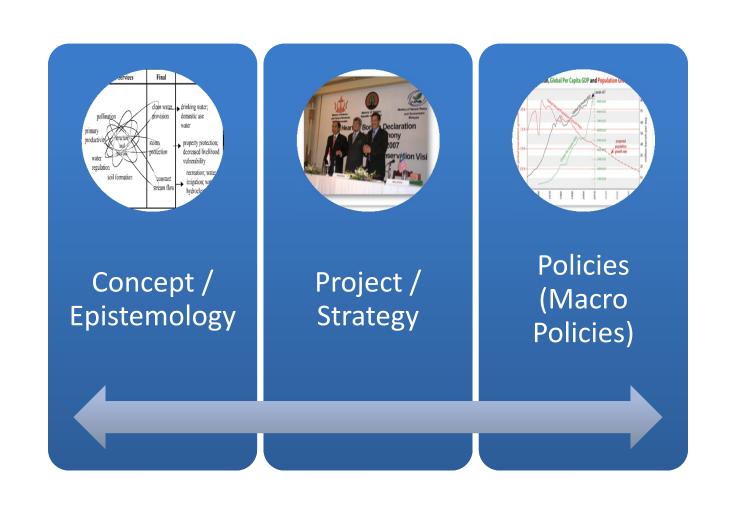
A Tale of (Seemingly) Two Sides

ECONOMY	1980	2013
GDP (PPP) (Current international dollar) Billion USD	11,475.67	86,995.06
Trade volume of goods and services index (1980=100)	100	584
Investment (Current international dollar) Billion USD)	2,930.20	21,297.26
Population (Total in million) (2012)	4,438.67	7,043.90

ENVIRONMENT		
Ecosystem Services being degraded	60 % (15 out of 24 ecosystems)	
Greenhouse Gases: CO2 Emissions(billion tonnes) (2010)	33.62	
Threatened Species (2013)		
Bird	3,822	
Fish	6,404	
Mammals	3,125	
Plants	12,670	

Source: World Development Indicators; Trade Developments, WTO; World Economic Outlook, IMF; World Investment Report Millennium Ecosystem Assessment; World Development Indicators; GEO5

Mainstreaming of Natural Capital



Voices for Change of Basic Compass (GDP)



Also..

- **1. Making Natures Values Visible**: improved evidence base for improved governance government, business, people
- **2. Changing the incentives**: taxes, charges, subsidy reform, markets
- 3. Ecological infrastructure and benefits: climate change and beyond
- 4. Natural capital and poverty reduction: investment for synergies
- **5.** Mainstream the economics of nature: across sectors, across policies, seek synergies across disciplines.

Community of Practice (CoP): Need of the Hour

Technical Objectives

- 1. Bring different disciplines (scientists, economists, policy makers) to work for the common purpose
- 2. Increase the buy in of mainstreaming across sectors, regions, and institutionalize NCA in governments.
- 3. Promote standardization of approaches, improve data and consistency, and capacity building.
- 1. Outreach decision-makers, media, general public through technical channels.

Outreach Objectives

2. Deepen the involvement of each.

Specific activities of CoP

- 1. Share good practices
- 2. Peer-to-peer learning and consultations
- 3. Ensure methodological consistency and improvements with continuous communications
- 4. Support practitioners (Guidelines, tutorials)
- 5. Organize training events
- 6. Sponsor research
- 7. Promote initiatives to increase new members
- 8. Monitor progress

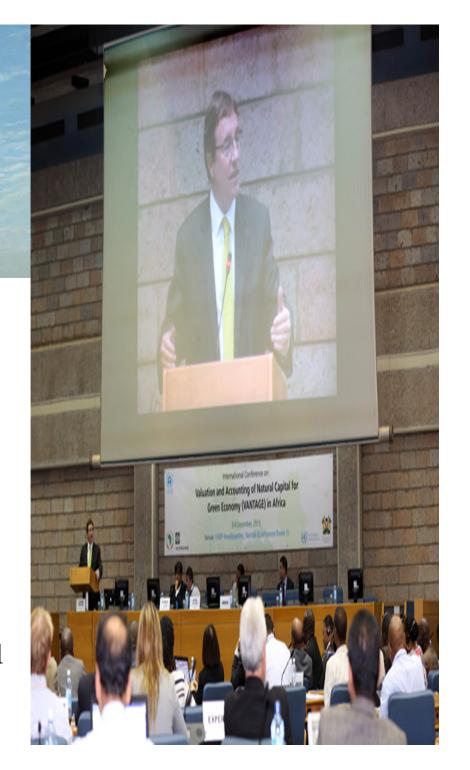


VANTAGE

Valuation & Accounting of Natural Capital for Green Economy

Ecosystem Services Economics Unit Division of Environmental Policy Implementation United Nations Environment Programme

- Economic valuation of ecosystem services and other forms of Natural Capital
- 2. Natural capital accounting and its linkages with environmental policies
- 3. Development of robust framework for linking macroeconomic policies with natural capital
- 4. Develop and demonstrate the use of economic instruments and incentives for ecosystems management
- 5. Capacity development in valuation and accounting



Workshop Objectives

- Stocktaking of what is known about economics of ecosystem services
- Provide briefing on the main principles involved in the economic analysis of policies for biodiversity conservation and ecosystem management
- Discuss the possible tools for analysis of institutional issues in order to successfully incorporate biodiversity conservation and ecosystem management into national policy
- Identify limitations of these tools and approaches

General questions to be addressed

- What insights can economics provide into the design of conservation policy?
- What are the economic benefits of conservation of ecosystem services and biodiversity?
- How can we include ecosystem services and biodiversity into policy appraisal and into national accounting?

Course Tutors:

- Professor Stefanie Engel (Zurich)
- Professor James Salzman (Duke)
- Professor Kirk Hamilton (London School of Economics)
- Professor Giles Atkinson (London School of Economics)
- Professor Susana Mourato (London School of Economics)
- Professor Nick Hanley (University of St Andrews) workshop coordinator
- Pushpam Kumar, UNEP

Day 1

- 2.00-2.45pm: welcome and discussion of aims and objectives (led by Nick Hanley) – THIS SESSION
- 2.45-3.45pm: Economic Instruments for Ecosystem Management (Nick Hanley)
- 3.45-4.15pm: Tea / Coffee
- 4.15-5.45pm: Valuing biodiversity and ecosystem services (Susana Mourato)

7pm onwards, Dinner in Kings College, including dinner speaker Professor W. Sutherland (Cambs)

Day 2

- 9.00-11.00am: National accounting for biodiversity and ecosystem services (Kirk Hamilton)
- 11.30-12.30 am: optional exercise: A practical session on designing a valuation study with Nick Hanley and Susana Mourato
- 1.30-3.00pm: Designing and Implementing Payment for Ecosystem Services (1) James Salzman.
- 3.15-4.45pm: Designing and Implementing Payment for Ecosystem Service schemes (2) Stefanie Engel
- 4.45-5.45: Closing panel discussion (led by Giles Atkinson; all tutors plus Pushpam Kumar)

7pm: welcome reception for Bioecon 2014

- Plenty of opportunities for you to interact with each other and with the course tutors
- We assume you know not much about the economics of biodiversity and ecosystem services, although some of you have PhDs in economics!
- And we have kept the material as non-technical as possible, whilst still being "state of the art"
- Full pack of lecture slides will be provided
- Nick's email: ndh3@st-andrews.ac.uk

Some useful textbooks for those who want more background on environmental economics

Hanley N, Shogren J and White B (2006)

<u>Environmental Economics in Theory and Practice (2nd edition)</u> Palgrave MacMillan.

Hanley N, Shogren J and White B (2013):

<u>An Introduction to Environmental Economics (2nd edition)</u> Oxford University Press.

Hanley N and Barbier E. (2009)

Pricing Nature: Cost-Benefit Analysis and Environmental Policy. Edward Elgar.

Now let us meet you all...

• ANY QUESTIONS?