



LAGUNA WATER

A MANILA WATER
PHILIPPINE VENTURES COMPANY



**FECAL SLUDGE MANAGEMENT
AS UTILITY OPERATION:**

THE MANILA WATER STORY

Key Messages

**TRANSFORMING COMMUNITIES WITH LIFE'S
BASIC NECESSITIES**

**REPLICATING MANILA WATER'S SUCCESS TO
THE PROVINCE OF LAGUNA**

**CHAMPIONING SUSTAINABLE SANITATION
FOR LAGUNENSES**



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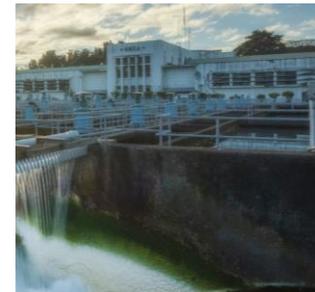


Manila Water



a publicly-listed company with 19 years of experience in the water industry.

awarded the water and wastewater concession in the East Zone of Metro Manila



Manila Water in and out of the Philippines

17.25M
population
served

107,994
desludged
septic tanks

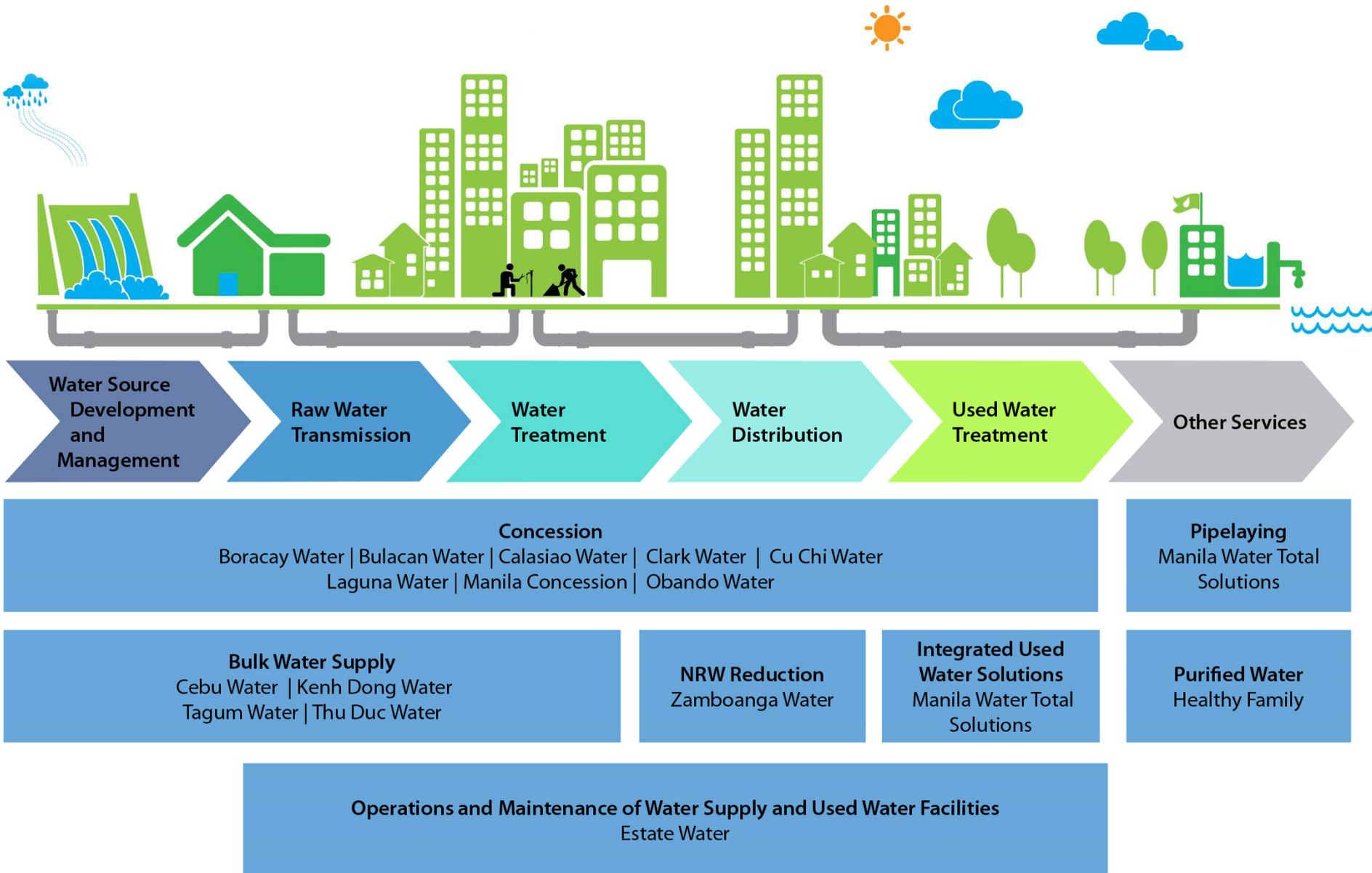
141,266
sewer
connections

56.42 MCM
used water
treated



Manila Water Enterprise Value Chain

Key Business Operations



Water Service Improvements

East Zone Manila Concession

6.8M

Customer Base

100%

24/7 Water Availability

12%

Non-Revenue Water

1.8M

Low-Income Beneficiaries

94%

Water Service Coverage

5,200 km

Pipelines Laid



Sanitation Conditions

East Zone Manila Concession



3%

Pre-1997 Sewer Coverage

>80%

Households use septic tanks

~10%

No access to sanitation facilities

58%

Annual BOD pollution comes from domestic sources

Call to Intensify Wastewater Management

East Zone Manila Concession

R.A. 9725

The Philippine
Clean Water Act of 2004

REPUBLIC ACT 9725

AN ACT PROVIDING FOR A COMPREHENSIVE WATER QUALITY MANAGEMENT AND FOR OTHER PURPOSES

SECTION 1. Short Title. - This Act shall be known as the "Philippine Clean Water Act of 2004."

SEC. 2. Declaration of Policy. - The State shall pursue a policy of economic growth in a manner consistent with the protection, preservation and revival of the quality of our fresh, brackish and marine waters. To achieve this end, the framework for sustainable development shall be pursued. As such, it shall be the policy of the State:

- a) To streamline processes and procedures in the prevention, control and abatement of pollution of the country's water resources;
- b) To promote environmental strategies, use of appropriate economic instruments and of control mechanisms for the protection of water resources;
- c) To formulate a holistic national program of water quality management that recognizes that water quality management issues cannot be separated from concerns about water sources and ecological protection, water supply, public health and quality of life;

SC orders govt agencies to clean up Manila Bay

Published December 18, 2008 5:30pm

MANILA, Philippines - In a bid to restore life to Manila Bay, the Supreme Court of the Philippines on Thursday ordered several government agencies to spearhead the rehabilitation of this historic water landmark.

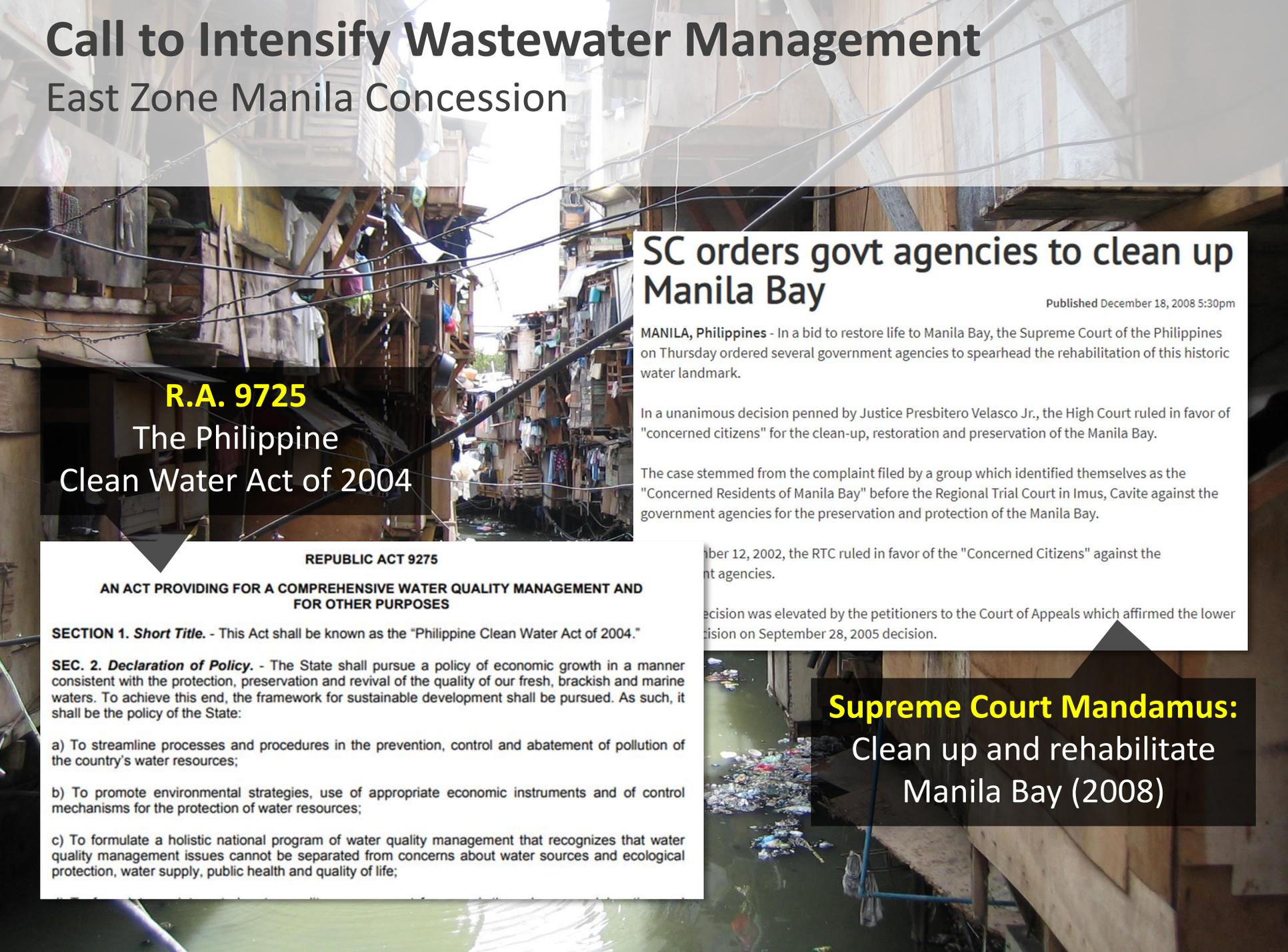
In a unanimous decision penned by Justice Presbitero Velasco Jr., the High Court ruled in favor of "concerned citizens" for the clean-up, restoration and preservation of the Manila Bay.

The case stemmed from the complaint filed by a group which identified themselves as the "Concerned Residents of Manila Bay" before the Regional Trial Court in Imus, Cavite against the government agencies for the preservation and protection of the Manila Bay.

On September 12, 2002, the RTC ruled in favor of the "Concerned Citizens" against the government agencies.

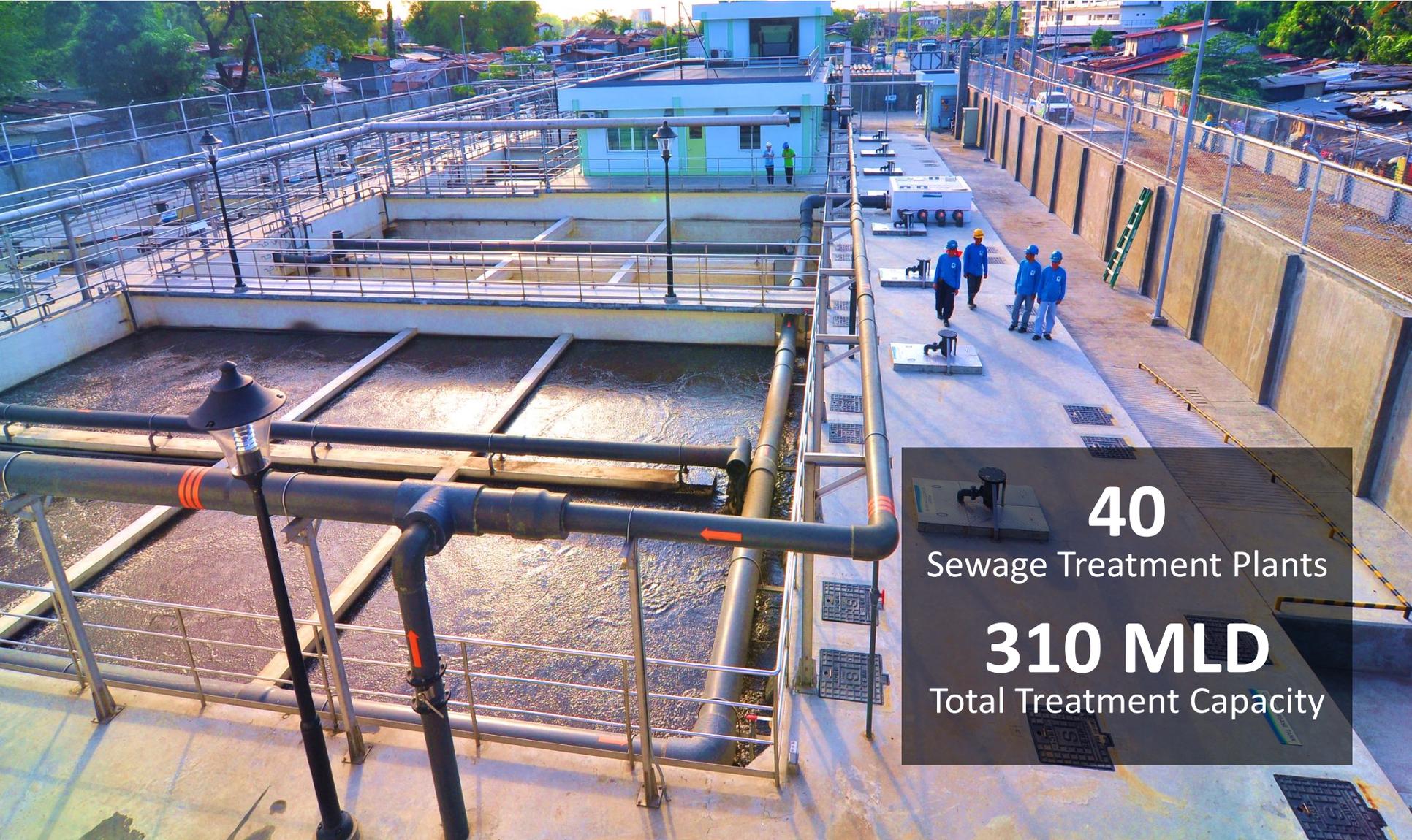
The decision was elevated by the petitioners to the Court of Appeals which affirmed the lower court's decision on September 28, 2005.

Supreme Court Mandamus:
Clean up and rehabilitate
Manila Bay (2008)



Accomplishments: Sewerage (1997-2017)

East Zone Manila Concession



40
Sewage Treatment Plants

310 MLD
Total Treatment Capacity

Accomplishments: Sewerage (1997-2017)

East Zone Manila Concession



Accomplishments: Sewerage (1997-2017)

East Zone Manila Concession



15%

Sewer Coverage

370 km

Sewer Pipelines

100%

Compliant with
DENR Effluent Standards

Accomplishments: Sanitation

East Zone Manila Concession

104K
Septic Tanks
Emptied (2017)

176K
Households
Served (2017)



Accomplishments: Sanitation (1997-2017)

East Zone Manila Concession

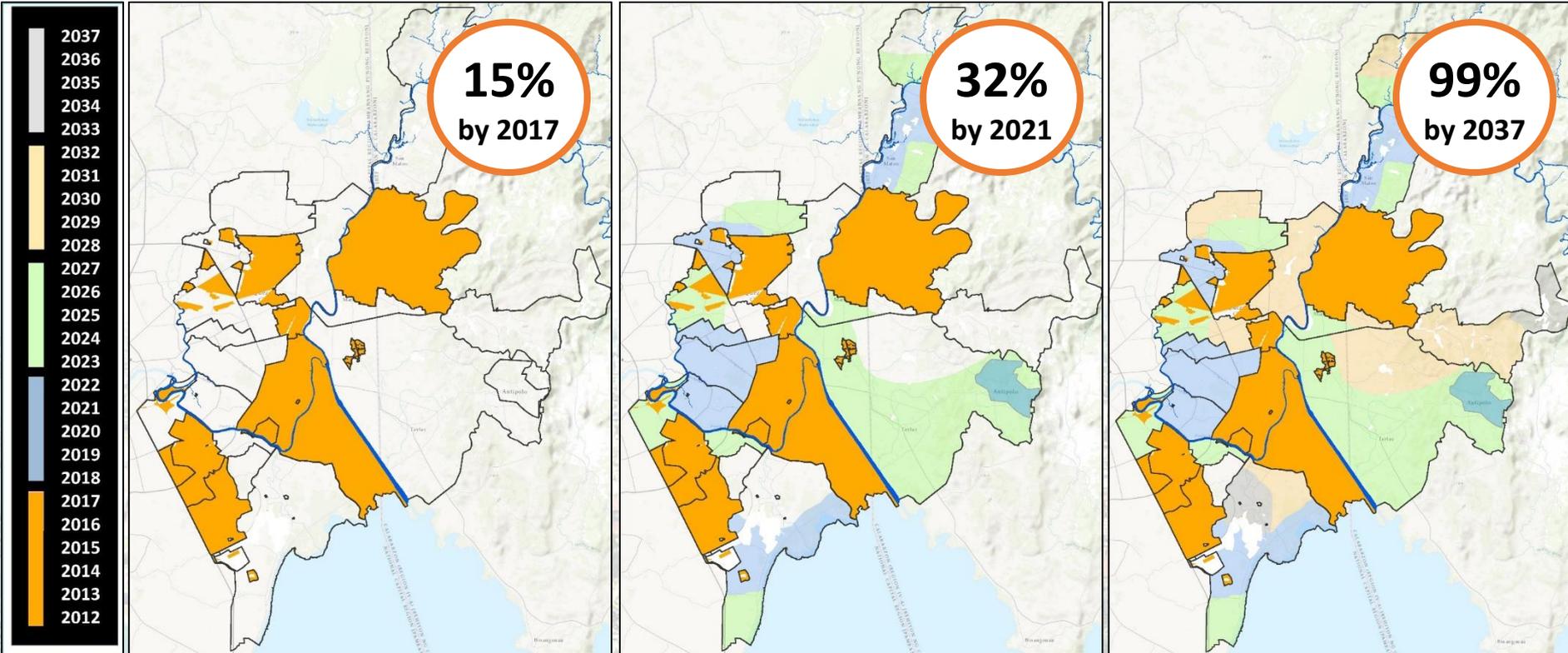


50
Desludging
Vacuum Trucks

2
Septage
Treatment Plants

Used Water Master Plan

East Zone Manila Concession



Key Messages

TRANSFORMING COMMUNITIES WITH LIFE'S
BASIC NECESSITIES

REPLICATING MANILA WATER'S SUCCESS IN
THE PROVINCE OF LAGUNA

CHAMPIONING SUSTAINABLE SANITATION
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Laguna Water



LAGUNA WATER

A MANILA WATER
PHILIPPINE VENTURES COMPANY

PUBLIC-PRIVATE PARTNERSHIP



30%



MANILA WATER
PHILIPPINE VENTURES

70%

100,000+
SERVICE
CONNECTIONS

160 MLD
VOLUME OF
WATER
PRODUCED

PHP 1.21 B
2017 REVENUE

PHP 4.40 B
CAPITAL
INVESTMENT

Territorial Scope



Operational Performance

	PRE-LAGUNA WATER (SEP 2009)	LAGUNA WATER (Dec 2018)
 SERVICE COVERAGE	14%	57%
 WATER AVAILABILITY	LESS THAN 24 HOURS	24 HOURS
 WATER PRESSURE	LESS THAN 7 PSI	20PSI
 NON-REVENUE WATER	48%	17%
 HOUSEHOLDS SERVED	17,000	102,000++
 POTABILITY	NON-POTABLE	POTABLE
 KILOMETER MAINS	155 KM	1048 KM

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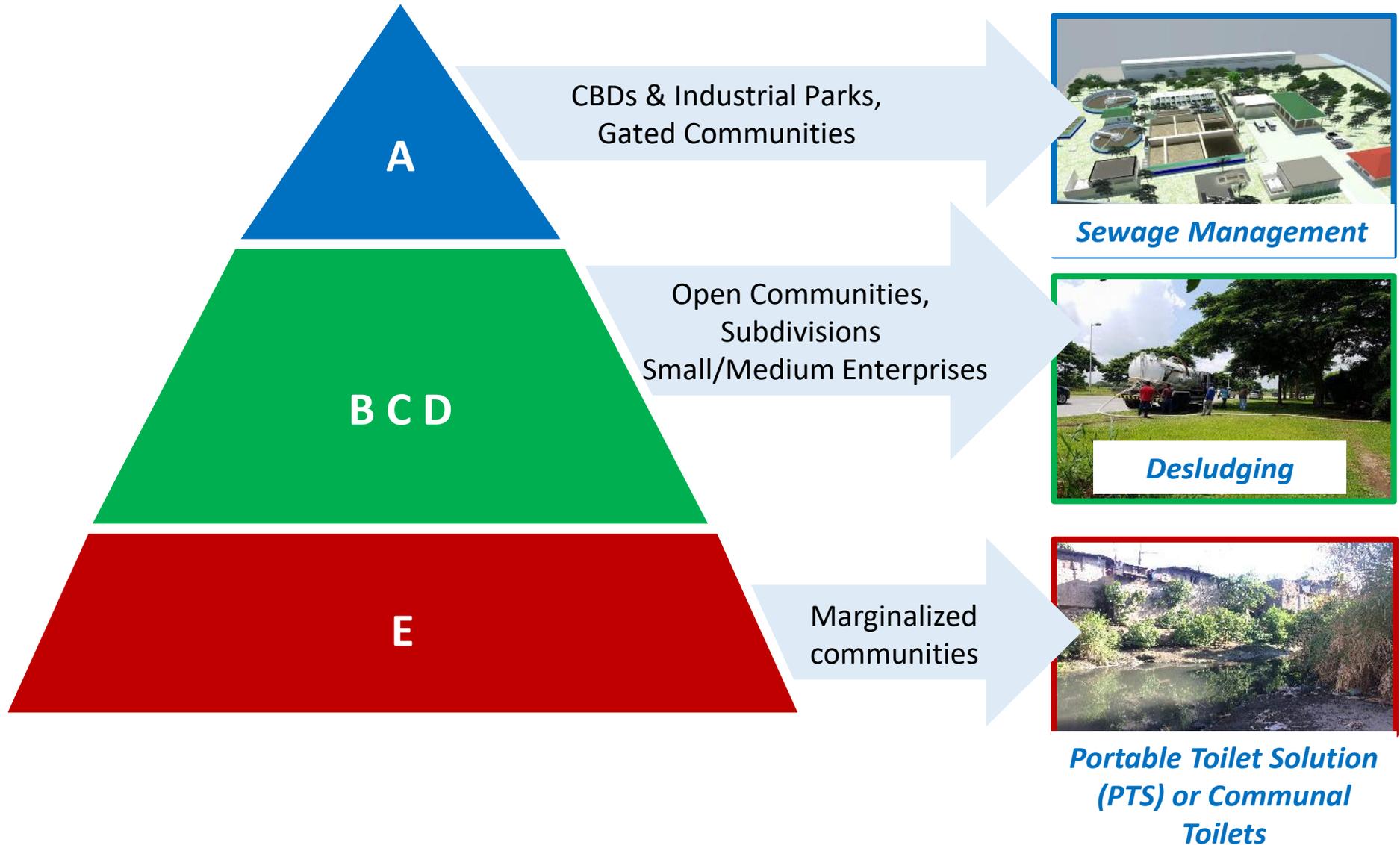


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TO CONCESSION
TUP VER OF TH

Expansion of Concession Agreement

CA Amendment in 2018 to include sanitation services

TSEK ng Bayan: Sustainable Sanitation for All



Sewage Management

MANAGES THE

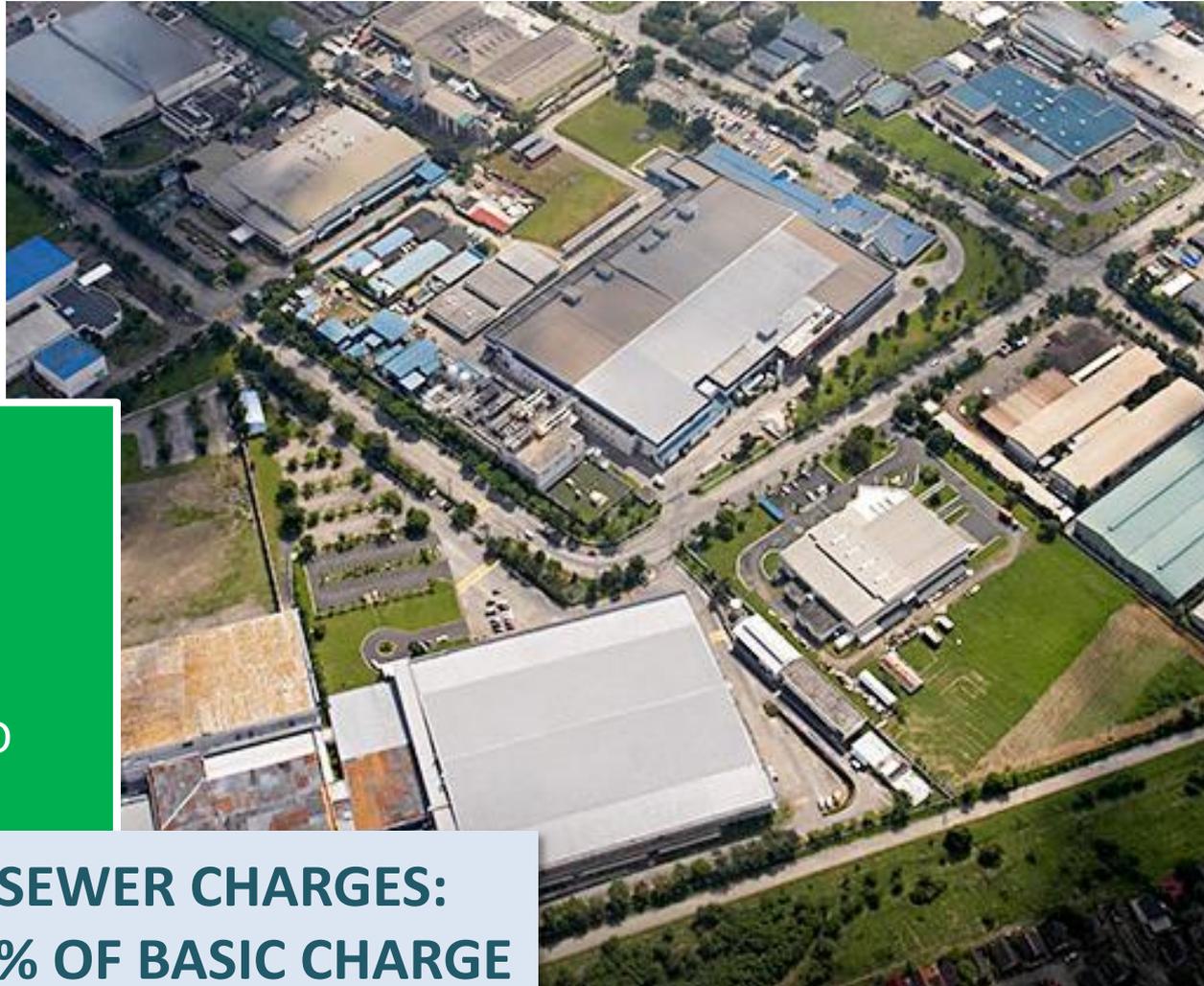
22 KM

SEWER NETWORK OF
LAGUNA TECHNOPARK

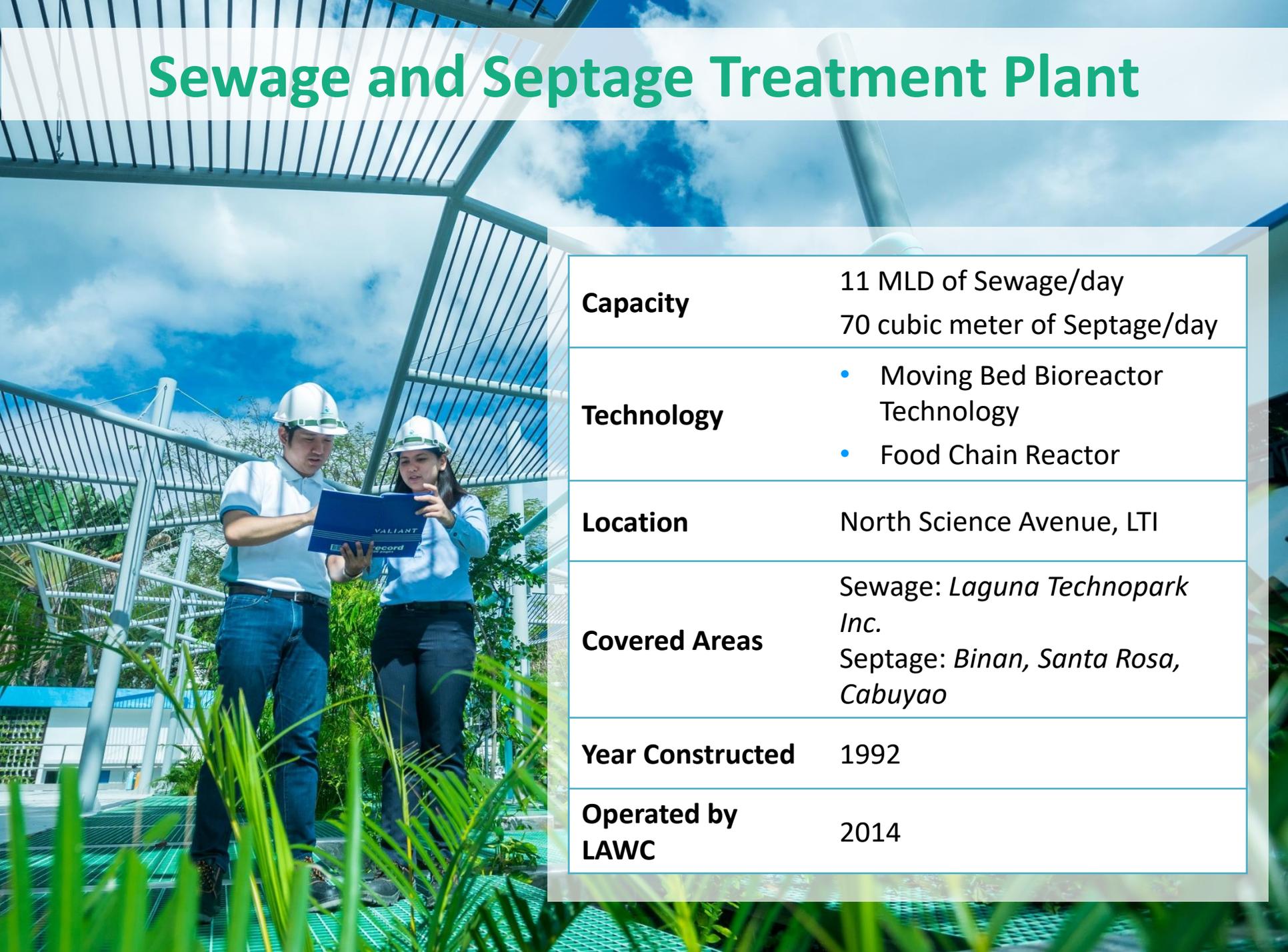
5.2

MILLION LITERS
OF SEWAGE TREATED
PER DAY

**SEWER CHARGES:
50% OF BASIC CHARGE**



Sewage and Septage Treatment Plant



Capacity	11 MLD of Sewage/day 70 cubic meter of Septage/day
Technology	<ul style="list-style-type: none">• Moving Bed Bioreactor Technology• Food Chain Reactor
Location	North Science Avenue, LTI
Covered Areas	Sewage: <i>Laguna Technopark Inc.</i> Septage: <i>Binan, Santa Rosa, Cabuyao</i>
Year Constructed	1992
Operated by LAWC	2014

Desludging Service



MORE THAN
500,000
PEOPLE WILL INITIALLY
BENEFIT FROM THE
SERVICE

FIVE

YEAR SCHEDULE TO
ENSURE ALL CUSTOMERS
WILL BE PROVIDED
WITH THE SERVICE

TUCKED IN ENVIRONMENTAL
CHARGES: 20% OF BASIC CHARGE

Communal Toilet

SEVEN

MILLION PEOPLE IN THE
PHILIPPINES PRACTICE
OPEN DEFECAATION

HELPS IN ACHIEVING

ZERO

OPEN DEFECAATION

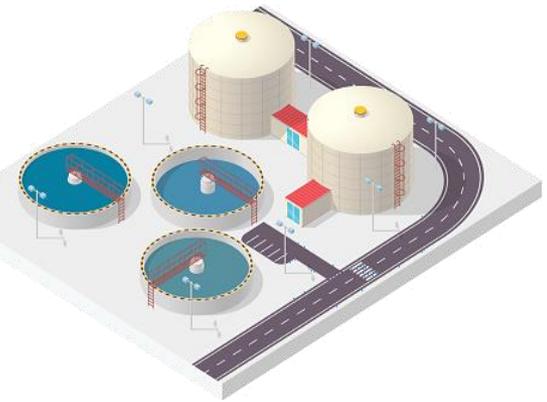


“ Ang kaibahan nito sa ibang toilet projects, may tubig ito. Pag nag lalakad ako ngayon, wala na akong duming naapakan kasi yung mga tao may lugar nang mapupuntahan kung kelangan nilang magbawas. ”

- Fe Escame
Resident of San Buena Compound



Portable Toilet Solution



TOP 5

INNOVATIVE SOLUTION
IN WORLD BANK'S
IDEAS FOR ACTION

32

MILLION-PESO RECIPIENT
OF GRAND CHALLENGES
CANADA

BRIDGING THE GAP





**2019: GOLD AWARD for TSEK ng Bayan Advocacy Campaign:
Reflecting Good Health, Sustainable Environment, and Economic
Growth and Development through Sanitation**

COLLABORATIVE EFFORT



Good Health



Sustainable Environment



LAGUNA WATER

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PHILIPPINE VENTURES COMPANY



Empowering People
Protecting the Environment
Enhancing Sustainable Development

www.lagunawater.com.ph

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