

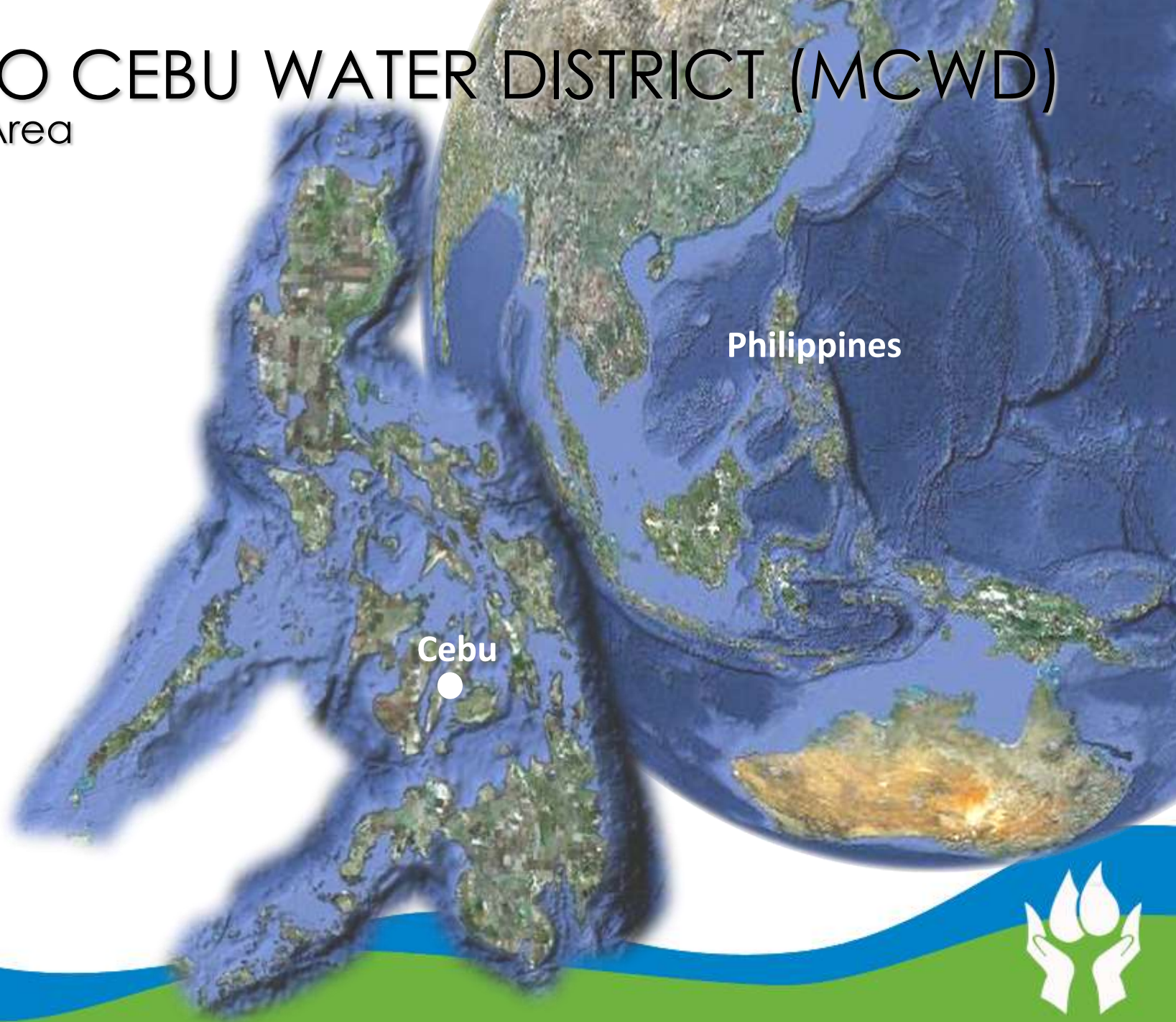
# **SECURING WATER FOR METRO CEBU**

Presented by: Joel Mari Yu  
Chairman of the Board  
Metropolitan Cebu Water District



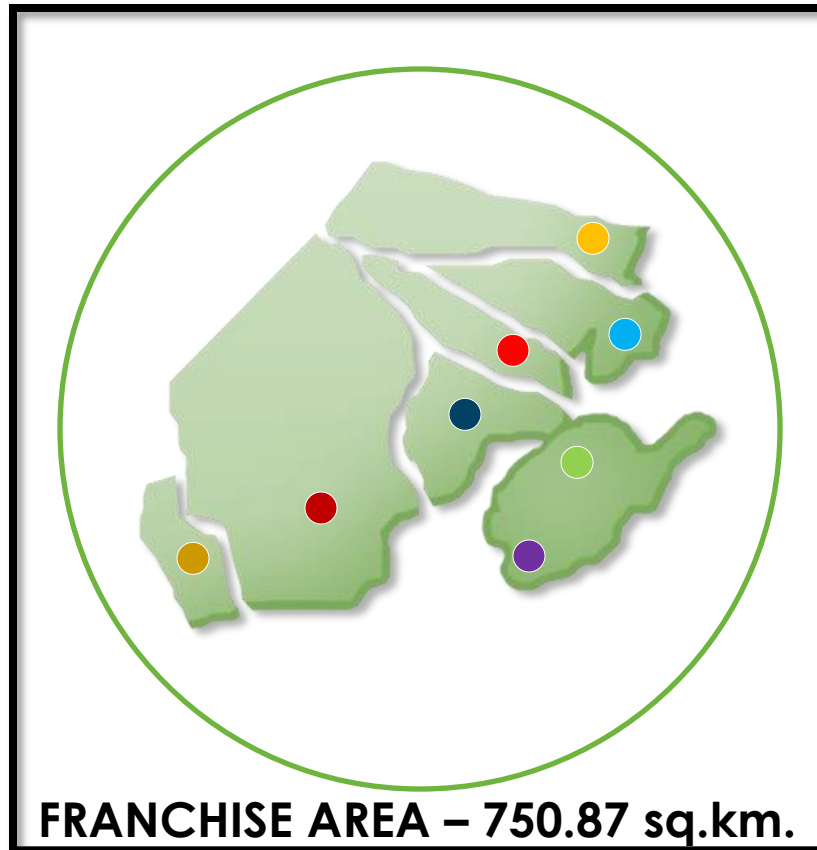
# METRO CEBU WATER DISTRICT (MCWD)

Service Area



# MCWD AREA

(POPULATION – 2.33 M)



**Cebu City**

**Consolacion**

**Compostela**

**Cordova**

**Lapu-lapu City**

**Liloan**

**Mandaue City**

**Talisay City**



CITY / MUNICIPALITY	POPULATION	NO. OF HOUSEHOLD
CEBU CITY	942,713	204,938
MANDAUE CITY	369,500	87,976
LAPULAPU CITY	420,607	97,816
TALISAY CITY	233,460	48,637
CONSOLACION	137,004	28,542
LILOAN	121,600	25,333
COMPOSTELA	49,001	10,209
CORDOVA	61,608	12,835
	<b>2,335,492</b>	<b>486,561</b>





# WATER PRODUCTION

## IN-HOUSE SOURCES:

127 GROUND WATER WELLS

1 BUHISAN DAM

**(168 MLD)**

## BULK SUPPLY:

11 AREAS

**(70 MLD)**



# **WATER DISTRIBUTION**

NO. OF CONNECTIONS

**178,782**

TOTAL PIPELINES:

**956,569 L-meters**

TOTAL RESERVOIRS:

**8**

**(29,270 CU.M)**



# CORPORATE PERFORMANCE

YEAR	PRODUCTION (MLD)	WATER SALES (MLD) <sup>1</sup>	NO. OF CONNECTIONS	NON REVENUE WATER (%)
2011	180	129	139,949	28.22
2012	188	139	146,874	26.11
2013	194	146	156,672	24.96
2014	201	153	164,536	23.88
2015	212	163	172,915	23.33
2016	214	165	178,782	22.97



# **FUTURE PLANS AND PROGRAMS...**





# SOURCING PLAN (2018 – 2030)

SOURCES	VOLUME	EXPECTED COMMISSIONING
GROUNDWATER SOURCE (28 WELLS) (2 BULK SUPPLY)	43 MLD	2018 - 2019
BRACKISH WATER (3 BULK SUPPLY)	22 MLD	2018 - 2019
SMALL SCALE DESAL (2 AREAS)	12 MLD	2018
SURFACE WATER (DANAO SUPPLY)	20 MLD	2019
DESALINATED WATER	100 MLD	2021
MANANGA DAM	100 MLD	2027
LUSARAN DAM	100 MLD	2030
TOTAL	397 MLD	





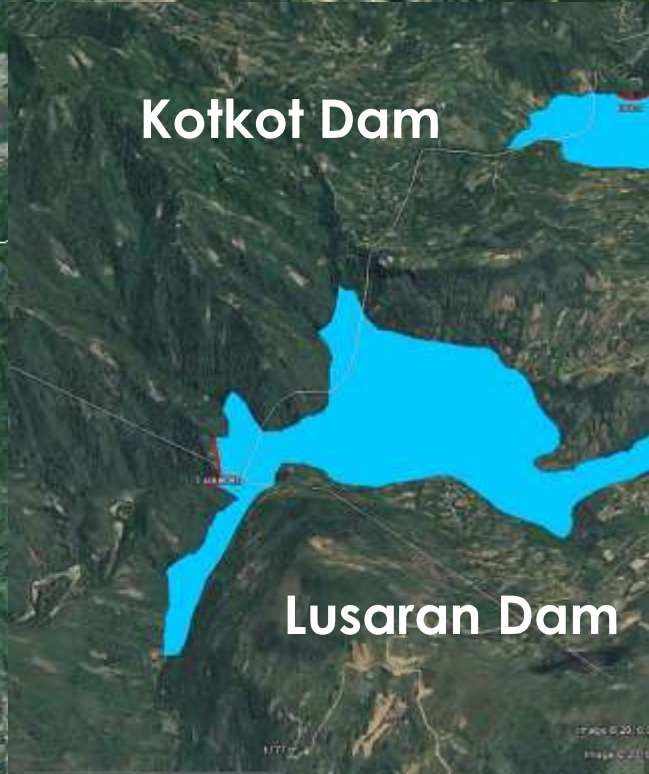
## Mananga Dam

Height	: 83 m
Capital cost	: 3.448 Billion (2006) 5.230 Billion (2016)
Volume	: 100,000 m <sup>3</sup> /day
Components	: 3.8 km tunnel Treatment plant 25,000 m <sup>3</sup> reservoir 43 km pipelines

## Mananga Dam

Google Earth

## Kotkot Dam



## Lusaran Dam

Height	: 63 m
Capital cost	: 2.354 Billion (2006) 3.570 Billion (2016)
Volume	: 109,000 m <sup>3</sup> /day
Components	: Dam structure 7.5 km Tunnel 3.0 km twin 900 mm dia. Pipelines Treatment Plant

Google Earth



Google Earth

# PIPELINE IMPROVEMENT PLAN (2018 – 2020)

TYPE OF PROJECT	NO. OF PROJECTS	LENGTH
EXPANSION	26	21.2 KM
MAINLINE RENEWAL	21	18 KM
DISTRIBUTION IMPROVEMENT	17	10.5 KM
TOTAL		49.7 KM





**THANK YOU.**

**Joel Mari Yu]  
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