

# CBD informal expert workshop in the updating of the Strategic Plan of the Convention for the post 2010 period

Hotel Russell London, 18<sup>th</sup> January 2010

The Economics of Ecosystems and Biodiversity (TEEB)

Pavan Sukhdev Study Leader - TEEB

## Who Else Thinks Biodiversity Matters?

- WEF: a leading Economic Forum ....
- Annual Meeting at Davos, Switzerland
- "Who's-who" of Business Leaders & Politicians



- Second Annual Summit of "Global Agenda Councils"
- Dubai 20<sup>th</sup>-22<sup>nd</sup> November 2009
- 900 experts... 75 Councils ....



Values Frame	Global Risks	Welfare (E+S)	Security	Institut- ions	Sustain- ability	Business	Regions	Advisory
Gender	Nutrition	Philanthropy	Cooperation	Government	Ecosystem/ Biodiv Loss	Mining	Africa	
Next Gen Health	Chronic Diseases	Int Monetary System	Conflict Resolution	Institutional Governance	Sust. Consump.	Construc- tion	Midddle East	Social Enterprise
Values	Pandemics	LT Investing	Internet	Legal System	Healthcare	Real Estate	E. U.	
Children's Welfare	Food Security	Systemic Fin Risk	Fragile States	Decision- making	Population	Urban Mngmt	Latin America	Strategic Foresight
Education	Water	Investment	Terrorism	Design	Transport	Marketing	Australia	
Journalism	Energy	Trade	Human Rights	Intellectual Property	Ageing Society	Entertain- ment	China	Economic Developm't
Faith	Illicit Trade	Corruption	Assistance	Measuring Progress	Climate Change	Skills Gaps	Japan	New Multi- nationlals
	Catastrophe	Migration			Energy	Diversity	Korea	
	Emerging Technology	Employment Support			Ocean Governance	Innovation	Russia	
		Financial Inclusion				Mobile Comms	South Asia	
						Sports		





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#### What is TEEB about?



Demonstrating that biodiversity loss is a loss in human welfare, an economic loss, globally, locally

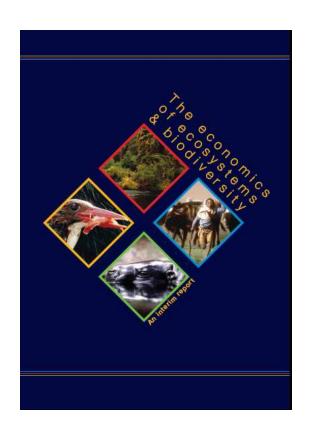
Describing economical, equitable, practical policy solutions to biodiversity loss at every policy level - local, national, international

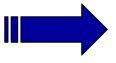
**Engaging businesses** 

**Involving citizens** 

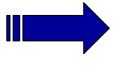


# TEEB – "Phase 1" Three Key Messages

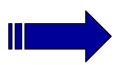




Economic Size & Welfare Impact of Losses is **huge** 



Strong link with **Poverty** & risk of **MDG's** failure

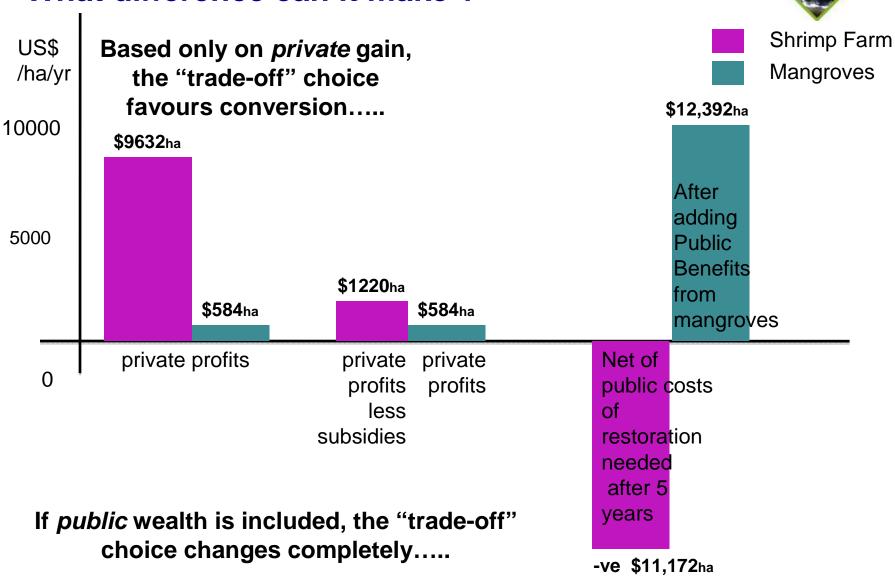


Discount rates are **ethical** choices



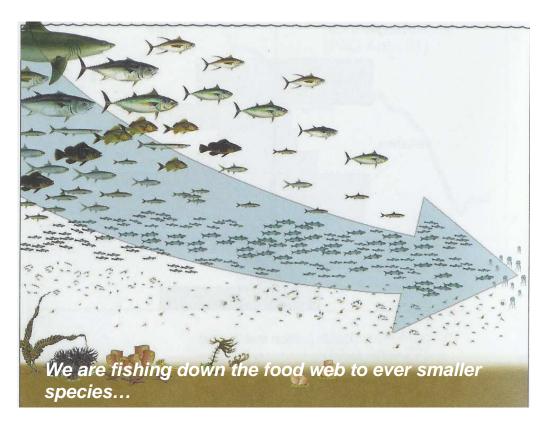


### What difference can it make?



Source: Barbier et al, 2007

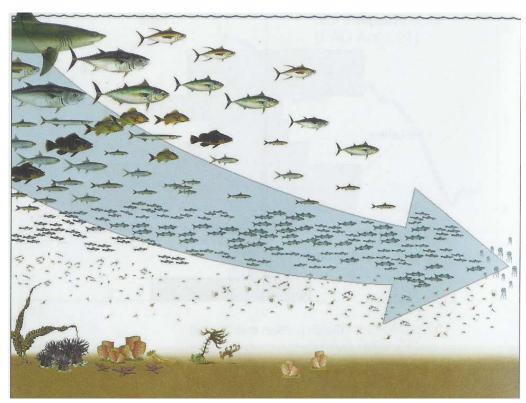
## Global Fisheries... A Problem with Many Dimensions



- ☐ Open Access system & Perverse Subsidies are key drivers of the loss of fisheries
- ☐ Half of wild marine fisheries are fully exploited, with a further quarter already over-exploited
- □ lost productivity : est. \$ 50 billion
- ☐ at risk: \$85 -100 billion landed catch from the sector
- ☐ at risk : est. 27 million jobs
- □ but most important of all.....

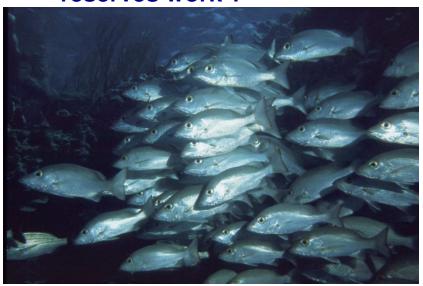
at risk: Health ... over a billion rely on fish as their main or sole source of animal protein, especially in developing countries

## Global Fisheries... Is there a Solution?



We are fishing down the food web to ever smaller species...

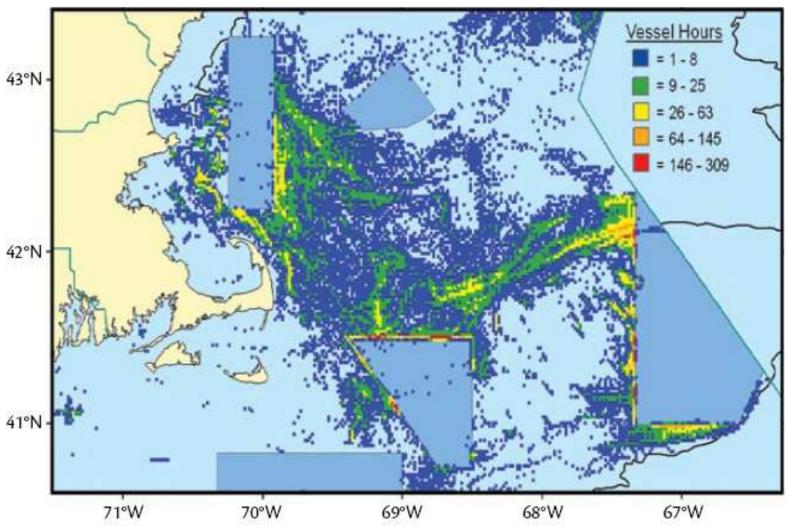
## Is there evidence that reserves work?



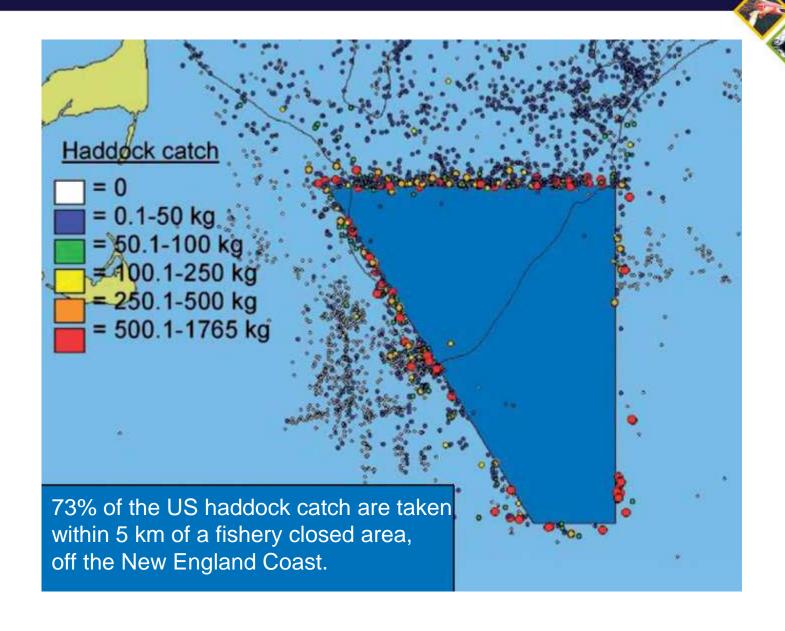
Reserves all over the world show dramatic increases in spawning stocks

Eg: Distribution of fishing effort around Georges Bank closed areas





Source: Fogarty et al. (2007)





2010: A Year of Opportunities for the CBD

- ☐ Measuring Biodiversity, Post 2010
- □ Nagoya : An Opportunity for Global Consensus



# Measuring Biodiversity ... Post 2010

# Measuring... ..... "what is interesting to study" vs

..... "what is relatively easy to measure" vs

....."what you need to manage"

- ❖ Measurable targets for biodiversity...
- ❖ Include ecosystem services ...
- \* Recognize economic benefits...



# CBD COP-10, Nagoya : An Opportunity for Global Consensus

- ❖ 2020 Target: Ask for "Net Positive Impact on Ecosystems and Biodiversity" to be tabled as the basis of a global agreement
- Coral Reef Emergency: Formally recognize the Emergency situation for this, and initiate a suite of Regional accords (eg: "Coral Triangle Initiative" precedent)
- Climate Pavillion: Have an "Biodiversity & Climate" Pavillion at CBD COP-10, to progress REDD+, Ecosystem-based Adaptation, and measuring Climate impacts on Biodiversity
- ❖ REDD+ & Biodiversity: Table the need for parallel "biodiversity / ESS") reward for REDD+ projects, to address 'empty forest' risk



## **TEEB and Developing Countries**

- ☐ "Interim Report" examples : from Brazil, Costa Rica, Guatemala, Guyana, India, Madagascar, Mexico, Panama, South Africa, Uganda
- ☐ "TEEB for Policy Makers" and "TEB for Administrators": Case studies, coauthors, and peer reviewers from around the world

## **TEEB for Policy makers**

- □ see <u>www.teebweb.org</u> and comment
- WANTED: Further Examples: on Community-based Conservation, Access & Benefit Sharing, & Payments for Ecosystem Services
- WANTED: Policy Scenario Description ("Positive Scenario") in your respective regions for a global economic scenario analysis of biodiversity over the period 2010 - 2020 - 2030 - 2050





## Thank You!

- Further information and report download: <u>www.teebweb.org</u>
- Contact Scientific Coordination: teeb@ufz.de