

# Plenaries at a Glance

**Welcome address: The Challenges for Science and Implementation of Mainstreaming TEEB**

*Pavan Sukhdev*

**The OECD Environment Outlook**

*Simon Upton*

**The contribution of the EU in halting the current biodiversity loss**

*Jacqueline McGlade*

**Ecosystem services in cities**

*Thomas Elmqvist*

**Global conservation policy options: an assessment of costs and benefits**

*Salman Hussain*

**The role of discounting in current choices about the environment**

*John Gowdy*

**“TEEB for Oceans” - an overview of needs, challenges and process**

*Pavan Sukhdev*

**Valuation of deep ocean ecosystem diversity and function - the challenges**

*Antje Boetius*

**Linking biodiversity, ecosystem services, and economics**

*Stephen Polasky*

**Summary of Conference: Science and Implementation of Mainstreaming the Economics of Nature**

*TEEB team at UFZ, presented by Heidi Wittmer*

Plenary 1, Mon, March 19  
**18:00h | Hall: 1AB**

Plenary 2, Tues, March 20  
**09:00h | Hall: 1AB**

Plenary 3, Tues, March 20  
**17:00h | Hall: 1AB**

Plenary 4, Wed, March 21  
**09:00h | Hall: 1AB**

Plenary 5, Thur, March 22  
**13:00h | Hall: 1AB**

# Monday | March 19 | Programme

## Plenary 1

Chair:

Heidi Wittmer

**18:00h | Hall: 1AB**

**18:20h | Hall: 1AB**

**18:50h | Hall: 1AB**

## Welcome address

*Georg Teutsch, Helmholtz Centre for Environmental Research - UFZ*

## Welcome address: The Challenges for Science and Implementation of Mainstreaming TEEB

*Pavan Sukhdev (for bio biographical sketch please visit page 11)*

## The OECD Environment Outlook

*Simon Upton, OECD*

Simon Upton is a former New Zealand Parliamentarian. In 1990, he became one of New Zealand's youngest ever Ministers in the Cabinet and served for nine years as Minister in different posts (Health, Environment, and Research, Science and Technology). Simon Upton established the Crown Research Institutes and enacted the Resource Management Act (1991). In 1998 he chaired the 7th Session of the UN Commission on Sustainable Development (CSD 7) and the meeting of OECD Environment Ministers, too. In 2000, he assumed the chairmanship of the Round Table on Sustainable Development at the OECD. In 2010 he was appointed to lead the Environment Directorate of the OECD. He has been a Visiting Fellow at Otago University (New Zealand), is a Fellow of the Royal New Zealand Society and a member of the board of the Institute for Climate and Society at Columbia University. He worked in a variety of private sector roles as well.

## Panel Discussion "A view from Policy and Business" with TEEB Advisory Board

Panelists will include:

- *Herman Mulder*
- *Julia Marton-Lefèvre*
- *Ladislav Mikos*
- *Pavan Sukhdev*

**19:30h**

**Welcome Reception**

## Tuesday | March 20 | Programme

### **The contribution of the EU in halting the current biodiversity loss**

*Jacqueline McGlade*

Jacqueline McGlade became Executive Director of the European Environment Agency in 2003. Prior to this she was Natural Environment Research Council Professorial Fellow in Environmental Informatics in the Mathematics Department of the University College London where her main areas of research included spatial data analysis and informatics, expert systems, environmental technologies and the international politics of the environment and natural resources. Previous appointments have included Director of the UK's Centre for Coastal & Marine Sciences, Director of Theoretical Ecology at the Forschungszentrum Jülich (Germany), Associate Professor at the Honda funded International Ecotechnology Research Centre (UK), Senior Scientist in the Federal Government of Canada and in the USA, Adrian Fellow at Darwin College, Cambridge and has held professorships at Warwick University (UK) and Aachen (Germany).

### **Ecosystem services in cities**

*Thomas Elmqvist*

Thomas Elmqvist is a professor in Natural Resource Management at Stockholm University. His research is focused on ecosystem services, land use change, natural disturbances and components of resilience including the role of social institutions. He is coordinating a major interdisciplinary research team as part of the Stockholm Resilience Centre, focusing on governance and management of ecosystem services in urban landscapes. He was involved in the Millennium Ecosystem Assessment and he is a Co-chair of the DIVERSITAS bioSustainability core project, member on the DIVERSITAS Science Committee. Thomas Elmqvist was coordinating lead author in TEEB Ecological and Economic Foundations on Biodiversity, Ecosystems and Ecosystem Services.

### **Plenary 2**

Chair:

Bernd Hansjürgens

**09:00h | Hall: 1AB**

**10:15 - 10:45h Coffee Break**

## Tuesday | March 20 | Programme

### National **TEEB EU 1**

Chair:  
Bernd Hansjürgens

**10:45h | Hall: 1A**

### **European national TEEB processes: Aims, approaches and way forward [130]**

*Presenter: Bettina Hedden-Dunkhorst, German Federal Agency for Nature Conservation*

### **TEEB-NL [337]**

*Presenter: Kees Hendriks, Alterra*

### **Natural Capital Germany – TEEB DE [1179]**

*Presenter: Bernd Hansjürgens, Helmholtz Centre for Environmental Research - UFZ*

### Local **Local and Urban Planning 1**

Chair:  
Felix Müller

**10:45h | Hall: 1B**

### **How could ecosystem services alter existing planning instruments in Germany? [129]**

*Presenter: Stefan Marzelli, ifuplan Institute for Environmental Planning and Spatial Development*

### **Enhancing sustainable land use by applying the ecosystem services concept - valuation and implementation in the Free State of Saxony (Germany) [223]**

*Presenter: Karsten Grunewald, Leibniz Institute of Ecological and Urban Development*

### **An introduction to TEEB Manual for Cities: Ecosystem Services for Urban Management [612]**

*Presenter: Sarah Birch, ICLEI-Local Governments for Sustainability*

### Networks **Networks and Databases 1**

Chair:  
Carsten Neßhöver

**10:45h | Hall: 1C**

### **Lessons learned from carrying out ecosystem assessments: experiences from members of the Sub-global Assessment Network [548]**

*Presenter: Claire Brown, UNEP World Conservation Monitoring Centre*

### **Bridging the communication gap between biodiversity knowledge and decision making: The Network of Knowledge Approach for Europe [1205]**

*Presenter: Marie Vandewalle, Helmholtz Centre for Environmental Research - UFZ*

### **TEEB Phase III: facilitating implementation [1223]**

*Presenter: Nick Bertrand, UNEP*

## Tuesday | March 20 | Programme

### **Valuing peatland ecosystem services - IUCN UK Commission of Inquiry [244]**

*Presenter: Aletta Bonn, IUCN UK Peatland Programme*

### **The 21st Century Utility: Accounting for Natural Capital [309]**

*Presenter: Jennifer Harrison-Cox, Earth Economics*

### **Ecosystem Services Approach for Water Framework Directive Implementation: The Ems river basin [655]**

*Presenter: Linda Neubauer, seeconsult GmbH*

**12:00 – 12:15 Short Break**

### **Making the economic case for biodiversity conservation in the Caucasus [360]**

*Presenter: Anja Wittich, IUCN Caucasus Cooperation Centre*

### **Policy-oriented ES-research in Belgium: progress and prospects [421]**

*Presenter: Sander Jacobs, University of Antwerp*

### **The Role of National Sustainable Development Strategies and the Economics of Ecosystem Services and Biodiversity: The Portuguese Case [538]**

*Presenter: Nuno Oliveira, Instituto Superior DE GESTÃO*

### **Water bodies, recreation and their role in ecological city planning [535]**

*Presenter: Katharina Stork, Karlsruhe Institute of Technology*

### **The Economics of the Bird Table: The Use of Choice Modelling to Estimate Marginal Valuations for UK Garden Birds [111]**

*Presenter: Mike Brock, University of East Anglia*

### **QUICKScan: a decision-making support toolbox to improve assessments of ecosystems and ecosystem services [125]**

*Presenter: Marta Perez-Soba, ALTErrA Wageningen University and Research*

### **Design, decide and negotiate with TEEB-Urban the Netherlands [420]**

*Presenter: Ursula Kirchholtes, Witteveen+Bos*

Biomes  
**Water and Wetlands 1**

Chair:  
Achim Schäfer

**10:45h | Hall: 1D**

National  
**TEEB EU 2**

Chair:  
Christoph Görg

**12:15h | Hall: 1A**

Local  
**Local and Urban Planning 2**

Chair:  
Dagmar Haase

**12:15h | Hall: 1B**

## Tuesday | March 20 | Programme

Networks

### **Networks and Databases 2**

Chair:

NN

**12:15h | Hall: 1C**

### **Economic valuation of regulating services provided by wetlands in agricultural landscapes: a meta-analysis [517]**

*Presenter: Roy Brouwer, Institute for Environmental Studies, VU University Amsterdam*

### **Analyzing spatial patterns of subtropical urban forests: Applications for ecosystem service modeling, valuation, and indicators [563]**

*Presenter: Cynnamon Dobbs, University of Melbourne*

### **Biodiversity and the OECD Environmental Outlook to 2050 [992]**

*Presenter: Kumi Kitamori, OECD; Mark van Oorschoot, PBL*

Biomes

### **Water and Wetlands 2**

Chair:

Giovanni Bidoglio

**12:15h | Hall: 1D**

### **Value-based ecosystem management at the subwatershed level [313]**

*Presenter: Matthew Retallack, Carleton University*

### **Carbon Offsettings by 'MoorFutures' [1002]**

*Presenter: Achim Schäfer, EMAU Greifswald*

### **Natural resources, livelihoods, and reserve management: a case study from Sundarbans mangrove forests, Bangladesh [107]**

*Presenter: Michael Getzner, CEAZA*

**13:30 – 15:00 Lunch Break**

National - Special Session

### **TEEB Brazil**

Chair:

Antonio Tafuri

**15:00h | Hall: 1A**

### **TEEB Business Brazil: Engaging the Brazilian business community in the sustainable use of biodiversity [314]**

*Presenter: Helena Boniatti Pavese, Conservation International*

### **TEEB for regional and local policy makers: Challenges in scaling up payment for ecosystem services schemes – the Atlantic Forest's case study [316]**

*Presenter: Ingrid Prem, GIZ*

### **The Brazilian TEEB Initiative: Where we are and where we want to get? [319]**

*Presenter: Antonio Tafuri, Ministry of Environment of Brazil*

## Tuesday | March 20 | Programme

### **The nexus between urban shrinkage and ecosystem services - an unconquered terrain providing great potential [110]**

*Presenter: Dagmar Haase, HU Berlin, UFZ Leipzig*

### **Eco-Efficient Business Leads to Sustainable Urban Infrastructure Development [328]**

*Presenter: Madhu Verma, Indian Institute of Forest Management*

### **The value of street trees in the centre of Lodz, Poland [636]**

*Presenter: Jakub Kronenberg, University of Lodz*

### **The economic value of white stork nesting colonies in Polish 'stork villages' [643]**

*Presenter: Jakub Kronenberg, University of Lodz*

### **Nature in Impact Assessment (IA) – addressing ecosystem services at spatial scales [108]**

*Presenter: Sanna-Riikka Saarela, Finnish Environment Institute*

### **Value and importance for ecosystems of local stakeholder activities [221]**

*Presenter: Robert E. Kenward, Centre of Ecology and Hydrology*

### **Mainstreaming Biodiversity - Tools for Integrating Ecosystem Aspects into Policy Assessment [237]**

*Presenter: Johanna Ferretti, FU Berlin/FFU*

### **Mainstreaming the concept of ecosystem services into policy impact assessment [338]**

*Presenter: Katharina Diehl, Leibniz-Centre of Agricultural Landscape Research (ZALF) e.V.*

### **Valuing natural hazard protection services of forests [201]**

*Presenter: Roland Olschewski, Swiss Federal Research Institute WSL*

### **Forests for Carbon or Timber: An Economic Evaluation of Land Use Tradeoff in Vietnam [203]**

*Presenter: Van Dien Pham, Vietnam Forestry University*

### **Towards an economic assessment of ecosystem services under climate change [991]**

*Presenter: Hamed Daly-Hassen, National Institute for Research in Rural Engineering, Water and Forestry (INRGRF)*

### **Applying the "TEEB Stepwise Approach" for valuing urban forest ecosystem services in North Rhine-Westphalia, Germany [1212]**

*Presenter: Christoph Aicher, Helmholtz Centre for Environmental Research - UFZ*

Local  
**Local and Urban  
Planning 3**

Chair:  
HariPriya Gundimeda

**15:00h | Hall: 1B**

Networks - Special Session  
**Integrating  
ecosystems and  
biodiversity in policy  
impact assessment**

Chair:  
Sabine Weiland

**15:00h | Hall: 1C**

Biomes  
**Forest  
multifunctional 1**

Chair:  
Christoph Aicher

**15:00h | Hall: 1D**

## Tuesday | March 20 | Programme

**16:30 - 17:00h** *Coffee Break*

### Plenary 3

Chair:

Irene Ring

**17:00h | Hall: 1AB**

### **Global conservation policy options: an assessment of costs and benefits**

*Salman Hussain*

Dr Salman Hussain coordinated the Quantitative Assessment (QA) for TEEB. The Quantitative Assessment develops an estimation of the costs and benefits of various conservation activities and policies on global-level. These include policies such as the extension of protected areas, reduced deforestation, investment in Agricultural Knowledge, Science and Technology (AKST), dietary change etc. It links bio-physical modeling from the Dutch Environment Agency (PBL) with environmental economic valuation. Salman is currently Programme Director of the MSc in Ecological Economics at the Scottish Agricultural College of the University of Edinburgh. He has previously coordinated projects for the European Commission, The Department for Environment, Food and Rural Affairs (Defra), Scottish Government, the Food Standards Agency, and the Scottish Natural Heritage.

### **The role of discounting in current choices about the environment**

*John Gowdy*

John M. Gowdy is Rittenhouse Professor of Humanities and Social Science and Professor of Economics at Rensselaer Polytechnic Institute in Troy, New York. His major areas of interest are Ecological Economics, Energy and Climate Change, Evolutionary Economics, Welfare Theory and Policy, and Behavioral Economics. He is past president of the International Society for Ecological Economics and served as president for the U.S. Society for Ecological Economics from 2002-2003. He has been a Fulbright scholar at the Economic University of Vienna, Leverhulme Professor at Leeds University and a visiting scholar at the University of Zurich, the Free University of Amsterdam, the University of Queensland and Tokushima University. In TEEB Ecological and Economic Foundations he was Coordinating Lead Author on Discounting, Ethics and Options for Maintaining Biodiversity and Ecosystem Integrity.

**19:30h** *Conference Dinner*



## Wednesday | March 21 | Programme

### **“TEEB for Oceans” - an overview of needs, challenges and process**

*Pavan Sukhdev*

Pavan Sukhdev founder-CEO of GIST Advisory, a consulting collaborative specialized in valuing and managing environmental impacts and dependencies at national, provincial, business and even personal level. Pavan is a banker by profession, and study leader of two landmark reports in 2010 - “TEEB” (which brings the invisible economics of nature into policy and business), and UNEP’s “Towards a Green Economy” (which shows that ‘greening’ of economies is not a drag on growth but a new engine for growth, provides a net source of employment, and the means to end persistent poverty). Pavan was elected “Personality of the Year, 2010” by Environmental Finance, and awarded the IEEM medal (2011) for his work on TEEB. He serves on the Boards of Conservation International and Stockholm Resilience Centre, and on UNDP’s Advisory Panel on the Human Development Report and its Human Development Index (HDI). In 2011 he was awarded the McCluskey Fellowship, at Yale University. He is currently finishing a book on the history and future of the Corporation.

### **Valuation of deep ocean ecosystem diversity and function - the challenges**

*Antje Boetius*

Antje Boetius is Professor of Geomicrobiology at MARUM, University Bremen and leader of the Helmholtz - Max Planck Research Group on Deep Sea Ecology and Technology at the Alfred Wegener Institute for Polar and Marine Research and the Max Planck Institute for Marine Microbiology. Her research foci include marine microbial ecology, biogeochemistry, extreme environments and deep-sea ecology. Current activities of her group concentrate on the effects of climate change on the Arctic ocean ecosystem. In 2009 Antje Boetius received the prestigious Gottfried Wilhelm Leibniz Prize, the highest German research prize, for her study of microorganisms that control methane emission from the seabed, and in 2011 she received an ERC Advanced Investigator Grant to study the microbial diversity of the deep-sea floor.

### **Plenary 4**

Chair:

Carsten Neßhöver

**09:00h | Hall: 1AB**

**10:15 - 10:45h Coffee Break**

## Wednesday | March 21 | Programm

### National **CBD and National Strategies 1**

Chair:

Stefan Baumgärtner

**10:45h | Hall: 1A**

#### **The Economics of Ecosystems and Biodiversity in Brazil: a basis for policy making [113]**

*Presenter: Sandra Paulsen, Ipea*

#### **Incorporating the value of biodiversity into government policy in England [205]**

*Presenter: James Vause, Defra*

#### **Costs and benefits of implementing a national strategy on biological diversity in Germany [270]**

*Presenter: Henry Wüstemann, TU Berlin*

### Local **Planning and Participation 1**

Chair:

Roel Slootweg

**10:45h | Hall: 1B**

#### **118: Understanding land use planners to promote conservation implementation at local government level – a social marketing project in the Eastern Cape, South Africa**

*Presenter: Angelika Wilhelm-Rechmann, Nelson Mandela Metropolitan University, South Africa*

#### **122: A new dimension to conservation and development planning in Papua New Guinea**

*Presenter: Susi Menazza, The Nature Conservancy*

#### **283: The CBD Guidelines on impact assessment**

*Presenter: Roel Slootweg, SevS natural and human environment consultants*

### Networks **Networks and Databases 3**

Chair:

NN

**10:45h | Hall: 1C**

#### **First draft of an ecosystem service catalogue at national level for Germany [128]**

*Presenter: Stefan Marzelli, ifuplan Institute for Environmental Planning and Spatial Development*

#### **Opportunities and limits of major global ecosystem service databases and their contribution to implement the ecosystem service concept for practitioners [264]**

*Presenter: Stefan Schmidt, Helmholtz Centre for Environmental Research - UFZ*

#### **The Quantitative Assessment: data sources and methods [1137]**

*Presenter: Alistair McVittie, Scottish Agricultural College*

## Wednesday | March 21 | Programme

### **Evaluation of Ecosystem Services in Slovenia - Cases of Lovrenška lakes and Škocjan Caves [255]**

*Presenter: Gregor Danev, Institute of the Republic of Slovenia for Nature Conservation*

### **Debushing and the Economics of Ecosystems & Biodiversity. Applying the TEEB approach on the Namibian savanna with bush encroachment [552]**

*Presenter: Hannes Etter, University of Bonn*

### **Valuing the Arc: an Ecosystem Services Approach with a case study of Non-Timber Forest Products in the Eastern Arc Mountains of Tanzania [596]**

*Presenter: Marije Schaafsma, CSERGE, University of East Anglia*

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### **Economic Costs of Ocean Acidification: A Look into the Impacts on Shellfish Production [109]**

*Presenter: Daiju Narita, Kiel Institute for the World Economy*

### **The Economics of Ecosystems and Biodiversity for the Oceans: the green economy for a blue world [523]**

*Presenter: Anne Solgaard, UNEP/GRID-Arendal*

### **Can Marine Protected Areas Improve the Livelihoods of Local Communities: An Economic Analysis [592]**

*Presenter: Michael Verdone, International Union for Conservation of Nature*

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### **Corporate Indicators for Biodiversity [124]**

*Presenter: Joost Bakker, Global Nature Fund*

### **Ecosystem service indicators: Are we ready to measure ecosystem performance? [239]**

*Presenter: Wouter Van Reeth, INBO*

### **Making Corporate Ecosystem Valuation practical for the business sector – Better valuation methods and their integration into decision-making [575]**

*Presenter: Tobias Hartmann, Global Nature Fund*

### **Ecopay – Integrating economic and ecological knowledge for software-based decision support for cost-effective biodiversity conservation in grassland [1184]**

*Presenter: Melanie Mewes, Helmholtz Centre for Environmental Research - UFZ*

Biomes  
**Forest  
multifunctional 2**

Chair:  
Madhu Verma

**10:45h | Hall: 1D**

Marine  
**Marine 1**

Chair:  
Antje Boetius

**10:45h | Hall: 2B**

Instruments  
**Indicators and Tools**

Chair:  
Melanie Mewes

**10:45h | Hall: 2A**

## Wednesday | March 21 | Programme

12:00 - 12:15 *Short Break*

### National **CBD and National Strategies 2**

Chair:  
James Vause

**12:15h | Hall: 1A**

#### **Leveraging the Real Value of Biodiversity in New Zealand [247]**

*Presenter: Rod Hay, Department of Conservation*

#### **The UK National Ecosystem Assessment and the Natural Environment White Paper, putting natural value at the heart of policy making [206]**

*Presenter: Michele Pittini, UK Department for Environment (Defra)*

#### **The Evolution of Methods for Environmental Compensation Calculation in Brazil - A Case Study in Oil and Gas Sector [324]**

*Presenter: Martha Barata, FIOCRUZ*

### Local **Planning and Participation 2**

Chair:  
Felix Rauschmayer

**12:15h | Hall: 1B**

#### **Collaborative Urban Modeling Platform facilitating effective incorporation of ecosystem services and trade-off decision-making for sustainable urban patterns [311]**

*Presenter: Ulrike Wissen Hayek, ETH Zürich*

#### **A human well-being approach for assessing the value of ecosystem services [115]**

*Presenter: Angela Kopmann, Institute for the World Economy*

#### **Urban ecosystem services and human well-being in a nature-related conflict [336]**

*Presenter: Felix Rauschmayer, Helmholtz Centre for Environmental Research - UFZ*

### Networks **Networks and Databases 4**

Chair:  
Salman Hussain

**12:15h | Hall: 1C**

#### **Ramsey Discounting of Ecosystem Services [169]**

*Presenter: Stefan Baumgärtner, Leuphana University of Lüneburg*

#### **Mapping Ecosystem Services Values: A Literature Review [174]**

*Presenter: Philipp Schaegner, Joint Research Center, IES*

#### **Income distribution and willingness to pay for public ecosystem services [212]**

*Presenter: Moritz A. Drupp, University of Tübingen*

#### **Native vegetation restoration to achieve carbon and biodiversity benefits in Queensland [1128]**

*Presenter: Megan Evans, The University of Queensland*

## Wednesday | March 21 | Programme

### **Quantifying the Dependence on Natural Resources in different socio-economic settings in India [199]**

*Presenter: Haripriya Gundimeda, Indian Institute of Technology Bombay*

### **The Real Cost of Mining in the Cloud Forests of Ecuador: A Case Study of valuing Intag's Ecosystem Services [310]**

*Presenter: Jennifer Harrison-Cox, Earth Economics*

### **Estimating values of pollination services and ecological succession of forests [327]**

*Presenter: Madhu Verma, Indian Institute of Forest Management*

### **Social Cost Benefit Analysis of Global Forest Landscape Restoration: Potential returns to the extension and uptake of forest landscape restoration science and policy recommendations [1183]**

*Presenter: Michael Verdone, International Union for Conservation of Nature*

### **The environmental impact of tourism - What happens on the island of Capri [127]**

*Presenter: Tommaso Russo, Universita' degli Studi di Napoli Parthenope - Napoli*

### **Supporting the integration of long-term measures into the Protected Areas management of small islands [189]**

*Presenter: Chiara Bragagnolo, University of Azores*

### **Oyster reef restoration in the northern Gulf of Mexico: Assessing economic rationales for large-scale restoration efforts [529]**

*Presenter: Timm Kroeger, The Nature Conservancy*

### **Choosing how to value in a context of socio-cultural diversity [162]**

*Presenter: Franz Gatzweiler, Center for Development Research (ZEF)*

### **Systematic conservation planning and CBD targets: conservation of ecosystem services may be accompanied by collapse in capacity for biodiversity conservation [249]**

*Presenter: Daniel Faith, Australian Museum*

### **The TEEB stepwise approach for including ecosystem appraisal in policy making [1222]**

*Presenter: Heidi Wittmer, Helmholtz Centre for Environmental Research - UFZ*

Biomes  
**Forest  
multifunctional 3**

Chair:

Roland Olschewski

**12:15h | Hall: 1D**

Marine  
**Marine 2**

Chair:

Rob Tinch

**12:15h | Hall: 2B**

Instruments  
**Concepts and  
Approaches**

Chair:

Nick Bertrand

**12:15h | Room: 2A**

## Wednesday | March 21 | Programme

13:30 – 15:00 **Lunch Break**

National - Special Session  
**Providing expertise on economic approaches for CBD implementation: A participative session**

15:00h | Hall: 1A

*Conveners: Carsten Neßhöver, Julian Rode (both UFZ), Markus Lehmann (CBD)*

TEEB has entered a new phase that focuses on mainstreaming and on the implementation of TEEB concepts and lessons into decision-making processes. The TEEB initiative is currently assessing how to best connect TEEB knowledge users - both academics and practitioners - with existing TEEB knowledge, such as experts, databases, training materials and case studies. The CBD and its National Focal Points are important users of TEEB knowledge. Several decisions of the CBD COP 10 in Nagoya, most notably Aichi targets 2 and 3, explicitly refer to TEEB and call for use of economic approaches.

So how can the TEEB community most effectively provide knowledge for CBD implementation processes?

The session aims to answer this important question. It will start with short introductory presentations on TEEB and CBD knowledge needs, followed by participative methods and an open discussion. We invite all interested participants to join us and contribute actively!

Local  
**Local and Urban Planning 4**

Chair:  
Annegret Haase

15:00h | Hall: 1B

**A manual and web based tool to support the valuation of ecosystem services in Flanders, Belgium [120]**

*Presenter: Joris Aertsens, VITO*

**How Local Landscape Resources Affect Apartment Prices: Evidence from a Hedonic Pricing Model [154]**

*Presenter: Fabian Waltert, Swiss Federal Institute for Forest, Snow and Landscape Research WSL*

**Green Spaces as Potentials for Urban Development – Adaptation to Climate Change and Chances for Biodiversity [230]**

*Presenter: Juliane Mathey, IOER (Leibniz-Institut für ökologische Raumentwicklung)*

**Addressing needs in the search for sustainable development - A proposal for needs-based scenario building [457]**

*Presenter: Catherine Jolibert, UAB - Autonomous University of Barcelona*

## Wednesday | March 21 | Programme

### **Mainstreaming Ecosystem Services into Strategic Environmental Assessments: the Belgian case [262]**

*Dieter Mortelmans, VUB*

### **Performance differences and trade-offs in the provision of ecosystem goods and services [139]**

*Presenter: Arjan Ruijs, PBL - Netherlands Environmental Assessment Agency*

### **Defining synergies and tradeoffs between ecosystem services for systematic land use planning [145]**

*Presenter: Elizabeth Law, University of Queensland*

### **Relevance of spatially explicit ecosystem service evaluation tools for the implementation in decision-making [186]**

*Presenter: Benjamin Burkhard, University of Kiel*

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### **Local biodiversity conservation policy and its economic impact [159]**

*Presenter: Takashi Hayashi, Policy Research Institute, Ministry of Agriculture, Forestry and Fisheries*

### **Ecological justice in agricultural systems. An evaluation of success factors and barriers by the example of the Philippine farmer network MASIPAG [116]**

*Presenter: Stefanie Glotzbach, Leuphana University Lueneburg*

### **Improving the livelihoods of women by promoting environmentally sound soil conservation practices in the home garden: a case study of a Community Development Centre Aranayake, Sri Lanka funded by UNDP/GEF/Small Grants Programme [219]**

*Presenter: Dinali Jayasinghe, University of Colombo*

### **Consumer behavior for biodiversity conservation and price formation in agricultural products [280]**

*Presenter: Mitsuyasu Yabe, Kyushu University*

### **Revaluating the paradox of market participation and biodiversity loss: The case of native Capsicum varieties in the Amazon rainforest of Peru [571]**

*Presenter: Jaqueline Garcia-Yi, University of Hannover*

Networks

### **Integrating trade-offs between ecosystem services in decision making**

Chair:

Thomas Köllner

**15:00h | Hall: 1C**

Biomes

### **Agriculture and Livelihood: "Agriculture, Forestry and Fisheries"**

Chair:

Simron Singh

**15:00h | Hall: 1D**

## Wednesday | March 21 | Programme

Marine

### Marine 3

Chair:

Kees Hendricks

15:00h | Hall: 2B

### **What impacts to expect from economic valuation of coral reef? Results from 5 experiences in the Pacific [251]**

*Presenter: Nicolas Pascal, Laboratoire d'Excellence « CORAIL » USR 3278 CNRS-EPHE, Centre de Recherche Insulaire et Observatoire de l'Environnement (CRIOBE)*

### **The Marine Biodiversity Compensation Value Impacted by an Offshore Development [284]**

*Presenter: Cynthia Vieira*

### **Human activities and their impacts on marine biodiversity of the Persian Gulf [1177]**

*Presenter: Alireza Sari, University of Tehran*

### **Marine zoning planning to minimise social conflict and management cost in Fiji [1185]**

*Presenter: Azusa Makino, University of Queensland*

Instruments

### **Payments for Ecosystem Services 1**

Chair:

Henry Wüstemann

15:00h | Hall: 2A

### **Internalization and Payment of Watershed Environmental Services: Pragmatical Lessons for Success [207]**

*Luis Gamez, ESPH*

### **Farmer participation in the Ulugurus Equitable Payments for Watershed Services scheme in Morogoro Tanzania [261]**

*Presenter: Emmanuel Kwayu, The University of Leeds*

### **Payments For Water-Related Ecosystem Services In Latin America: Evidence From A Meta-Analysis [143]**

*Presenter: Julia Martin-Ortega, The James Hutton Institute*

### **Distributive justice in the international regulation of ecosystems and biodiversity [114]**

*Presenter: Marc Davidson, University of Amsterdam*

16:30 - 17:00 **Coffee Break**



## Wednesday | March 21 | Programme

### **Buffalo, buffalo weavers and buffalo grass: Namibia's approach to biodiversity and sustainable development [238]**

*Presenter: Julian Fennessy, Namibia Nature Foundation*

### **The Green Development Initiative: Certifying conservation & development, hectare by hectare [267]**

*Presenter: Till Stoll, Earthmind*

### **Enhancing the science-policy-implementation interface to develop innovative financing mechanisms for conservation [1202]**

*Presenter: Bettina Hedden-Dunkhorst, German Federal Agency for Nature Conservation*

### **Voluntary certification schemes for protected ecosystems: a critical review [1204]**

*Presenter: Ulrike Grote, Leibniz Universität Hannover*

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### **Introduction**

*Natasja Hulst, Unit coordinator Biodiversity and Natural Resources, CREM*

### **Dreaming a shared vision: Biodiversity Action Planning through participatory valuation of ecosystem services [276]**

*Presenter: Menko Wiersema, Province of South Holland*

### **The added value of biodiversity in the Dutch IJsselmeer Area [275]**

*Presenter: Flos Fleischer, VBIJ*

### **The role of ecosystem services as concept and tool to support the implementation of environmental legislation in Europe [271]**

*Presenter: Laure Ledoux, European Commission (tbc)*

### **Pollination, policies and critical gray areas – a regional case study in South-West Finland [188]**

*Presenter: Outi Ratamäki, Finnish Environment Institute*

### **A multi-scale mapping approach to the biophysical assessment of ecosystem services in Europe in support of EU the biodiversity policy [260]**

*Presenter: Giovanni Bidoglio, Joint Research Centre - JRC*

### **Mapping and modelling global ecosystem services [269]**

*Presenter: Rob Alkemade, PBL*

National - Special Session

### **The Green Development Initiative: a new pathway for financing biodiversity conservation in developing countries?**

Chair:  
Till Stellmacher

**17:00h | Hall: 1A**

Local - Special Session

### **Participatory valuation of ecosystem services in local and regional planning – The Dutch experience**

Chair:  
Roel Slootweg

**17:00h | Hall: 1B**

Networks - Special Session

### **Linking ecosystem services assessments to the needs of decision makers at different spatial scales**

Chairs:  
Jennifer Hauck &  
Joachim Maes

**17:00h | Hall: 1C**

## Wednesday | March 21 | Programme

Special Session  
**TEEB @ Yale**

Chair:  
Pavan Sukhdev

**17:00h | Hall: 1D**

**Mechanism structuring for a landscape-based REDD+ [1215]**

*Presenter: Daniel Knudsen, Yale Law School*

**A Wildlife Premium Market for Sumatran Tiger Conservation [1216]**

*Presenter: Naazia Ebrahim, Yale University*

**Ecosystem Restoration for Climate Change Adaptation: a general framework for future cost-benefit analysis [1217]**

*Presenter: Paulo Quadri, Yale University*

**Micro Economics of Forest – Food Security Linkages in Northern Ethiopia: Safety Nets or Poverty Traps? [305]**

*Nigussie Abadi Mistru, Mekelle University, Ethiopia and National University of Ireland*

Marine  
**Marine 4**

Chair:  
Ian Dickie

**17:00h | Hall: 2B**

**Understanding people's values for marine biodiversity loss [288]**

*Presenter: Adriana Ressurreição, Azores University*

**Environmental Impacts Valuation Model (EIVM) – Eastern Adriatic and Dubrovnik case study of cruise tourism [472]**

*Presenter: Hrvoje Carić, Institute for Tourism*

**Imagining collapse: planning to protect coastal capital in Belize [647]**

*Presenter: Patrick Gallagher, Stanford University*

**Applicability of marine organisms as heavy metal bioindicators in the Persian Gulf and Gulf of Oman [1178]**

*Presenter: Masoumeh Malek, University of Tehran*

Instruments  
**Payments for Ecosystem Services 2**

Chair:  
Roy Brower

**17:00h | Hall: 2A**

**Domesticating PES: Payments for Agrobiodiversity Conservation Services [200]**

*Presenter: Adam Drucker, Biodiversity International*

**Towards cost-effective watershed management in the Brazilian Atlantic Forest: Valuing demand and supply of water quality in the Guapi-Macacu watershed [246]**

*Presenter: Vanesa Rodriguez Osuna, Institute for Technology and Resources Management in the Tropics and Subtropics (ITT)*

**Can Payments for Ecosystem Services contribute to adaptation to climate change? Insights from a watershed in Kenya [632]**

*Presenter: Isabel van de Sand, Deutsches Institut für Entwicklungspolitik (DIE)*

## Thursday | March 22 | Programme

### **The new forest code impact on payment for environmental services schemes in Brazil [1009]**

*Presenter: Gustavo Pinheiro, The Nature Conservancy*

### **Conservation and Management of Genetic Resources of Rice Wild Relatives of Sri Lanka: An Alternative Strategy Linking Conservation Policies and Sustainable Livelihoods [178]**

*Presenter: Udith Jayasinghe-Mudalige, Wayamba University of Sri Lanka*

### **Creating frameworks, enhancing dialogue and developing capacities**

Panel Discussion organized by GIZ, Panelists will include:

- *Antonio Tafuri, Analista Ambiental, Directoria de Conservacao da Biodiversidade (DCBio) Ministerio de Meio Ambiente (MMA), Brasil*
- *Hamed Dali, National Institute of Rural Engineering, Water and Forests (INRGREF) Tunisia*
- *J.R. Bhatt, Director Ministry of Environment and Forests India*
- *Isabel Castañeda, Economic Valuation Unit, Ministry of Environment, Peru*
- *Marcial C. Amaro, Director of the Ecosystem Research and Development Bureau (ERDB) Philippines*
- *Harald Lossack, Head of Section Biodiversity, Forests, Natural Resources, GIZ Germany*

### **Alberta's Ecosystem Services Programm [1015]**

*Presenter: Gillian Kerr, Alberta Environment and Water*

### **The Natural Capital Project: Experience with Applying the InVEST Software in local decision making**

*Presenter: Stephen Polasky, University of Minnesota*

### **TNC - Ecosystem service assessment for protected area planning on Solomon Islands**

*Presenter: Susi Menazza, The Nature Conservancy*

### **Ecosystem service assessments in local decision making – lessons learned [614]**

*Presenter: Johannes Förster, Helmholtz Centre for Environmental Research - UFZ*

National - Special Session

### **Kicking-off TEEB implementation**

Chair:  
Isabel Renner

**09:00h | Hall: 1A**

Local - Special Session

### **Ecosystem service assessments in local decision making – lessons learned**

Chair:  
Johannes Förster

**09:00h | Hall: 1B**

## Thursday | March 22 | Programme

Networks

### **Climate and Ecosystem Services**

Chair:

Volkmar Hartje

**09:00h | Hall: 1C**

#### **Economic losses on water and recreation services in tropical forests due to climate change [256]**

*Presenter: Elena Ojea, Basque Centre for Climate Change (BC3)*

#### **Integrating Ecosystem Services in the Evaluation of Terrestrial Transport Infrastructure (TTI) Projects: An Application to Carbon Sequestration [297]**

*Presenter: Léa Tardieu, SupAgro Montpellier*

#### **The Role of Biodiversity in Climate Change Mitigation (ROBIN) [1010]**

*Presenter: Terry Parr, Centre of Ecology and Hydrology, Lancaster, U. K.*

#### **The value of biodiversity and ecosystem services in South Africa: adapting to climate change the natural way [458]**

*Presenter: Tracey Cumming, SANBI*

Biomes

### **Parks and Protected Areas**

Chair:

Alistair McVittie

**09:00h | Hall: 1D**

#### **Is there a need for “park usages partnering” in developing countries? [197]**

*Presenter: Luong Le, Institute of Human & socio-economic geography*

#### **Payments for Ecosystem Services in Europe’s Wilderness Areas [235]**

*Presenter: Zoltan Kun, PAN Parks Foundation*

#### **Intergovernmental fiscal transfers for biodiversity conservation in Germany [1203]**

*Presenter: Irene Ring, Helmholtz Centre for Environmental Research - UFZ*

#### **Economic Instruments for Protected Area Management - An integrated assessment methodology [1182]**

*Presenter: Julian Rode, Helmholtz Centre for Environmental Research - UFZ*

Marine - Special Session

### **Demonstrating and leveraging the value of nature in the marine environment**

Chair:

Guy Whitley

**09:00h | Hall: 2B**

#### **Demonstrating and leveraging the value of nature in the marine environment [332]**

This Special Session will wrap up the Marine conference stream. Next to introducing a few international projects dealing with marine biodiversity, it will include a panel discussion on policy demand, opportunities and barriers for a greater integration of value evidence in marine policy making and management. All presenters of the Marine conference stream are invited to attend.”

Panel discussion. Panelists will include:

- • *Claire Armstrong, University of Tromsø*
- • *Rob Tinch, Median SCP and eftec*

# Thursday | March 22 | Programme

10:30 - 10:45h **Short Break**

**Mainstreaming Ecosystem Services into development planning in Vietnam – Lessons learnt from assessing and integrating of Mangrove Ecosystem Services in Ca Mau Province, Vietnam [263]**

*Presenter: Ngoc Kim Thi Thuy, ISPONRE*

**Mainstreaming Ecosystem Services through internationally implemented projects [266]**

*Presenter: Ersin Esen, United Nations Environment Program*

**Efforts to Mainstream Ecosystem Services into Development Planning in Trinidad and Tobago [325]**

*Presenter: Alexander Girvan, The Cropper Foundation*

**Mainstreaming of Ecosystem Services in Chile's San Pedro de Atacama [556]**

*Presenter: Sonia Salas, CEAZA (Center for Advanced Studies in Arid Zones)*

**Participatory valuation of ecosystem services: acknowledging the uncertainties of a concept**

*Cécile Barnaud, INRA, Toulouse*

**A three-pillars framework for the Valuation of Terrestrial Ecosystem Services: insights from an application in Belgium**

*Corentin Fontaine, FUNDP, Namur, Belgium*

**An Economic Experiment on Ecosystem Certificates for Diverse Stakeholders: The Case of Sikunga, Namibia [173]**

*Presenter: Dirk Röttgers, Leibniz Universität Hannover*

**Development of ES Valuation Database(s) & Biome Expert Groups [1211]**

*Presenter: Sander van der Ploeg, University of Wageningen*

**Introduction**

*Presenter: Dolf de Groot, University of Wageningen*

**How to support biodiversity research and decision making through a European analytical infrastructure [208]**

*Presenter: Silvia Wissel, University of Amsterdam*

National - Special Session  
**Mainstreaming of Ecosystem Services: Possible Pathways and Lessons Learned**

Chair:  
Ersin Esen

**10:45h | Hall: 1A**

Local - Special Session  
**Participatory Valuation of Ecosystem Services**

Chair:  
Nicolas Dendoncker

**10:45h | Hall: 1B**

Networks  
**Ecosystem Services Partnership**

Chairs:  
Dolf de Groot / Sander van der Ploeg

**10:45h | Hall: 1C**

*to be continued on next page*

## Thursday | March 22 | Programme

### **SERVES: Simple and Effective Resource for Valuing Ecosystem Services [307]**

*Presenter: Jennifer Harrison-Cox, Earth Economics*

These presentations are followed by a panel discussion. Invited panel members include (alphabetically): Nick Bertrand (UNEP), Claire Brown (UNEP World Conservation Monitoring Centre), Jennifer Harrison-Cox (Earth Economics), Salman Hussain (Scottish Agricultural College), Alistair McVittie (Scottish Agricultural College), Carsten Neßhöver (UFZ), Stefan Schmidt (UFZ), Benjamin Simmons (UNEP), Marie Vandewalle (UFZ).

### Biomes **Economic importance of conservation**

Chair:

Terry Parr

**10:45h | Hall: 1D**

### **Case studies integrating the TEEB approach into site management plans [240]**

*Presenter: Ian Dickie, eftec*

### **Assessing the Values of Nature and Applications for Policy: A Case Study from Nyungwe National Park in Rwanda [312]**

*Presenter: Jane Carter Ingram, Wildlife Conservation Society*

### **Evidence of the Socio-Economic Importance of Polar Bears for Canada [112]**

*Presenter: Maribel Hernandez, ÉcoRessources Consultants*

### **Economic consequences of biological invasions: The case of invasive species threats to Australia's biodiversity [153]**

*Presenter: Sonia Akter, Helmholtz Centre for Environmental Research - UFZ*

### Biomes - Special Session **The Economics of Land Degradation**

Chair:

Mark Schauer

**10:45h | Hall: 2B**

### **Economics of Land Degradation in the international context**

*Presenter: Richard Thomas, Assistant Director (Dryland Ecosystems), UNU, Hamilton*

### **ELD – toward an integrated global assessment**

*Presenter: Ephraim Nkonya, Senior Research Fellow, IFPRI, Washington*

### **ELD – European perspective**

*Presenter: Stefan Sommer, Senior Researcher, European Commission Joint Research Centre, Ispra*

### **Meta-analysis of methodologies for economic valuation of dryland ecosystem services [1127]**

*Presenter: Johanna Schild, VU University Amsterdam*

**12:15 - 13:00h    Snack Lunch**

# Thursday | March 22 | Programme

## **Linking biodiversity, ecosystem services, and economics**

*Stephen Polasky*

Stephen Polasky holds the Fesler-Lampert Chair in Ecological/Environmental Economics at the University of Minnesota. He is one of the leaders of the Natural Capital Project's ecosystem service mapping and valuation effort. His research interests include ecosystem services, natural capital, biodiversity conservation, sustainability, integrating ecological and economic analysis, renewable energy, environmental regulation, and common property resources. He served as Senior Staff Economist for environment and resources for the President's Council of Economic Advisers (1998-1999). He currently serves on the Science Advisory Board of the US Environmental Protection Agency, the Board of Directors for the Beijer Institute of Ecological Economics, and the Board of Directors and the Science Council of The Nature Conservancy and contributed to TEEB Ecological and Economic Foundations. He was elected into the U.S. National Academy of Sciences in 2010 and as a Fellow of the Association of Environmental and Resource Economists in 2011.

## **Plenary 5**

Chair:

Heidi Wittmer

**13:00h | Hall: 1AB**

## **Summary of Conference: Science and Implementation of Mainstreaming the Economics of Nature**

*TEEB team at UFZ, presented by Heidi Wittmer, Helmholtz Centre for Environmental Research - UFZ*

The summary of the main outcomes of the TEEB Conference will be presented at the Planet under Pressure a week later.

What are the most pressing research needs and knowledge gaps that hinder the mainstreaming of nature in socio-economic decisions?

What are the institutional and political hurdles preventing scientific knowledge to be adequately reflected in policies and their implementation?

By addressing these questions we are looking forward to taking stock of the most important recent developments in policy and research relevant to TEEB, and to discussing these with the conference participants.

The team at UFZ has provided the scientific coordination of TEEB in its second phase when the main reports were written. Now the UFZ team leads TEEB Germany, is engaged in several TEEB follow-up projects as well as in TEEB networking.

**End of the TEEB Conference 2012**

