





Participatory Vulnerability Assessment Process

Strengthening Urban Climate Governance Project (SUCCESS)







This presentation

- 1. SUCCESS Project Framework
- 2. Vulnerability Assessment Process
- 3. Vulnerability Assessment Methodologies







SUCCESS Vulnerability Assessment Process





Select location

- Sub-district boundary
- Municipality boundary
- Community level which communities, how many communities





Situation Analysis

- Scoping
- Big picture
- Understanding physical, social, economic and environmental changes
- Drivers of changes
- Implications of changes









Situation Analysis

Past to Present What has changed? How? What are key drivers? e.g. land use change, municipality's development plans







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Situation Analysis

Past to Present What is the current situation?





Situation Analysis

People / social

- Individuals / families / households / community groups (e.g. women, low-income, urban poor, disabled, elderly, marginalised)
- What is the current situation?
- What are important problems?

- Important urban systems and infrastructure (e.g. water, food, electricity, sanitation)
- What is the current situation?
- What are important problems?





Situation Analysis

People / social

- Individuals / families / households / community groups
- Important problems faced by different individuals, families, households, community groups
- Access to urban systems and infrastructure – understanding inclusiveness, inequalities

- Important urban systems and infrastructure (e.g. water, food, electricity, sanitation)
- Provision and services provided by different government agencies and departments
- Operation and maintenance
- Policies, plans, rules, practices







Assessments



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People / social

 Sustainable Livelihoods Approach



- Water system
- Agents, urban infrastructure, institutions



The Sustainable Livelihoods Approach



Capital Assets

- Human capital health, education, knowledge, skills
- Social capital networks, connections, relationships
- Natural capital land, water
- Physical capital infrastructure, house, water supply, sanitation
- Financial capital savings, debt, wages



Urban systems and infrastructure

Urban – Water System (example)

- Agents water users
- Urban systems and infrastructure
- Ecosystems
- Institutions policies, plans, strategies, law, regulations, formal and informal practices









- Agents
- Urban systems, infrastructure, technology
- Ecosystems
- Institutions











Past experiences Past disasters / previous crises

People / social	Urban systems and infrastructure
 Choose a past event (e.g. flood disaster in 2010 or Typhoon Pa Buk in 2019) 	 Under the same event (i.e. flood disaster in 2010 or Typhoon Pa Buk in 2019)
 What happened? Preparedness 	 What happened to urban systems and infrastructure? Failures?
 Coping Recovery Funded by SUCCESS 	 Responsibility of government agencies / departments / municipalities

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Climate change

- Changes in seasons = dry season or summer is longer and hotter, winter is shorter and warmer, rainy season arrives later and is shorter
- Changes in frequency and intensity of extreme weather
- Changes in patterns, frequency and intensity of storm patterns
- Changes in rain patterns
- Sea level rise
- Changes in average temperature





- Changes in weather patterns (temperature, rainfall, seasonal shifts, extreme weather events) are over long term
- Year to year variations





- We are already living with climate change
- The weather becomes more unpredictable shocks and surprises
- Extreme weather events will occur more often
- Preparation and decisions are more difficult to make

e.g. when to store for water, when to prepare for flood protection and how long for







What will happen if existing problems are worse? What will happen if disasters / crises occur every year?

People / social

Urban systems and infrastructure



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People / social

- What will happen if 2010 flood disaster or Typhoon Pa Buk occur again and again?
- What happens if cannot work for 1 week
- What happens if no running water for 1 week
- What happens if flooded for 1 week

- What level of rainfall before reaching crisis
- What level of prolong period of no rain before reaching crisis
- How many days if urban systems and infrastructure fail or stop working before reaching crisis
- What level of floods is acceptable (depth / duration) before reaching crisis





Vulnerabilities



People / social

- Need to understand why some individuals / families / households / particular community groups (e.g. women) are vulnerable
- Need to understand the <u>differences</u> in terms of uneven impacts and inequalities in accessing urban systems and infrastructure among different people

- Need to understand <u>roles and</u> <u>responsibilities</u> of government agencies and departments, and municipalities in terms of maintenance and operation of urban systems and infrastructure
- Need to understand <u>how</u> urban systems and infrastructure are operated
- Need to understand <u>why</u> there are failures

SUCCESS Vulnerability Assessment Process

Select location

Situation Analysis

Identify individuals / families / households / community groups (e.g. women, low-income, urban poor, marginalised, disabled, elderly)

Design data collection, survey questions, indicators

Data collection and analysis

Identify important urban systems and infrastructure Identify relevant government agencies, departments, municipality divisions

Design data collection, survey questions, indicators

Data collection and analysis



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Understanding vulnerabilities

Tools and indicators

- Tools and indicators for assessments
- Sustainable Livelihoods Framework (SLF)
- Urban Climate Resilience Framework (UCRF)
- UN-ISDR Self-Assessment Tool (LG-SAT)





Methods for data collection



- Interviews
- Video / photostory
- Case studies = stories
- 1 family = 1 story = 1 case study
- 1 community group (e.g. women / disabled) = 1 story = 1 case study





SUCCESS Project For more information

• Please contact - <u>successprojectinfo@gmail.com</u>

For updates and resources, please see https://www.facebook.com/UrbanClimateResilienceThailand/

www.tei.or.th/thaicityclimate/success.html



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