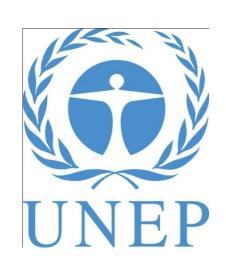


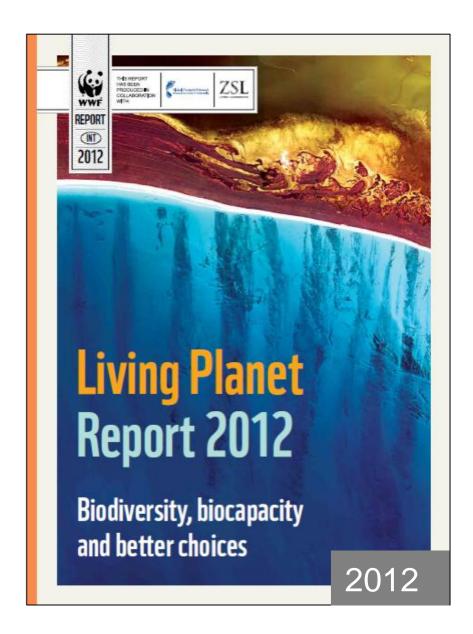
Introduction to The Economics of Ecosystems and Biodiversity (TEEB)



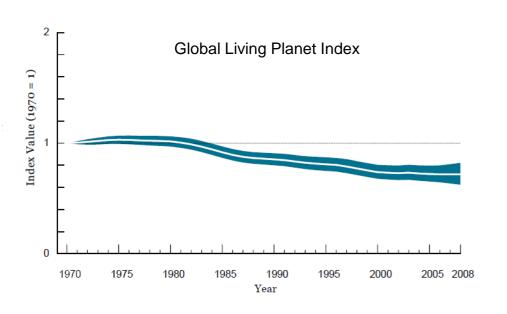
Nick Bertrand

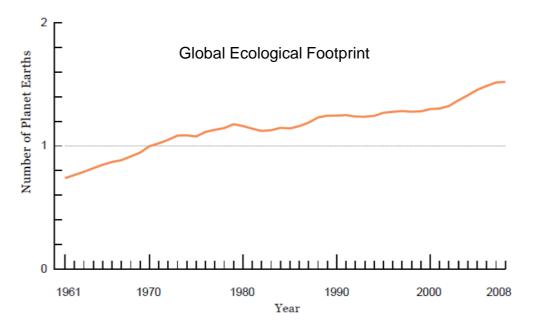
United Nations Environment Programme

TEEB for Georgia Scoping Study: Inception workshop 28 May 2012 Tbilisi, Georgia "In too many cases, the overexploitation of resources and damage or destruction of ecosystems are highly profitable for a few stakeholders in the short term; while the long-term benefits of protecting, maintaining and investing in natural capital are inadequately valued or not valued in an economic sense at all. As a result, the importance of biodiversity and ecosystem services is undervalued in economic and political trade-offs."



WWF, 2012



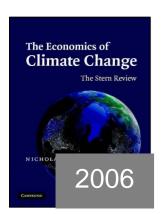


Source: WWF, 2012



Why 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
- successes need be understood, broadcast replicated and scaled...





2005

Ecological & Economic Foundations

International and national policy makers

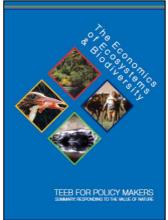
Business community

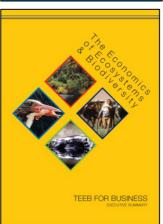
Local and regional administrators

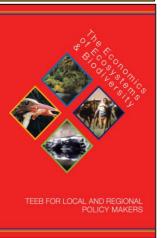
Citizens & consumers

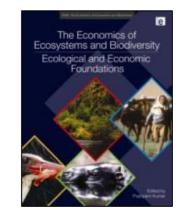


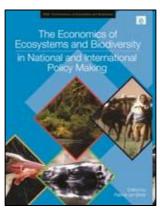
2010

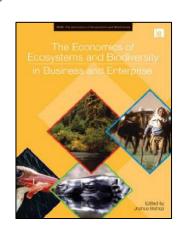


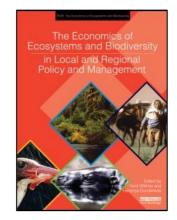












2010-12

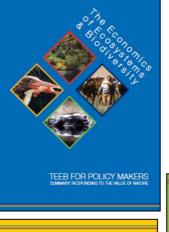


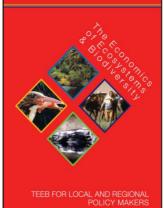
Environment Ministers Meeting Potsdam, 15-17 March 2007

2007

G8 **2007**

2008







TEEB Study: some success factors

- Independence (Study leader, advisory board)
- •Relevance (coordination group, advisory board, active promotion/communications, simple tailored messages, high level policy uptake, media coverage)
- •Broad experience (more than 500 international contributors, international organisations, public administration, business, research institutes, NGOs, , open architecture)



TEEB Study: response in policy

- G8 Carta di Siracusa (2009)
- G20 Leaders Statement (2010)
- CBD 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
- Ramsar Resolution X.12 on "Principles for partnerships between the Ramsar Convention and the business sector"
- •CITES COP-15
- •CMS COP-10
- •EU biodiversity strategy to 2020, "Our life insurance, our natural capital" (May 2011)



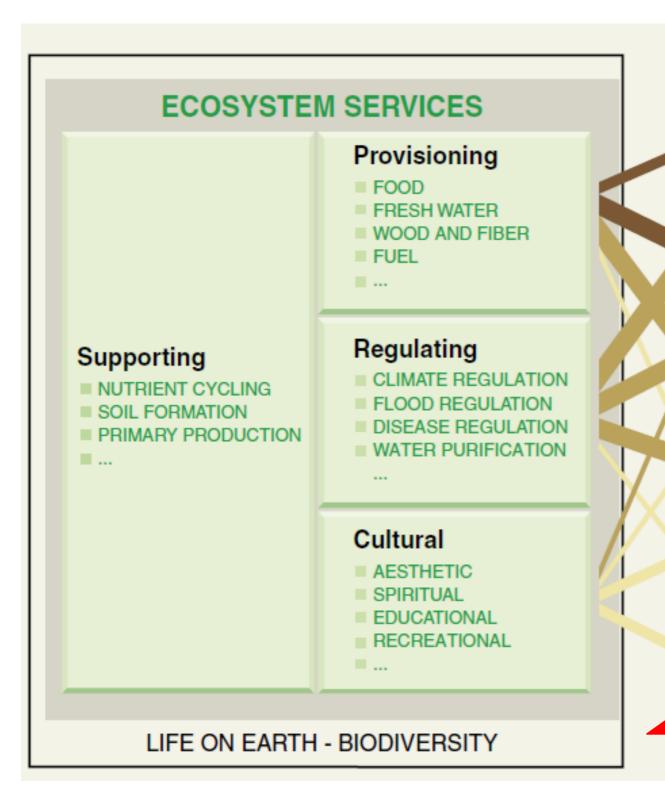
What TEEB is aiming for...

- Synthesis of existing knowledge on economics of ecosystems and biodiversity
- Focused analysis and key messages for different end-users
- Active and worldwide dissemination to these users
- Awareness raising and mainstreaming

TEEB is not...

- Academic effort
- Global valuation study





CONSTITUENTS OF WELL-BEING

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

Freedom of choice and action

OPPORTUNITY TO BE ABLE TO ACHIEVE WHAT AN INDIVIDUAL VALUES DOING AND BEING

Source: Millennium Ecosystem Assessment



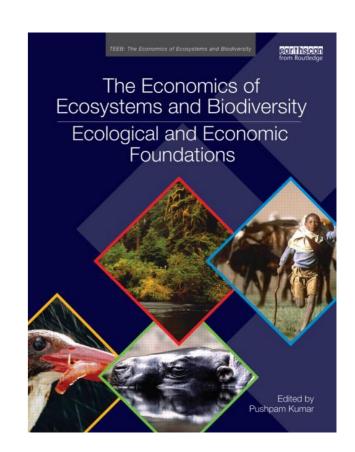
Economic valuation a means to...

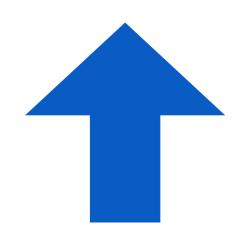
- raise awareness of the role of ecosystems in human well being.
- help us to measure better so that we can manage better.
 - Identify 'true' costs of business as usual
 - Identify potential opportunities
 - Improve decision making when tradeoffs are necessary and useful information is lacking.
 - Provide a basis for policy formation and analysis



Valuation: key themes

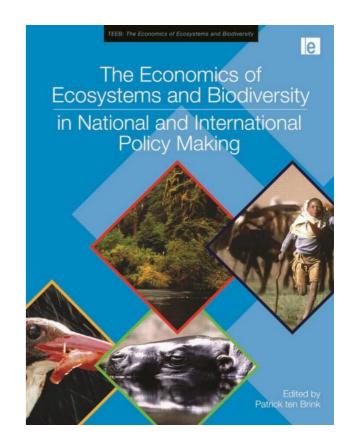
- Valuation decision itself has "trade-offs" that need to be recognized (long-term concerns)
- Valuation is a human institution (who values)
- Define the purpose of valuation (why value)
- Valuation has ethical implications (uncertainties and risks)
- Discounting implies ethical choices (equity)

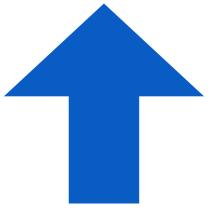




TEEB is more than valuation...

- Incorporation of nonmarket values of ecosystems in resource management decisions
- Elimination of subsidies that promote excessive use of ecosystem services (and, where possible, transfer these subsidies to payments for non-marketed ecosystem services)
- Measures to reduce aggregate consumption of unsustainably managed ecosystem services
- Greater use of economic instruments and marketbased approaches in the management of ecosystem services (where enabling conditions exist)





TEEB tiered approach



 Recognizing value: a feature of all human societies and communities





Demonstrating value: in economic terms, to support decision making



3. Capturing value: introduce mechanisms that incorporate the values of ecosystems into decision making















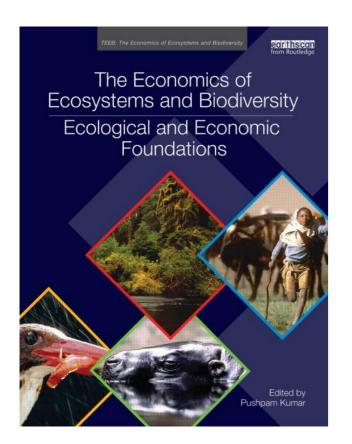


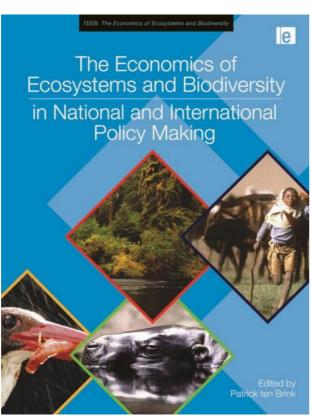


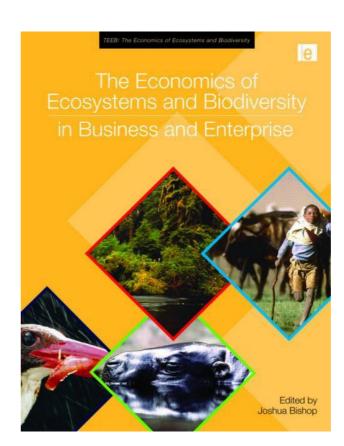


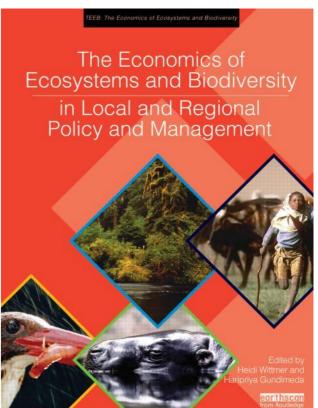


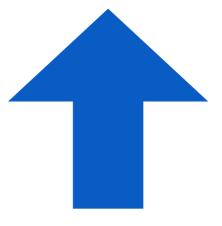
From study to implementation (Phase III)











Tier 4 suppliers	Tier 3 suppliers	Tier 2 suppliers	Tier 1 suppliers	Own operations
	Leather tanning Petroleum refining Cotton weaving and dyeing	Outsole production Insole production Textile embroidery and cutting	Shoe manufacturing Apparel manufacturing	Offices Shops Warehouses Business travel



and cutting Adhesive and paint production

manufacturing Accessory manufacturing Logistics ΙΤ









	Water use	GHGs	Land use	Air pollution	Waste	TOTAL	
	€ million	€ million	€ million	€ million	€ million	€ million	% of total
	33%	32%	26%	7%	2%	100%	
TOTAL	47	47	37	11	3	145	100%
PUMA operations	<1	7	<1	1	<1	8	6%
Tier 1	1	9	<1	1	2	13	9%
Tier 2	4	7	<1	2	1	14	10%
Tier 3	17	7	<1	3	<1	27	19%
Tier 4	25	17	37	4	<1	83	57%
EMEA	4	8	1	1	<1	14	10%
Americas	2	10	20	3	<1	35	24%
Asia/Pacific	41	29	16	7	3	96	66%
Footwear	25	28	34	7	2	96	66%
Apparel	18	14	3	3	1	39	27%
Accessories	4	5	<1	1	<1	10	7%



Benefits to the company

- Strategic tool
- Risk management tool
- Transparency tool

"We chose to convert our environmental impacts into monetary terms to make them digestible and meaningful to a much wider audience. (...) we hope to stimulate debate and we welcome support from others to continually evolve and refine the methodology for valuing corporate environmental externalities" PUMA, 2011



In summary

- Making Nature's Values Visible: improved evidence base for improved governance, awareness for action – government (all levels), business, people
- Measuring better to manage better: from indicators to accounts, valuation & certification
- Changing the incentives: payments, taxes, charges, subsidy reform, markets
- Protected areas: biodiversity riches that can also offer value for money, recreation and cultural identity, tourism.
- Ecological infrastructure and benefits: climate change (mitigation/adaptation), air pollution & health et al
- Natural capital and poverty reduction: investment for synergies livelihoods, food, water, fuel.
- Mainstream the economics of nature: across sectors, across policies, seek synergies across disciplines.



TEEBweb.org



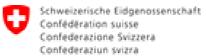












Swiss Confederation

Federal Office for the Environment FOEN



