



National Institute for
Environmental
Studies



Integrated, resilience-based planning for climate change mitigation and adaptation in Asia-Pacific Cities

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5th Asia-Pacific Climate Change Adaptation Forum

S4-PS.4 Informing decision-making and effective policy reform with research on adaptation measures

October 18, 2016

COLOMBO, SRI LANKA

Background, objectives and scope

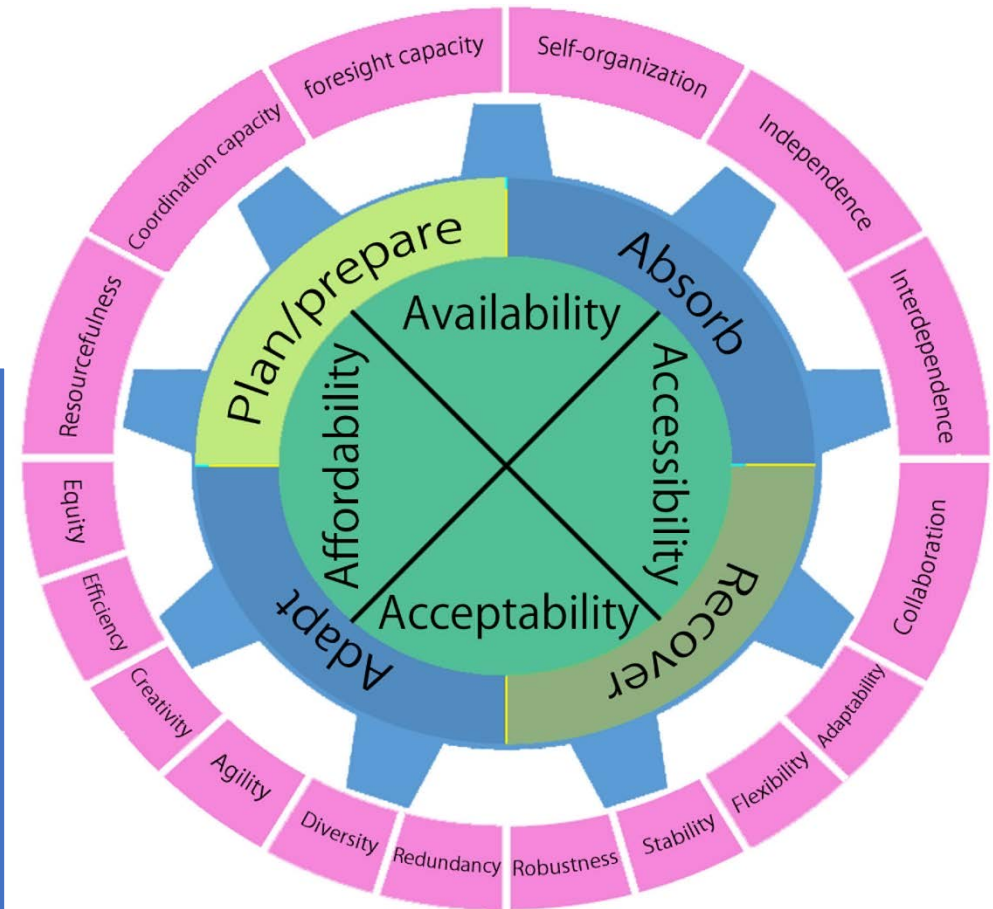
- Increase in frequency and intensity of disasters
- Vast literature of urban community resilience
- Synthesize the wealth of information
- The increasing number of targets (local, national and international)
- Increase in funding available for DRR and resiliency enhancement

- Reducing vagueness/ operationalizing the concept
- Benchmarking performance against peers
- Measuring progress in achieving goals
- Enhancing accountability of authorities
- Identifying gaps and prioritize resource allocation
- Functioning as a risk communication tool
- Functioning as a planning support system
- Lower insurance rates could be rewarded to projects
- Participatory approaches can enhance social capital

Multiple dimensions and characteristics

- Environmental and resource management
- Society and well-being
- Economy
- Built environment and infrastructure
- Governance and institutions

- Different target audience
- Hazard type
- Methods of development
- Major approaches towards assessing resilience
- Assessment methodology
- How to present results



The Structured Interview Matrix Tool

- **What are the elements of the built environment that influence community resilience? What is the relationship between urbanization processes and community resilience?**
- **How does urban resilience relate to adaptation, recovery and sustainability? What are the synergies/tensions?**
- **What are the elements of the institutional/regulatory context that enable and/or constrain building resilience?**
- **What are the challenges of conducting assessment and utilizing assessment results to inform decision making?**

Workshop on Tools and Indicators for Assessing Urban Resilience

December, 2015, The University of Tokyo, Japan

Over 30 participants from 15 different countries

Nine early-career researchers from the Asia-Pacific region

Further information at:

<http://www.cger.nies.go.jp/gcp/workshop-on-tools-and-indicators-for-assessing-urban-resilience.html>



For further details please see the original articles

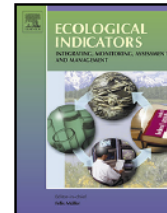
Ecological Indicators 69 (2016) 629–647



Contents lists available at ScienceDirect

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journal homepage: www.elsevier.com/locate/ecolind



A critical review of selected tools for assessing community resilience

Ayyoob Sharifi

International Journal of Disaster Risk Reduction 18 (2016) 115–124



Contents lists available at ScienceDirect

International Journal of Disaster Risk Reduction

journal homepage: www.elsevier.com/locate/ijdr



On the suitability of assessment tools for guiding communities towards disaster resilience

Ayyoob Sharifi*, Yoshiki Yamagata



Renewable and Sustainable Energy Reviews 60 (2016) 1654–1677



Contents lists available at ScienceDirect

Renewable and Sustainable Energy Reviews

journal homepage: www.elsevier.com/locate/rser



Principles and criteria for assessing urban energy resilience:
A literature review

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Thanks for your
attention