



River Basin Management Cycle Training Series

Training Module 3 - Review of Group Exercises

August/September 2020



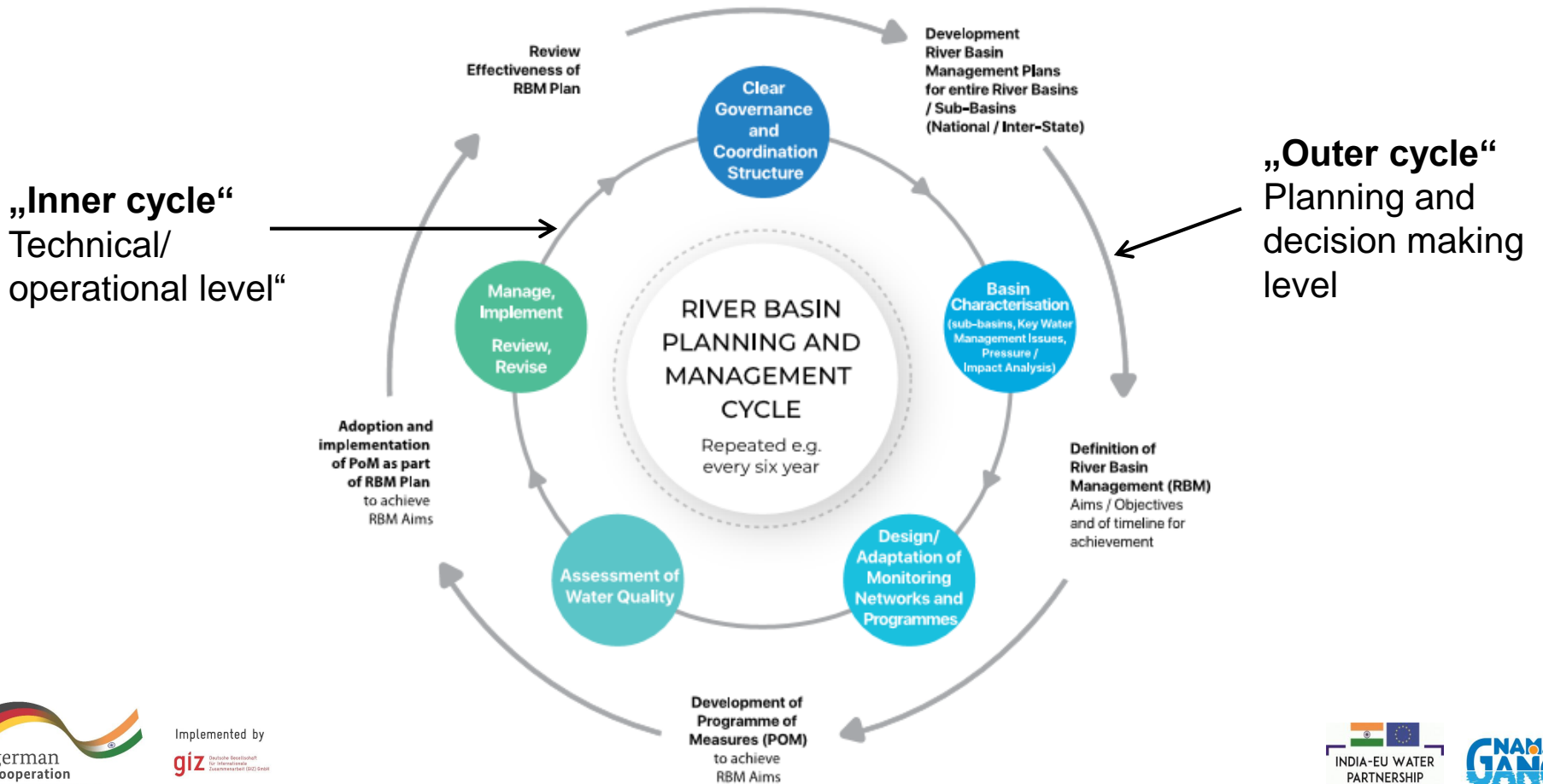
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Outline

Unit	Topic
1	Introduction to River Basin Management
2	Clear Governance and Coordination Structure
	<i>Governance (legal aspects and framework)</i>
	<i>Basin Coordination Structures (basin institutions and stakeholder engagement)</i>
3	Basin Characterisation
	<i>DPSIR Assessment</i>
4	Determining Basin Vision and Objectives
5	Design/ Adaptation of Monitoring Networks and Programmes
6	Assessment of Water Quality and Quantity
7	Implementation of RBM
	<i>River Basin Plans and Programme of Measures (PoM), Financing and Review of PoM</i>
8	Solutions through Exchange, Information Flow and Cooperation

The River Basin Planning and Management Cycle



1. Review of RBM Cycle Training

Problem-oriented learning

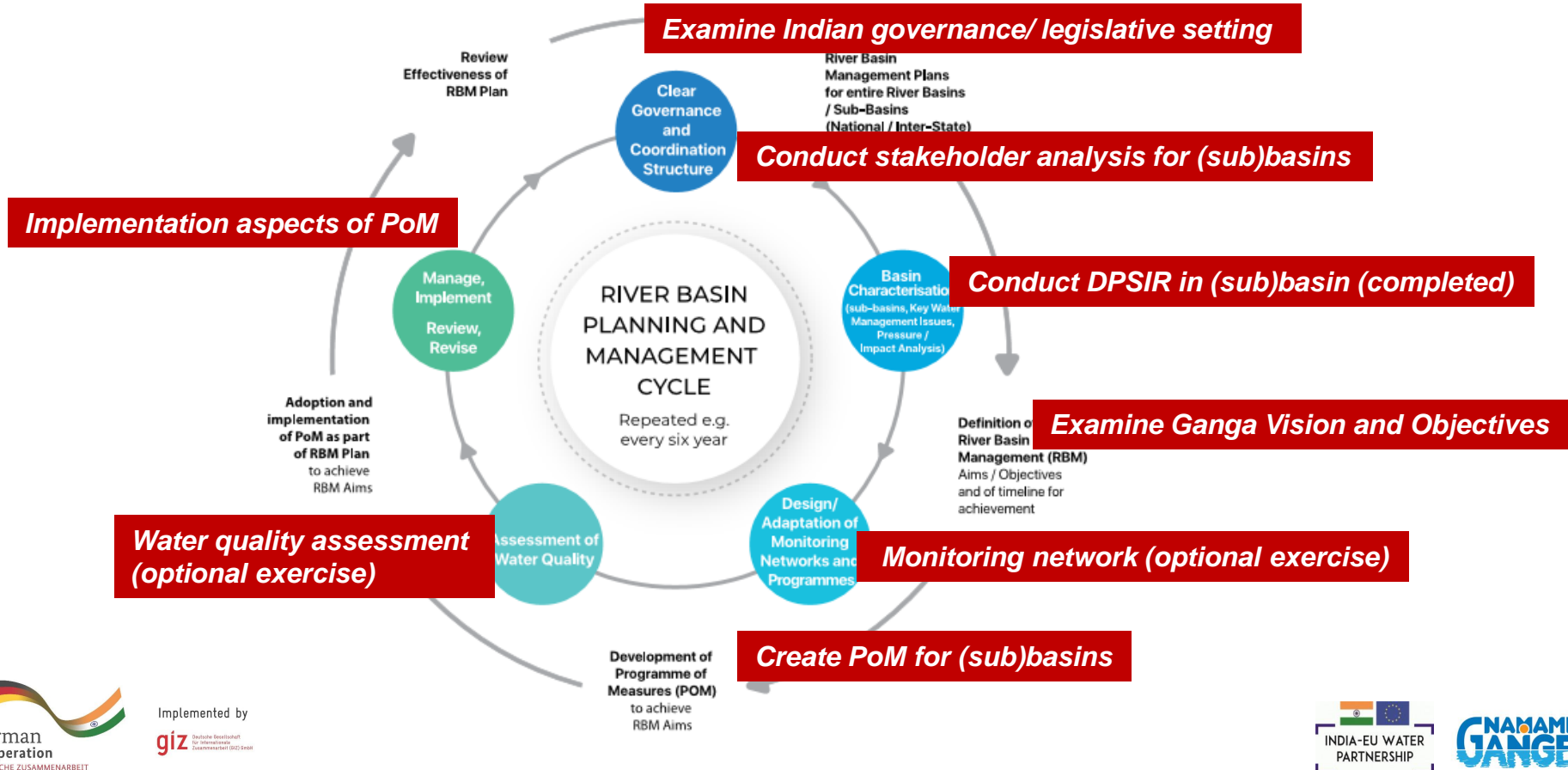


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**GNAMAMI
GANGE**

Problem-oriented learning along the RBM Cycle



1 Introduction to the RBM Cycle Training

Is Basin Management applied in India? (Which elements are you interested in?)

- **Gomti River Front development project (-)**
- **Sitapur Wetlands Management project (+)**
- **Namami Gange Project**

2 Governance and coordination structures

What does (Water) Governance mean to you? (Give India a Water Governance Rating.)

- **AA**
- **BB**
- **CC**

2 Governance and coordination structures

Will the reviewed 2018 draft RBM Bill enable RBM in India?
What other legal instruments would be required?

- AA
- BB
- CC

What are key characteristics of basin management organisations
(functions, whom to involve; set-up)? – Is NMCG an RBO?

- AA
- BB
- CC

2 Governance and coordination structures

Stakeholder analyses for the various (sub-) basins

Steering (Decision Making)	Planning	Implementing
Ministry of Finance NGC; NMCG; CWC Ministry Jal Shakti; MoHUA Ministry of Panchayati Raj Ministry of Environment, forest and Climate Change Ministry of New and Renewable Energy	NITI Aayog Ministry of Earth Science Survey of India NMCG; CWC	National Institute of Hydrology (NIH) cGanga (Centre for Ganga River Basin Management and Studies) CPCB; Ministry of HRD NMCG; CWC
SGC Forest Dept. of Water Resources (State) Dept. of Drinking Water and Sanitation (state)	State planning department Forest	Para-statal (Jol ..); State MCG State Pollution Control Board (SPCB) KVKs (state level capacity development) Panchayati Raj Dept. / rural development; Forest
District Ganga Committee		???/ Unit of departments NGOs Villages Panchayat Urban local bodies

Stakeholder analysis from Dehradun TM1



3 Basin characterisation

Driving forces, Pressures, State, Impacts, Responses (DPSIR)

Pressures analysed through group work

Dehradun

1. Encroachment
2. Untreated domestic wastewater
3. Inadequate solid waste management
4. Untreated industrial wastewater



Lucknow

1. Lack of public awareness
2. Disruption of river flow/ over-abstraction
3. Untreated domestic wastewater
4. Untreated industrial wastewater



Detailed results can be found on the e-learning platform

4 Basin Vision and Objectives

Does Vision Ganga reflect key characteristics of a basin vision?

- AA
- BB
- CC

Are the “Vision Ganga” objectives SMART?

- AA



5 Monitoring Networks and Programmes

In your sub-basin, is the monitoring programme sufficient to describe the status and monitor changes? What would you recommend to improve the programme?

- AA
- BB
- CC

6 Basin Assessment of Water Quantity and Quality

No group exercise, but extensive information available in Ganga RBM Plan (2015) and Ganga River Basin Planning Assessment Report (2018)

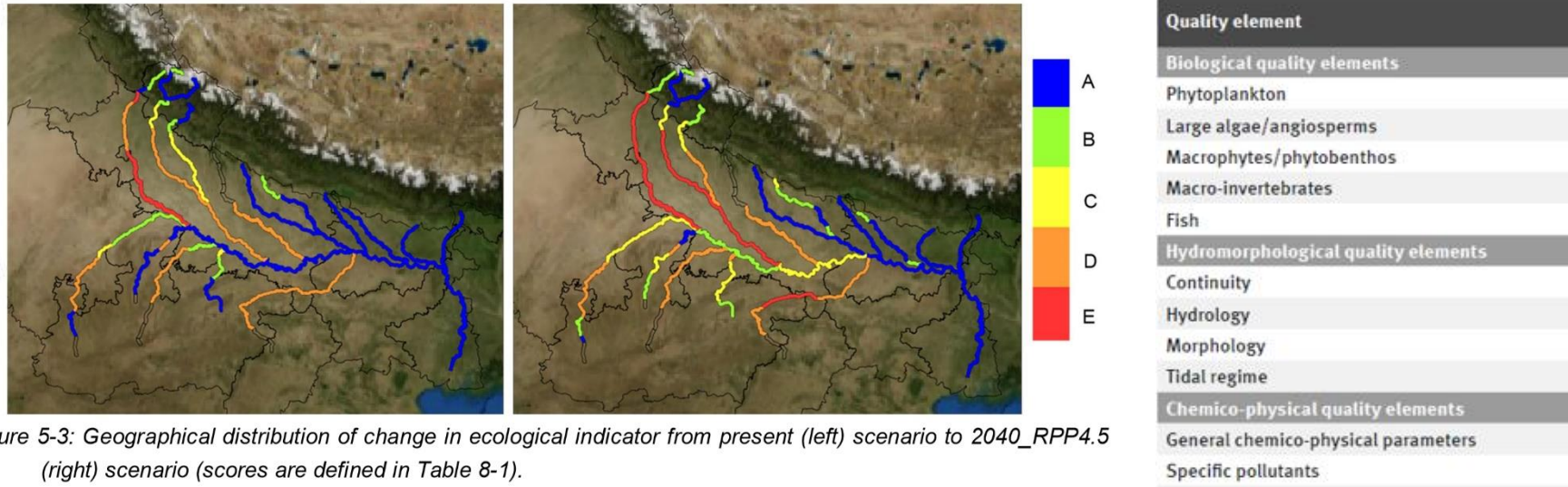


Figure 5-3: Geographical distribution of change in ecological indicator from present (left) scenario to 2040_RPP4.5 (right) scenario (scores are defined in Table 8-1).

Source: Aecom, FutureWater, Deltares (2018): Ganga River Basin Planning Assessment Report, p. 49; UBA (2017) EU WFD.

7 Implementation of RBM: Plans, PoMs, Financing

PoM for a Sub-basin of the Ganga River

Based on one of the DPSIR pressures, and related to one objectives of the Ganga RBMP, formulate a set of measures to achieve the objective.

- AA
- BB
- CC

8 Solutions through Exchange, Information Flow and Cooperation

Strengths and weaknesses of information flow in a basin/ sub-basin

	GOOD 👍	(HOW) TO BE DEVELOPED 📈
Available information		
Cooperation of institutions		
Awareness of stakeholders		

The River Basin Planning and Management Cycle

„Inner cycle“
Technical/
operational level“

„Outer cycle“
Planning and
decision making
level



Continued engagement pre and post webinar

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2. E-Learning platform - <http://78.46.247.119/>

(Temporarily hosted on AHT servers and will be transferred to the servers of training institutes.)

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