



## Panel Discussion: *Green Growth That Works*

### SPEAKER BIOS

#### Moderator:



#### **Mary Ruckelshaus**

Managing Director, Natural Capital Project, Stanford University

Mary Ruckelshaus oversees all work of the Natural Capital Project partnership including strategy, coordination, fundraising, communications, and hiring. She is based in Seattle, WA, where she previously led the Ecosystem Science Program at NOAA's NW Fisheries Science Center. Prior to that, she was an Assistant Professor of biological sciences at The Florida State University (1994-1997). The main focus of her recent work is on developing ecological models including estimates of the flow of environmental services under different management regimes in marine systems worldwide. Ruckelshaus serves on the Science Council of The Nature Conservancy and is a Trustee on its Washington Board, and is a past chair of the Science Advisory Board of the National Center for

Ecological Analysis and Synthesis (NCEAS). She was Chief Scientist for the Puget Sound Partnership, a public-private institution charged with achieving recovery of the Puget Sound terrestrial, freshwater and marine ecosystems. Ruckelshaus has a bachelor's degree in human biology from Stanford University, a master's degree in fisheries from the University of Washington, and a doctoral degree in botany, also from Washington.

#### Speakers:



#### **Gretchen Daily**

Founder and Faculty Director of the Natural Capital Project and Senior Fellow in the Woods Institute for the Environment, Stanford University

Daily leads core dimensions of the Natural Capital Project partnership at Stanford's global hub. She works extensively with governments, multilateral development banks, businesses, communities, and NGOs. Working together, the aim is to illuminate the connections between people and nature, and to open and demonstrate inclusive green growth pathways for improving the well-being of both. Daily has published hundreds of scientific and popular articles, and a dozen books, including *Nature's Services: Societal Dependence on Natural Ecosystems* (1997), *The New Economy of Nature: The Quest to Make Conservation Profitable* (2002), *Natural Capital: Theory and Practice of*

*Mapping Ecosystem Services* (2011), *The Power of Trees* (2012), and *One Tree* (2018). Daily is a fellow of the U.S. National Academy of Sciences and has received international honors for her work.



**Lisa Mandle**

Lead Scientist, Natural Capital Project, Stanford University

Lisa Mandle is developing and improving models of terrestrial ecosystem services for InVEST and for applications in Latin America. She works with the Natural Capital Project team and its partners to assess and develop plans to mitigate the effects of development projects such as mining and transportation infrastructure on ecosystem services. Lisa is an ecologist and conservation biologist who studies the impact of land management decisions on biodiversity and the provision and distribution of ecosystem services. Her previous work combined field studies and modeling to examine trade-offs between non-timber forest product management and biodiversity conservation in India to inform local management decisions. She received a doctoral degree in botany from the University of Hawaii Manoa and holds bachelor's degrees in biology and anthropology from Brown University.



**Alvaro Umaña**

Director of the Environmentally Sustainable Development Group at the United Nations Development Programme

With more than 30 years' experience working with governmental and nongovernmental organizations, Umaña has held leadership positions with international organizations such as the World Bank, where he was founding member and chairman of the World Bank Inspection Panel; the International Monetary Fund, where he has served since 2007 as senior adviser to the Office of the Executive Director for Central America, Mexico, Spain and Venezuela; and the United Nations, including UNESCO and the United Nations Development Program (UNDP), where most recently he was principal adviser and leader of the Energy and Environment Group in the Bureau for Development Policy. From 2006 to 2007 he was an adviser

for Costa Rica to the Inter-American Development Bank in Washington.

As Costa Rica's first minister of energy and environment from 1986 to 1990, during President Oscar Arias' first term of office, Umaña was internationally recognized for his groundbreaking contributions to conservation, including creation of the National Biodiversity Institute (INBio) and implementation of innovative financial instruments such as debt-for-nature swaps. Under his leadership, Costa Rica implemented the largest commercial debt-for-nature program of any developing country.