

# **Water Leaders Summit**

## **Irreplaceable Water Value**

**Introduced by: Dr. Chien-hsin Lai**

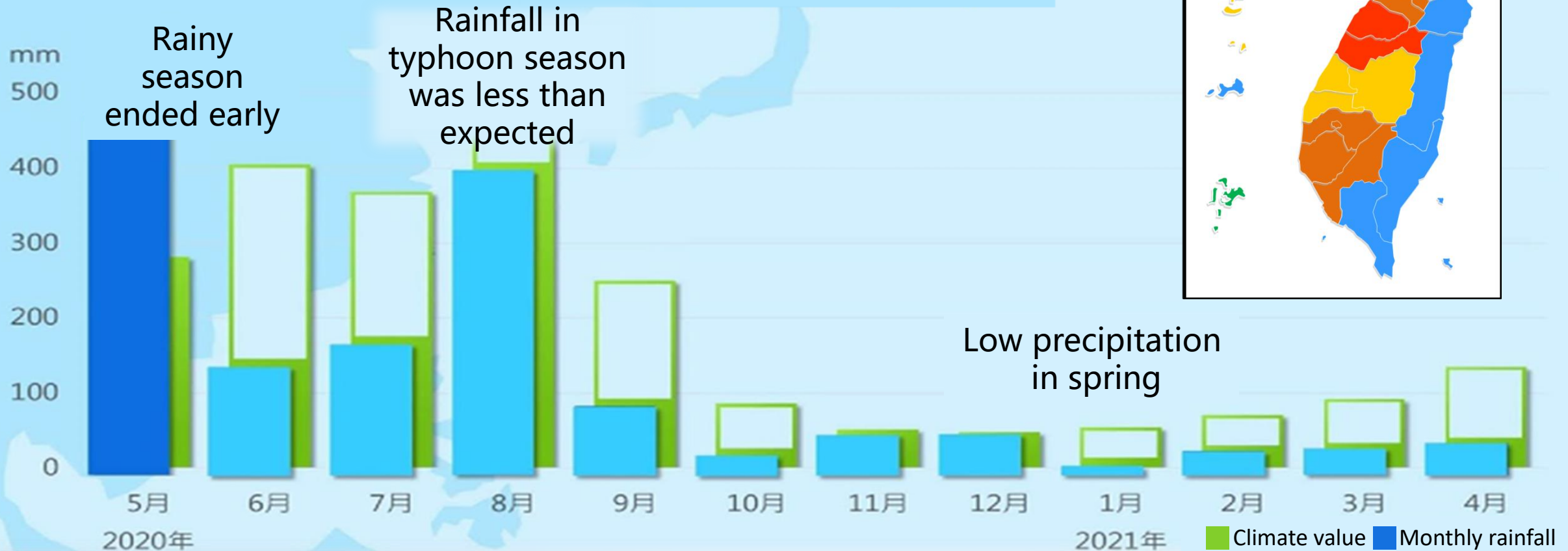
**Director-General  
Water Resources Agency, MOEA**

**Oct 14, 2021**

# 2021 the Severest Drought

Annual rainfall **880mm** is **1/3** of historic average

Monthly rainfall and climate value  
(2020/05-2021/04)



# Listen to the rain, deeply touched!

**May 24, at Shihmen Reservoir**



# Echo to the World – Water Value and Water Resources

- ✓ UN World Water Development Report 2021:
  - **Water** is **irreplaceable**; its **value** cannot be simply measured by **price** and shall not be treated as **cheap merchandise**.
  - **Being under-recognized** and **under-valued**, leading to **wastful** & **poor management of water resources**



**Environmental  
Ecology**



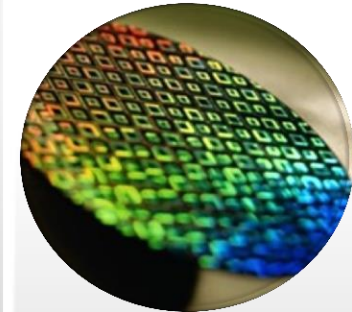
**Infrastructure**



**Water Services**



**Social Culture**



**Production  
Economy**

**Evaluation of water value**



# Recognizing Water Value – Thinking & actions will change

How hard is it from headwater to faucet?

Hundreds of kilometers  
in distance



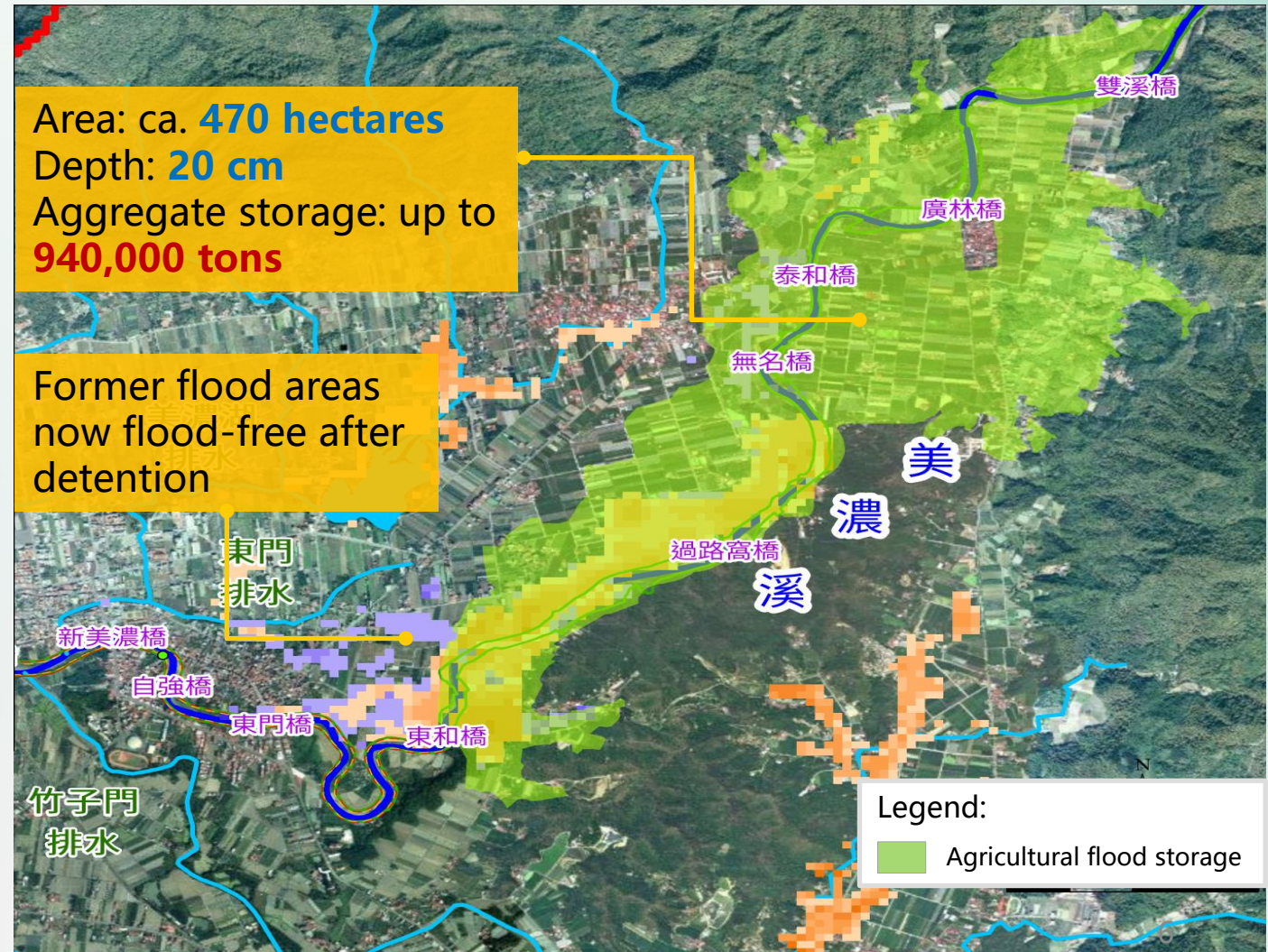
1. **Thinking: cherish water resources while mindset changed!**
2. **Action: value water environment while conservation rooted in behavior!**
3. **Technology: recycling and reuse while technology promoted!**

# Valuing water resources- Turning **detained flood** into **water resources**

## Cultivate Water Incentives

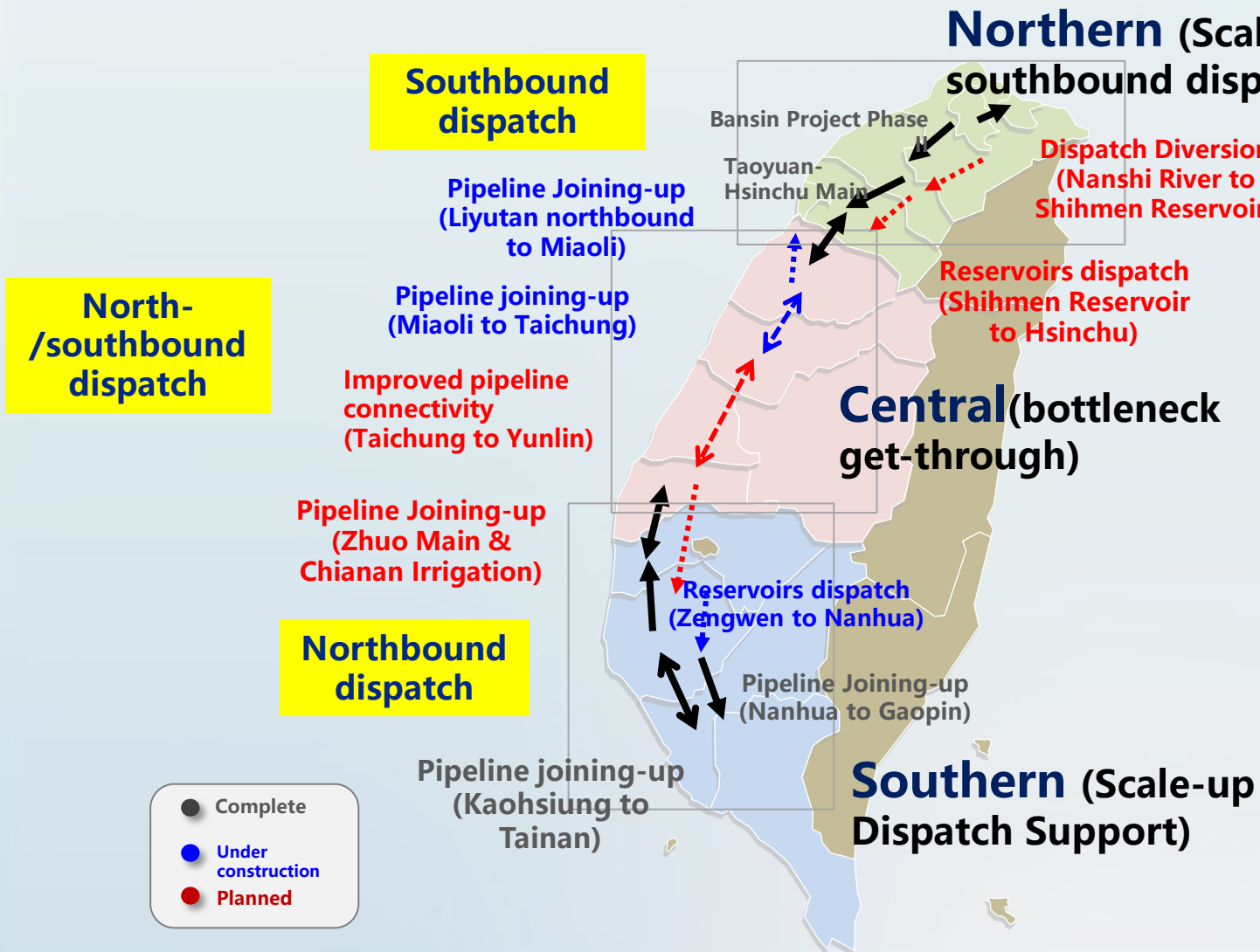
### Upstream catchment of Meiyou River

- ✓ Overflow weir, gate controls
- ✓ Storing up to **940,000 tons**





# Valuing Water Resources- Pearl Beads Project, sharing water resources



# Valuing Water Environment- Integration the **Blue & Green** for a new **water environment**

Water environment integrating **environment, ecology, landscaping, aesthetics** and **flood prevention**

Yuejin Harbor, Tainan



**Ex situ conservation**



**Manmade nest box**



**Restoration of  
indigenous flora habitat**

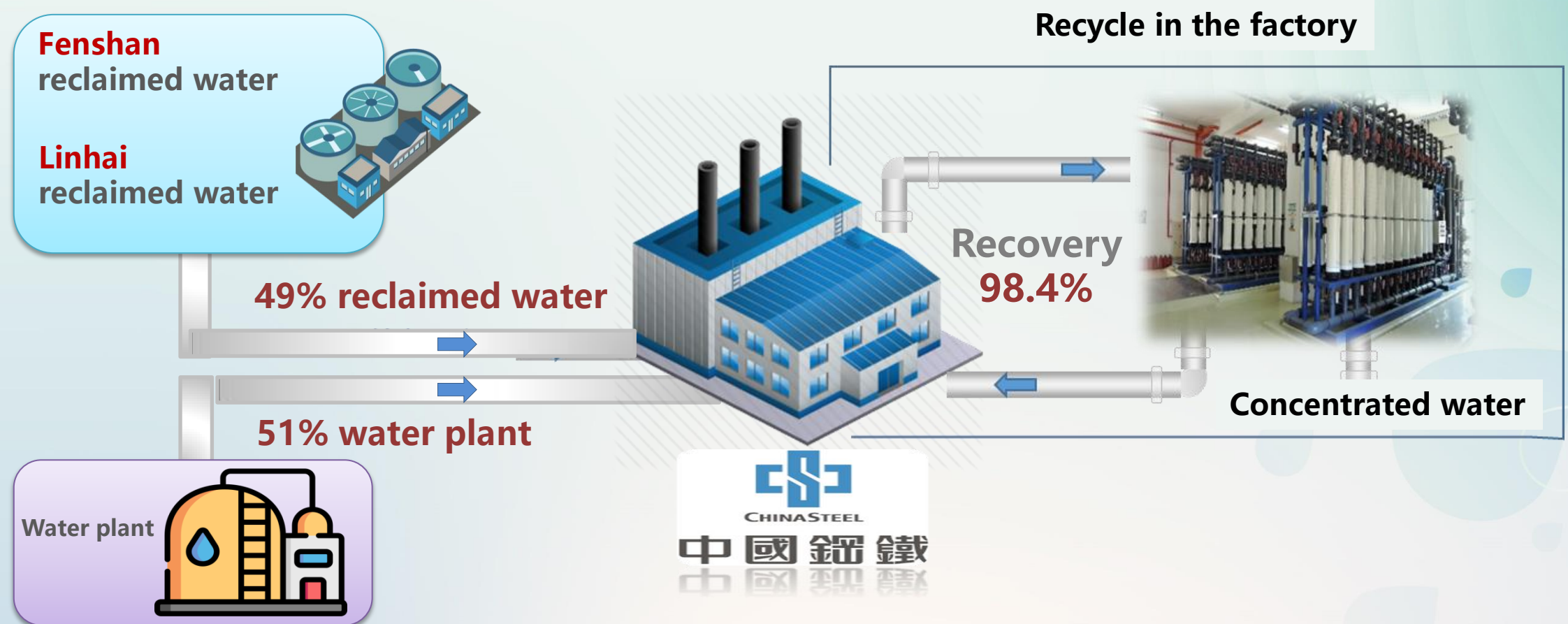


**Constructed wetland**



# Recycling and Reuse- ESG vs Businesses vs Reclaimed Water

- ✓ **Improving reuse rate: 88.39%** among science parks; **72.9%** among industrial parks
- ✓ **Government: built 11** reclaimed water plants; businesses support **reclaimed water**



# Experiences Share & Exchange from Taiwan

## ■ Thinking, action, & technology:

Thinking transformation→ cherish water resources;

Action-based conservation→ value water environment;

Technology application→ recycle and reuse.

## ■ Cross-domain cooperation & public-private partnership:

Climate disasters reduction by government-business-public participation;

Sustainable water by cross-domain cooperation & public-private partnership.





*Thank you!*