

International Development Research Centre Centre de recherches pour le développement international



Climate adaptation in Tainan Creating a Sponge City



Hsien-Wei Lee

Director-general of Environmental Protection Bureau of Tainan City Government , Taiwan 2016.07.06



About Tainan

Nontou

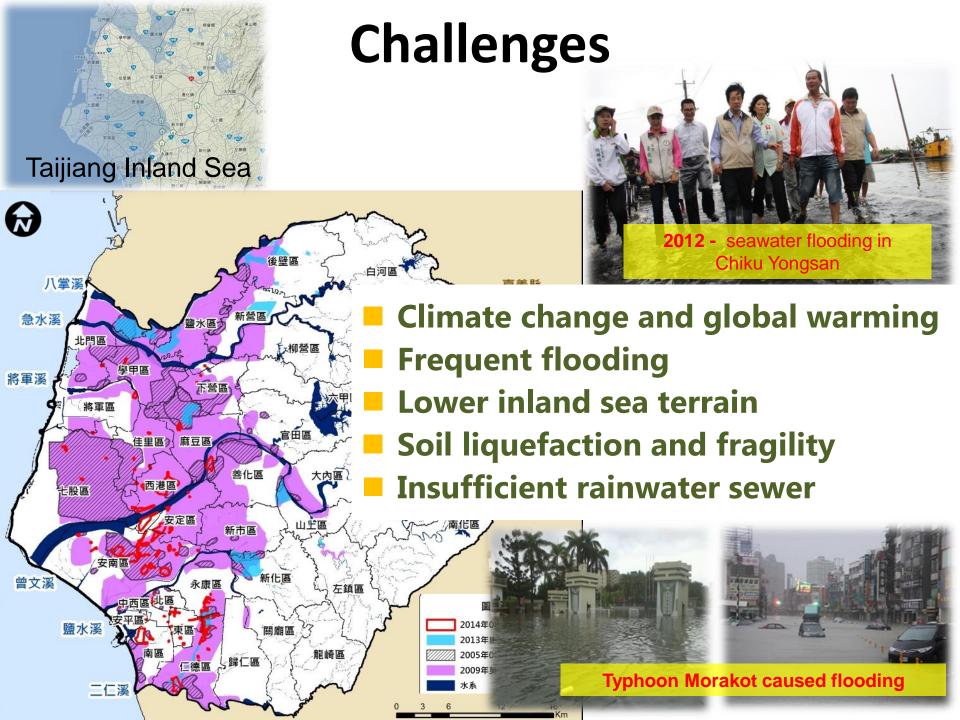
Pingtung

Taitung

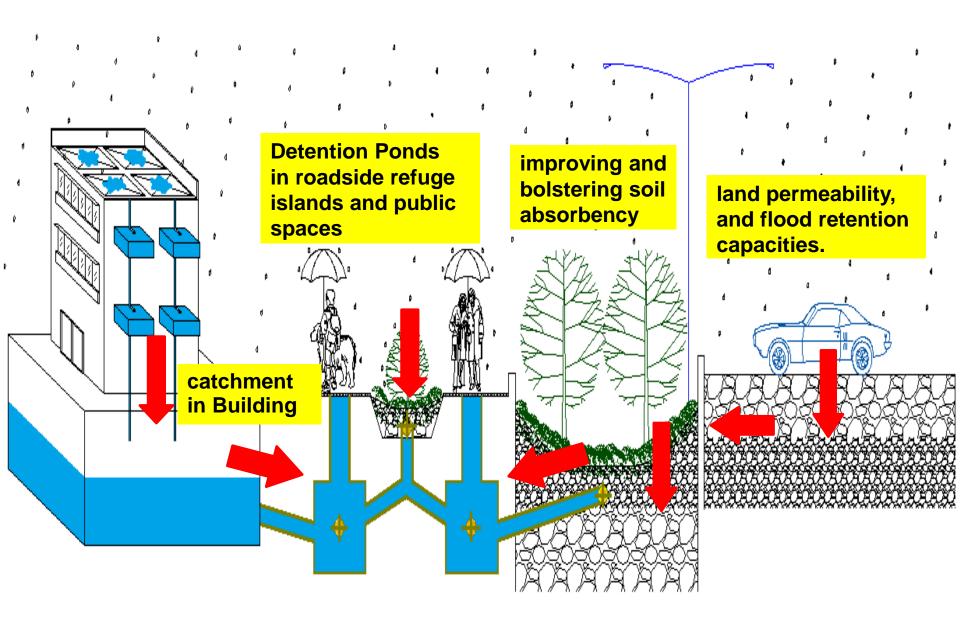
Pengh

Area:2,192km²(Bonn,141Km²); 37 districts **Population:1.88million people(Bonn,324thousand)** 1,280,000 motorcycles and 656,000 cars Livable city full of culture, ecology and economy

Tainan city's aerial view.



Urban planning and Drainage





Create sponge city with zero surface runoff

Retention Pond Setup in public open spaces



Green roof setup



Retention Ponds embedded in roadside refuge islands

Setup of floodgate



Public rainwater regulation pools

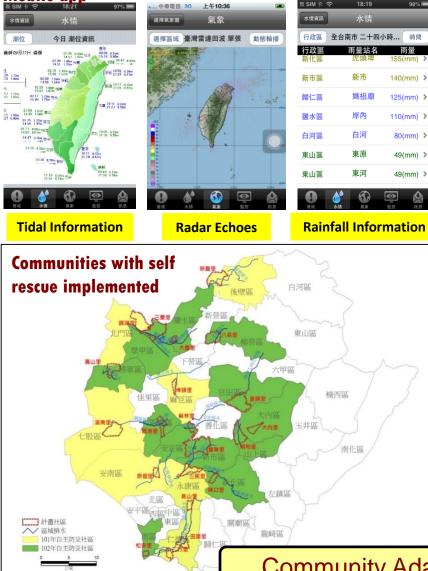
Legal grounds greening



Community resilience

善市 TAINAN

Mobile app

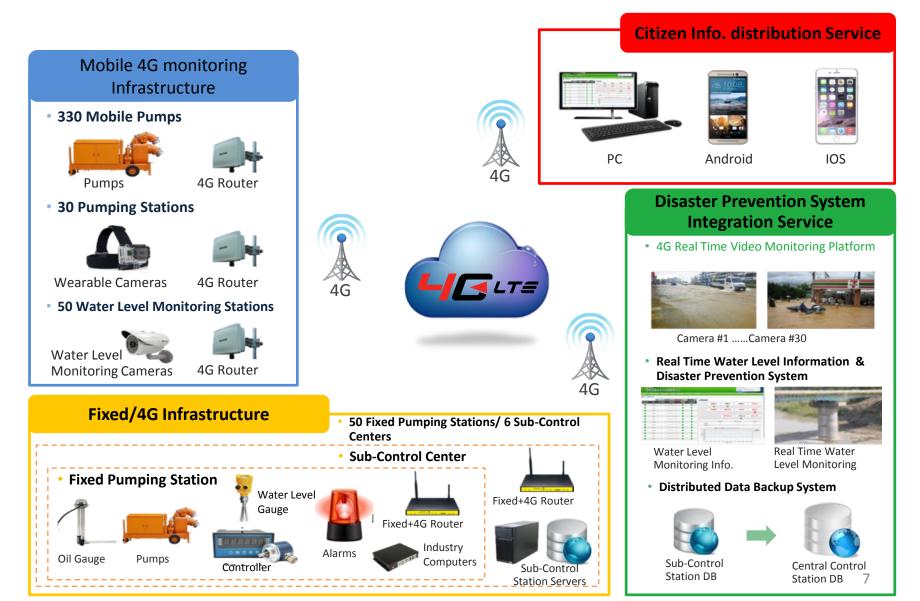




Community Adaptation workshop and Flood Prevention Drill

Smart Water Resource Disaster Prevention







Conclusion and VISION



Sustainable Development and Quality Life

Do right things at right time with Scientific knowledge! Smart Living with Changing Climate!

