

# Presentation

## Water Solutions and Experiences

~Taiwan's Water Solutions to Philippines~



力麗集團-環工事業群

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FOREST WATER ENVIRONMENTAL ENG'G LTD.



Organized by:



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# Advanced Water Treatment Technology from Taiwan

KUO, Chun-Ming  
Chairman, Taiwan Water Corporation

Taiwan water corporation (TWC):  
one of the **biggest** water  
companies in the world

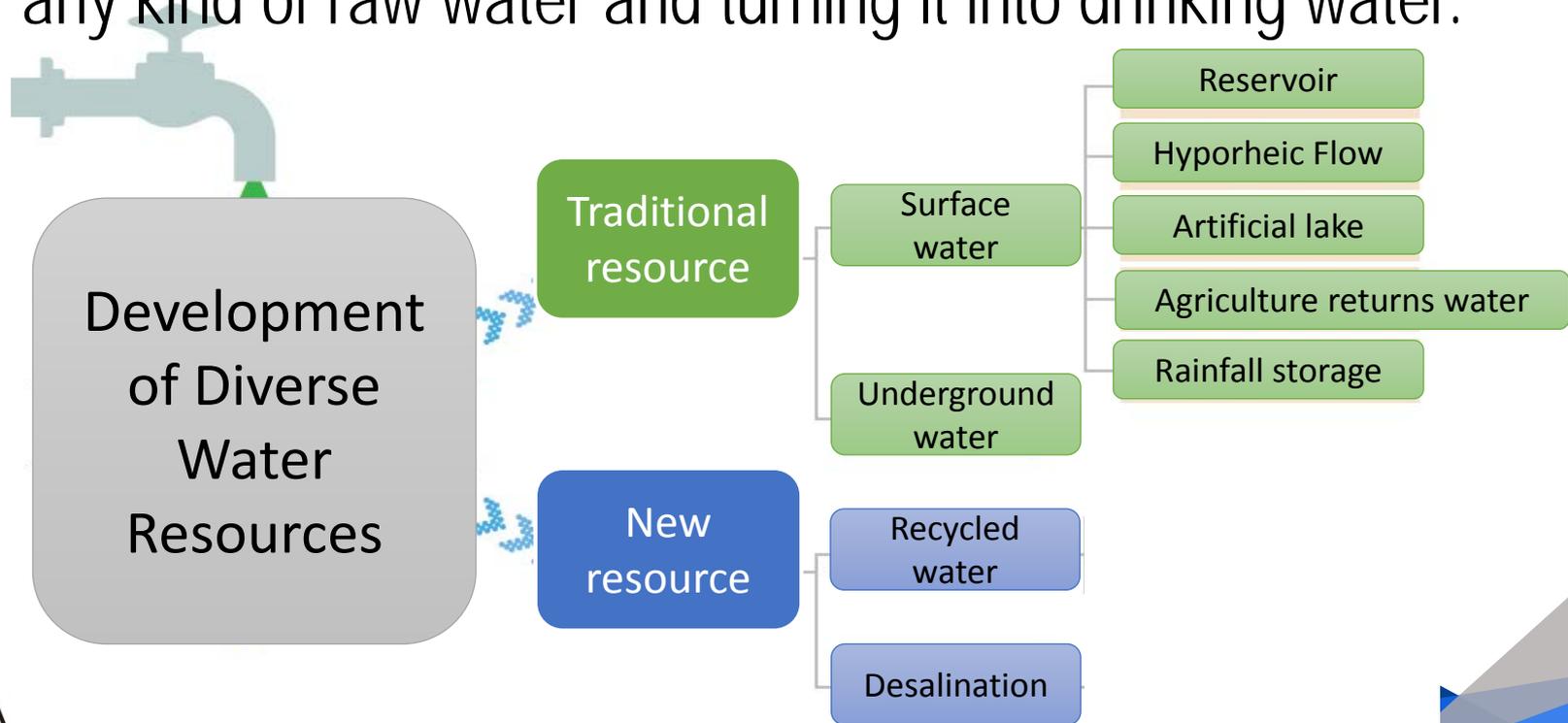
# Taiwan water corporation (TWC)

- Taiwan Water Corporation (TWC) is a state-owned company that produces 8.6 million cubic meters of drinking water every day.
- TWC owns 144 water supply systems and more than 350 water treatment plants all over the country, which makes it one of the biggest water companies in the world.



# TWC's water treatment capability

- TWC's raw water comes from various sources including river, reservoir, groundwater, seawater and even deteriorated water, therefore TWC is capable of treating any kind of raw water and turning it into drinking water.



# TWC's advanced technology

- To maintain stable water supply, TWC developed several technology such as maintaining water supply even during power outage, taking water from top layer and other layers of reservoir, adjusting water storage by adjustment tank, delivering water from one area to another by huge water pipelines longer than 30 km, developing hyporheic water etc.

Remote Mountain



Alishan 10,000M<sup>3</sup> Tank

Deteriorated water



Dong-gang Creek WTP  
Bionet Pre-treatment

Offshore Islands



Makong Desalination Plant

# TWC's advanced technology



Hyporheic water collection wells



Feng-shan WTP Pellet Softening Facility

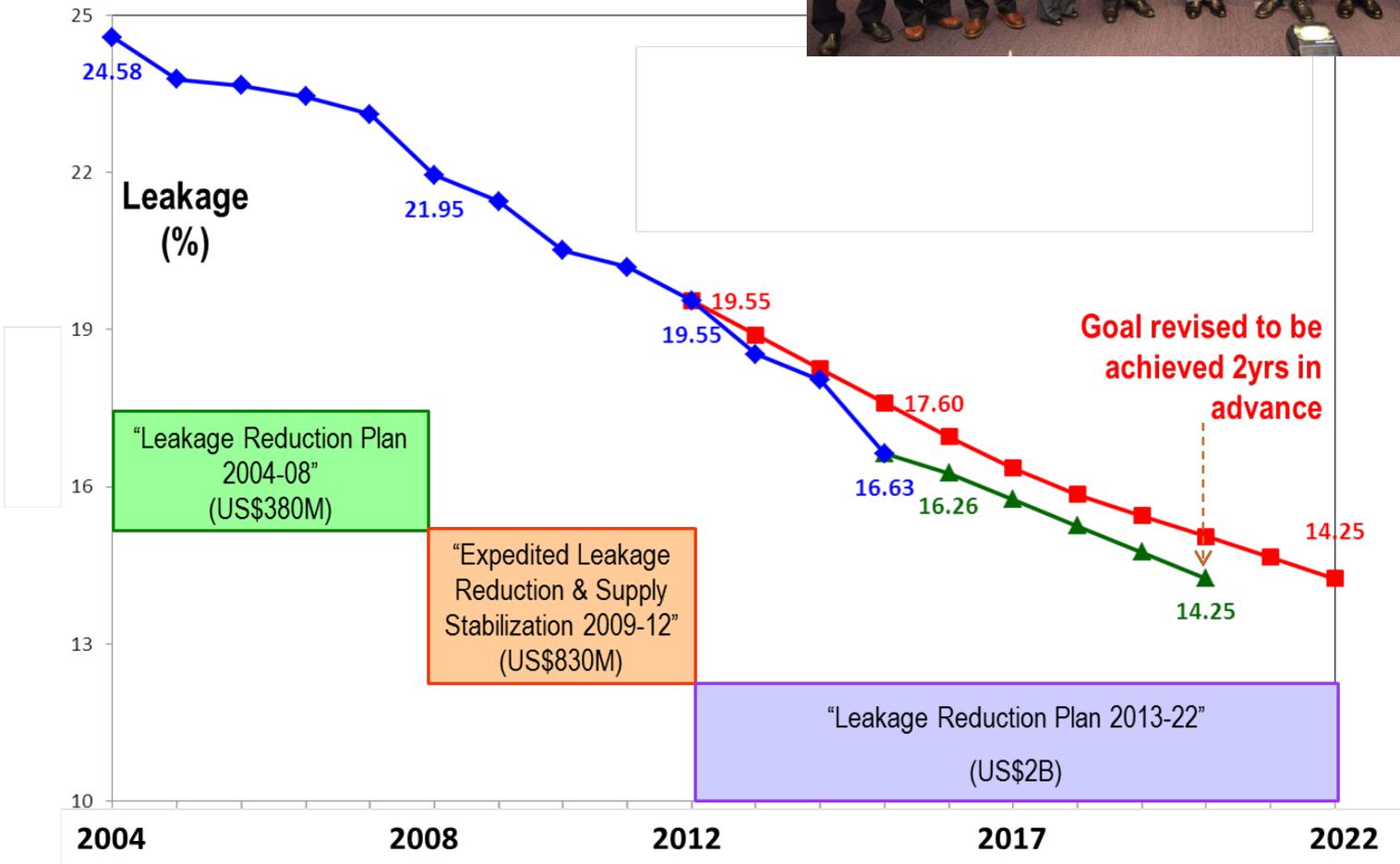


Makong RO Plant



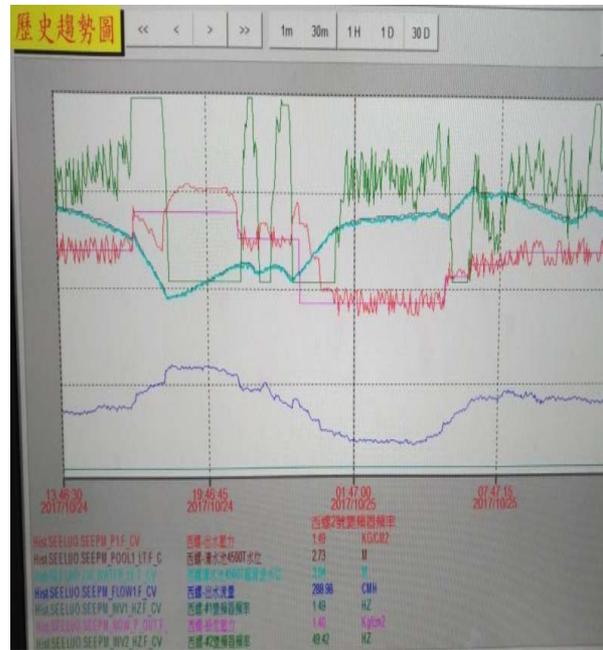
Cheng-Ching Lake WTP Ozonation Facility

# TWC's dedication to NRW reduction



# TWC's smart pipe network and monitoring system

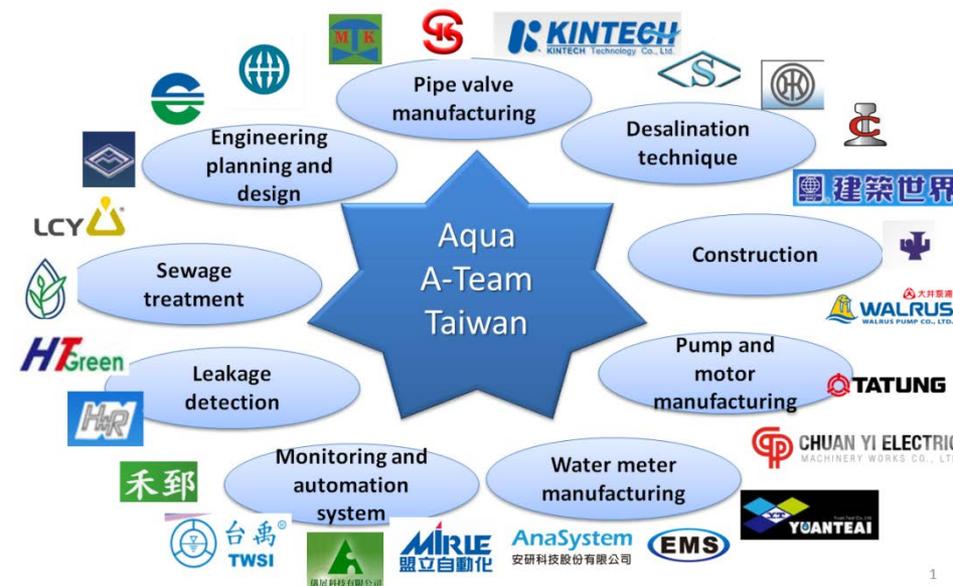
- WADA (Water Advanced Data Analysis)
- SCADA(Supervisory Control And Data Acquisition)
- Online monitoring system



# Aqua A-Team Taiwan (AATT)

# Established of Aqua A Team Taiwan (AATT)

- To promote New Southbound policy, TWC invited major water related companies to found "Aqua A-Team Taiwan"(AATT).
- AATT's members include project design/planning firm; construction company; manufacturers of water meters, pumps, valves, pipelines, water quality monitoring equipment and auto control equipment.



# Various Collaborative Models

## Performance-based Leak Reduction Contracts

- Yuan-lin Supply System
- Wu-fong Supply System



Makong RO Desalination Plant

- Tri-City NRW Reduction Program Management



## Other PPP Projects

- Feng-Shan ROT WTP
- Siyu Desalination Plant

- EPC Procurement
- Ongoing O&M Services

- Feng-yuan WTP Upgrade Planning
- Lifeline Trunk Mains Design for Taichung



Cheng-Ching Lake DBO WTP

# Strong Support from Taiwan's Private Sector



國立交通大學  
National Chiao Tung University



日商東京水道服務公司



工業技術研究院  
Industrial Technology  
Research Institute



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Thanks!  
Any Questions?