

CITIES AND CLIMATE CHANGE INITIATIVE
TOOL SERIES

PLANNING FOR CLIMATE CHANGE

A STRATEGIC, VALUES-BASED APPROACH FOR URBAN PLANNERS

Toolkit

PLANNING FOR CLIMATE CHANGE: A STRATEGIC, VALUES-BASED APPROACH FOR URBAN PLANNERS - TOOLKIT

Copyright © United Nations Human Settlements Programme (UN-Habitat), 2014

HS Number: HS/002/14E

ISBN Number(Series): 978-92-1-132400-6

ISBN Number:(Volume) 978-92-1-132597-3

DISCLAIMER

The designations employed and the presentation of material in this document do not imply the expression of any opinion whatsoever on the part of the Secretariat of the United Nations concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries, or regarding its economic system or degree of development. The analysis conclusions and recommendations of this publication do not necessarily reflect the views of the United Nations Human Settlements Programme or its Governing Council.

United Nations Human Settlements Programme (UN-Habitat)

P.O. Box 30030, GPO Nairobi 00100, Kenya

Tel: 254-020-7623120 (Central Office)

Website: www.unhabitat.org

Cover Photo: iStockphoto

ACKNOWLEDGEMENTS

EcoPlan International, Inc. (www.ecoplan.ca) and Compass Resource Management (www.compassrm.com) from Vancouver, Canada developed the original version of this guide in 2011. *Planning for Climate Change – Version 1: for field testing and piloting in training* was released and extensively reviewed and tested in numerous Cities and Climate Change Initiative (CCCI) countries around the globe by UN-Habitat. Detailed testing of the tools (including versions of most of the tools that are now in this version) was undertaken in the Philippines. Global, regional and national training events were held, as well as an Expert Group Meeting in the Republic of Korea in November 2012, on which many of the revisions are based. A ten-day intensive training based on an earlier draft of the current document was held in May 2013, which brought together advanced users of climate change vulnerability assessment and planning tools. Feedback from these sessions and their participants was invaluable.

Bernhard Barth shepherded the tool through multiple rounds of review during both the field-testing and final version. A review committee assembled for production of *Planning for Climate Change – Version 1* provided invaluable feedback, resources and suggestions. UN-Habitat reviewers during this phase included Debashish Bhattacharjee, Bruno Dercon, Robert Kehew, Cecilia Njenga, Laura Petrella, Frederic Saliez and Raf Tuts. Other reviewers include Marni Cappe (President, Canadian Institute of Planners), JoAnn Carmin (Environmental Policy and Planning Department of Urban Studies and Planning, Massachusetts Institute of Technology), Charles Davies (United Nations Environment Programme), Johannes Flacke (Faculty of Geo-Information Science and Earth Observation, University of Twente), Stelios Grafakos (Institute for Housing and Urban Development Studies), Masahiko Haraguchi (World Bank), Timothy McDaniels (School of Community and Regional Planning, University of British Columbia), Rutger Perdon (ARCADIS), Scott Phillips (ARCADIS), Christine Platt (President, Commonwealth Association of Planners), Malcolm Pirnie (ARCADIS), Dory Reeves (School of Architecture and Planning, University of Auckland), Bert Smolders (ARCADIS), Rob Steijn (ARCADIS), John Taylor (Rockefeller Foundation/ Mercy Corps) and Stephen Tyler (International Institute for Sustainable Development).

Peer reviewers for the final version of *Planning for Climate Change* included Stelios Grafakos (Institute for Housing and Urban Development Studies), Robert Kehew (UN Habitat), Samuel Kernaghan (Arup) and J. Jorge Ochoa (Bond University).

Principal authors: John Ingram and Colleen Hamilton

Contributors: Bernhard Barth, Maria Adelaida Cea, Liam Fee, Julian Gonzalez, Dan Ohlson, Paul Siggers, William Trousdale and Taylor Zeeg.

Coordinator: Bernhard Barth.

Editors: Bernhard Barth, Maria Adelaida Cea, Liam Fee, Kim Koch, Lorien Nesbitt, Vicky Quinlan.

Design and layout: Trevor Coghill, EcoPlan International, Inc.

Printer: UNON, Publishing Services Section, Nairobi.
ISO 14001:2004-certified.

PLANNING FOR CLIMATE CHANGE

A STRATEGIC, VALUES-BASED APPROACH FOR URBAN PLANNERS

Toolkit



Contents

FOREWORD	v
INTRODUCTION	1
MODULE A: What is happening?	3
Tool 1-A: Framing the challenge questionnaire	4
Tool 1-B: Getting organized worksheet	5
Tool 1-C: External assistance assessment	7
Tool 2-A: Stakeholder identification worksheet	8
Tool 2-B: Stakeholder analysis matrix	10
Tool 2-C: Stakeholder “Terms of Reference” worksheet	12
Tool 3-A: Weather and climate change summary	15
Tool 3-B: Climate change observation template	17
Tool 3-C: Climate change influence diagram	18
Tool 3-D: Overview – exposed people, places, institutions and sectors	19
Tool 3-E: Hazard mapping (exposure mapping)	20
Tool 3-F: Socio-demographic sensitivity assessment	21
Tool 3-G: Sensitive places mapping	22
Tool 3-H: Community-based sensitivity mapping	23
Tool 3-I: Sensitivity thresholds	24
Tool 3-J: Sensitivity assessment summary	25
Tool 3-K: Climate threat plotting	28
Tool 3-L: General adaptive capacity assessment	29
Tool 3-M: Hazard-specific adaptive capacity assessment	31
Tool 3-N: Rapid institutional assessment questionnaire	33
Tool 3-O: Summary vulnerability rating matrix	34
Tool 3-P: Summary vulnerable population by sector	35
Tool 3-Q: Vulnerability Assessment Report table of contents	37
MODULE B: What matters most?	39
Tool 4-A: Issues identification and organization	40
Tool 4-B: Issues to objectives	41
Tool 4-C: Objectives analysis – relevance to climate change	42
Tool 4-D: Objective indicators (descriptive)	43
MODULE C: What can we do about it?	45
Tool 5-A: Option identification worksheet	46
Tool 5-B: Objectives to options worksheet	47
Tool 5-C: Organizing options worksheet	48
Tool 5-D: Screening and ranking of options table	49
Tool 6-A: Direct ranking of options	51
Tool 6-B: Technical ranking matrix	52
Tool 6-C: Objective ranking and weighting matrix	54
Tool 6-D: Weighted ranking matrix	57
Tool 7-A: Institutional governance checklist	59
Tool 7-B: Action plan worksheet	60
Tool 7-C: Climate Change Action Plan – table of contents	61
MODULE D: Are we doing it?	63
Tool 8-A: Indicator development worksheet	64
Tool 8-B: Monitoring framework worksheet	66
Tool 8-C: Evaluating actions against objectives worksheet	68
Tool 8-D: Evaluation questions	70



A section of Port-Au-Prince, Haiti.

© UN-Habitat/Julius Mwelu

Foreword



Cities and towns in developing countries face numerous challenges, including large proportions of people living in slums; expansion and dominance of the informal sector; inadequate basic services, especially water, sanitation and energy; unplanned peri-urban expansion; social and political conflict over land resources; high levels of vulnerability to natural disasters; and poor mobility systems. Two of the most severe challenges of our time, rapid urbanization and climate change, collectively aggravate these pre-existing challenges in a number of ways.

First, no city can be on a long-term path to more sustainable development without first addressing climate change. Without taking the impacts of climate change into consideration, today's development gains may be wiped out tomorrow.

Second, the ways our cities are planned and operate - as well as the lifestyles of people living in them - are major contributors to the greenhouse gas emissions that cause climate change. The dependency on fossil fuel for transport and electricity for heating, cooling, lighting, and other day-to-day activities increases in tandem with the growth of sprawling cities.

Third, urban growth will increasingly be driven by climate change induced rural-urban migration.

Fourth, rapid urbanization manifests itself in growing slum populations, increasing informality of tenure, and demand for housing and basic services, and creates pressure on land and ecosystems. Often, urban expansion takes place on sites that are most vulnerable to climate change related hazards.

Planning for Climate Change: A Strategic Values-based Approach for Urban Planners was developed for city planners and other professionals to better understand, assess and take action on climate change at the local level. Targeting the needs of cities in low and middle-income countries where the challenges of planning for climate change are particularly high, the guide offers a strategic, values-based planning framework.

I would like to thank EcoPlan International and Compass Resource Management from Vancouver, Canada, for developing the original version of this guide in 2010, with input from an extensive peer review group. My gratitude as well to the Cities and Climate Change Initiative (CCCI) which tested the guide in numerous cities participating in around the world.

Based on its robust methodology and its flexible approach, I sincerely hope that this guide will contribute to better urban planning and ultimately to more economically vibrant, inclusive and resilient cities around the world.

A handwritten signature in black ink, reading "Joan Clos". The signature is fluid and cursive, with a long horizontal stroke at the bottom.

Dr. Joan Clos

Under-Secretary-General and Executive Director,
United Nations Human Settlements Programme
(UN-Habitat)



云报告
https://www.yunbaogao.cn

预览已结束，完整报告链接和二维码如下：

https://www.yunbaogao.cn/report/index/report?reportId=5_18629

