

# The TEEB approach to the loss of biodiversity and ecosystem services

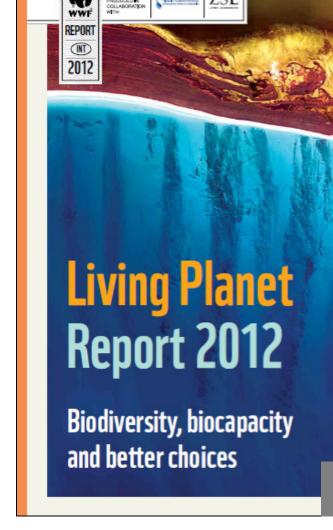
Nick Ber

United Nations Environment Progra



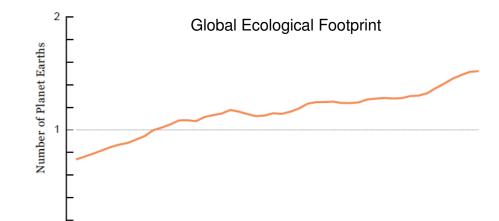
Sub-regional Workshop on Valuation and Incentive Mea for Eastern Europe and Centra

29 - 31 May Tbilisi, Go sources and damage or destruction osystems are highly profitable for v stakeholders in the short term; the long-term benefits of ecting, maintaining and investing in al capital are inadequately valued ot valued in an economic sense . As a result, the importance of versity and ecosystem services is rvalued in economic and political offs."

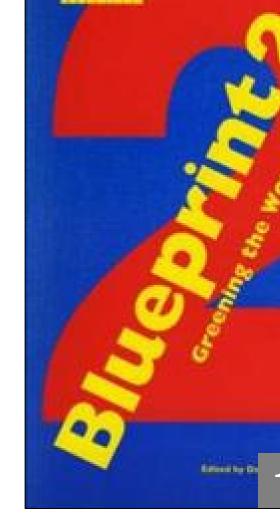


### WWF, 2012





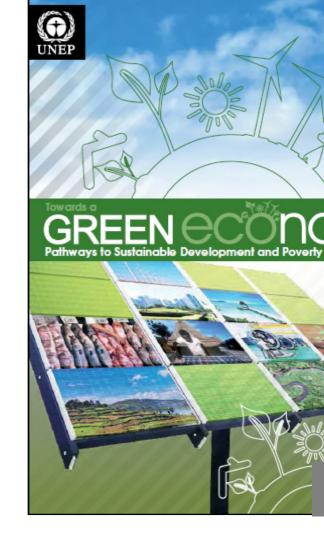
ironmentai services creates a ctical problem of measurement one of finding out what people erences actually are in the context re there are no markets – but it s not generate a *conceptual* plem of measurement. (..) people nave preferences for ironmental services and do ress them in money terms erwise it would be difficult to explain ch of the behaviour towards the ronment."



rce et al., 1991

## opment requires...

- (1) improvements in **onmental valuation** and policy sis to ensure that markets and es incorporate the full costs and its of environmental impacts
- (2) implementing effective and priate information, incentives, utions, investments and structure
- (3) Increasing collaboration en environmental scientists, gists and economists





## Vhy TEEB? Because...

the economic invisibility of nature is a problem

addressing losses requires knowledge from **many disciplines** (ecology, economics, policy,...) to be synthesized, integrated and acted upon

different decision-making groups need different types of information and guidance

because **successes** need be understood, broadcas replicated and scaled...

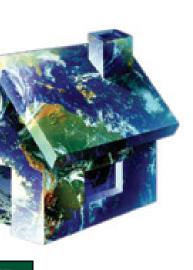




# TEEB Study: timeline, products, peopl TEEB approach The way forward

# **B Study:** Phase I (2007-2008)





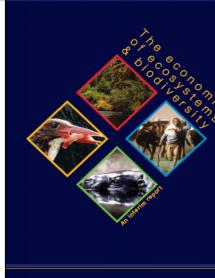
#### <u>Potsdam Initiative –</u> <u>Biological Diversity 2010</u>

"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."

2007









# **B Study:** Phase II (~2008-2011)

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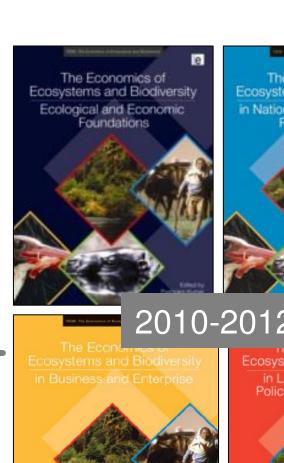
description of the second of t

usiness mmunity





Life in harmony, into the future いのちの共生を、未来へ COP10/MOP5





# B Study: Citizens & consumers





# B governance

dy Leader: Pavan Sukhdev

isory Board: scientific & policy leaders; civil society

sted by UNEP

entific coordination: UFZ, Leipzig

er 500 individual editors, authors and reviewers

ancial donors and other institutional partners (partial list):









































# **B** Coordinators

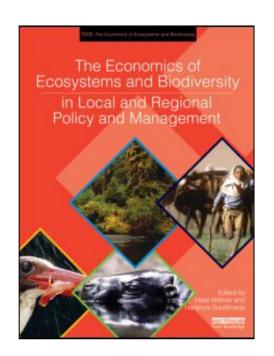




Biodiversity iternational

#### **Pushpam Kumar**





#### Haripriya Gundimeda

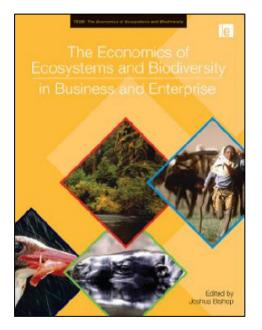






#### **Patrick ten Brink**





#### **Joshua Bishop**



# B Study: some success factors

ependence (Study leader, advisory board)

evance (coordination group, advisory board, activ notion/communications, simple tailored messages n level policy uptake, media coverage)

ad experience (more than 500 international tributors, international organisations, public ninistration, business, research institutes, NGOs, chitecture)

# B Study: response in media

1,500+ news articles in 65 countries

1,400+ websites

5,000+ followers on facebook and twitter

































# B Study: response in policy



Carta di Siracusa (2009) 0 Leaders Statement (2010)

D COP-10

Decision X/2 on the Strategic Plan for Biodiversity 2011-20

Decision X/21 on Business Engagement

Decision X/44 on Incentive Measures

nsar Resolution X.12 on "Principles for partnerships between the nsar Convention and the business sector"

ES COP-15

S COP-10

biodiversity strategy to 2020, "Our life insurance, our natural cap by 2011)

# t TEEB is aiming for...



Inthesis of existing knowledge on economics of constant and biodiversity

ocused analysis and key messages for differer nd-users

ctive and worldwide dissemination to these use wareness raising and mainstreaming

## EB is not...

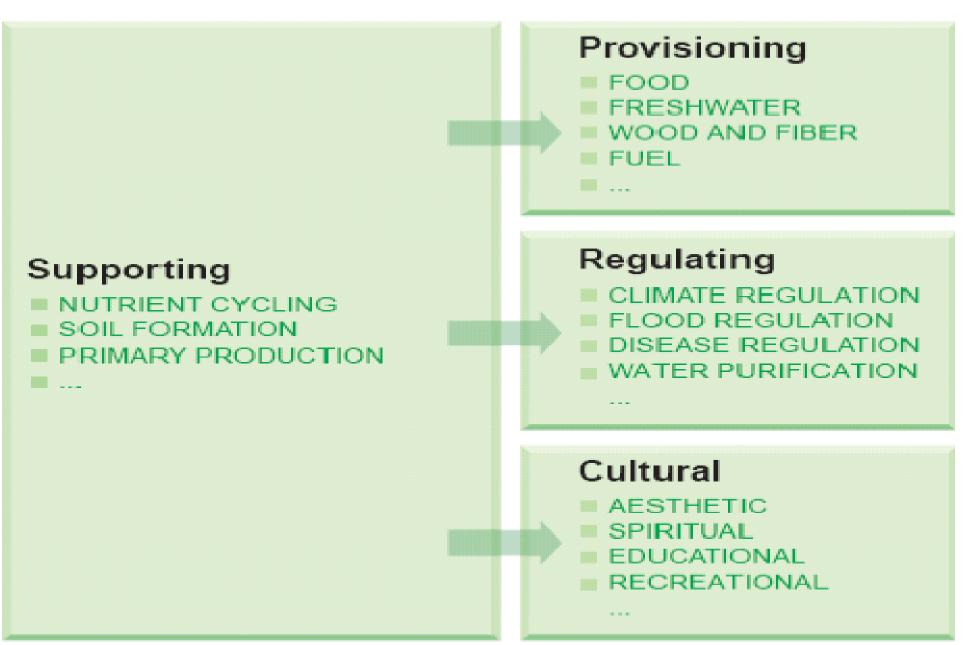
cademic effort lobal valuation study



# TEEB Study TEEB approach The way forward



#### **ECOSYSTEM SERVICES**





#### **ECOSYSTEM SERVICES**

rting

ENT CYCLING

RY PRODUCTION

ORMATION

#### Provisioning

- FOOD
- FRESH WATER
- WOOD AND FIBER
- FUEL
- ...

#### Regulating

- CLIMATE REGULATION
- FLOOD REGULATION
- DISEASE REGULATION
- WATER PURIFICATION

...

#### Cultural

- AESTHETIC
- SPIRITUAL
- EDUCATIONAL
- RECREATIONAL

- ..

IEE ON EADTH DIODIVEDOITY

#### CONSTITUENTS OF WELL-BI

#### Security

- PERSONAL SAFETY
- SECURE RESOURCE ACCESS
- SECURITY FROM DISASTERS

#### Basic material for good life

- ADEQUATE LIVELIHOODS
- SUFFICIENT NUTRITIOUS FOOD
- SHELTER
- ACCESS TO GOODS

#### Health

- STRENGTH
- FEELING WELL
- ACCESS TO CLEAN AIR AND WATER

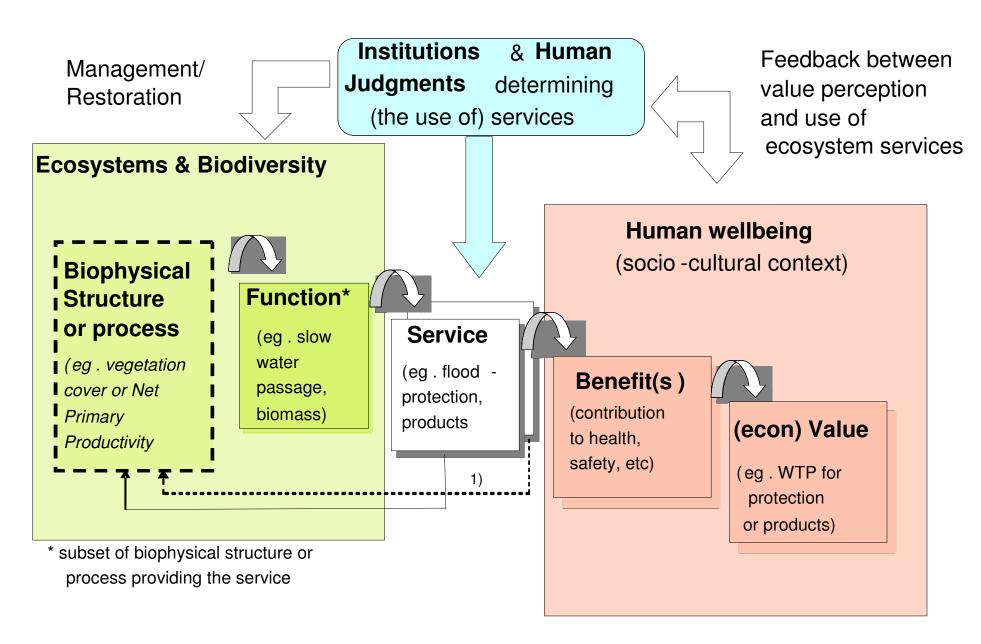
#### Good social relations

- SOCIAL COHESION
- MUTUAL RESPECT
- ABILITY TO HELP OTHERS

Free of ch and

OPPORTU ABLE TO WHAT AN VALUE AND

# fore economic valuation: assess ecosystem anges in biophysical terms





#### EB is more than economic valuation...

- corporation of nonmarket values of ecosystems in source management decisions
- imination of subsidies that promote excessive use cosystem services (and, where possible, transfer theselbsidies to payments for non-marketed ecosystem ervices)
- easures to reduce aggregate consumption of sustainably managed ecosystem services
- reater use of economic instruments and marketased approaches in the management of ecosystem ervices (where enabling conditions exist)

# B tiered approach

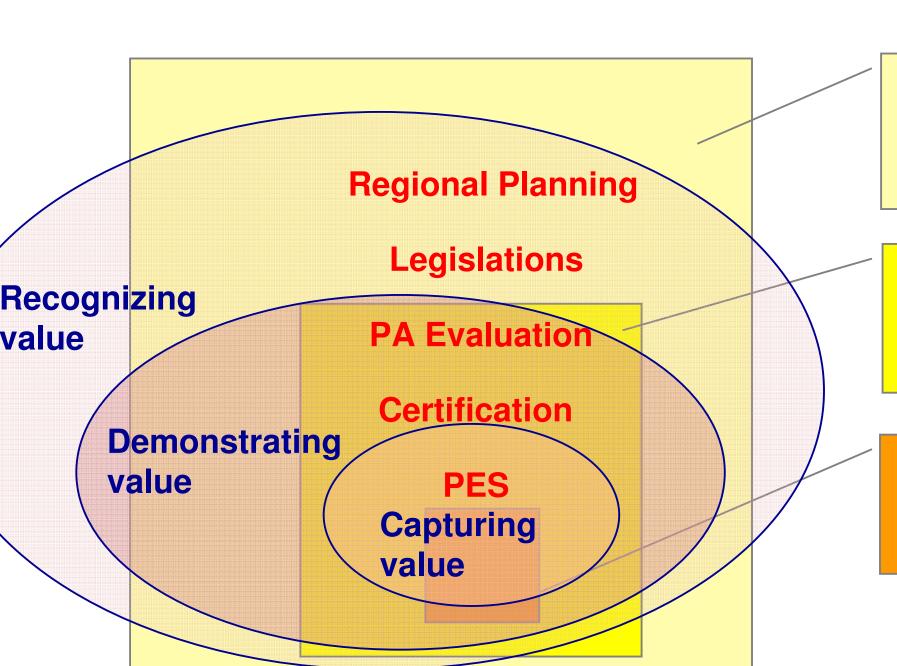


1. Recognizing value: a feature of all human societies ar communities



- Demonstrating value: in economic terms, to support decision making
- 3. Capturing value: introduce mechanisms that incorporate the values of ecosystems into decision making



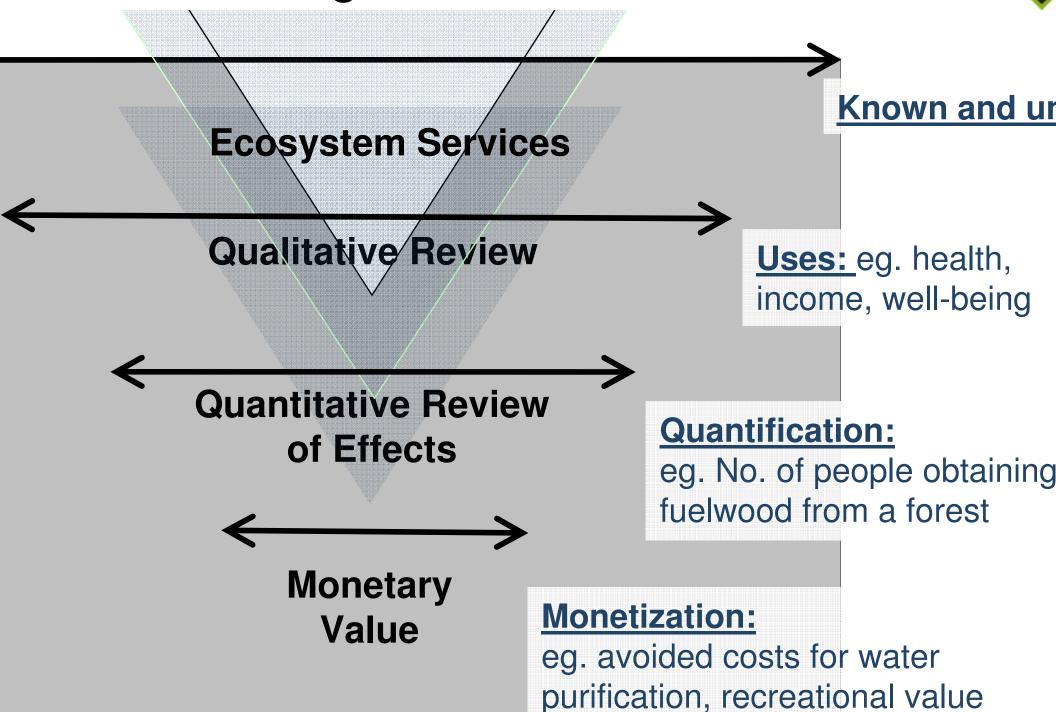


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### valuation challenge: different assessments





# Valuation: key themes

Valuation decision itself has "trade-offs" that need to be recognized (long-term concerns)

Valuation is a human institution (who values)

Define the purpose of valuation (why value)

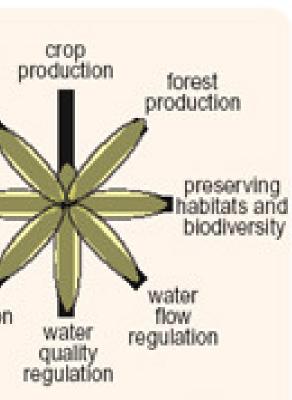
Valuation has ethical implications (uncertainties and risks)

Discounting implies ethical choices (equity)

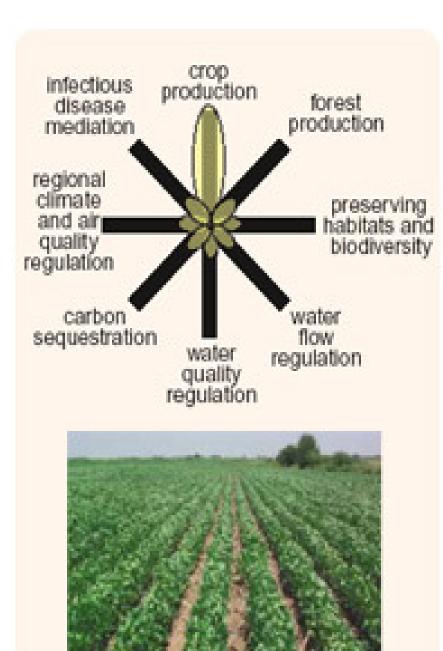
# nomic valuation a means to...

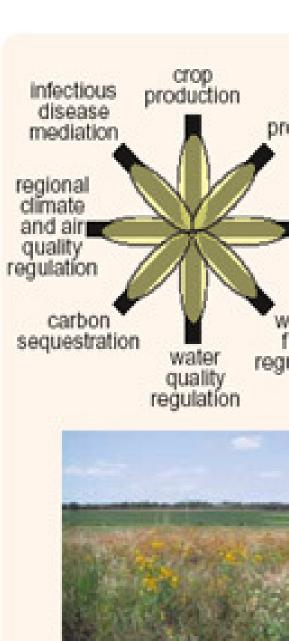
- ecognise, demonstrate and, possibly, capture alue.
- aise awareness of the role of ecosystems in uman well being.
- elp us to **measure better** so that we can nanage better
- Identify 'true' costs of business as usual Identify potential opportunities
- Improve decision making when tradeoffs are necessand useful information is lacking.
- Provide a basis for policy formation and analysis

# er management of a portfolio of system services









# ımmary



- king Nature's Values Visible: improved evidence base for proved governance, awareness for action government (all leves siness, people
- asuring better to manage better: from indicators to accounts, uation & certification
- anging the incentives: payments, taxes, charges, subsidy reforkets
- **tected areas:** biodiversity riches that can also offer value for ney, recreation and cultural identity, tourism.
- ological infrastructure and benefits: climate change tigation/adaptation), air pollution & health et al
- tural capital and poverty reduction: investment for synergies elihoods, food, water, fuel.
- instream the economics of nature: across sectors, across icies, seek synergies across disciplines.

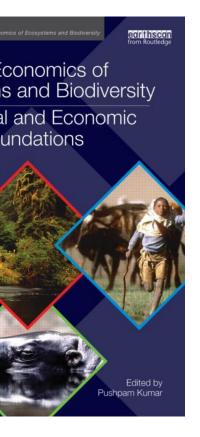


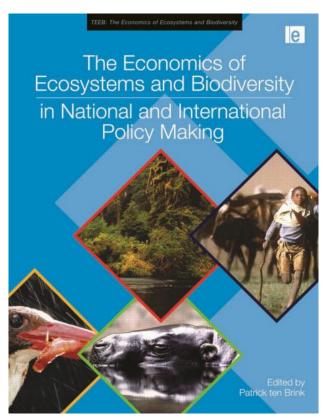


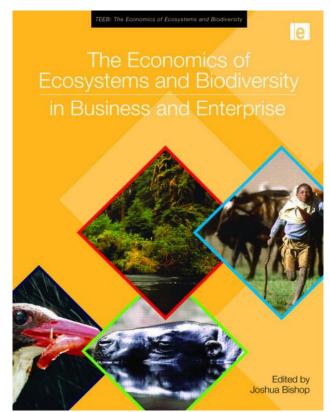
# TEEB Study: timeline, products, people TEEB approach

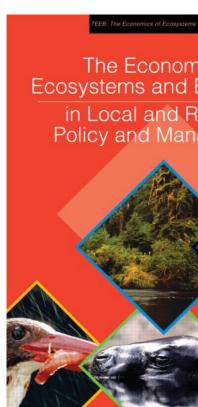
The way forward

# rom study to implementation (Phase III)

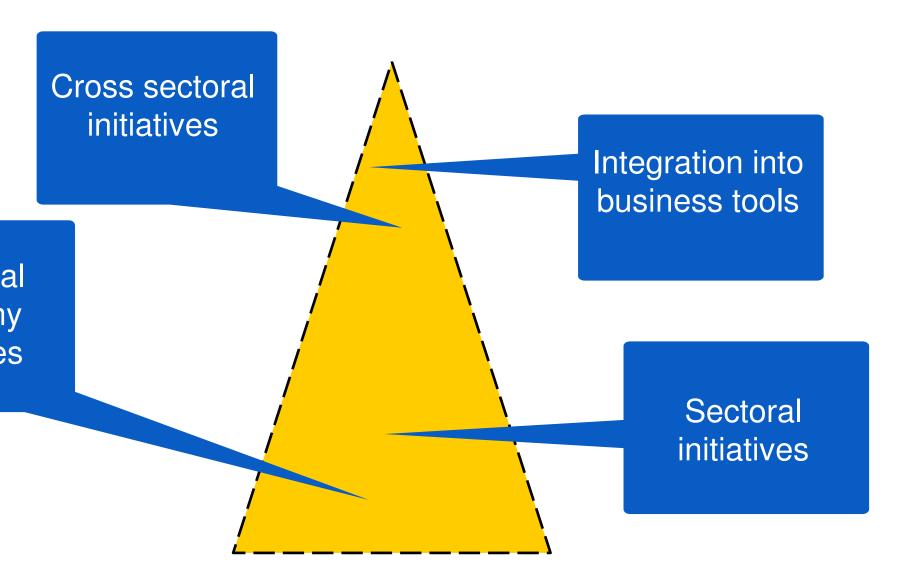








### camples of TEEB implementation by business





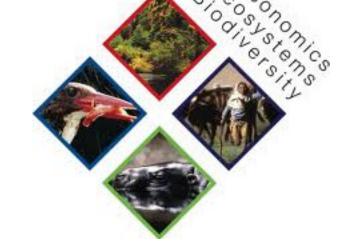


# **Survey: What are your TEEB Plans?**

Have ecosystem valuation studies already taken plac your country?

What TEEB related actions will you make when you back to your country after this workshop?

What kind of assistance will you be looking for secute your TEEB plans?



# TEEBweb.org



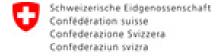












Swiss Confederation



