

The top banner features the WEPA logo on the left, with the text 'Water Environment Partnership in Asia' below it. The background of the banner is a blue-tinted image of water with a landscape and some foliage on the right side.

WEPA

Water Environment Partnership in Asia

FY2015 WEPA Workshop on “Industrial Wastewater Management”

Purpose and Method

25 January 2016

WEPA Secretariat

International Center for Environmental Technology Transfer (ICETT)

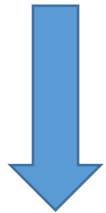
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 - 1) Group Discussion
 - 2) Summary and Presentation of Group Discussion

1. Theme of FY2015 WEPA Workshop

Focus of WEPA Activities

Phase 1



[Verification of load to water environment]

[Focus on domestic wastewater treatment]

- Promotion of domestic wastewater treatment
- Information sharing on situation of decentralized domestic wastewater treatment
- Discussion on institutional development regarding domestic wastewater management

Phase 2



[Deeper discussion on domestic wastewater management]

[Discussion on climate change and the water environment]

[Industrial Wastewater Management as a new focus]

- Collection of information on institutions regarding industrial wastewater management in partner countries

Phase 3

[Consideration of concrete measures to promote domestic wastewater treatment]

[Development of discussion on industrial wastewater management]

1. Theme of FY2015 WEPA Workshop

Discussion results in the last Workshop

- Challenges and possible countermeasures for domestic wastewater were generally shared among partner countries
- On the other hand, increasing concerns about growing and complicating influences by industrial wastewater along with economic development



- Necessity of prompt actions taking various aspects into consideration are shared among partner countries

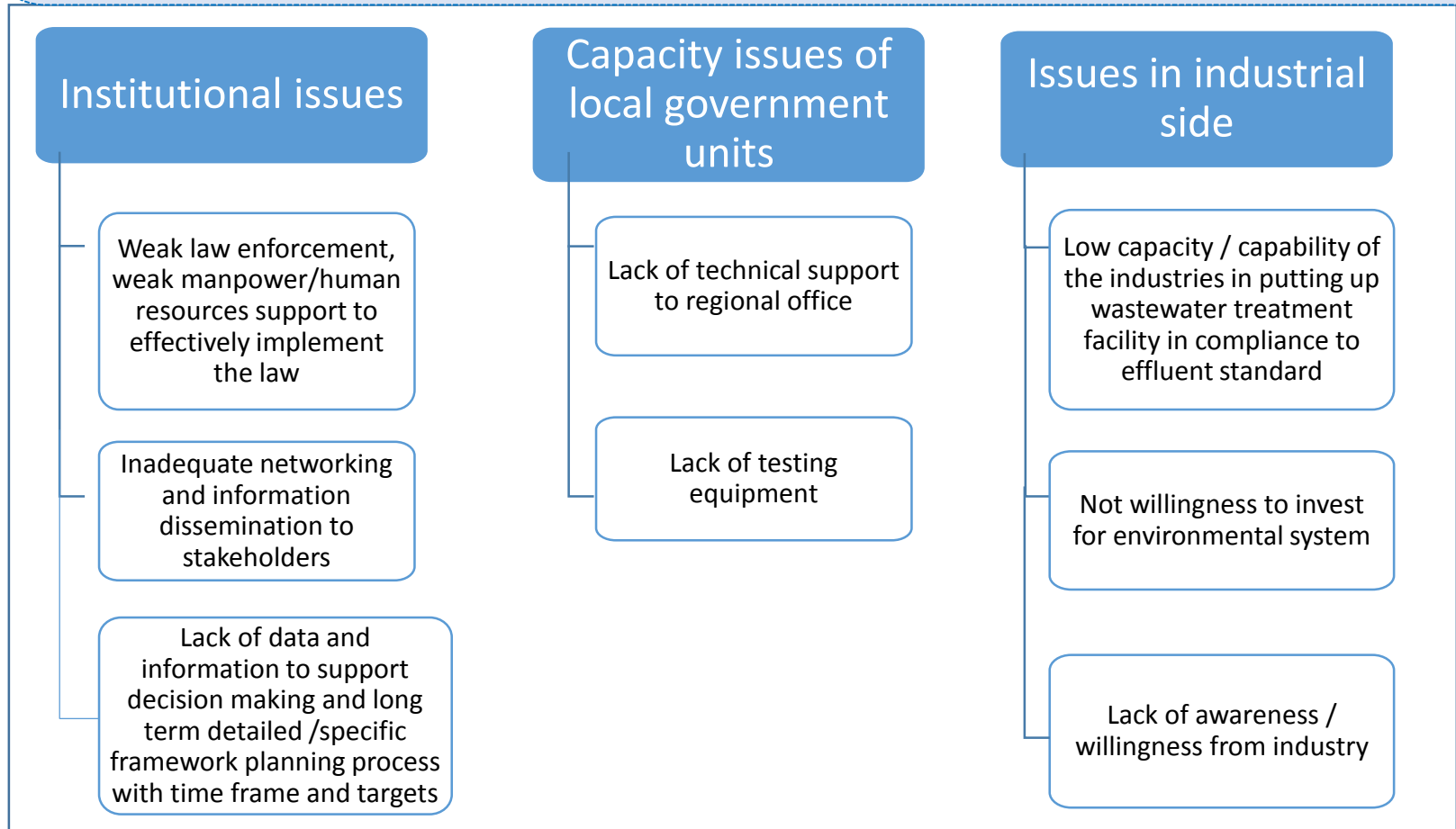


**“Industrial Wastewater Management”
as a theme of FY2015 WEPA Workshop**

1. Theme of FY2015 WEPA Workshop

Discussion in the last Workshop (FY2014)

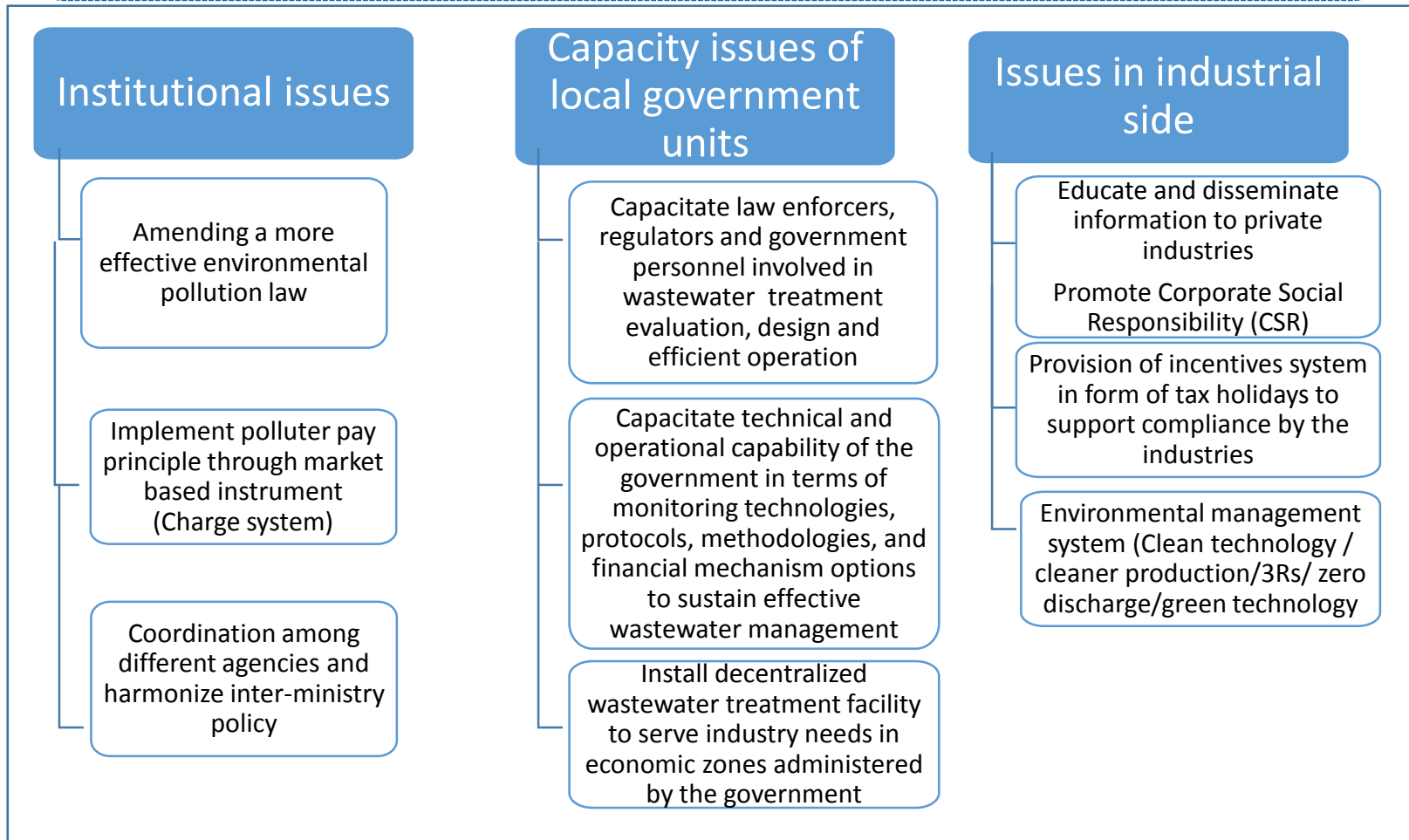
1. Identification of key implementation barriers of industrial wastewater management



1. Theme of FY2015 WEPA Workshop

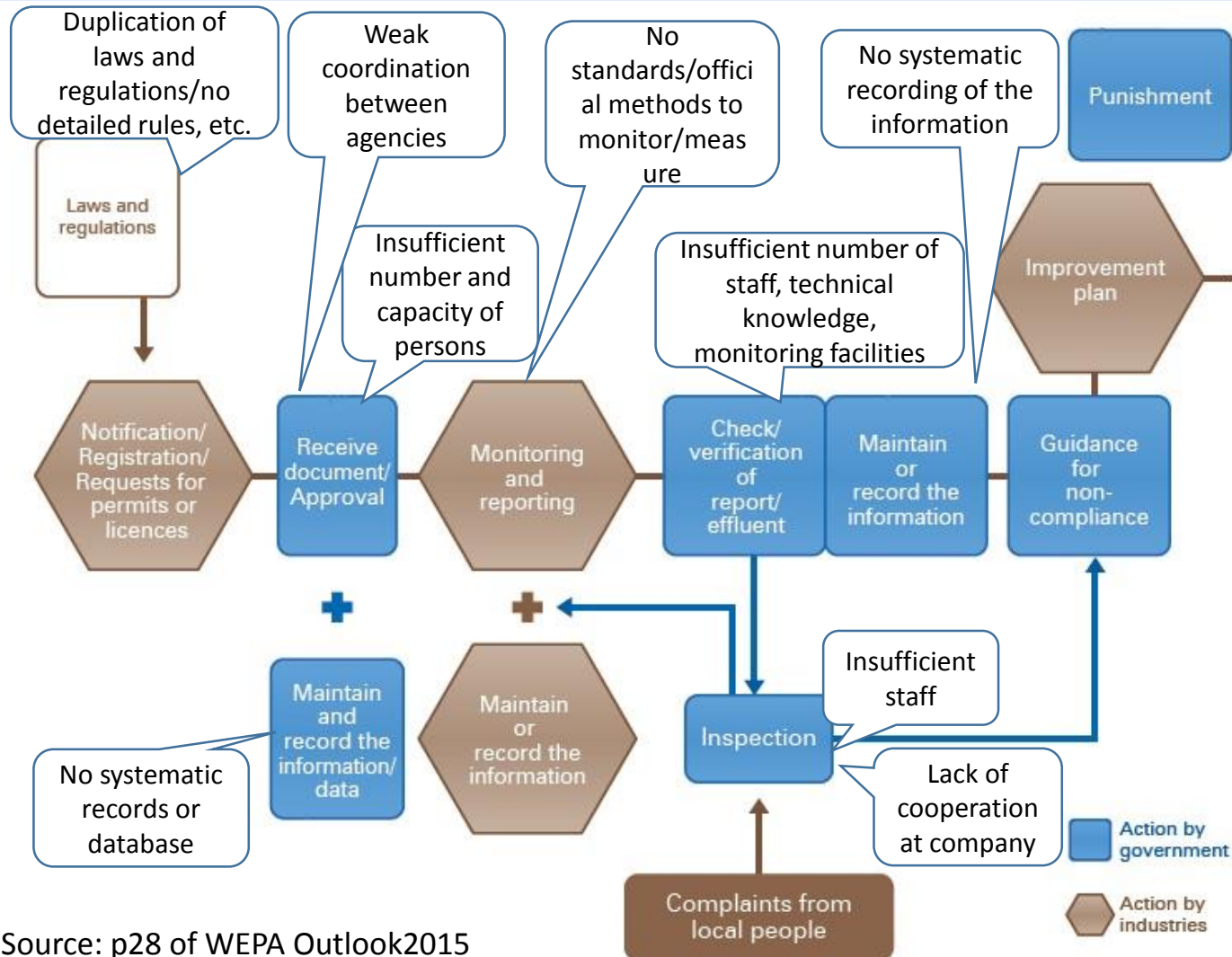
Discussion in the last Workshop (FY2014)

2. Possible measures/policy tools to remove or further address the issues



1. Theme of FY2015 WEPA Workshop

Phase 3: Development of discussion on industrial wastewater management (~FY2014)



[Common issues to WEPA countries]

- Basic laws and regulations have been developed
 - There are challenges in enforcement
- ↓
- How to promote industries' compliance?
 - How to enhance capacity of local government units?

2. Questionnaire on Industrial Wastewater Management (FY2015)

Outline of Questionnaire Survey

- Survey respondent: Focal Points of each partner country
- Questions:
 - Prioritized business types and scale in terms of industrial wastewater management
 - **Effective approaches/measures for industrial wastewater management (14 questions in total with 5-point scale)**
 - (1) Strengthening laws and regulations (more stringent effluent standard / penalty / other regulations)**
 - (2) Strengthening enforcement by local government units (LGUs) (empowerment/monitoring/on-site inspection)**
 - (3) Enhancement of support to LGUs by central government (increasing in number of staffs/capacity development/subsidies)**
 - (4) Financial support to industries**
 - (5) Raising industries' incentives (commemoration system / green production / pollution control management system / enhancing environmental technologies)**
 - Concerns and interestedness in industrial wastewater management
 - Introduction of best practice

Survey respondent (as of 5 Jan: 5 countries): Special Thanks to KH, KR, MY, NP and PH

2. Questionnaire on Industrial Wastewater Management (FY2015)

Effective measures for promotion of industrial wastewater management

Answer is marked with 5-point scale to each question.

<Very Effective: ⊙ , Effective: ○ , Unsure: △ , Not effective at all: ✕ >

(1) **Strengthening laws and regulations** : different comments, there were answers that “more stringent penalty” is effective

(2) **Strengthening enforcement by LGUs (on-the-spot inspection)**: ⊙--○

(3) **Enhancement of support to LGUs by central government (in numbers of staffs, capacity, subsidy)** : ⊙ --○

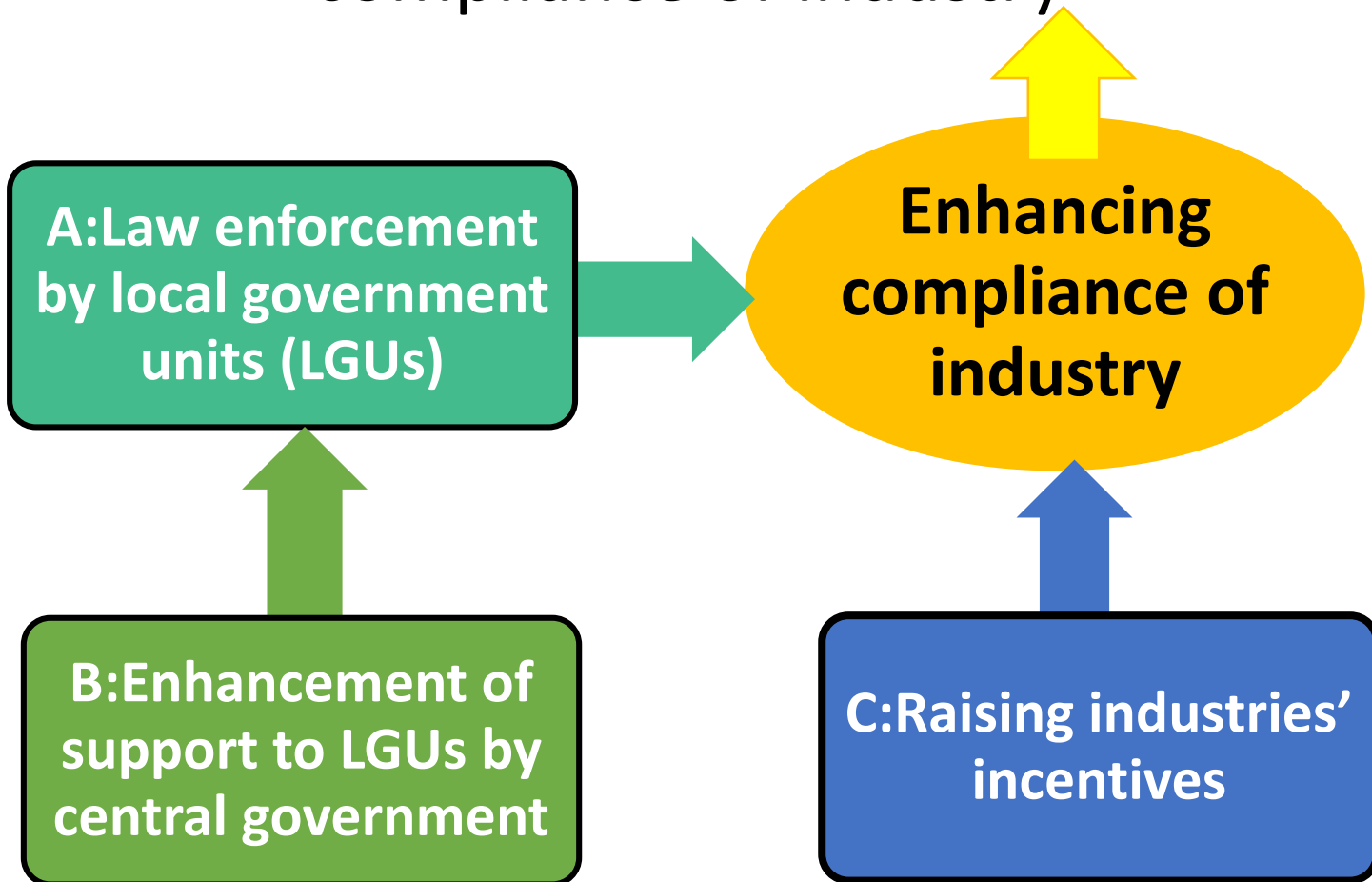
(4) **Financial support to industries**: △--○

(5) **Raising industries’ incentives**: ⊙ --○

Respondent	(1) Strengthening laws and regulations		(2) Strengthening enforcement by LGUs	(3) Enhancement of support to LGUs by central government	(4) Financial support to industries	(5) Raising industries’ incentives
	Overall	Penalty				
KH	⊙ -- ○	⊙	⊙ -- △	⊙	○	○ -- ⊙
PH (2件)	○ -- ⊙	⊙ , ○	⊙	⊙ -- ○	△ , ✕	⊙
MY	○	○	⊙	⊙	△	⊙
KR	△ -- ○	○	○ -- △	△	△	△ -- ○
NP	△ -- ✕	△	△ -- ✕	△ -- ✕	○	○

2. Questionnaire on Industrial Wastewater Management (FY2015)

Possible approaches effective to enhancing compliance of industry



3. Group Discussion on Industrial Wastewater Management

Purpose

“Industrial Wastewater Management” is to be focused from the view how to enhance the industries’ compliance and deals with 3 approaches below.

A: Law enforcement by LGUs

On-site inspection, administrative direction, etc.

B: Enhancement of support to LGUs by central government

Arrangement of detailed rules/guidelines, human resources development, etc.

C: Raising industries’ incentives

Commendation system, rating, etc.

Goals of discussion are ;

- (1) To share strategies, efforts, experiences, good effects, difficulties, etc. on policy tools/systems relating to the above each approach among WEPA partner countries
- (2) To deepen discussion on factors/conditions that function policy tools/systems of each approach more effectively

3. Group Discussion on Industrial Wastewater Management

Examples of policy tools/systems

A: Law enforcement
by LGUs

[Examples]

**On-site
inspection,
administrative
directions,
Pollution
Control
Agreement, etc.**

B: Enhancement of
support to LGUs by
central government

[Examples]

**Arrangement of
detailed rules /
guidelines,
human resources
development,
upgrading of
laboratory
infrastructure /
functions, etc.**

C: Raising
industries'
incentives

[Examples]

**Commendation
system, rating,
self-
management
systems in the
factory, etc.**

3. Group Discussion on Industrial Wastewater Management

Grouping

A: Law enforcement
by LGUs

Cambodia
China
Korea
Malaysia
Lao P.D.R.
Japan

B: Enhancement of
support to LGUs by
central government

Myanmar
Nepal
Thailand
Lao P.D.R.
Japan

C: Raising
industries'
incentives

Philippines
Sri Lanka
Vietnam
Lao P. D. R.
Japan

3. Group Discussion on Industrial Wastewater Management

Role of Facilitator

- **To facilitate and control the streamline of discussion**
- **To make a summary presentation**

Role of Clerical

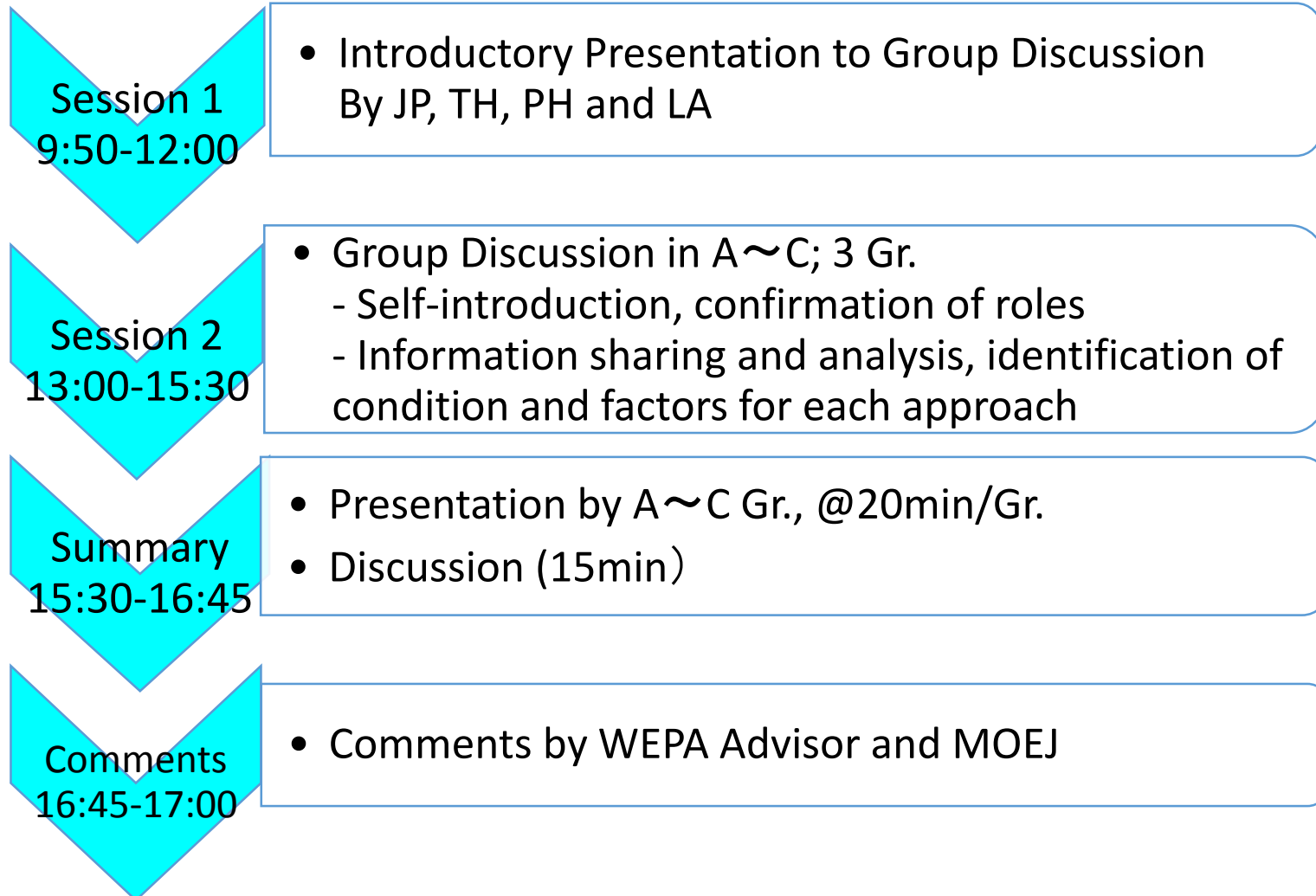
- **To prepare presentation slides with the help of facilitator and other participants**

Role of other participants

- **To actively participate in discussion**
- **To cooperation with the Clerical for preparing presentation slides**

3. Group Discussion on Industrial Wastewater Management

Procedures of Workshop



3. Group Discussion on Industrial Wastewater Management

Flow of Discussion

- Identification of introduced / implementing policy tools / systems in WEPA partner countries relating to approach A, B, and C respectively
- Identification of good effects and difficulties in the said approach

- Introduction of successful cases, good practices and / or administrative know-how on the mentioned policy tools / systems based on each country's experiences (by adding analysis)

- Identification of factors / conditions that function policy tools / systems of each approach more effectively

3. Group Discussion on Industrial Wastewater Management

Output

(1) Identification of introduced / implementing policy tools / systems in WEPA partner countries relating to each approach below and identification of good effects and difficulties in each approach

A: Law enforcement by LGUs

[Examples] On-site inspection, administrative direction, Pollution Control Agreement, etc.

B: Enhancement of support to LGUs by central government

[Examples] Arrangement of detailed rules / guidelines, human resources development, upgrading of laboratory infrastructure / functions, etc.

C: Raising industries' incentives

[Examples] Commendation system, rating, self-management systems in the factory, etc.

(2) Identification of factors / conditions that function policy tools / systems of each approach more effectively



Thank you for your attention
Let's start discussion !!