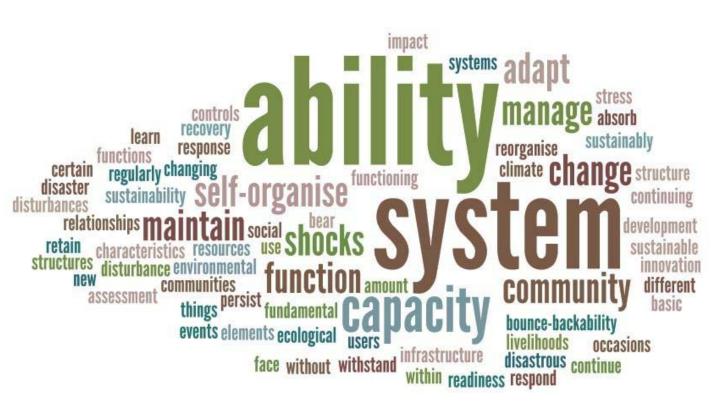


Resilience for Cities and Regions: What It Means, and Why It Is Important

Aidan Hughes | Arup UCLA Lake Arrowhead Symposium on the Transportation—Land Use—Environment Connection October 19, 2014











Resilience: the capacity of cities to function so that the people living and working in cities – particularly the poor and vulnerable – can survive and thrive no matter what stresses and shocks they encounter.

City Resilience Framework. (2014).
The Rockefeller Foundation | Arun n. 7

The Rockefeller Foundation | Arup, p. 7.





"In order to get a grip on it, one must be able to relate resilience to other properties that one has some means of ascertaining, through observation."

Martin-Breen & Andries. (2011). *Resilience: A literature review*. The Rockefeller Foundation: New York City, p. 11.



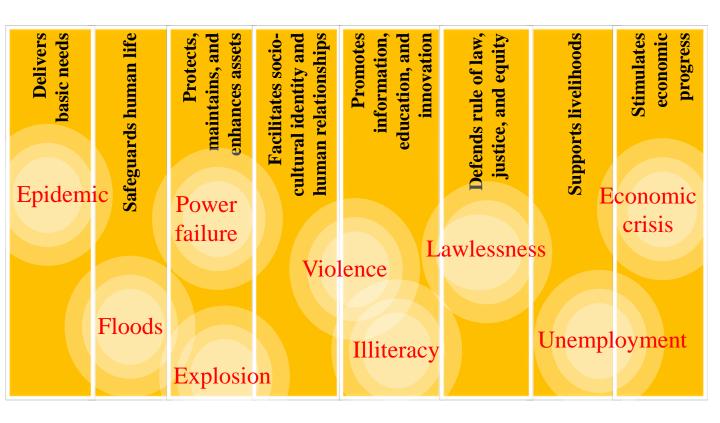


- Resilience is not an antonym for vulnerability, or a substitute for disaster risk reduction.
- *Urban* resilience has limitations to address: power relations, the poor, unexpected impacts.
- *City* resilience is about performance: the ability of a "system of systems" to continue to function.



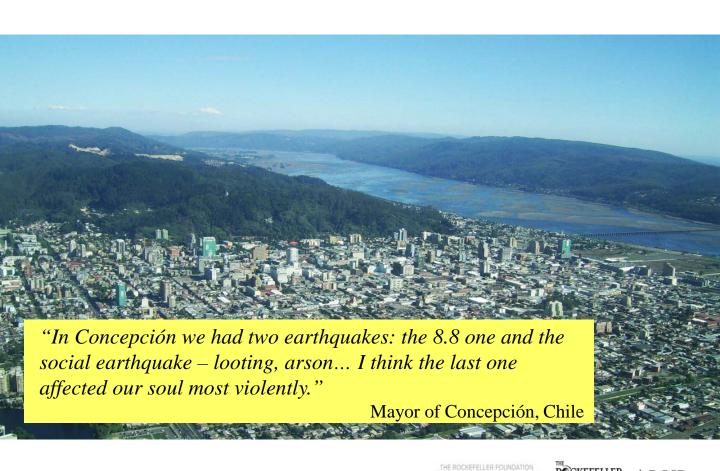








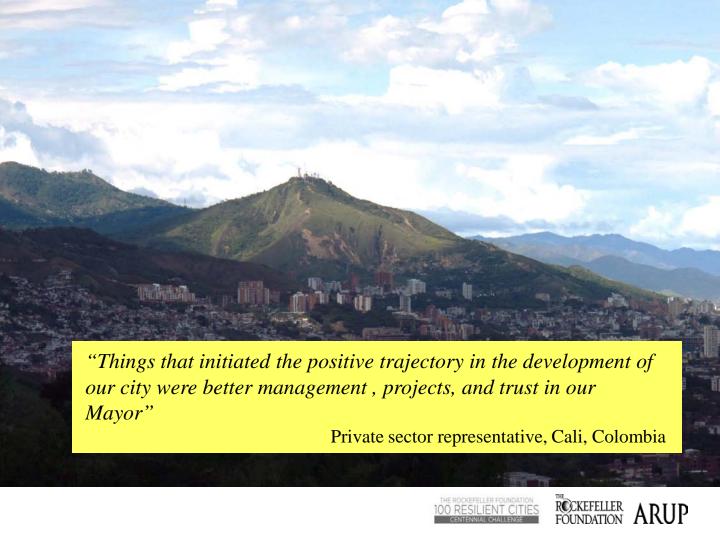
















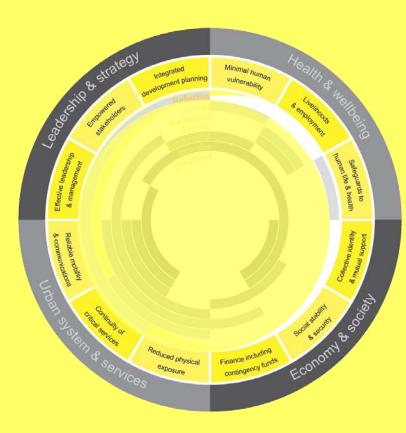












A "resilient city" is one where the needs in these four areas are met:

- Health and wellbeing
- Urban system and services
- Economy and society
- Leadership and strategy



Health & Wellbeing: People



Minimal human vulnerability



Livelihoods & employment



Safeguards to life & health





Urban Systems & Services: Place



Reduced physical exposure



Continuity of critical services



Reliable communications & mobility





Economy & Society: Organization



Collective identity & mutual support



Social stability & security



Availability of financial resources





Leadership & Strategy: Knowledge



Effective leadership & management



Empowered stakeholders



Integrated development planning





Qualities of a Resilient System



Reflective **Robust** Redundant **Flexible** Resourceful **Inclusive Integrated**







100resilientcities.org

rockefellerfoundation.org/our-work/ current-work/resilience

arup.com/cri



