

Introduction of MRV Guidebooks: One Hundred Questions & Answers about MRV in Developing Countries (IGES version) & MRV Guidebook for Policy Makers (IGES-GIZ collaboration version)

Takako Ono

Climate and Energy Area,

Institute for Global Environment Strategies (IGES)

Outline of this presentation

- Overview of MRV Guidebook Project
- Explanation of the MRV Guidebooks
 - Structure
 - Characteristics
 - Sample of Question and Answer
- Schedule in 2014 and beyond for improving the MRV Guidebook
- Questions for further utilization and improvement of the MRV Guidebook

Overview of MRV Guidebook Project

Objectives:

- ◆ To summarize various existing MRV schemes for easily overviewing the MRV schemes,
- ◆ To distribute the MRV Guidebook for enhancing understanding of MRV issues.

Target readers:

- ◆ Practitioners of MRV and policy makers in developing countries, donor agencies, research organisations, etc.

Authors:

- ◆ Experts on GHG inventory, National Communications, CDM and other MRV schemes.

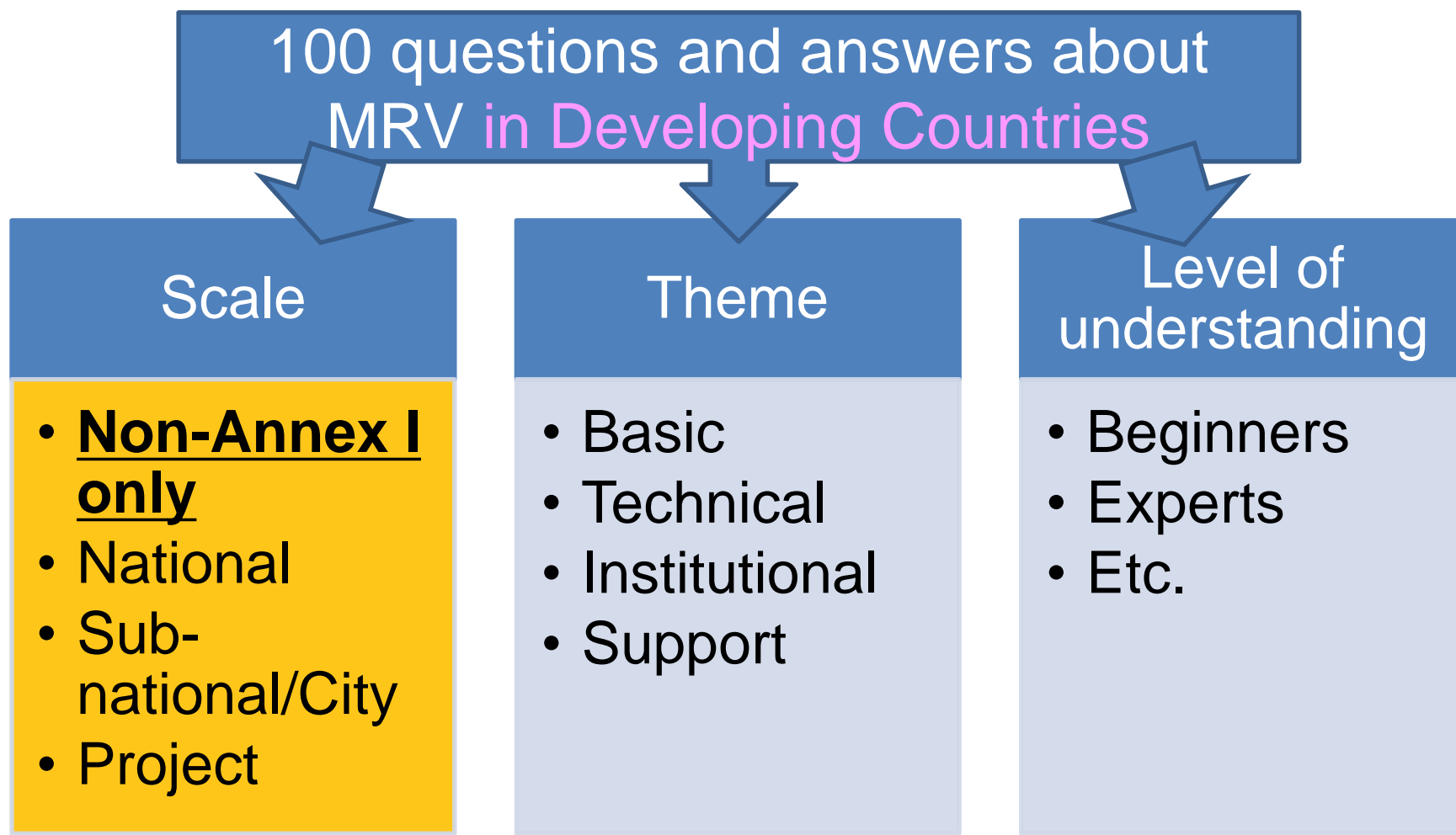
Overview of MRV Guidebook Project

Uniqueness and Added-Value

- ◆ Explaining MRV issues in plain language,
- ◆ Covering various technical information in a coherent format,
- ◆ Including experiences and actual cases in the Asian countries,
- ◆ Opening access for participation in the preparation process of the MRV Guidebook.

Structure of MRV Guidebook Project

Composition of MRV Guidebook (IGES Version)



Structure of MRV Guidebook Project

Composition of MRV Guidebook (GIZ-IGES Collaboration Version)

MRV Guidebook for Policy Maker



```
graph TD; A[MRV Guidebook for Policy Maker] --> B[Scale]; A --> C[Theme]; A --> D[Level of understanding];
```

Scale

- Annex I and Non-Annex I
- National level only

Theme

- Basic
- Technical
- Institutional
- Support

Level of understanding

- Beginners
- Experts
- Etc.

Table of Contents (IGES Version)

Abbrevia

1. Intro

2. Our A

3. MRV

4. Questions and Answers

4.1. National Communications (non-Annex I) 17

4.2. Biennial Update Reports 30

4.3. National Greenhouse Gas Inventories (non-Annex I) 42

4.4. City Greenhouse Gas Inventories 59

4.5. Clean Development Mechanism 76

4.6. Joint Crediting Mechanism 92

5. Good Practices – Lessons from Asia 106

6. Annexes

References 123

Index 129

Extend to other MRV schemes:

◆ **GHG Protocol (City-level GHG inventories)**

(in cooperation with World Resource Institute)

◆ **Joint Crediting Mechanism** (in cooperation with
Global Environment Center Foundation)

Table of Contents

(IGES-GIZ Collaboration Version)

Abbreviations

1. Introduction

2. Our Approach

3. MRV at a Glance

4. Questions and Answers

4.1. National Communications: Annex I Parties

4.2. Biennial Reports by Developed Country Parties

4.3. National Greenhouse Gas Inventories: Annex I Parties

4.4. National Communications: Non-Annex I Parties

4.5. Biennial Update Reports by Developing Country Parties

Parties

4.6. National Greenhouse Gas Inventories: Non-Annex I Parties

Parties

6. Annexes

References

Q&A Index

◆ **Extend to Annex I and non-Annex I Parties**
◆ **Focus on National-level MRV**

9

20

21

34

43

59

73

87

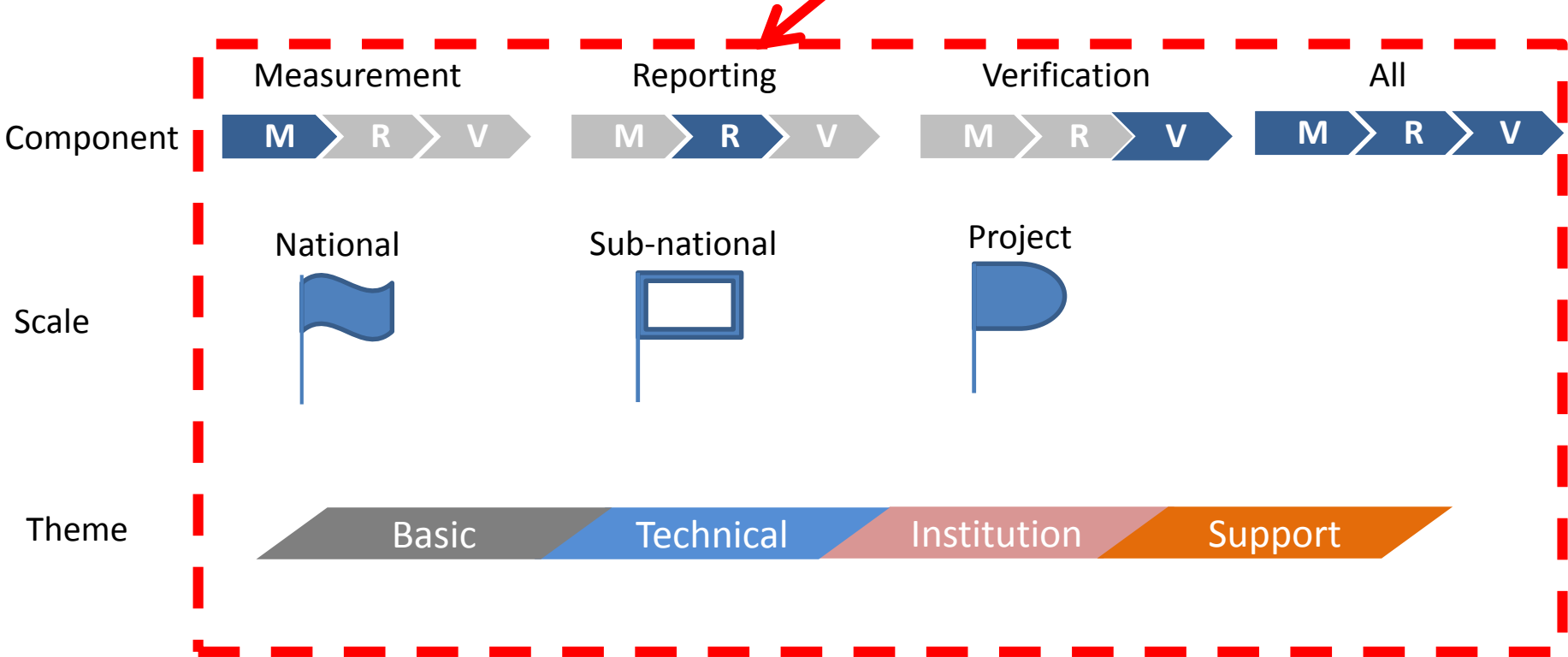
104

108

Guide to One Hundred Questions

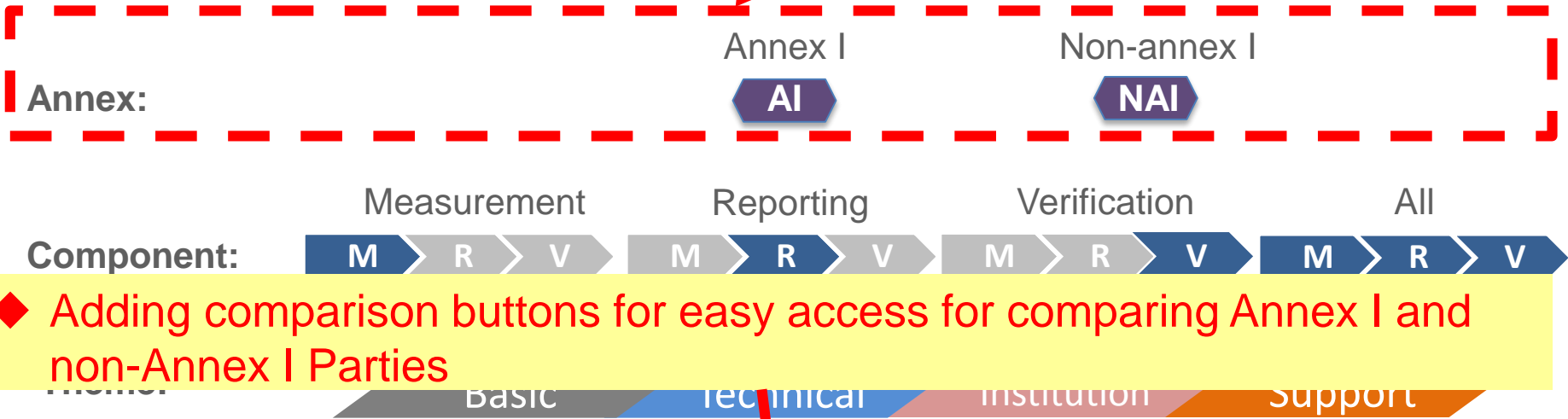
- ◆ Visualizing MRV at various levels
- ◆ Aiming at encyclopedia of MRV

The subsequent sections present sample questions and answers on various scales. The following icons can guide: which component of M, R, and V it refers to; which scale it is; and which theme it is related with.



Guide to Q&A

The following sections present questions and answers on MRV schemes. The icons below serve as a guide with regards to which group of countries the slide applies to, which component part of MRV it refers to and the theme that it covers. **◆ Indicating Annex I or non-Annex I for comparison** When clicked, will automatically link the reader to the slide covering the same question but for the other group of countries.



◆ Adding comparison buttons for easy access for comparing Annex I and non-Annex I Parties



National Greenhouse Gas Inventories (non-

	M	R	V
Why is it necessary?	To estimate GHG emissions and removal at the national level.	To report estimates on GHG emissions and removals as a part of NCs and BURs.	To increase the transparency of mitigation actions and their effects.
What is it about?	National GHG emission/removal estimation database prepared based on UNFCCC Reporting Guidelines and IPCC Guidelines.	Chapters on the national GHG inventories in the NCs and BURs.	ICA
How to do it?	Determined by each non-Annex I country based on Guidelines for the preparation of national communications from Parties not included in Annex I to the Convention (Decision 17/CP.8).		To be determined based on Annex IV of UNFCCC biennial update reporting guidelines for Parties not
Who will do it?	Depends on each non-Annex I country particular decision for the institution		(17).
Any standard or guidelines for it?	<ul style="list-style-type: none"> ✓ Guidelines for the preparation of national communications from Parties not included in Annex I to the Convention (Decision 17/CP.8) ✓ UNFCCC biennial update reporting guidelines for Parties not included in Annex I to the Convention (Decision 2/CP.17) ✓ Revised IPCC Guidelines ✓ GPG(2000) ✓ GPG-LULUCF ✓ 2006 IPCC Guidelines 	<ul style="list-style-type: none"> ✓ 2006 IPCC Guidelines 	<ul style="list-style-type: none"> reporting included in Decision

◆ Make it easy to distinguish M-R-V issues,
 ◆ Organize information with the same format for easy comparison among various MRV tools.

Compare/Contrast AI GHG Inventories with NAI GHG Inventories

	Inventories by Annex I		Inventories by Non-annex I
Why necessary?	To estimate and report on GHG emissions and removals. To enhance transparency for better national policy making.	vs.	To estimate and report on GHG emissions and removals. To enhance transparency for better national policy making.
Contents	National GHG emission/removal estimation based on UNFCCC Reporting Guidelines and IPCC Guidelines	vs.	National GHG emission/removal estimation prepared based on UNFCCC Reporting Guidelines and IPCC Guidelines
Frequency	Annually	vs.	Every 4 years as part of NCs and 2 years as part of BURs
Guidelines for preparation	Guidelines for the preparation of national communications by Parties included in Annex I to the Convention, Part I: UNFCCC reporting guidelines on annual inv	vs.	Guidelines for the preparation of national communications from Parties not included in Annex I to the Convention
Who prepares?	Depends on each Annex I country's circumstances		
Inventory review process	Annual reviews of individual inven each Annex I Party		
Guidelines for review	Guidelines for the technical review greenhouse gas inventories from Parties included in AI of the Convention and revisions		
Who reviews?	Expert Review Team appointed for review		

◆ Make it easy to compare differences between Annex I and non-Annex I Parties,
◆ Organize information with the same format for easy comparison among various MRV tools.

Q68: What is a national GHG inventory?

[Compare to AI](#)

A: A national GHG inventory is an inventory which provides information on national-level emissions and removals of GHGs, which is one of the fundamental pieces of information for a country to develop and monitor policies and measures on mitigation of climate change.

In detail

- ✓ Non-Annex I Parties shall submit their national GHG inventories to the COP under the UNFCCC as a part of their NCs and BURs.
- ✓ Basic information on GHG emissions and removals provided by the national GHG inventory are:
 - National total GHG emissions and removals due to anthropogenic causes.
- ✓ In addition, non-Annex I Parties are encouraged to submit the following information:
 - Methodologies for how to estimate the emissions and removals,
 - Procedures and arrangements undertaken to collect and archive data for the preparation of national GHG inventories.

Reference:

1. UNFCCC. (2002)
2. UNFCCC. (2011)

Schedule in 2014 and beyond

October – Early November:

Open to the public for review
(Your comments and feedbacks are welcome!)

2015~:

Further improvement and update of information

December:

Revised version for COP20

August - September:

- Revise the previous version and add information on MRV,
- Make translation versions in Indonesian and Vietnamese.

Questions for further utilization and improvement of the MRV Guidebook

- What kind of utilization of this guidebook is possible?
 - To utilize it a textbook on MRV in the regional training course on MRV?
 - To use it as a reference for policy maker to understand MRV issues?
- In order to enhance the utilization of the guidebook, what kind of contents should be added in it?

Thank you!

Takako Ono
ono@iges.or.jp