

Convention on
Biological Diversity



CITIES AND BIODIVERSITY OUTLOOK I

A GLOBAL ASSESSMENT OF THE LINKS BETWEEN
URBANIZATION, BIODIVERSITY AND ECOSYSTEM SERVICES



Stockholm Resilience Centre
Research for Governance of Social-Ecological Systems



A centre with:



PLAN OF ACTION ON SUBNATIONAL GOVERNMENTS, CITIES AND OTHER LOCAL AUTHORITIES FOR BIODIVERSITY

endorsed by the Conference of the Parties in its 10th meeting in Nagoya, Japan, 18–29 October 2010


Paragraph 6 of the decision as adopted:

"...Requests the Executive Secretary, subject to the availability of resources, to prepare an assessment of the links and opportunities between urbanization and biodiversity for the eleventh meeting of the Conference of the Parties, based on the third edition of the Global Biodiversity Outlook..."



The urban challenge

- By 2050 - almost 3 billion additional people will inhabit the world's cities - the largest and fastest period of urban expansion in all of human history
- Urban growth will impact the provision of many ecosystem services and the benefits humans derive from nature, and the demands of cities will reshape most rural landscapes in the coming decades.

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- Unless urbanization is considered at all policy levels, many of the goals of the CBD, as well as the MDG and the UNFCCC goals for mitigating and adapting to climate change, are unlikely to be met.
 - A sustainable urbanization will be necessary for achieving goals of a more sustainable planet.

City Biodiversity Outlook 1:

Mission:

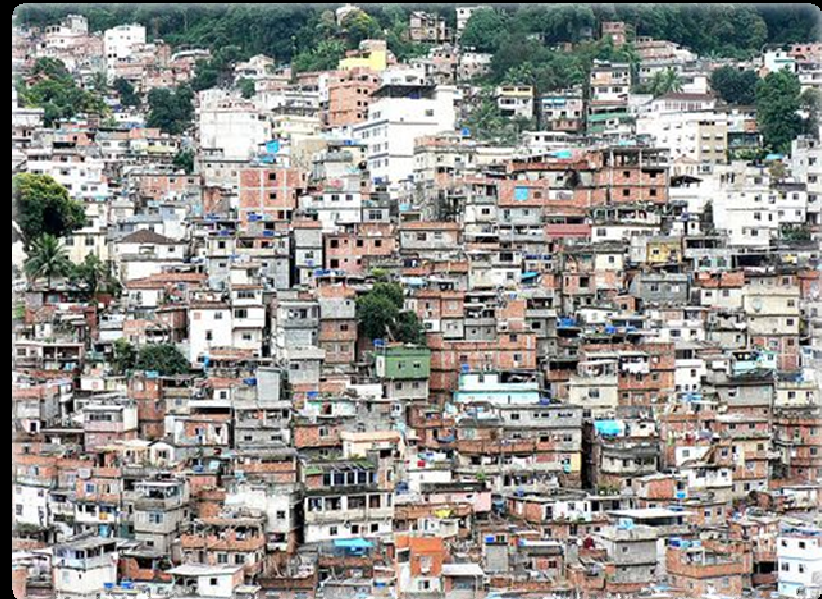
Serve as the first comprehensive global synthesis of how urbanization impacts biodiversity and ecosystem change in terrestrial, freshwater and marine systems

What it will do:

Provide an overview, analysis and response to knowledge gaps in our understanding of urbanization processes and its multiple effects on social-ecological systems

Focus on solutions:

Address how urban biodiversity and ecosystems could be used, restored and created in innovative ways to reduce vulnerability and enhance natural capital and resilience, how cities could move from being just consumers to also generate multiple ecosystem services



CBO1 - INTER-AGENCY TASK-FORCE

INSTITUTION	NAME	POSITION
Secretariat of the Convention on Biological Diversity (SCBD)	Ahmed Djoghlaif*	Executive Secretary
United Nations Environment Programme (UNEP)	Balakrishna Pisupati	Head of Biodiversity, Land and Governance Programme
ICLEI – Local Governments for Sustainability	Kobie Brand	ICLEI Global Coordinator for Biodiversity
United Nations Development Programme (UNDP)		
United Nations Educational, Scientific and Cultural Organization (UNESCO)	Kalonji Gretchen	Assistant Director General for Natural Sciences
	Salvatore Arico	Programme Specialist for Biodiversity, Division of Ecological and Earth Sciences
United Nations Human Settlements Programme (UN-HABITAT)	Rafael Tuts	Chief of the Urban Environment and Planning Branch
International Union for Conservation of Nature (IUCN)		
United Nations University Institute for Sustainability and Peace (UNU-ISP)	Srikantha Herath	Senior Academic Programme Officer, Hydrology and Water Resources, Disaster Risk Reduction, Environmental Modeling
United Nations Department of Economic and Social Affairs (UN-DESA)	Mohan Peck	Senior Sustainable Development Officer
	Keneti Faulalo	Interregional Adviser on SIDS

CBO1 - ADVISORY COMMITTEE

NAME	INSTITUTION	POSITION
Ahmed Djoghlaif*	Secretariat of the Convention on Biological Diversity (SCBD)	Executive Secretary
Bärbel Dieckmann	Welthungerhilfe, Germany	President of the Honorary Supervisory Board; Former Mayor of the City of Bonn, Germany
Carlos Alberto Richa	State Government of Paraná, Brazil	Governor
Expert TBD	India	
Jean-Pierre Revéret	Social Responsibility and Sustainable Development Chair, School of Management, UQAM, Canada	Professor
Kazuhiko Takeuchi	United Nations University Institute for Sustainability and Peace (UNU-ISP)	Vice Rector
Lena Chan	National Biodiversity Centre, National Parks Board, Singapore	Deputy Director
Norbert Müller	Erfurt University of Applied Sciences; URBIO, The Network of Urban Biodiversity & Design, Germany	Professor
Stephen Granger	Environmental Resources Management, City of Cape Town, South Africa	Manager
Thomas Elmqvist	Department of Systems Ecology and Stockholm Resilience Centre, Stockholm University, Sweden	Theme leader, urban social-ecological systems and globalization

	CBO I – Synthesis	CBO I – Scientific Foundation
Scope	Solutions and Tools	Scientific analyses and assessments
Content and language	Reviews and synthesis of existing information for policy and practice	Reviews and synthesis of existing information, as well as presentation of new original analyses and data
Organization and approx. no. of pages	Organized around 10 key messages	Four sections and 9-10 chapters,
Text produced by	Coordinating lead authors, Advisory Committee members, SCBD staff, other individual authors	Coordinating lead authors, lead authors, and contributing authors
Case studies, examples	10-15 short cases with rich illustrations focusing on practical solutions	5-6 long case studies, focusing on in-depth understanding of urban biodiversity and links to ecosystem services and governance of urban social-ecological systems
Review process	Internal (Advisory Committee) and external (Global Partnership)	Internal (coordinating lead authors) and external (wider scientific peer review)
Timeline	Final hard copy printed July 1, 2012	Published online October 2012, final hard copy published 2013
Main Editor	Ahmed Djoghlaif	Thomas Elmqvist
Managing Editor	Elizabeth Pierson	
Support – illustrations, graphics, etc.	SCBD	SCBD
Published by	CBD	Publisher

Draft content

Section 1: Urbanization - a global perspective

Chapter 1: A global outlook on urbanization and resilience, challenges and opportunities

Section II - Condition and Trends

Chapter 2: Urbanization and trends in biodiversity, ecosystems and ecosystem functions (global perspective)

Chapter 3: Patterns and trends in urban biodiversity (within city)

Chapter 4: Urban ecosystem services

Chapter 5: The 120 cities project – changes in growth, land use, biodiversity and ecosystem services

Section III – Scenarios

Chapter 6: Typologies of urbanization, effects on land use, biodiversity, ecosystem services

Chapter 7: Food and water in a future urbanized world

Section IV: Responses: Governance and institutions

Chapter 8: Urban governance of biodiversity and ecosystems

Chapter 9: Analyses of tools for urban governance of biodiversity and ecosystem services

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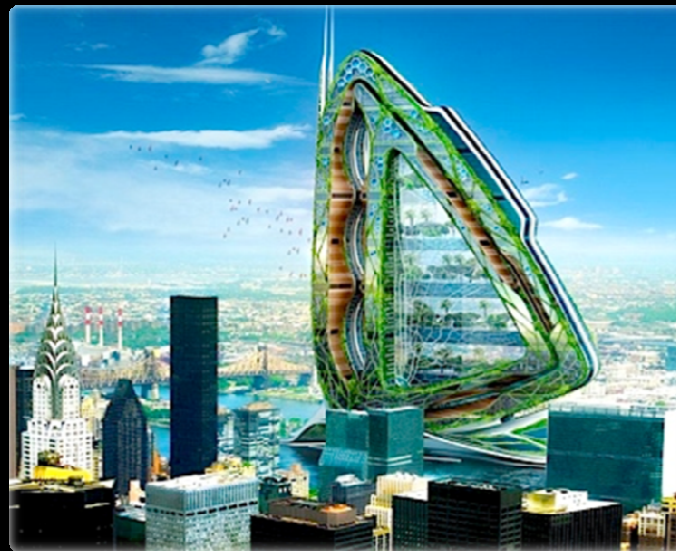
Cities Biodiversity Index

TEEB for Cities

Urban Satoyama landscapes

Section V Synthesis

Interactive visualization of the assessment on the web





United Nations Decade on Biodiversity

MEMORANDUM OF COOPERATION

between

**Secretariat of the Convention on Biological
Diversity**

and

**Stockholm University
(Stockholm Resilience Centre)**

Signing ceremony September 6 at 11.00





