3rd High Level Seminar on Environmentally Sustainable Cities

Siem Reap, Cambodia

Adaptation for Cities:

Urban climate resilience of Thai cities

Thailand Environment Institute 7 March 2012



สถาบันสิ่งแวดล้อมไทย Thailand Environment Institute

Urban Climate Resilience Concepts



Urban = 'City' = Nakorn Municipality

With urban development, population growth Urban = Nakorn +smaller municipalities + sub-district administrations

Climate resilience

- Mitigation and adaptation
- Long-term capacity to deal with change and continue to develop
- Shared learning of multi-stakeholders

Building resilience to climate change in urban context

Development of long-term strategies addressing uncertainties
Shared learning / lessons learned

But most cities face urgent / immediate issues (urban challenges + natural disasters)



Thai cities and flood disasters

2011

- Bangkok
- Northern and Central

provinces

- Direct and indirect impacts
- High damage costs



Thai cities and flood disasters



2010

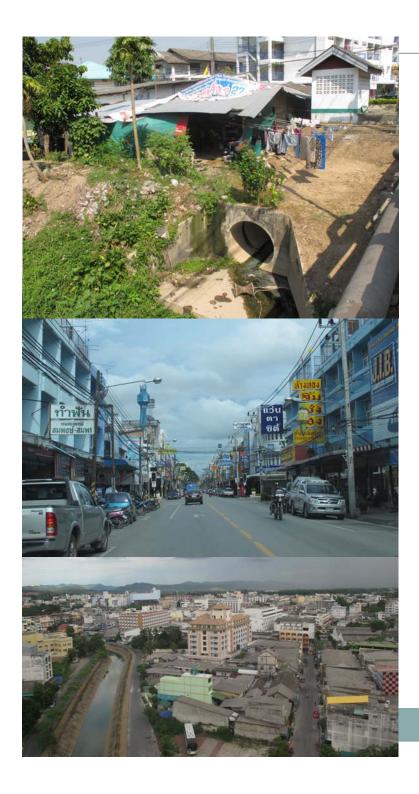
- Hat Yai (also 2000)
- Southern provinces
- Northern provinces





Key issues

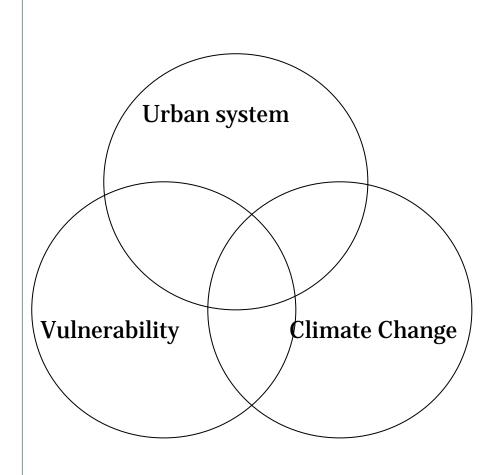
- Access to information
- Awareness
- Participation
- Coordination
- Early warning system
- Preparedness
- Technical / scientific data
- Local knowledge



Challenges

- Rapid urbanisation
- Urban land use change
- Economic growth and development
- Natural resource demands
- Climate risks
- Vulnerable / marginalised community groups

Building resilience practices



Thai cities

- Unplanned urbanisation, urban development, land use change contribute to climate risks

- Governance issues

Building resilience practices

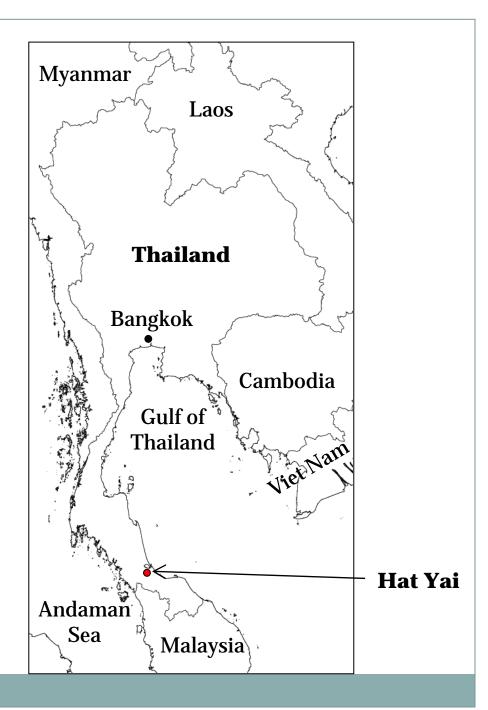
- Shared learning dialogues
- Multi-stakeholder process
- Participation process
- Vulnerable / Marginalised community groups
- Vulnerability Assessment
- Identification of priorities and needs
- Linking knowledge and practice

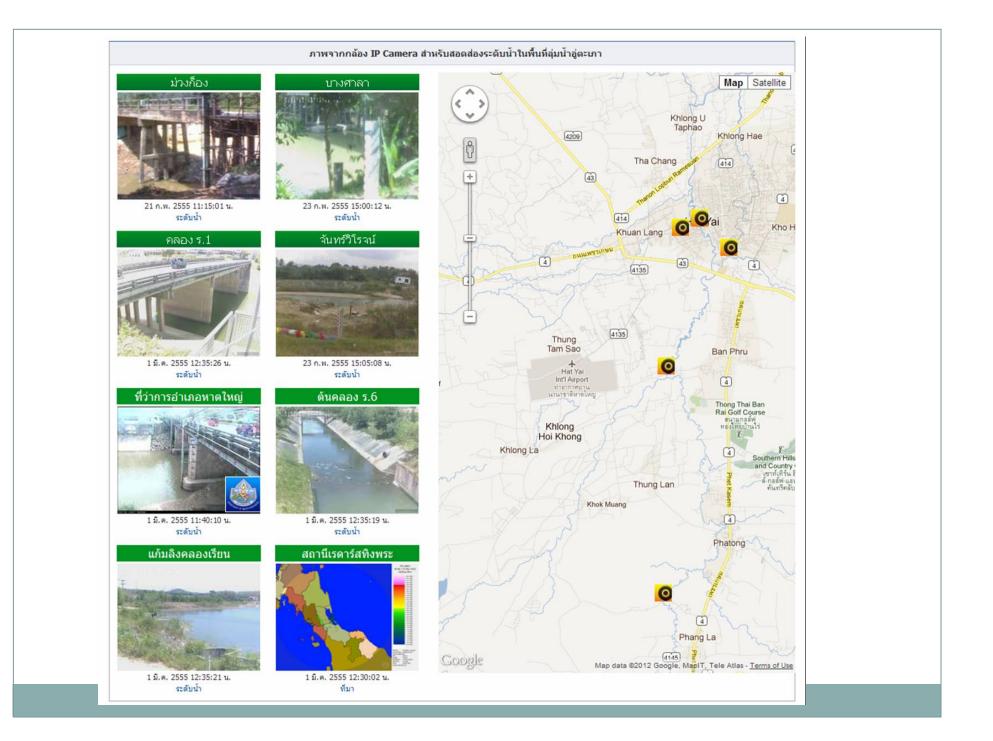


Building resilience practices

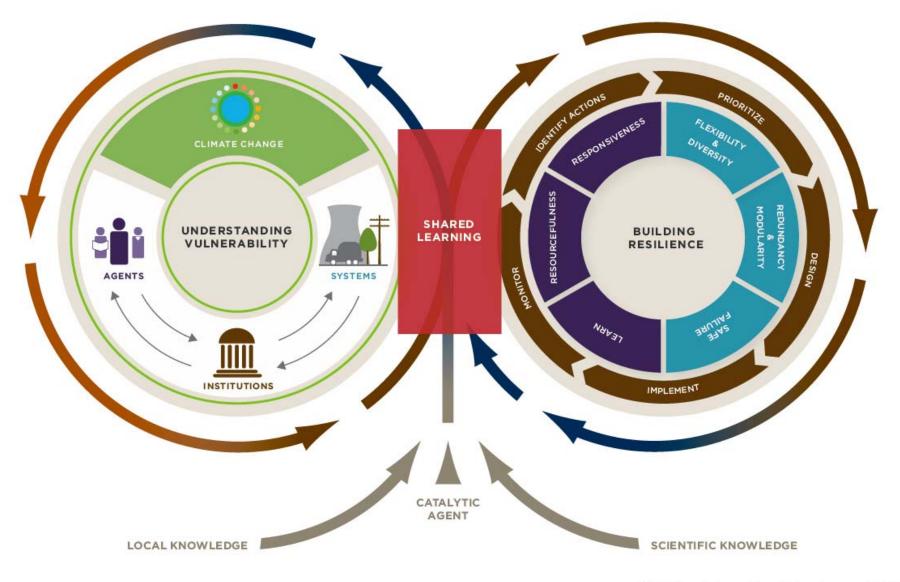
Multi-stakeholder process
HatYaiwebsite for public
flood monitoring
Coordination centre,
independent of municipality
Participation of
communities to plan and
design flood emergency
responses

- Intervention linking urban land use, flood management and climate change





Urban climate resilience framework (URF)



ISET/Arup International Development 2011