

National Policy Dialogue with Mongolia

Transformation of Water Services Through Public-Private Partnership (PPP) Virgilio C. Rivera Jr. Founder / Managing Consultant – WatSan Analytics Consultant - World Bank & Global Water Intelligence Former COO – Manila Water

Profile of the Philippines and Metro Manila

METRO MANILA*:

Population: 18 million GDP share: ~37%

Per Capita Income: ~\$10,000

Poverty: 2.2%



Citation: Philippine Statistics Authority World Bank Asian Development Bank PHILIPPINES*:

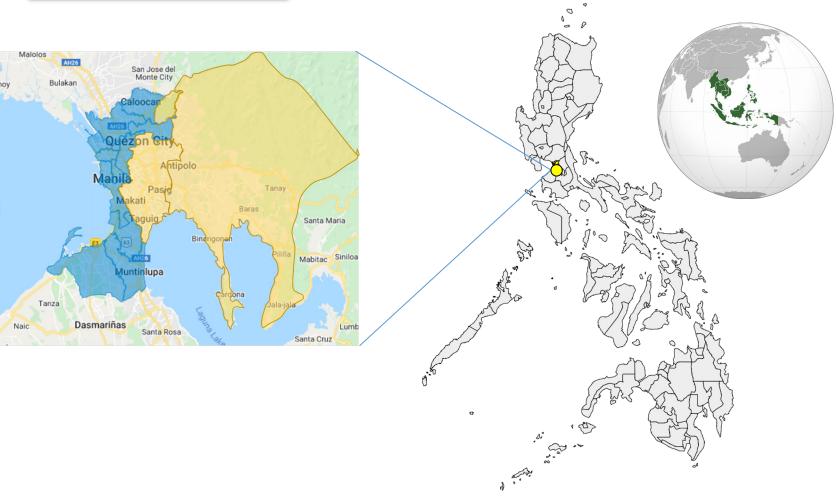
2022 Population: 115 million

2022 GDP: \$404 billion

2022 Per Capita Income: \$3,498

2021 Poverty rate: 18%





Key Messages

- Institutional and regulatory structure of the PH water market is highly fragmented in need of industry restructuring and massive investments
- Confluence of infrastructure crises, political leadership and enabling legal framework led to privatization of water services in Metro Manila
- Manila concessions led to increased investments and improved water services and expansion of water PPPs in other urban areas
- New challenges and opportunities will test dynamism of PPP
- Lessons learned and insights

Key Messages

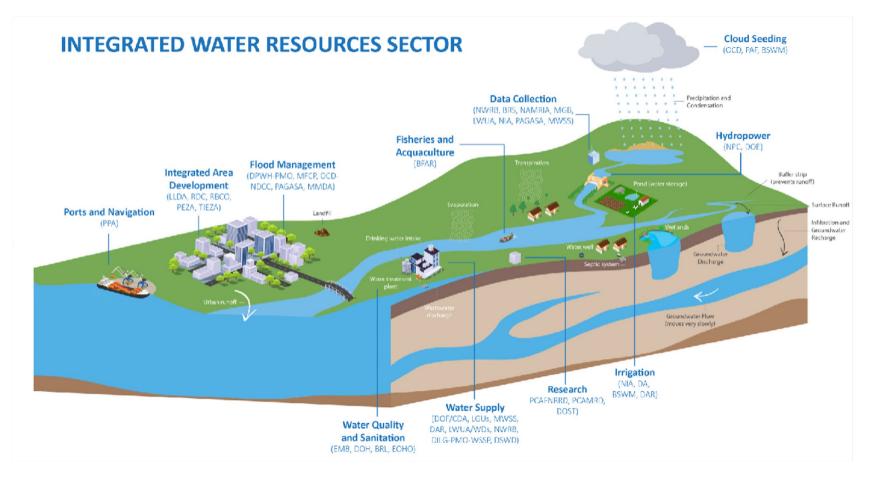
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Philippine WS&S: Situation Analysis

WSS COVERAGE IN THE PHILIPPINES (2015)



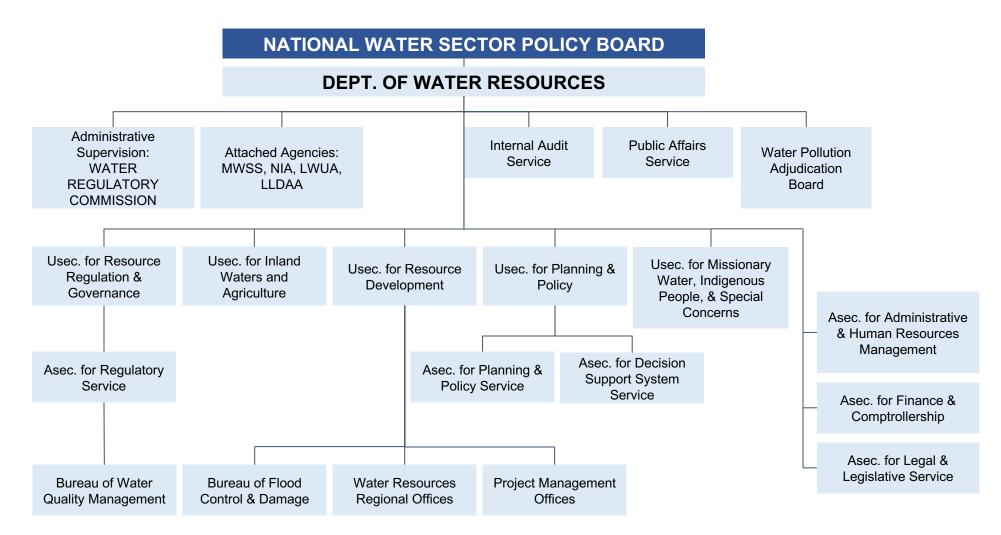
Fragmented Nature of the Philippine Water Sector



Citation: Fabella, Ma. Fiorella. (2023). Water Security for Resilient and Inclusive Growth. Philippine Economic Update.

Dynamic policy and regulatory framework is essential to the sustainability of the WSS Sector

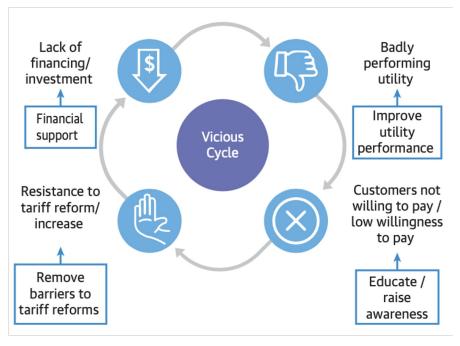
Industry restructuring to address institutional fragmentation



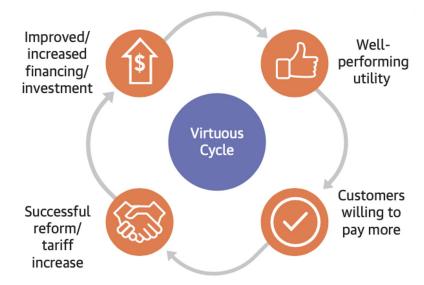
Citation: National Economic and Development Authority (2023)

Enhanced economic regulatory framework is essential to the sustainability of the WSS Sector

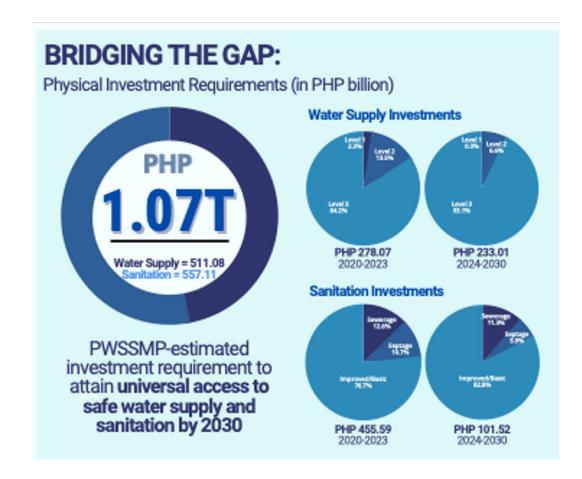
Focused and dynamic regulation to sustain investments and cost of service



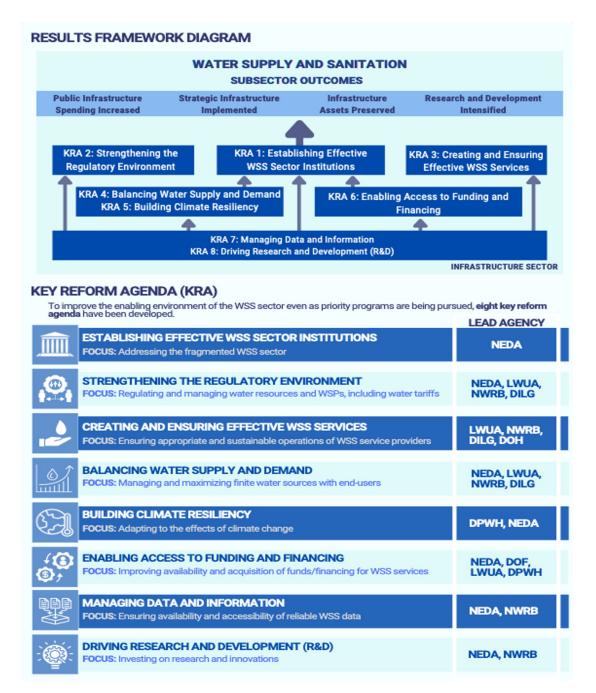




Philippine WS&S: Situation Analysis



Citation: National Economic and Development Authority. (n.d.). *Philippine Water Supply and Sanitation Master Plan*.



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Infrastructure crises in 1990s

Type of crisis	Condition	Enabling Reform	Outcome post-reform			
Power supply crisis (1990-1992)	Power supply outage of up to 10 hours per day	BOT Law	Energy access from 65% to 97%			
Telco service crisis (before 1995)	1m landlines for 62M population	Telecom Deregulation Law	150m mobile subscribers @ 110M population			
Water Crisis (before 1995)	Water service coverage at 60% and System loss at 65% in 1995	National Water Crisis Act	Supply coverage over 95% (18M) NRW 30% combined (MWC at 13%)			

Citation:

Energy stats - World Bank cited in World in Data

Telephony stats - International Telecommunications Union (via World Bank)

Water supply stats - Metropolitan Waterworks and Sewerage System (MWSS)

Track record of the Philippines in Infrastructure-linked PPP



Philippines

East Asia & Pacific

Income Group

Lower middle income

Population

115,559,009

Number of PPPs

22

GNI per Capita

\$3,950

PPP Investments

\$6,919.77

Number of PPPs: PPP projects that reached financial closure between January 2014 and December 2018.

PPP Investments: Total investment commitments in PPPs between January 2014 and December 2018 at the time of financial close.

Thematic Scores for Public-Private Partnerships in Philippines







Procurement



Contract Management



Unsolicited Proposals

Source: World Bank. Benchmarking Infrastructure Development

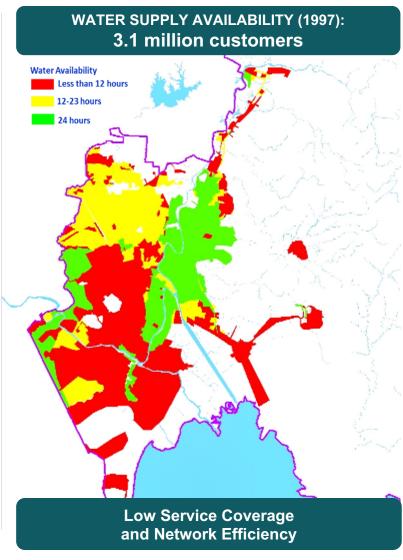
Global Average

Regional Average

Income Group Average

Pre-privatization initial condition







National Water Crisis Act 1995 as Basis for Privatization



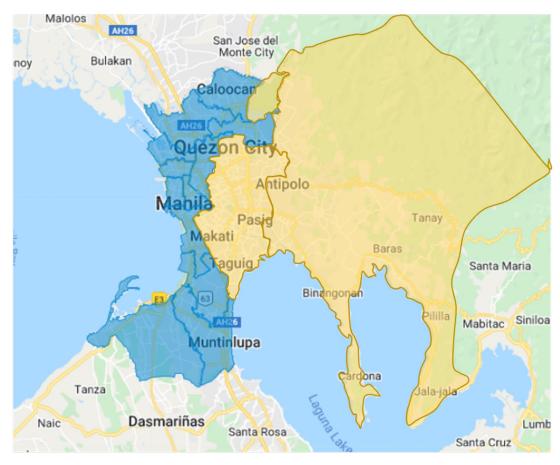


General Concepts of the National Water Crisis Act

- Reorganization of MWSS
- Criminalization of water theft
- Granting authority to the President to privatize water utilities
- Negotiate BOT contracts

Objectives of MWSS Privatization

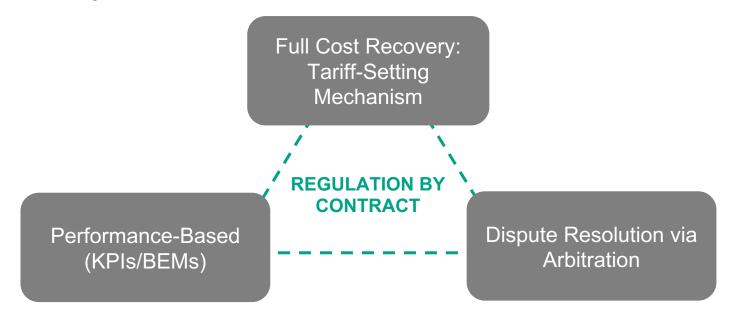
- Improve procurement efficiency and transparency
- Increase labor productivity and operating efficiency
- Mobilize private finance (and service existing MWSS debt)
- Improve overall management of water services



- Maynilad Concession Area
- (2) Manila Water Concession Area

Concession Framework

Salient features and provisions



OTHER FEATURES:



Debt-servicing of MWSS loans



Absorption of MWSS employees



Gov't. Letter of Undertaking



MWSS as asset owner



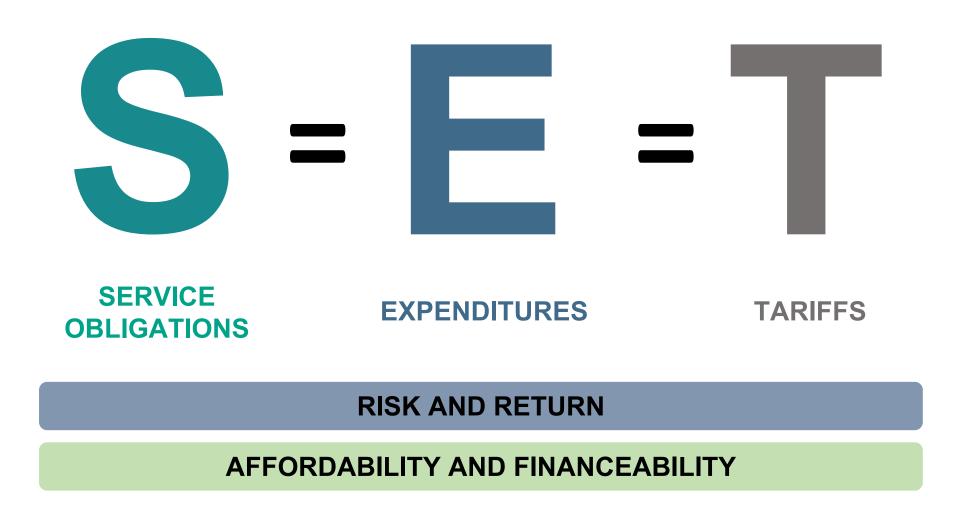
Operator/contractor (in charge of procurement)



Obligation/Incentive to invest

Concession Framework

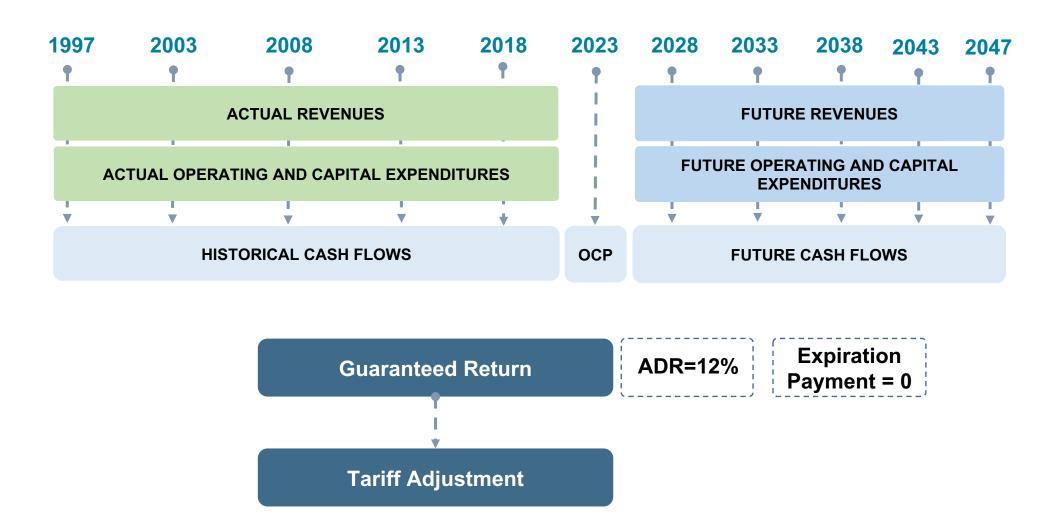
Cost-recovery Mechanism



Citation: Author's framework based on provisions of the Concession Agreement

Concession Framework

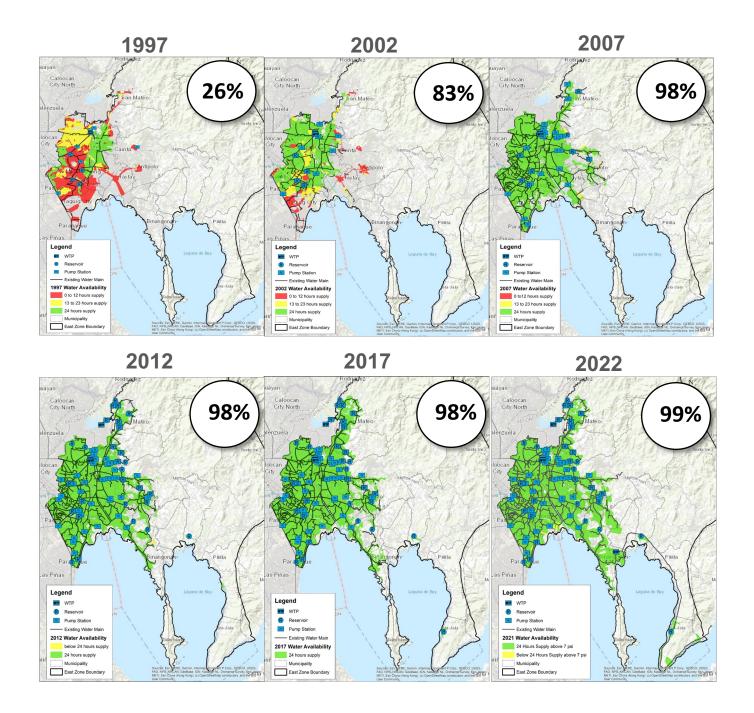
Rate Rebasing Mechanism – Provides guaranteed Return



Citation: Author's framework based on provisions of the Concession Agreement

1997-2021 Water Availability in the East Zone

% customers with 24 hrs water availability

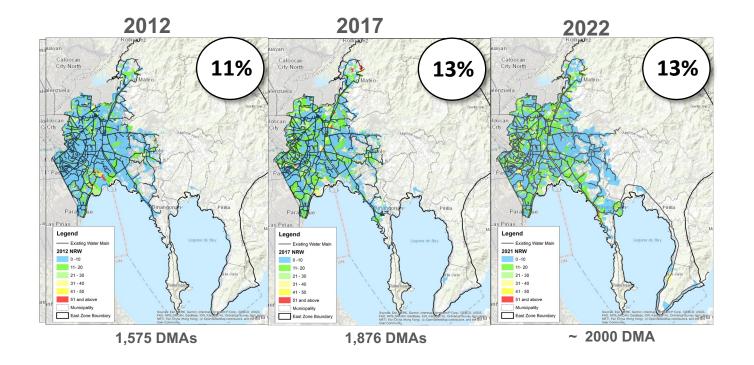


Citation: Manila Water

1997-2021 Non-Revenue Water in the East Zone

Non-Revenue Water (NRW)

DMAs – District Metering Areas



2002

55%

2007 NRW

0 -10

11- 20

1997

Existing Water Mair

1997 NRW

0 -10 11- 20

21 - 30 31 - 40 41 - 50 51 and above Municipality 63%

Legend

2002 NRW

- Existing Water Mai

East Zone Bounda

2007

1,183 DMAs

24%

Citation: Manila Water

Strategic response to address water supply for urban poor

INCLUSIVE BUSINESS

FOCUS

OBJECTIVE

Communities

Depressed/Low-income Help Build Communities



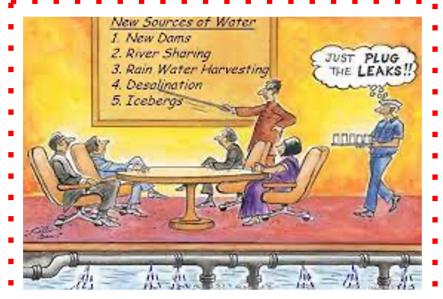






- **1.8 million people** from marginalized communities served
- Urban poor communities granted 02 access to potable water.
- **24/7** Potable Supply; **Affordable** 03 Water; Adequate Pressure

Urban water sector issues: Focus on NRW





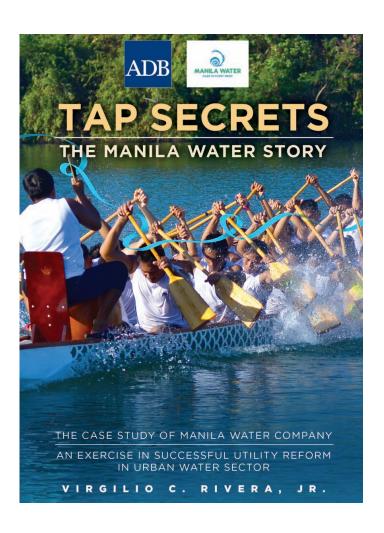




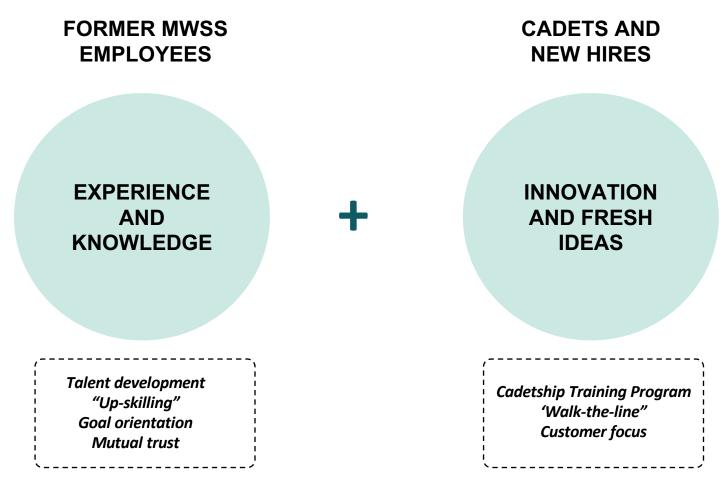
Key strategies to reduce NRW



- Leadership & Governance
- Decentralization and Empowerment
- Accountability for results through KPIs
- NRW as a cornerstone of a Utility's transformation



Tap Secret #1: ENABLE



Sustainability and Corporate Social Responsibility

Tap Secret #2: EMPOWER

TERRITORY MANAGEMENT APPROACH

"The 5 Marbles"



Billed Volume



Revenue performance and assurance



Collection efficiency



After sales / Customer service

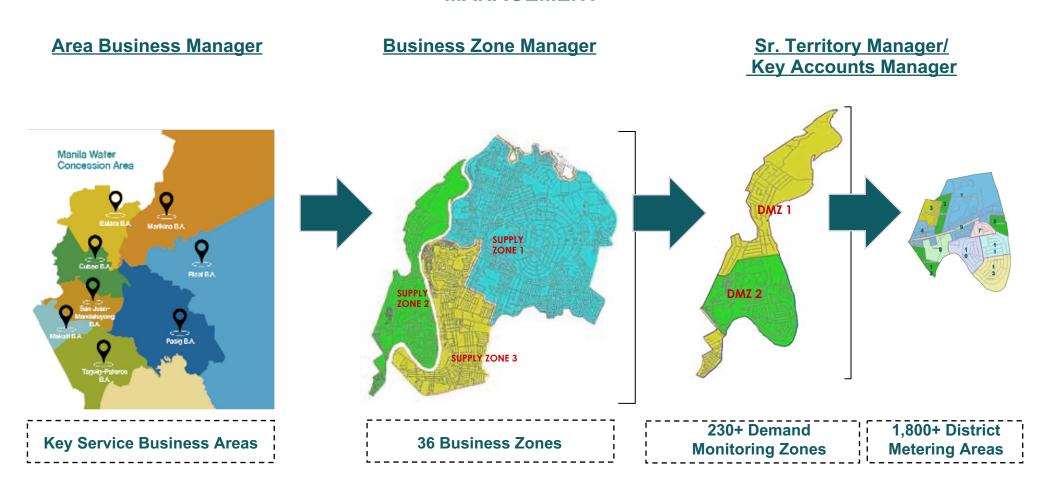


Decentralized Approach

Accountability & Responsibility

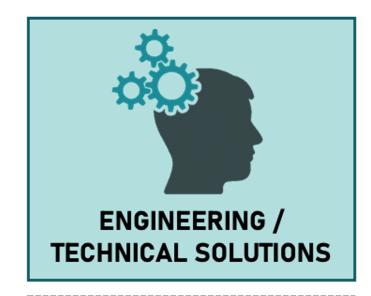
Tap Secret #2: EMPOWER

DECENTRALIZED APPROACH THROUGH TERRITORY MANAGEMENT



Citation: Rivera, V.C. (2014). Tap Secrets: The Manila Water Story. Asian Development Bank

Tap Secret #3: EXCEL



Strategic NRW management Laying new pipes Upgrading facilities Building new infrastructure Manila Water University



'Kasangga' system
'Tubig Para Sa Barangay' (TPSB)
Public Consultations
Partnership with local
governments

"Pipes & People"
Infrastructure & Individuals

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The East Concession

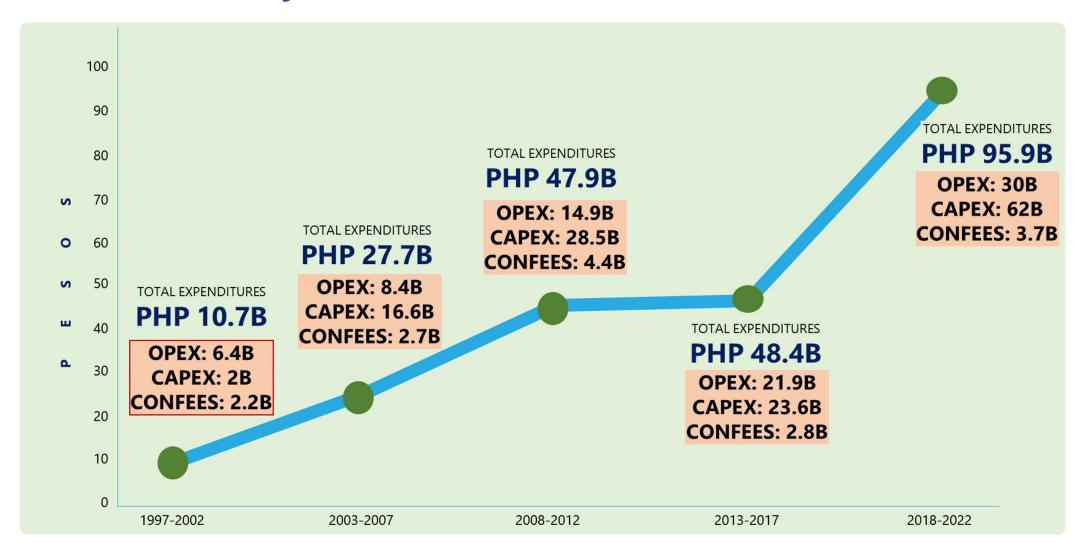
by the Numbers

	Prior to August 1997	To 2022
Customers	3.1M	7.5M
Water Service Connections	310 K	1.1M
Water Availability (24/7)	26% (24/7)	99.8% (24/7)
Non-Revenue Water Percentage	63%	13%
Sewer Coverage (sanitation service for unsewered customers)	3%	33.5%
Private Capital Investments (cumulative)	0	Php111B





Manila Water's total expenditure through the years to ensure water security and sustainable services while improving operational efficiency.



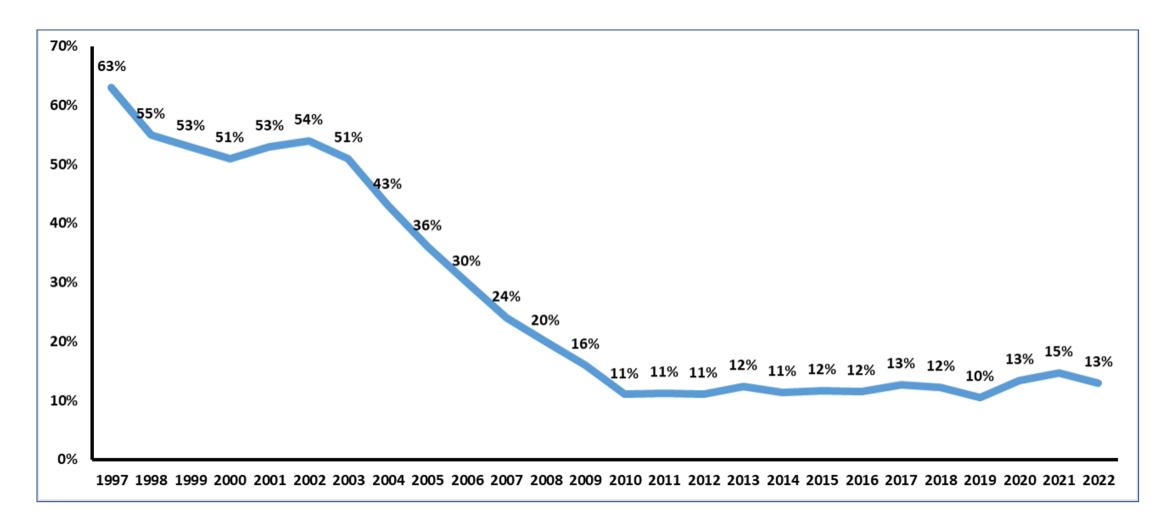
Latest Developments

Manila Water secures congressional franchise for its East Zone concession

- Successfully completed its 5th Price Review / Rate Rebasing Process
 - Tariff rates will nearly double through 2027 anchored on \$2B capital investment commitment

 Revision of Concession Agreement to 2047 as set in its congressional franchise

Manila Water – East Zone NRW Performance, 1997-2022



Citation: Manila Water



Manila Water Company, Inc.

2022 WATER COMPANY OF THE YEAR





WINNER

Water Company of the Year 2022

Manila Water



Available PPP Modalities and Frameworks for Water and Sanitation

Government Entity	Available PPP Legal Framework	PPP Modality		
Local Government	Amended BOT Law	Build-Operate-Transfer (BOT) and other allowed modalities under the BOT Law		
Units	Its own PPP Ordinance under its local autonomy	JV		
Water Dietriete	LGC or the Constitution of the Philippines	Local Legislative or Congressional Franchises		
Water Districts	Amended BOT Law	BOT and other allowed modalities under the BOT Law		

Water PPP Projects as of 2022



0.4	Age									
Contract Type	1	2	3	4	5	6	7	8	NA	TOTAL
Bulk Water				1			2		2	5
NRW							1			1
Septage		2							2	4
Water Operations	12	4	25	24	13	6	7	1	9	101
Grand Total	12	6	25	25	13	6	10	1	13	111

Water Operations	101			
Bulk Water	5			
NRW	1			
Septage	4			
TOTAL	111			

Citation: National Economic Development Authority

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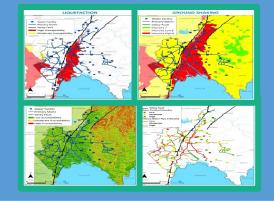
Continuing Challenges

Climate Change

Changing Environmental Standards (CWA/BNR)



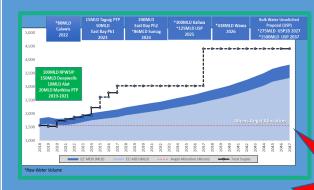
Seismic Risk



Regulatory Developments RCA / Tariff Freeze



Long-term Water Sources



Covid-19





Proposed Water Service Improvement Plan

ANGAT-LA MESA WATER SYSTEM

Sumag River - Umiray Angat

LAGUNA LAKE WATER SYSTEM

Cardona WTP and East Bay Water Source

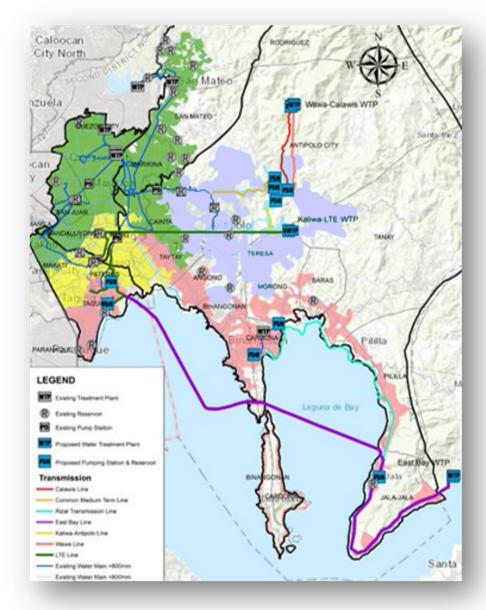
4-Water System Master Plan

ANTIPOLO WATER SYSTEM

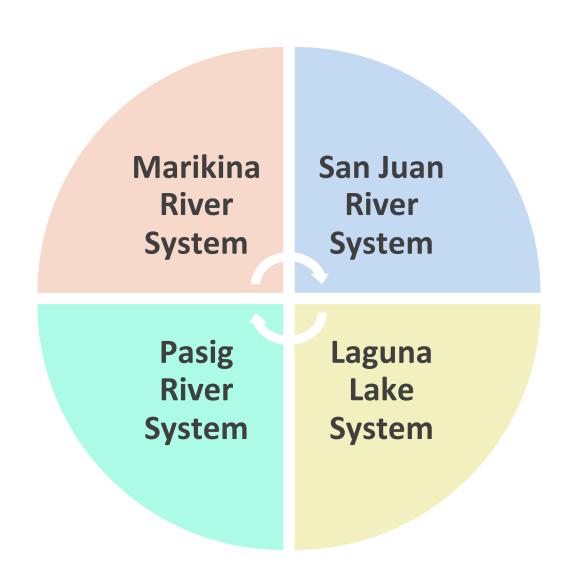
Wawa-Calawis

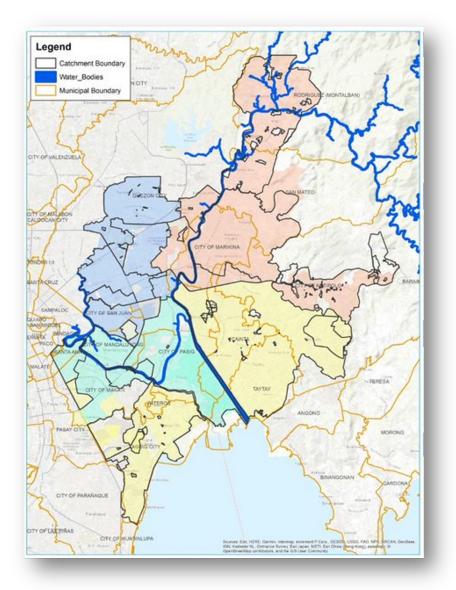
EAST SOURCESWATER SYSTEM

Kaliwa and Long-Term
East Sources

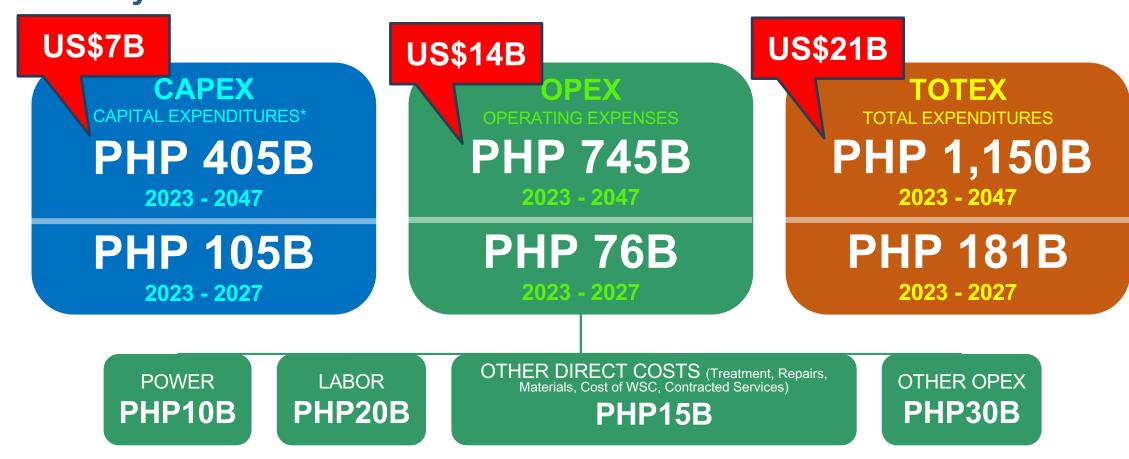


Three-River System Wastewater Master Plan





Manila Water plans to invest in capital expenditure to ensure water security and sustainable services while improving operational efficiency.



Citation: Presentation of Manila Water during the public consultation related to its Rate Rebasing 2023 Review (2022)

^{*}Includes Concession Fee Payments

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Lessons Learned and Insights

 Institutional, regulatory and environmental risks remain top concerns of both policy makers and utility operators

- Political will and enabling framework provided the spark for the transformation of water services in Metro Manila
- Concession framework was appropriate model for the structural or systemic problems faced by Metro Manila.
- Introduction of enabling legal frameworks has resulted in increased private sector participation in other urban areas of the Philippines

Lessons Learned and Insights

- Cost and quality of service will be a major challenge in the future due to rapid urbanization, climate change, raw water security concerns and stricter environmental standards
- Transformation of service delivery anchored on leadership, empowerment, decentralization and accountability for results
- Bias for the urban poor as part of social license to operate it was important for the company that households at the "base of the pyramid" benefit from private sector participation.
- NRW Reduction program requires a holistic and multi-pronged approach and was integral part of the utility company's Transformation Program

Thank you!

End of presentation