

Enhancing Urban Resilience Through An Integrated Approach

Shu ZHU

Regional Director, ICLEI East Asia Secretariat

Jan 2022



ICLEI-Local Governments for Sustainability

Global Sustainable Development through Local Actions

ICLEI—Local Governments for Sustainability is a global network of more than 2,500 local and regional governments committed to sustainable urban development. Active in 125+ countries, we influence sustainability policy and drive local action for low emission, nature-based, equitable, resilient and circular development.



ICLEI Pathways

The Five ICLEI Pathways are designed to create systemic change. The pathways are a framework for designing integrated solutions that balance the patterns of human life and the built and natural environments.



LOW EMISSION DEVELOPMENT



NATURE-BASED DEVELOPMENT



EQUITABLE AND PEOPLE-CENTERED DEVELOPMENT

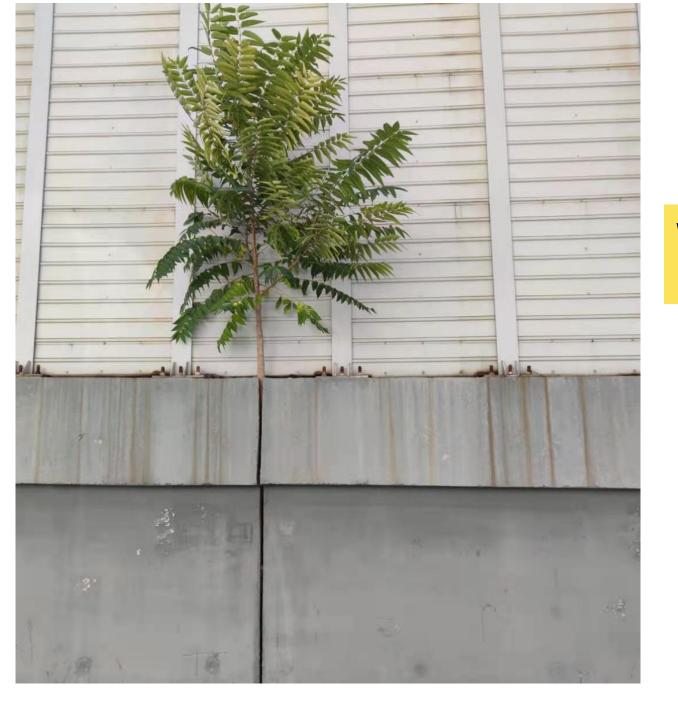


RESILIENT DEVELOPMENT



CIRCULAR DEVELOPMENT

They are a basis for sustainable urban development that considers the complexity or urban systems. The pathways encourage **HOLISTIC THINKING** to ensure that ICLEI optimizes our impact.



Why urban resilience?















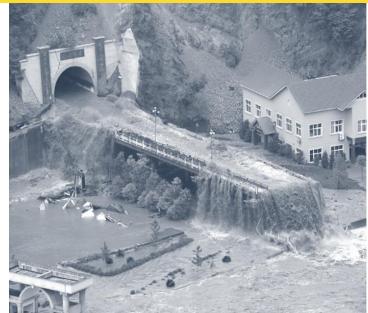






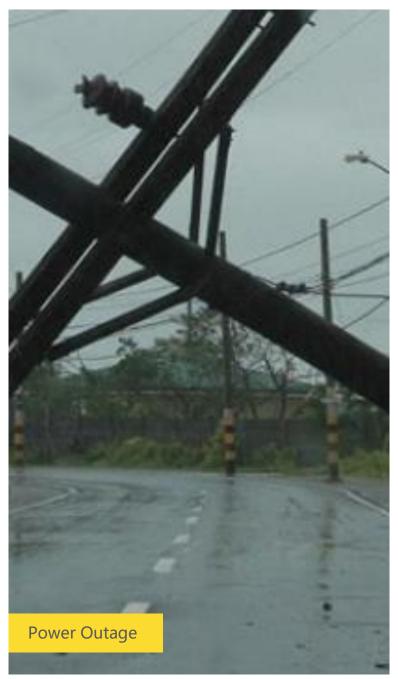
CRITICAL INFRASTRUCTURE IS PRONE TO RISKS













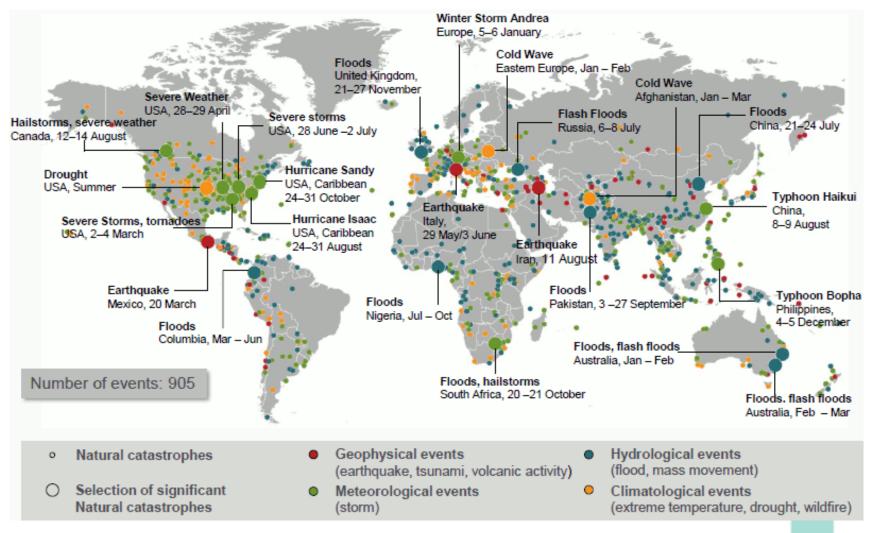






Hazards and Catastrophes







Resilience & Sustainable Development

RESILIENCE

is the capacity and ability of a community/city to withstand stress, survive, adapt, bounce back from a crisis or disaster and rapidly move on.

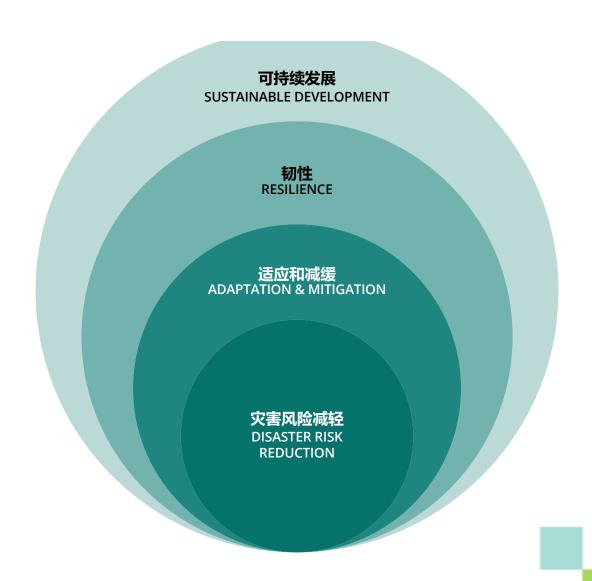
RESILIENCE DEVELOPMENT

is more than just successful climate change adaptation - water, energy, food security, emissions reductions, ecosystem protection, disaster risk reduction must all be integrated into City Development Planning



Resilience & Sustainable Development

Resilience leads to the sustainable development at local level by reduced vulnerability and exposure to natural and man-made disasters and increased capacity to cope with climate challenges and other unforeseen chronic stresses.



Resilient City



A **RESILIENT CITY** is prepared to absorb and recover from any shock or stress while maintaining its essential functions, structure, and identity as well as adapting and thriving in the face of continual change.

ICLEI introduced the notion of **Resilient Cities** at 2002 UN World Summit on Sustainable Development and forged partnership on urban resilience with UNDRR, UNDP, UNHABITAT, UNEP etc.

Resilience Principles



Flexibility Decentralization

Redundancy Buffer Capacity

Diversity Resource Efficiency







Understanding Urban Resilience

- Cities are currently coping with diverse types of risks and hazards
- Cities have a great learning loop from the experience, which improve their governance capacity consistently
- The outbreak of COVID-19 is a reliable test for urban resilience
- Cross-departmental coordination and cooperation is being generalized, to reach multiple effects
- The need on systematic understanding of urban resilience is profound

Challenges

- Need for greater awareness and understanding
- Weak political commitment and mandate for resilient actions
- Lack of cross-department and policy coordination mechanism
- Inadequate laws and regulations on urban resilience
- Limited technical and financial capacity
- Lack of data for risk assessment and resilient planning

Recommendations

• Enhance the understanding on urban risks and the importance of urban resilience

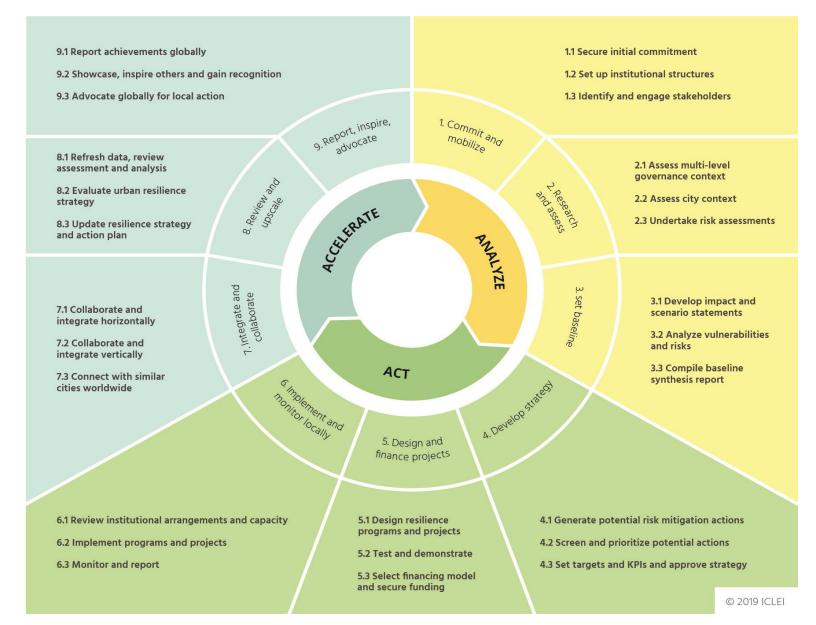
• Introduce resilience as goal in urban (sustainable development) strategy

• Mainstream and integrate resilience and climate change adaptation in urban planning

- Carry out systematic vulnerability and risk assessment
- Establish resilience management function in municipal governments



ICLEI Urban Resilience Planning Circle



- ICLEI's methodology for local governments to urban climate resilience
- Development stages and needs defined in 3 phases and 9 steps
- Provide evaluation, support, and analysis at each phase and stage



Thanks for your attention!



Shu Zhu

ICLEI East Asia Secretariat Regional Director shu.zhu@iclei.org eastasia.iclei.org

