Global Water Summit

Planning for Future Water and Smart Water Management in Taiwan



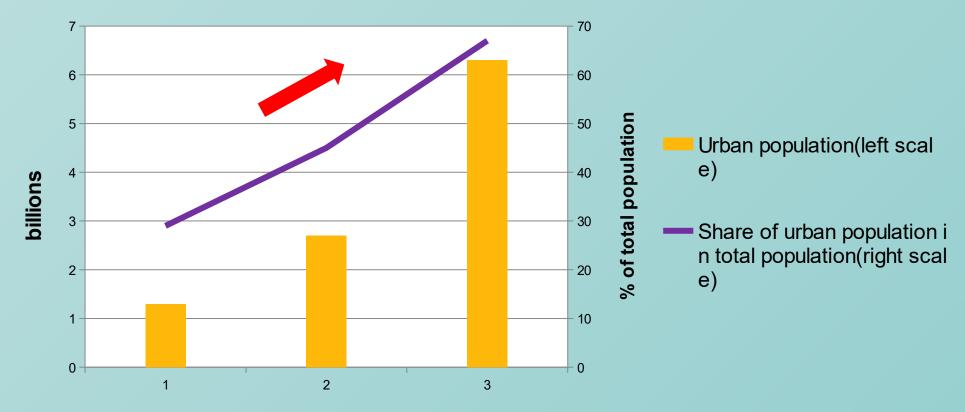
Dr. Chien-Hsin Lai, Director-General Water Resources Agency (WRA), Ministry of Economic Affairs (MOEA)

Outline

- I, Challenges
- II、 Water Problems in Taiwan
- III、 Effective Management

I、 Challenges Urban population growth is a global trend

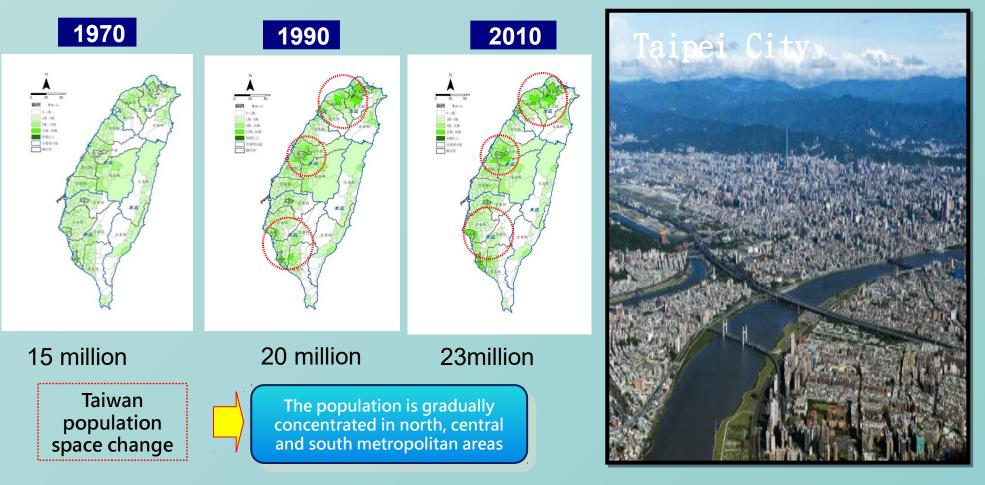
Global Urban Population Growth(1950 ~ 2050)



Source: World Economic Forum calculation based on World Urbanization Prospects(2014 revision)data.

Taiwan has the same trend....

Increase on water demand and discharge could exceed urban capacity



II Water Problems in Taiwan Due to natural environment and artificial interference, Water problems in Taiwan...

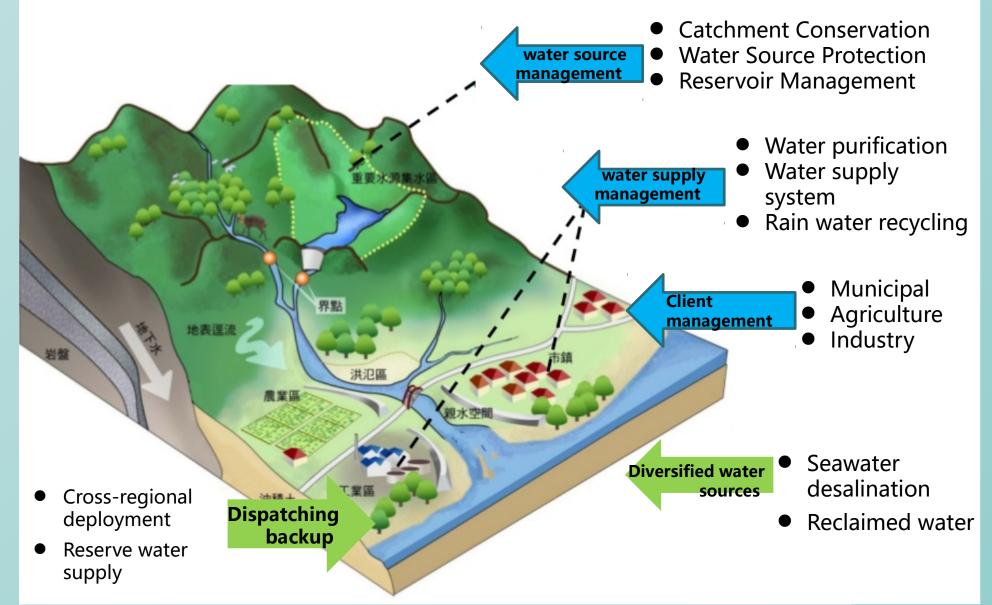


The rainfall in typhoon Morakot reached 2327mm in two days (Alishan station) Zengwen reservoir had no rainfall for more than 250 days

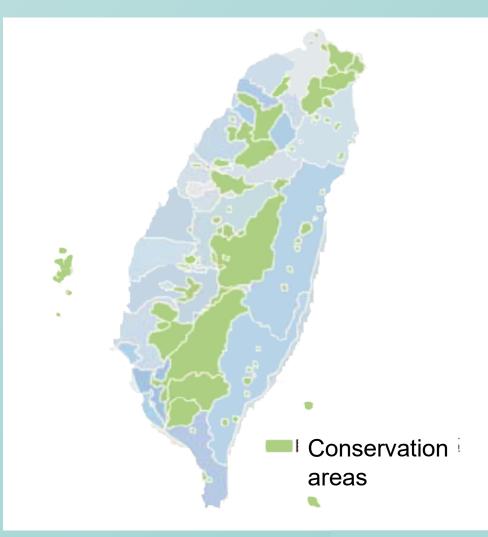
Heavy pollution in rivers 633.4KM(21.6%)

Source : ETtoday · Liberty times · United Daily News · EPA

III、 Effective Management



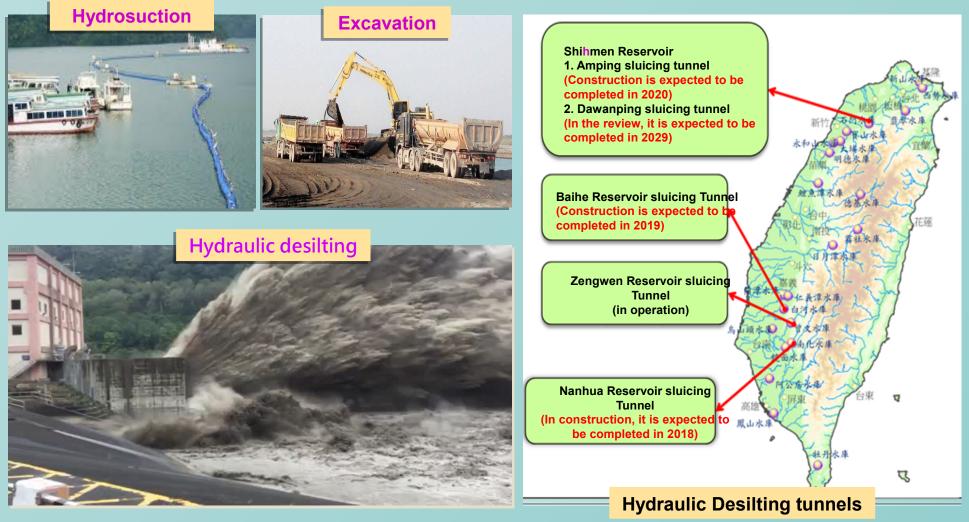
1. Land use control in the reservoir catchment



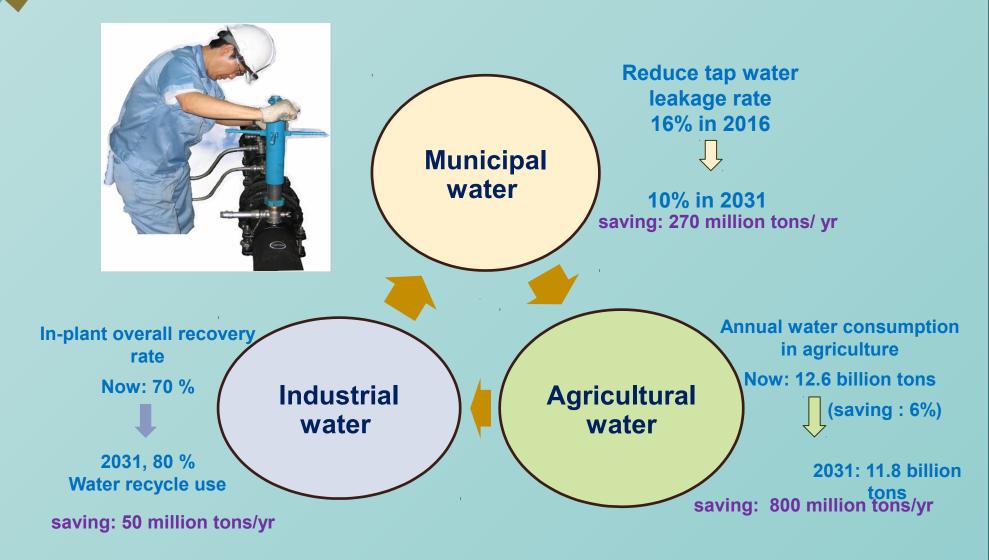
- Taiwan has set up 114 water quality and quantity conservation areas.
- Strictly control land use and development.
- Compensation mechanism for restricted areas.

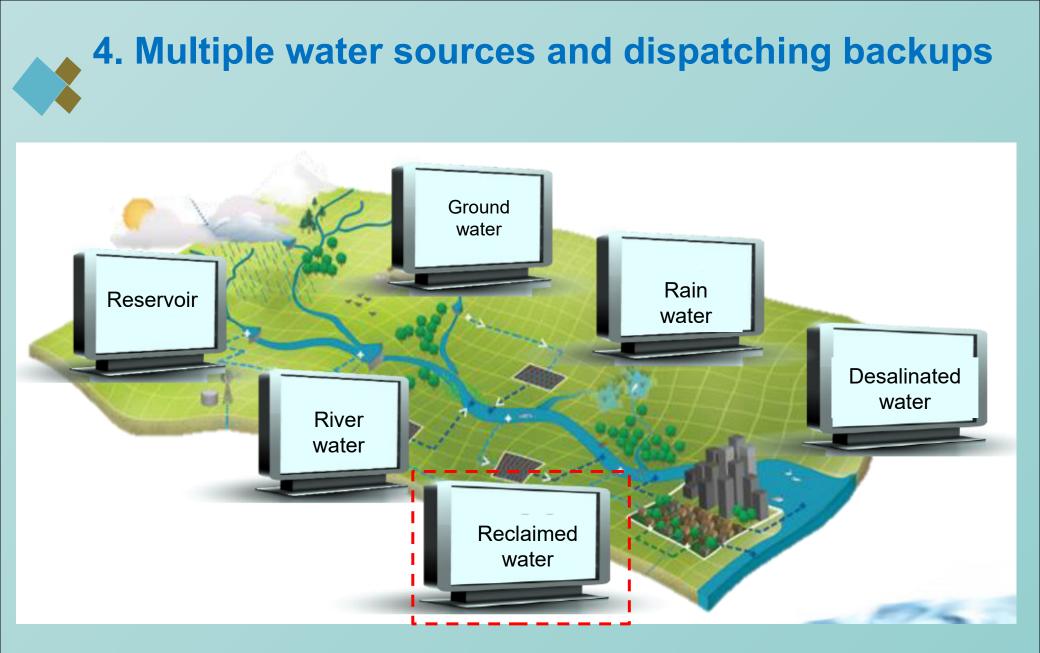
2. Maintain reservoir capacity

Strengthening dredging and sediment-sluicing facilities in 13 major reservoirs



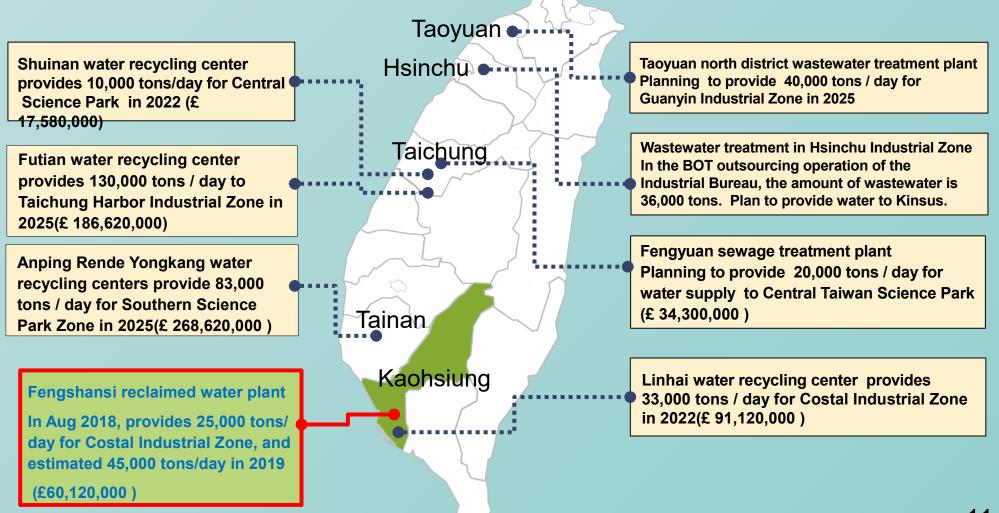
3.Water saving- Enhancing conservation for each target





Reclaimed water-- use each drop twice

- Promote reclaimed water plants all around Taiwan
- Prioritize reclaimed water for industrial usage



5. Runoff distribution, outflow regulation

Bills signed on May 29, 2018



6. Smart water management Smart Irrigation Papa Smart Sec System Facilities mart Grid **Smart Flood** Prevention **Smart Water Disclosure** 13



Thank you for listening!



Photoed in Taichung city, Taiwan