

Committee of Permanent Representatives

UN Environment

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TEEB Valuing Nature's Blessings

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UNFCCC

2009

Bonn 2008

TEEB End User Reports Brussels 2009, London 2010



India, Brazil, Belgium, Japan & South Africa Sept. 2010

TEEB Books



TEEB
Phase 3
(Implementation)

- Country
 TEEB
 Studies
- SectoralTEEBStudies
- Business
 Externalities:
 NCC's
 "Natural Capital
 Protocol"
- "TEEB-Agri-Food"



CBD COP 10, Nagoya, 2010



Why Valuation Matters?

"I conceive that the great part of the miseries of mankind are brought upon them by false estimates they have made of the value of things."

Benjamin Franklin (1770's)

"Everything that can be counted does not necessarily count; everything that counts cannot necessarily be counted."

William Bruce Cameron (1963)

Not the TEEB perspective on Valuation...





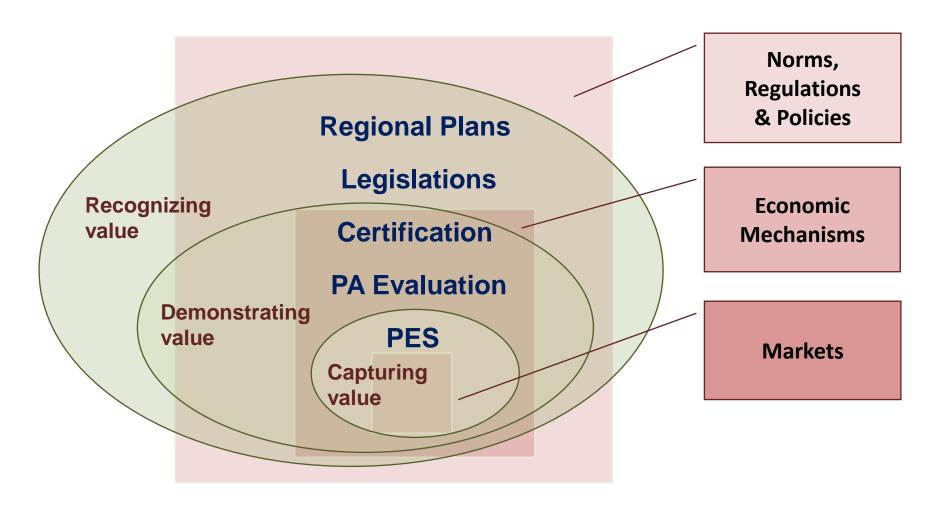
'Valuation' Vs. 'Pricing'



- **❖ Value ("valor")** is the worth to you of what you receive.
 - "Valuation is a human institution" (TEEB)
- Price ("precio") is what is paid for the value you receive
 - Markets provide prices for private goods and services, not public goods
 - Nature provides its valuable public goods and services for free, so there is no price!

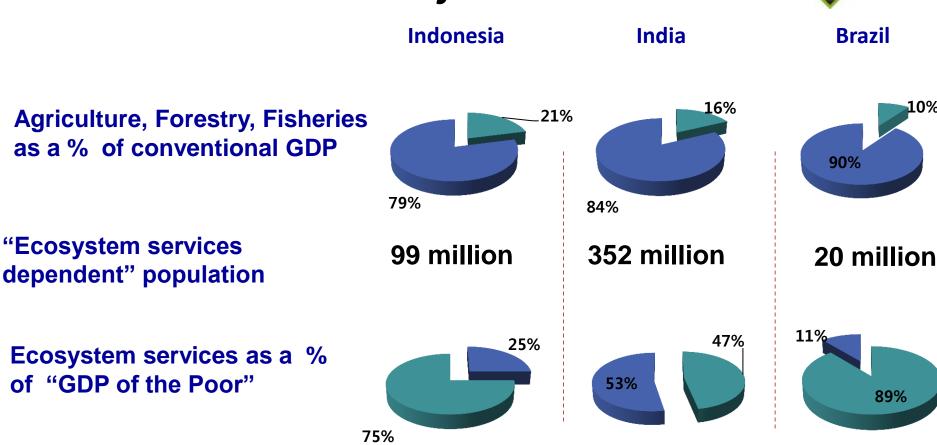


The TEEB perspective on Valuation





"GDP of the Poor"



Ecosystem services



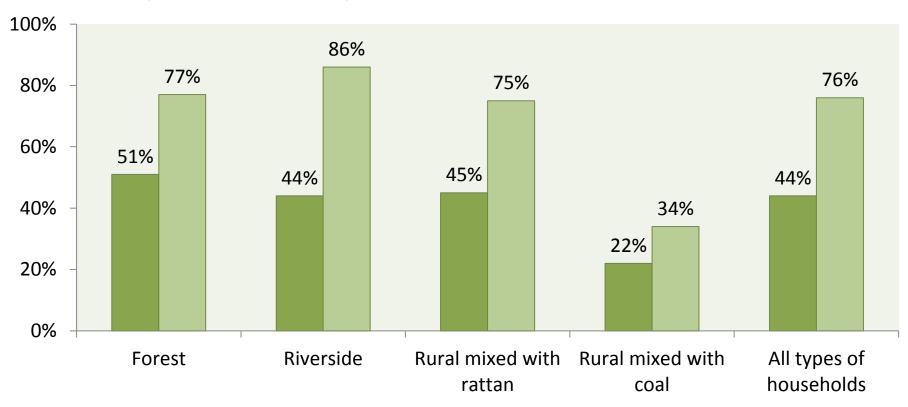
GDP of the Poor in practice





GDP of the Poor in practice

Ecosystem Services Dependence in Central Kalimantan, Indonesia



■ Average Ecosystem-based Income (Non-Cash) ■ Average Ecosystem-based Income (Cash & Non-Cash)

Source: Sukhdev et al (2014)



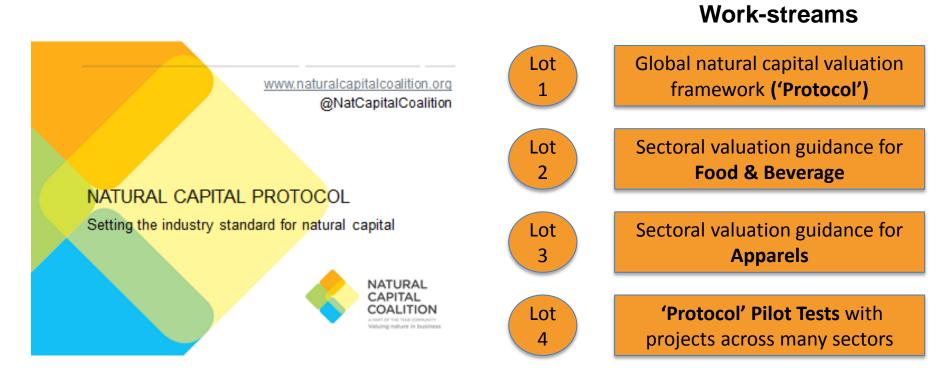
Some Uses of Valuation...

- Managing business impacts and dependencies on Nature:
 measuring materiality to prioritize corporate responses to
 business impacts, business dependencies and societal impacts
 ("negative externalities")
- Payments for Ecosystem Services (PES): setting fair compensation for actions that generate public benefit at private cost ("positive externalities")
- Terrestrial Carbon Mechanisms (Green Carbon): integrating carbon sequestration in forests and farms into nationally appropriate mitigation actions (NAMAs) & Paris targets (NDCs)



Natural Capital Protocol (NCP)

Natural Capital Coalition (NCC), *earlier* TEEB for Business Coalition, in 2014 launched a 2-year project to prepare and test a global framework and guidelines for measuring and valuing environmental impacts (externalities) and dependencies.



These work-streams were coordinated by to two groups of experts led respectively by **WBCSD** and by **IUCN** and presented the "NCP" in July 2016



Nationally Determined Contributions (NDCs) (Eg: Mexico)

Mexico's NDCs : Reduction in GHG and Short Lived Climate Pollutants

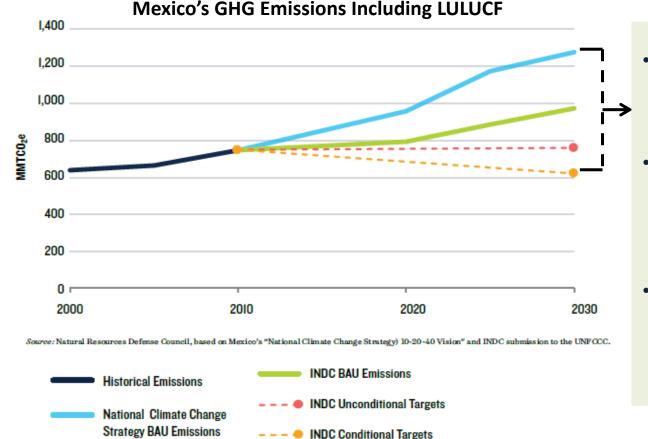
Unconditional – 25 %

Conditional – 40 %

Base Year

2013

Target Year



- market & fiscal mechanisms needed for Mexico to reach its Paris climate goals
- Mexico's 2018 "Certificados de Energía Limpia" (Clean Energy Certificates) a step in the right direction...
- to match demand & supply equitably & effectively, a robust domestic carbon mechanism is essential



Carbon Mechanisms: Some Important Questions

Ethics: Should climate change mitigation be seen as a corporate philanthropy, emitters' responsibility, or governments' responsibility?

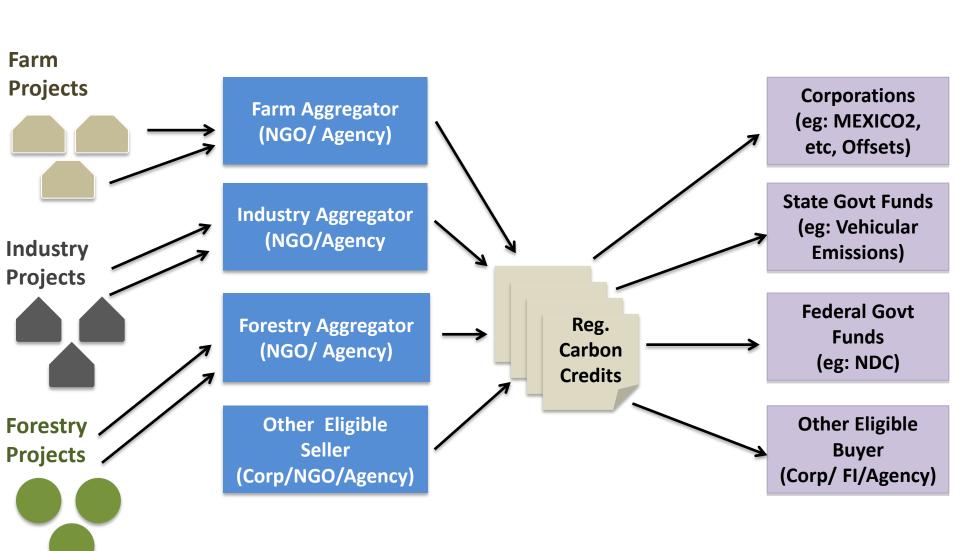
Quantities: What are appropriate annual *volumes* of emissions reductions vs BAU?

Prices: What are appropriate ranges for Carbon *prices*, to incentivize reductions, penalize third-party costs, provide fair compensation for mitigators?

- o Polluter Pays Principle
- Corporate externalities are the biggest "free lunch" in human history
- Externalities of global primary production and processing sectors is USD 7.3 trillion costs (Trucost, 2013)
- Paris Agreement: INDCs will achieve only
 50% of required CO_{2e} reductions to stay
 within 2°C target
- Social Cost of Carbon / Shadow Price estimates (/tonne CO_{2e})
 - Stern (2006): USD 85
 - UK: GBP 25 (SPC, 2007) to GBP 78 (2030)
 - US-EPA: USD 50 (2030; 3% Discount Rate)



Possible structure to achieve NDCs: A *Domestic* Carbon Mechanism?





Thank You!

www.gistindia.org

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Founding Trustee, Green Indian States Trust & UNEP Goodwill Ambassador



