











Country Presentation: CAMBODIA

*Efforts towards achievement of SDG6.3_By 2030, "Halving the Proportion of Untreated Wastewater" Should Be Accomplished.





The Inaugural Symposium of Asia Wastewater Management Partnership (AWaP)

Participants:

1. Mr. CHAO Sopheak Phibal

2. Mr. MEN Vivoitvithiea

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Deputy Director, of Department of Investment,

General Department of Budget

Ministry of Economy and Finance, MEF

Kitakyushu International Conference Center









July 25 ,2018 @ Kitakyushu, Japan

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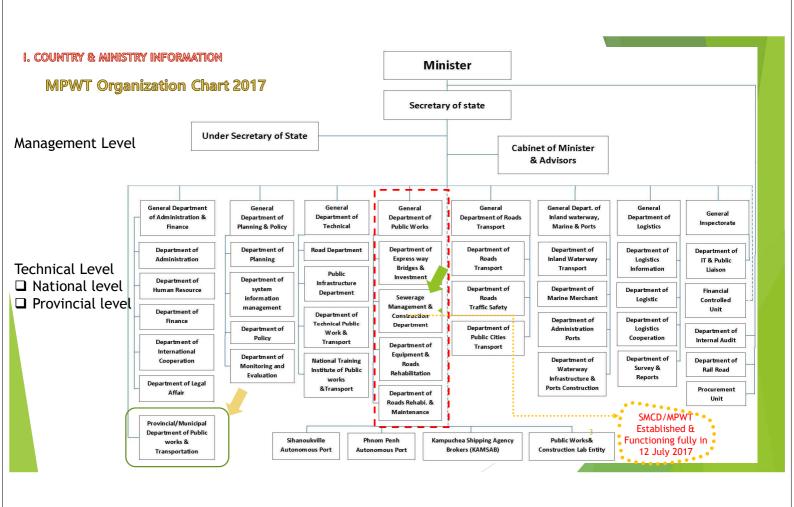
- **Current Situation**
- III. Issues and Challenges
- IV. Concepts of Wastewater

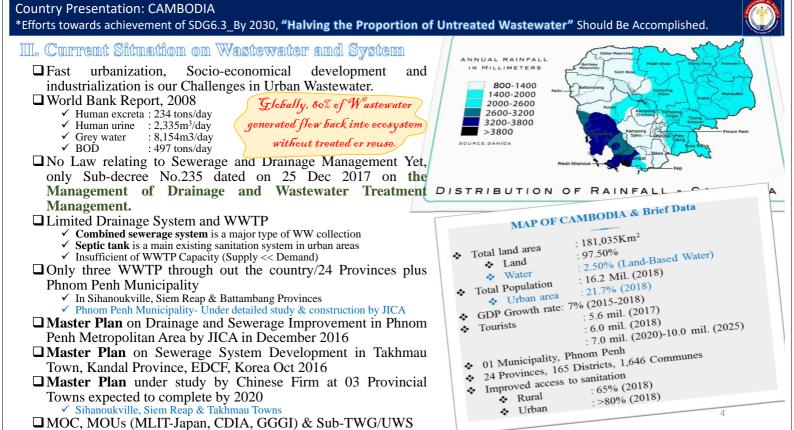
Management in Cambodia (Draft)



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III. Current Situation, WWTP (Cont.)

Existing Wastewater Treatment Plants (Lagoon System)

Description	Unit	Sihanoukville	Battambang	Siem Reap
Population (2008)	people	0.221 million	1.025 million	0.896 million
Type of WWTP	-	Oxidation Pond	Oxidation Pond	Oxidation Pond
Size of WWTP	ha	16.2	4.7	8
Capacity of WWTP	m ³ /day	5,900	450 (Planned 1,000)	8,000
Coverage service area	ha	221.5	16,836 homes and business owners	1,083 (Excluding 264ha of ADB Project)
Construction cost	USD	11.19 million	0.46 million	29.96 million
Construction Completion	-	2005	1994	2013
Sources of Fund	-	ADB Loan	EU	ADB and EDCF loan
rrent status	-	In Operating	Partially Operating	Partially Operating



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Constraint

III. Issues and **Challenges**

PROBLEM TREE ON WASTEWATER SECTOR

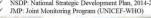
CAMBODIA: Access to Sanitation Current Status vs Targets

Sanitation	Current	Status	Targets		
Accessibility	2012	2012	2015	2018	2025
	(NSDP)	(JMP)	(CMDG)	(NSDP)	(NSDP)
1. RURAL	25%	25%	30%	65%	100%
2. URBAN	>80%	82%	74%	>80%	

Deteriorating Economic Growth Health Conditions Degradation

Inadequate Wastewater System and Services

Note: ✓ NSDP: National Strategic Development Plan, 2014-2018 Control Manifesting Program (UNICEF-WHO)





Lack of Funds for Investment and Operation

- · Low priority of wastewater and drainage system management
- · Limited or lack of Budget/ Funding (Mainly ODA) and Technologies
- Insufficient O&M Budget
- · No Private funds committed

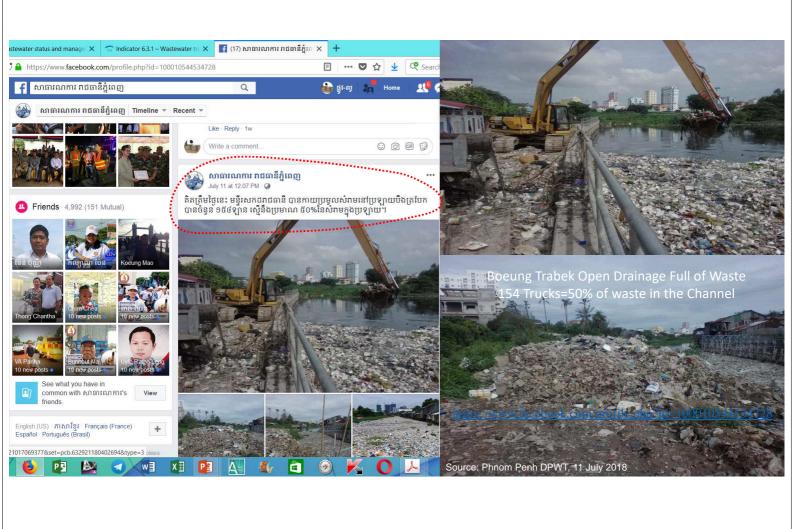
Implementation Capacity

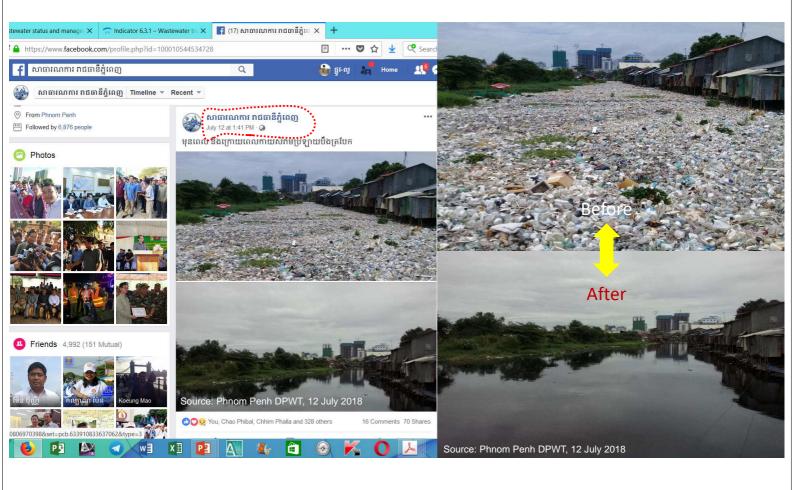
- · No Master Plan & Operational Plans
- No active planning, strategies & direction yet
- Limited inter-ministerial coordination & partnership
- Lack of monitoring reliable monitoring data

- · Lack of knowledge and information
- Limited HR and Training Skills
- No cost recovery mechanism in place
- No regulation on collection and disposal and sludge
- Lack of BIZ environment for private sector involvement







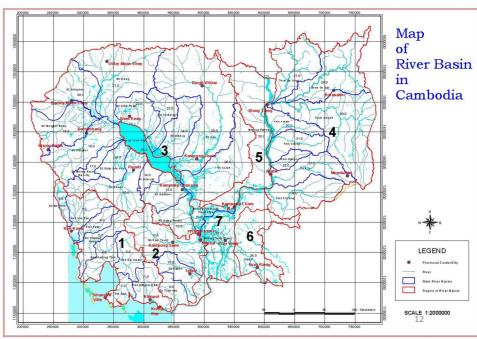






IV. Concepts of Wastewater Management in Cambodia

- Geographical Relief
 Treats to Wetland in Cambodia
- 3) The Tonle Sap Biosphere Reserve
- 4) The Coastal Zone
- 5) Development Plan
- 6) Target Plan











DELIVERABLE N°2: **FINAL REPORT**

DELIVERABLE N°3: DEBRIEFING REPORT

Consulting services for Advocacy for sanitation in Phnom Penh





DELIVERABLE N°1:

(DRAFT VERSION)

INTERMEDIARY REPORT













TOOLS to Achieve the Wastewater Management

- 1) National Strategic Development Plan, NSDP 2014-2018
 - 2) City Development Strategy, CDS
- 3) Rectangular Strategy Phase-III, the 5th Mandate of Govt, 2013-2018
- 4) Encourage PPP Scheme for Public Investment 2016-2020
- 5) Sub-decree on Sewerage System and Wastewater Treatment Plant Management
 - 6) Work Programs/Plans with DPs
 - 7) Master Plan, and Guidelines

CROSS-COOPERATION

AND PARTNERSHIP

ROLE AND FINANCIAL RESPONSIBILITIES OF PLANNING DEVELOPMENT AND MANAGEMENT OF MUNICIPAL WASTEWATER **TREATMENT**

Key **Ministries**

Ministry of Economic and Finance, MEF

Ministry of **Environment, MOE**

Ministry of **Pubic Works and** Transport, MPWT

Ministry of Interior and Municipalities, MOI

Key **Schemes**

Allocating budgets

- Environmental planning: monitoring of effluent discharged to waterways / water drains
- Involve in Master plans
- Developing scientific national policy concerning all Public Works
- Master plan.
- Involve in Master plans.

Multilaterals Involved in Sanitation, Wastewater in Cambodia



MLIT

























MEMORANDUM OF COOPERATION BETWEEN MPWT AND MLIT SIGNED ON 15 FEB 2017 IN TOKYO, Japan



MEMORANDUM OF COOPERATION

between

THE MINISTRY OF PUBLIC WORKS AND TRANSPORT OF THE KINGDOM OF CAMBODIA

THE MINISTRY OF LAND, INFRASTRUCTURE, TRANSPORT AND TOURISM

OF JAPAN

- ☐ Policy, planning, construction, operation and maintenance regarding sewerage/drainage works
- Legal and institutional system sewerage/drainage works

1- Objective

The objective of this Memorandum of Cooperation (hereinafter referred to as "this MoC") is to enhance cooperation between both sides in order to improve the quality of life and accelerate the sustainable economic growth for both countries.

2- Areas of Cooperation

The areas of the cooperation between both sides will include the following:

- (1) Policy, planning, construction, operation and maintenance regarding sewerage/drainage works.
- Legal and institutional system for sewerage/drainage works.
- Technologies and technical standards for sewerage/drainage works.
- Human resources development for implementation of sewerage/drainage (4) works.
- (5) Promoting public awareness of sewerage/drainage works.
- Promoting and supporting technical cooperation activities among cities/companies of Cambodia and Japan.

3- Methods of Cooperation

The methods of cooperation will include the following:

Signed in duplicate as a non-legally binding document at Tokyo on this 15 day of February in the year 2017 in two original texts in the English language

ON BEHALF OF

THE MINISTRY OF PUBLIC WORKS AND TRANSPORT F THE KINGDOM OF CAMBODIA

Mr. Tauch Chank

Secretary of State, Ministry of Public Works and Tansport, Kingdom of

ON BEHALF OF

THE MINISTRY OF LAND, INFRASTRUCTURE, TRANSPORT AND TOURISM OF JAPAN



Mr. Shinsuke SUEMATSU

State Minister of Land, Infrastructure, Transport and Tourism, Japan





Kingdom of Cambodia **Nation Religion King**

Royal Government of Cambodia Nº 235 ANKR.BK

SUB-DECREE

On

The Management of Drainage and Wastewater Treatment System

The Royal Government

Having seen the Constitution of the Kingdom of Cambodia

Having seen the Royal Decree No. NS/RKT/0913/903 dated 24 September 2013 on the appointment of the Royal Government of Cambodia

Having seen the Royal Decree No. NS/RKT/1213/1393 dated 21 December 2013 on the change and complement the composition of the Royal Government of Cambodia Having seen the Royal Decree No. NS/RKT/0416/368 dated 04 April 2016 on the change and complement the composition of the Royal Government of Cambodia

Having seen the Preah Reach Kram No. 02/NS/94 dated 20 July 1994, promulgation to use the Law on the Establishment and Implementation of the Council of Ministers

Having seen the Proof Basel

- √ Participate to prepare master plan for the management of drainage and WWTS
- Review and provide recommendation on the request for drainage connection, drainage, WWTS

(DPWT)

Sub-decree No.235 ANKR.BK Dated 25 Dec 2017

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ថ្ងៃទីន ៩ ក្នុង ខ្វែក្ស ឆ្នាំ១៣ ព.សង្គជ ពជធានីភ្នំពេញថ្ងៃទី ងេឌ ខែ គ្នុ គ.ស២០១



នយកសេចក្តីគោរពជម្រាបជូន បតីតេជោនាយករដ្ឋមន្ត្រី ដើម្បីចុះហត្ថលេខា

នេសដ្ឋេមន្ត្រី ដ្ឋេមន្ត្រី 🟃

ស៊ីន ចាន់ថ្មល

Chapter 2

Competence Authority

Article 5:

Ministry of Public Works and Transport is responsible for manage and enhance the technical management of the drainage and wastewater treatment system operation and duties as following:

Lead the policy-making, strategy, master plan, and drainage development plan and wastewater treatment system in Cambodia to submit to the Royal Government for consideration and approval;

Prepare technical standard on construction, management, operation and maintenance drainage and wastewater treatment system;

Lead the policy-making, strategy, master plan and drainage development plan and wastewater treatment system in Cambodia to submit to the Royal Government for consideration and Prepare technical standard on construction, management, O&M

of drainage and WWTS

(MPWT)

partners, donors, and public sectors to and wastewater treatment system;

Article12: -

រដូនវិត្ត

काछ ६

Provincial Department of Public Works and Transport in cooperation with relevant specialized units shall fulfill its role as a staff of capital, provincial, municipal, district, khan on the management of drainage and wastewater treatment system and duties as the following:

- Participate to prepare master plan for the management of drainage and wastewater treatment syste
- Provide technical consultation on proposal of development investment regarding drainage and wastewater treatment system; Review and provide recommendations on the request for drainage connection, drainage
- and wastewater treatment system services;
 Encourage on concerned law and legal documents enforcement related to the
- management of drainage and wastewater treatment system and penalize on violations; Enhance public awareness regarding environmental sanitation by mainstreaming drainage and wastewater treatment services:
- Prepare mid-term, and annual report about the current status and procedure of drainage and wastewater treatment system management.

Session 1 Presentation: The First General Meeting of Asia Wastewater Management Partnership (AWaP) Opinions on "AWaP's Work Plan"



