PIONEERED BY THE ROCKEFELLER FOUNDATION

100 RESILIENT CITIES
URBAN RESILIENCE
Is the capacity of individuals, communities, institutions, businesses, and systems within a city to survive, adapt, and grow no matter what kinds of chronic stresses and acute shocks they experience.
CITIES NEED $57T IN INFRASTRUCTURE INVESTMENT THROUGH 2030

IMPLICATION:
Cities have a once-in-a-lifetime opportunity to incorporate resilient design into infrastructure projects
TOO MUCH OR TOO LITTLE WATER WILL SHIFT URBAN ECONOMICS

IMPLICATION:
Cities must radically rethink behavior and investment related to sea level rise, increased storms and flooding as well as drought combined with increasing demand from growing urban populations for clean water supply.

100 RESILIENT CITIES
INEQUITY AND SOCIAL COHESION WILL DEFINE THE RESILIENCE AGENDA

IMPLICATION:
City resilience strategies must focus on ways to fully include vulnerable populations
RESILIENCE
CHALLENGES
TRANSCEND
BORDERS AND
BOUNDARIES

IMPLICATION:
Cities will need to exercise and rely on coalition building and informal power

New York Times Infographics
1.4 million new people are moving into cities \textit{every week}.

People are drawn to cities as centres of economic activity, social connection, opportunity, and innovation.
100RC partners with cities around the world to help them become more resilient to the social, economic and physical challenges that are a growing part of the 21st century.
100RC AIMS TO SOLVE TWO PROBLEMS:

1. Cities are complex, siloed ecosystems

2. Existing solutions do not scale or reach cities efficiently
100RC provides cities 4 types of support to address these problems:

1. Funding to hire a CHIEF RESILIENCE OFFICER (CRO)
2. Support to develop a CITY RESILIENCE STRATEGY
3. A PLATFORM OF SERVICES to support strategy implementation
4. Membership in the 100RC NETWORK

To help complex urban systems organize and integrate around resilience.

To scale solutions efficiently.
Who Is The Chief Resilience Officer?

The CRO is a catalytic force, transforming the way cities organize themselves to better meet the challenges of building resilience in the 21st century. The CRO will lead the city’s resilience building efforts.

- Working across silos to create and implement a resilience strategy
- Serving as a senior advisor to the Mayor or municipal leader
- Promoting resilient thinking, and acting as both a local and global thought leader
- Coordinating resilience efforts across government and multi-sector stakeholders
- Liaising with other CROs, 100RC staff, and service providers via the network and platform
WHAT IS THE 100RC RESILIENCE STRATEGY?
The Strategy is a **tactical roadmap to build resilience** that articulates the city’s resilience priorities and specific initiatives for short-, medium-, and long-term implementation.

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**PHASE 1**
- Pre-Strategy
- Strategy Initiation

**PHASE 2**
- 2-3 Months
- Strategy Release
- 4-6 Months

**IMPLEMENTATION**

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**MORE RESILIENT CITY**

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**Tangible actions with widespread support drive resources and investment**
The 100RC Platform of Partners
The 100RC Global Network
Generating Value
Qualities of resilient systems

Resilient systems exhibit certain qualities that enable them to withstand, respond, and adapt more readily to shocks and stresses.

- **Reflective**: Able to learn
- **Robust**: Limits spread of failure
- **Flexible**: Has alternative strategies
- **Resourceful**: Can easily repurpose resources
- **Redundant**: Has backup capacity
- **Inclusive**: Broad consultation & communication
- **Integrated**: Systems work together
City Resilience Framework:

The 12 drivers in the City Resilience Framework collectively determine the city’s ability to withstand a wide range of shocks and stresses.
BUILDING RESILIENCE VALUE MEANS

EVERY INVESTMENT SHOULD HAVE MULTIPLE BENEFITS

INVEST IN FLOOD PROTECTION

- Shared assets strengthen outcomes
- Establish small businesses and jobs
- Design to minimize cascading failures
- Create public amenity
- Fosters long-term & integrated planning
- Fosters economic prosperity
- Supports livelihoods & environment
- Ensures social stability, security and justice
- Ensures public, healthy, green communities
- Provides & enhances natural and manmade assets
- Promotes leadership & effective management
- Provides reliable & mobile connectivity to residents
- Ensures continuity of critical services
- Provides leadership & effective management
- Empowers a broad base of stakeholders
- Meets basic needs
- Health & well-being
- Economy & society
- Infrastructure & environment
By applying a Resilience Lens, cities gain the **RESILIENCE DIVIDEND**

Instead of investing to reduce impacts and/or improving resilience in only in one specific area, the city makes **integrated decisions** which result in cost-savings, cost-avoidance and creating **multiple benefits** across multiple systems.

Design: Rebuild By Design

**FLOODWALL / PUBLIC ART DISPLAY**
NEW YORK CITY, USA
THE VIRTUOUS BENEFIT CYCLE of BUILDING RESILIENCE

INVESTMENT TODAY

RE-INVESTMENT RESILIENCE POOL

SAVINGS POST-EVENT OR BY PREVENTING EVENT
Case Study: Resilient New Orleans
Case Study: Resilient Rio de Janeiro
Case Study: Resilient Semarang
Case Study: Resilient Barcelona

Barcelona Resilience Week
14 – 18 March 2016 | Sant Pau Art Nouveau Site
Case Study: Resilient Berkeley

Fuel Usage in Gallons
(Commute and Fleet)

- 3.1 M (1990)
- 1.4 M (2011)
- 1.4 M (2012)
- 1.5 M (2013)

Phase 1: Survey of Resilience Priorities

- Facilities: Seismic and water/energy efficiency upgrades
- Seismic upgrades for homes and businesses
- Infrastructure improvements to prevent flooding
- Clean backup power at critical community facilities
- Community Emergency preparedness training
- Emergency preparedness training for businesses
- Fire risk reduction in most fire-prone areas
- Drought response and planning-water use efficiency
- Make housing inclusive and affordable
- Further improve access to public health services
- Increase civic engagement and cohesion
- Affordable access to education
- Skills training, employment support
- Promote economic diversity