Planning flood resilient city in Nonthaburi, Thailand



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- Former Municipality Clerk

General Information about Nonthaburi Municipality





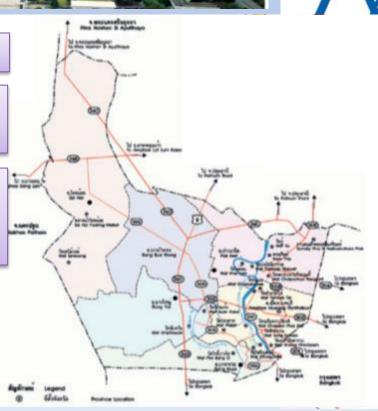
Area: 38.9 sq.km.

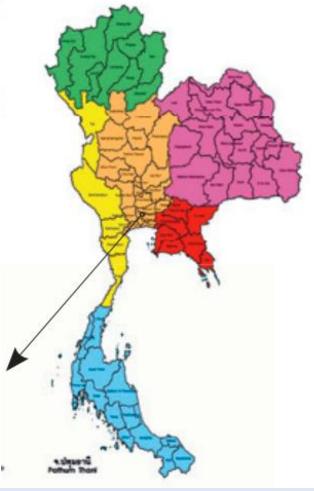
Population:

256,256 people

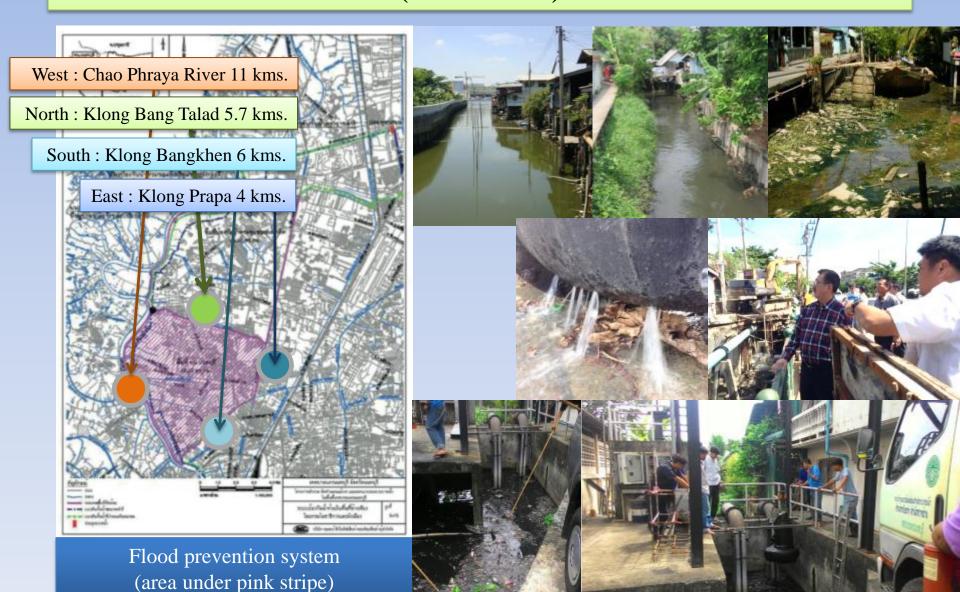
Number of Households:

129,374 households





Existing disaster risks and vulnerabilities (FLOOD)



Flooding risks and vulnerabilities to the human lives and city's infrastructure and public services

















Actions/Response Designed and Taken by City



Actions/Response Designed and Taken by Multi-stakeholders



Challenges

Government

- Lack of budget for large construction project
- Insufficient of materials and equipment
- Coordination among government organizations ineffective
- The amount of officials were not enough and exhausted
- Nonthaburi municipality is prone area
- Laws and regulations are ineffective

People/Private sectors

- People become alert and cooperative to the municipality when the situation went worse
- They were in panic and did not understand how the municipality worked on flood prevention
- Volunteers did not understand how to pack sandbags, and built an effective barrier line
- No flood evacuation training

Infrastructure

- No permanent flood protection dam along the Chao Phraya River
- Watergates, drainage system and pumps were not efficient
- Canals could not drain properly due to shallowness
- Insufficient drainage system
- Building structure intruded public area and blocked the waterway

Key lessons learned from Flood Protection Management

1. POSITIVE THINKING

2. FACTORS OF SUCCESS











TECHNIC, TIME



EVALUATION



ADMINISTRATION



MANPOWER



SPIRIT, SACRIFICE



OPPORTUNITIES/