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Asia-Pacific Rural Development and Food Security Forum 2022 Battling Climate Change and Transforming Agri-food Systems

22-24 March 2022

Gretchen C. Daily

Professor, Stanford University Faculty Director, The Natural Capital Project



- Being the keynote speaker, you have an element of flexibility in what you say to set the tone. As mentioned in the invitation, the session revolves around innovative approaches to green financing. Hence, the build-up could revolve around the importance of nature and biodiversity, its linkages to climate change (Stockholm +50 chapter1), importance of environmental accounting and valuing nature, and how it could enable innovative financing approaches. This is, of course, only a suggestion and you may choose your topics to suit the session.
- •
- The audience would comprise representatives from Multilateral Development Banks, governments of our Developing Member Countries, our private sector clients, civil society organizations, impact funds, commercial banks, and other private and public investors.
- •
- You would have about 15 minutes for your keynote address

Nature as an Engine of Prosperity



Nature as an Engine of Prosperity

ADB as an Engine of Innovation & Transformation

What is natural capital?



What is natural capital?



Earth's lands, waters, and biodiversity





















How much and where to protect?
 How to benefit people & nature?
 How to move beyond GDP?





KNOWLEDGE PLATFORM

POWERFUL DEMONSTRATIONS







300 IMPLEMENTING INSTITUTIONS



KNOWLEDGE PLATFORM















ENGAGED SCIENCE

TECHNOLOGY

DECISIONS

STEWARDSHIP & WELL-BEING



Coastal Protection



Clean Water & Energy



Climate Security



InVEST

integrated valuation of ecosystem services and tradeoffs

Flood Control



Health

Urban Cooling



Food Production





Coastal Protection



Clean Water & Energy



Climate Security



InVEST

>185 countries
& first cities

Urban Cooling



Food Production



Flood Control



Health

Key Ecosystem Function Zones 51% of land area



Hainan Island ~ 1st Eco-Province



Priority ecoregion globally1998-2008: 2x rubber area2010: USD 2B flood damage







Rubber Expansion on Hainan Island





(Zheng et al. 2019 PNAS)

(Zheng et al 2019 PNAS)

natural capital



Oct 2010 - Worst flooding in 50 yrs 130,000 people evacuated USD 2 billion in damage

(Zheng et al. 2019 PNAS)







natural capital

Improved Production + Other ES + Doubled Income (Zheng et al 2019 PNAS)

natural capital PROJECT National Ecological Development Strategy (Zheng et al 2019 PNAS)



To harmonize nature and people in China

- President Xi put forward the vision "Clear water and green mountains are gold and silver mountains", to give prominence to nature's value for people
- \diamond This involves:
 - 1. Integration of ecological benefits into criteria for performance evaluation of local governments
 - 2. Establishment of eco-compensation policy & investment mechanisms based on ecosystem services
 - 3. Establishment of a **natural capital accounting system** to support 1 & 2



GEP accounting framework





GEP Adoption Globally

Colombia	Sri Lanka
Mongolia	More countries with support from ADB, IDB, GEF

Pictures= Flickr, CC license

Private Financial Institutions: Pipeline in development



Financial Sector Leadership

CAPITALIZE ON MOMENTUM FOR MAINSTREAMING TARGET INVESTMENTS

- Using new data & science in compelling demonstrations
- Integrating across multiple biophysical, economic & social benefits

SCALE & ACCELERATE REGENERATION

Thank You!

