

GREEN COOPERATION OPPORTUNITIES WITH KEITI

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 **KEITI** Korea Environmental
Industry & Technology Institute

KGID
CAIRO

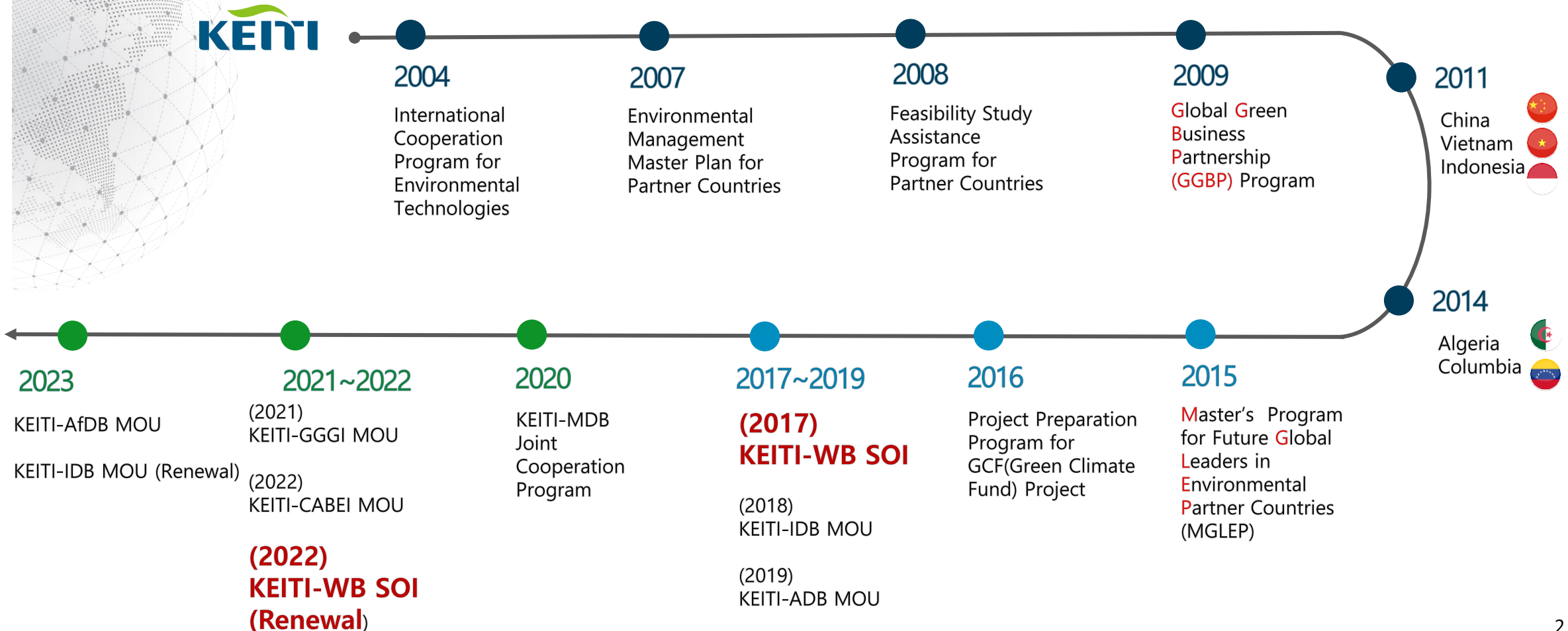
Introduction

Staff (2023)
 **671** employees

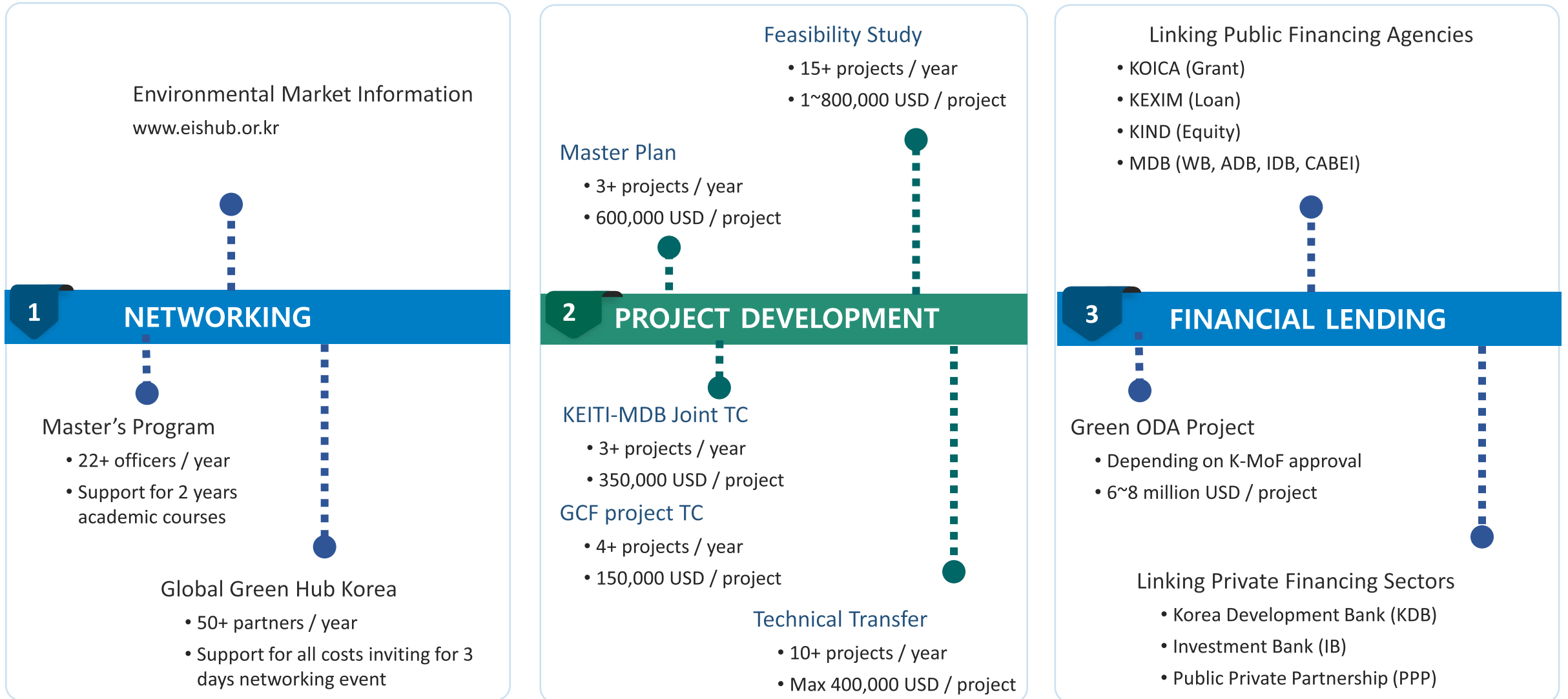


Budget (2023)
850 million USD

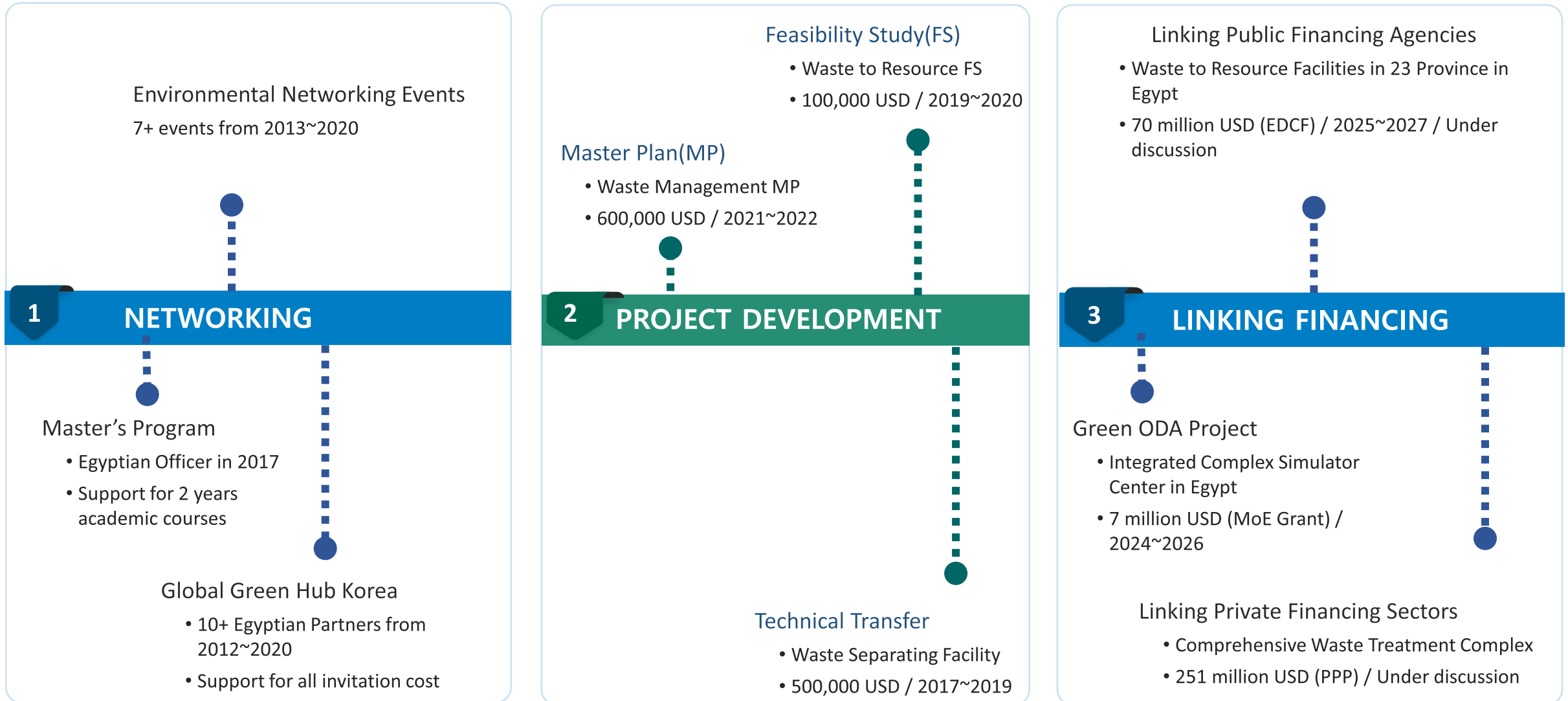
* 211 master's or doctoral level personnel, 286 environment-related certificates, and 280 environment-related majors



Green Financing Opportunities with KEITI



Green Financing Opportunities in Egypt



CASE 1 : Bilateral Cooperation

WASTE SORTING, COMPOSTING, and RDF PRODUCTION PLANT IN EGYPT

FS supported by KEITI in 2019-2020

LOCATION

Minya region & Gharbia region & Sohag region in Egypt

CAPACITY

MSW Sorting : 300 ton/day

RDF Production : 75 ton/day

Composting : 180 ton/day

CONSTRUCTION PERIOD

2 years (2021~2022)

SPONSOR Funding Source

Government-financing

TOTAL COST

8.13 Mil. USD

[NEXT STEP] Establishing the integrated complex simulator and capacity building will be promoted with ODA grant('24~'26, TBD) and 23 Material Recovery Facilities will be constructed with EDCF Loan('25~'27, TBD).



CASE 2 : Bilateral Cooperation

SUSTAINABLE LANDFILL GAS GENERATION FACILITY IN UZBEKISTAN

FS supported by KEITI in 2021-2022

LOCATION

Jizzah, Uzbekistan

CAPACITY

LFG Generation 500kW ~ 1MW (Pre-treatment facility, Gas collection facility, Power generation facility, etc.)

CONSTRUCTION PERIOD

3 years (2023~2025)

SPONSOR Funding Source

Korea Government's ODA grant

TOTAL INVESTMENT COST

6.5 Mil. USD

[NEXT STEP] Sustainable Waste Management Complex will be constructed with EDCF Loan.



How WB teams and clients collaborate with KEITI?

KEITI-MDB Joint Environmental Technical Assistance Program TA supported by KEITI

Purpose

- Support for establishing basic plans (optioneering study, pre-FS, FS) for MDB client countries

Budget

- US\$ 300,000 ~ 400,000 per project (funded by KEITI)
* MDB (linked with Korea Trust Fund) co-funded.

Activities

- Research on the current status of the relevant field of the target country (region)
- Options analysis, conceptual design, economic analysis, financial analysis, etc.
- Capacity building and knowledge sharing

Application Process

Submission of Proposals (MDB→KEITI)

- **Submit Project Concept Paper (PCP) and Endorsement Letter to KEITI (~Oct. '23)**
 - ✓ PCP must include the information about MDB's pipeline project, components of the project, timeline of project preparation/implementation, tentative project cost, environmental conditions in the client country (level/amount of pollution, etc.), any relevant studies completed for the pipeline project, and other documents
 - ✓ Before drafting a full package of PCP document, please contact KEITI to confirm that MDB's proposed activities are aligned with KEITI's interests

Approval of Proposals (KEITI→MDB)

- **Upon submission of PCPs, KEITI will select proposals for partnership in CY 23 (~Nov. '23)**
- **KEITI will inform MDB the results of selection process (Nov. '23)**

Negotiation of Work Scope (KEITI↔MDB)

- **Once proposals are selected, KEITI will negotiate detailed work scope with MDB (~ Dec. '23)**
- **After Final Terms of References (TOR) is completed, KEITI proceeds with the procurement of consultants (Jan ~ Feb. '24)**

CASE 3 : KEITI-WB Cooperation

WB PROJECT SUMMARY

Bangladesh Environmental Sustainability and Transformation (Best)



ESTIMATED PROJECT AMOUNT | US\$ 250 million

STAGE OF THE PROJECT CYCLE | PROJECT PREPARATION STAGE

PROJECT OBJECTIVE

To strengthen environmental governance and to reduce pollution discharges from key sources at selected areas of Bangladesh

PROJECT COMPONENTS

Component 1: Strengthening Environmental Governance

Component 2: Air and Water Quality Management

Component 3: Plastics and Waste Management

Component 4: Project Management



KEITI-WB JOINT TA SUMMARY

Pre-feasibility Study for Industrial Wastewater Pollution Management (2020-2021)

PROJECT BUDGET | US\$ 400,000, fully funded by KEITI

PROJECT PERIOD | Jun. 2020 ~ Aug. 2021 (14 months)

WORK SCOPE

Activity 1: General Assessment of the Industrial Wastewater Management (IWM) in Narayanganj District

Activity 2: Specific Assessment of the IWM in a selected cluster

Activity 3: Pre-Feasibility Study

Establishing of Circular Economy Through Integrated Solid Waste Management (2022)

PROJECT BUDGET | US\$ 350,000, fully funded by KEITI

PROJECT PERIOD | Mar. 2022 ~ Dec. 2022 (10 months)

WORK SCOPE

Activity 1: Pre-feasibility study to support Integrated Solid Waste Management

Activity 2: Design municipal solid waste management policy and waste segregation system

Activity 3: Capacity building for relevant experts

CASE 4 : KEITI-WB Cooperation

WB PROJECT SUMMARY

Indonesia National Urban Wastewater Management



ESTIMATED PROJECT AMOUNT | US\$ 200 million

STAGE OF THE PROJECT CYCLE | PROJECT PREPARATION STAGE

PROJECT OBJECTIVE

To increase access to safely managed sanitation through a Citywide Inclusive Sanitation (CWIS)

PROJECT COMPONENTS

Component 1: Policy Support for Wastewater Development and Sustainable Management

Component 2: Technical Assistance and Capacity Building for Local Governments and Service Providers

Component 3: Wastewater Infrastructure Development



**Short
Clip**

youtube.com/watch?v=4vM--ylr62U

KEITI-WB JOINT TA SUMMARY

Update and Review of Prefeasibility Study for Balikpapan Sanitation Project (2020-2021)

PROJECT BUDGET | US\$ 380,000 , fully funded by KEITI

PROJECT PERIOD | Dec. 2020 ~ Oct. 2021 (11 months)

WORK SCOPE

Activity 1: General assessment of current situation of city's wastewater generation and management

Activity 2: Development of the concept-level plan for the design of wastewater management infrastructure with CWIS principles

Activity 3: Review the pre-feasibility study to incorporate CWIS

Feasibility Study for the Development of Sewage Systems with CWIS in Bogor City (2021-2022)

PROJECT BUDGET | US\$ 400,000, fully funded by KEITI

PROJECT PERIOD | May. 2021 ~ June. 2022 (13 months)

WORK SCOPE

Activity 1: Assessment of general and sanitation conditions of the study area

Activity 2: Identification of CWIS-based sanitation alternatives and selection of the best suitable alternative

Activity 3: Conceptual design for selected option

How KEITI collaborate with WB teams and clients?

WB WSP South Asia KE

Bangladesh, Pakistan
Seoul / May, 2016

Korea-WB OLC Environmental Workshop

Mexico, Philippine, Brazil, Mozambique,
Malawi, Zambia, India
Seoul / June, 2016

Korea-WB Comprehensive Waste Management Technology Workshop

Philippine, Vietnam, Indonesia, Cambodia, Myanmar,
Pakistan, Lebanon, Tanzania, Cameroon, etc.
Seoul, March 2018

Korea-WB Environmental Workshop

Kazakhstan, Honduras, Bangladesh, Afghanistan
Seoul / September 2018

Multilateral Development Bank Cooperation Group Dispatch

United State of America
Washington D.C. / December, 2018

Cambodia

Solid Waste Management TA

Myanmar

Pollution Management TA

Bangladesh

Pre-FS for Industrial Wastewater
Pollution Management in Narayanganj
District

Mongolia

Pre-FS for Wastewater Treatment and
Reuse Options of Bayanzurkh District,
Ulaanbaatar

Indonesia

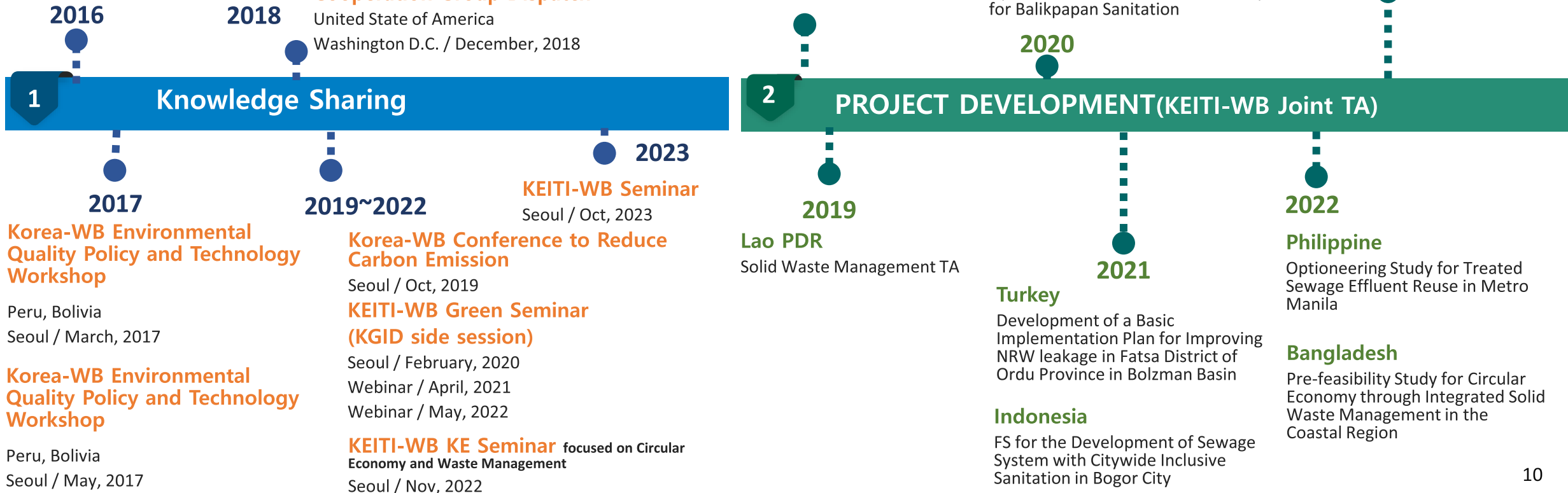
Update and Review of Pre-feasibility
for Balikpapan Sanitation

Philippine

Technical Assistance for Metro
Manila Flood Management
Project

Argentina

Pre-feasibility Study of a Waste
Management Facility



Conclusion : Why Korea?

1953

**TOTALLY
DESTROYED**

GNI (Gross National Income)

US \$67

CIVILIAN CASUALTIES

Around 1 million people

DAMAGED INDUSTRIAL BUILDINGS

44% of the total industrial buildings

**DAMAGED ELECTRICITY GENERATION
CAPACITY**

80% of the capacity

GROSS DOMESTIC PRODUCT

US \$1.35 Billion



POPULATION (2023)

Around 51.78 million people

GLOBAL ECONOMIC RANKINGS (2022)

13th largest in the world

GLOBAL INNOVATION INDEX (2022)

6th innovative country in the world

R&D EXPENDITURE (2020)

US \$ 75.4 Billion (4.81% of GDP)

GROSS DOMESTIC PRODUCT (2021)

US \$ 1.81 Trillion

2023

HIGHLY DEVELOPED

GNI (Gross National Income)

US \$ 34,768

THANK YOU FOR YOUR ATTENTION

Lee, Kyoung Che

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