



# Tackling Global Challenges Through Triangular Cooperation

**Achieving Sustainable Development and  
Eradicating Poverty Through the Green Economy**

**Japan International Cooperation Agency Research Institute  
(JICA-RI)**

in collaboration with  
The United Nations Office for South-South Cooperation (UNOSSC) and  
The United Nations Environment Programme (UNEP)

This page is intentionally left blank.

# **Tackling Global Challenges Through Triangular Cooperation**

**Achieving Sustainable Development and  
Eradicating Poverty Through the Green Economy**

October 2013

JICA Research Institute

in collaboration with

The United Nations Office for South-South Cooperation (UNOSSC)

and

The United Nations Environment Programme (UNEP)

Editorial Team in JICA-RI

Editors in Chief: Hiroshi Kato  
Shunichiro Honda

Managing Editor: Yasuhiko Sato

Editors: Yukiko Aida  
Jun Kawaguchi  
Mihoko Sakai  
Yukimi Shimoda

Cover Photos:

R. Raman, AfricaRice (largest photo)

Kenya Forestry Research Institute (right line, bottom)

JICA (right line, three pictures from top)

### **JICA Research Institute**

10-5 Ichigaya Honmura-cho Shinjuku-ku Tokyo 162-8433, JAPAN

TEL: +81-3-3269-2357 FAX: +81-3-3269-2054

Copyright ©2013 Japan International Cooperation Agency Research Institute

All rights reserved.

ISBN: 978-4-86357-056-6

# Tackling Global Challenges Through Triangular Cooperation

Achieving Sustainable Development and Eradicating Poverty Through  
the Green Economy

## Contents

<b>Preface</b> .....	iii
<b>List of Contributors</b> .....	v
<b>Executive Summary</b>	
A Myth or a Reality? — Triangular Cooperation as a Vehicle toward Green Economy .....	1
<i>Hiroshi Kato</i>	
<b>Part I Concepts and Practice of Triangular Cooperation</b>	
<b>Chapter 1</b> Multilateral Support to South-South and Triangular Cooperation.....	19
<i>Yiping Zhou</i>	
<b>Chapter 2</b> Green Economy Set to Strengthen South-South and Triangular Cooperation .....	33
<i>Tomoko Nishimoto and Nick Nuttall</i>	
<b>Chapter 3</b> Catalyzing an Inclusive Green Economy through South- South and Triangular Cooperation: Lessons Learned from Three Relevant Cases.....	53
<i>Akio Hosono</i>	
<b>Chapter 4</b> Knowledge Hubs — Progress in Practice since the Bali Communiqué .....	81
<i>Tubagus A. Choesni and Nils-Sjard Schulz</i>	
<b>Chapter 5</b> The Approaches and Mechanisms of JICA's Triangular Cooperation: An Analysis .....	101
<i>Shunichiro Honda</i>	

**Part II Case Studies**

**Chapter 6** Climate Change Adaptation: Fomenting Reuse of Treated Wastewater for Agriculture and Water Protection in Bolivia — Triangular Cooperation Mexico - Bolivia - Germany..... 135  
*Jürgen Baumann*

**Chapter 7** A Process of Scaling Up: Initiatives for Energy Conservation by Turkey and Neighbouring Countries... 155  
*Yukimi Shimoda*

**Chapter 8** Enhancing the Capacity of Science Teachers in Palestine: A Case of Triangular Educational Cooperation between Jordan, Palestine and Japan..... 175  
*Jun Kawaguchi*

**Chapter 9** Small Islands, Vast Oceans and Shared Challenges: Linking Caribbean and Pacific SIDS through South–South and Triangular Cooperation..... 189  
*Karen Bernard and Lingxiao He*

**Chapter 10** J-PRISM: A Case Study of Regional Mutual Learning and Discovery towards an Effective Solid Waste Management in the Pacific.....211  
*Hikomichi Kano and Shunichiro Honda*

**Chapter 11** Promoting Reciprocal Learning in the South: A Case Study of South–South Cooperation between Benin, Bhutan and Costa Rica..... 233  
*Nira Gautam, Mary Luz Moreno, Marianella Feoli and Carolina Reyes*

**Chapter 12** Practical Use of Triangular Cooperation as Part of the Capacity Development Process to Strengthen a Leader Country on Biodiversity Conservation in a Region: A Case of the BBEC Programme in Sabah, Malaysia..... 249  
*Motohiro Hasegawa*

**Index** ..... 269

## Preface

South-South cooperation (SSC) and triangular cooperation (TrC) are often discussed together, as both of them encourage cooperation among developing countries. The only difference is that TrC involves a Northern partner, while SSC does not. These two types of cooperation are continuing to evolve, however, so that the distinction between the two is blurring. For example, there are a number of SSC projects already in place that have a “triangular” structure involving three or more actors, and some TrC projects in which countries in the South are helping one another without much direct involvement from the North. And if we look at the world more broadly, the traditional dichotomy of the “North” and the “South” will become increasingly pointless in the coming decades. Given these changes, it is highly possible that, pretty soon, we will no longer be discussing SSC and TrC separately.

However, we are not there yet. SSC must be promoted further to include more actors beyond the emerging middle-income countries. TrC, too, is still quite underdeveloped, with a relatively small number of active partners—even among the DAC member countries—engaged in the movement. To encourage both SSC and TrC, much remains to be done.

It was with this in mind, and especially the need to engage more partners in TrC, that this volume has been compiled. It explores the role that TrC can play in international development and addresses the actions and considerations necessary for implementing TrC projects. I hope that this volume will add to the discussions on these subjects at various fora including, particularly, the Global South-South Development Expo (GSSD Expo) 2013 in Nairobi, Kenya.

Initiated by the JICA Research Institute (JICA-RI) as part of its continuous inquiry into SSC and TrC\*, this volume is an outcome of a

---

\*The current volume is the JICA-RI's second publication of its work on SSC and TrC, following the 2012 publication entitled “Scaling Up South-South and Triangular Cooperation.”

joint work of an international team of experts working on SSC and TrC. This project has been made possible by tremendous support of its collaborators and contributors. My thanks go first to Mr. Yiping Zhou of the United Nations Office for South-South Cooperation, and to Ms. Tomoko Nishimoto of the United Nations Environment Programme, who not only supported the project generally but also contributed a chapter of his/her own. I am also appreciative to all the contributors, who, despite the severe time constraints, kindly shared their rich experiences and insightful views.

Finally, I would like to add that the views and opinions expressed in the chapters do not necessarily represent the official views or positions of the organizations the authors work for or are affiliated with.

Tokyo, October 2013

Hiroshi Kato

Vice President, Japan International Cooperation Agency (JICA) and  
Director, JICA Research Institute



## List of Contributors

### Executive Summary

Hiroshi Kato Director, JICA Research Institute

### Part I

Tubagen A. Choesni Director for International Development Cooperation, National Development Planning Agency, the Republic of Indonesia (BAPPENAS)

Shunichiro Honda Research Fellow, JICA Research Institute

Akio Hosono Senior Research Advisor, JICA Research Institute

Tomoko Nishimoto Director and Special Adviser to the Executive Director on South-South Cooperation, United Nations Environment Programme

Nick Nuttall Director of Communications and Public Information, United Nations Environment Programme

Nils-Sjard Schulz Policy Advisor at MultiPolar (on behalf of the World Bank)

Yiping Zhou Director, United Nations Office for South-South Cooperation

### Part II

Jürgen Baumann Project Coordinator, CONAGUA-GIZ, Comisión Nacional del Agua

Karen Bernard Programme Specialist, United Nations Development Programme Pacific Centre

Marianella Feoli General Manager, Fundecooperación para el Desarrollo Sostenible

Nira Gautam Former Intern, Fundecooperación para el Desarrollo Sostenible

Motohiro Hasegawa Senior Advisor, JICA

Lingxiao He Intern, United Nations Development Programme Pacific Centre

Shunichiro Honda Research Fellow, JICA Research Institute

Hiomichi Kano Assistant Director, JICA (Project Coordinator of J-PRISM until October 2013)

Jun Kawaguchi Research Fellow, JICA Research Institute

Mary Luz Moreno Researcher, International Centre of Economic Policy for Sustainable Development (CINPE), Costa Rica

Carolina Reyes Project Officer, Fundecooperación para el Desarrollo Sostenible

Yukimi Shimoda Research Fellow, JICA Research Institute