Resilient
Oakland
Objectives

1. What is urban resilience and why does it matter?

2. What is the 100 Resilient Cities Initiative?

3. What is Oakland doing and how can you contribute?
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.
1. What is urban resilience and why does it matter?
ACUTE SHOCKS

Earthquake
Wildfires
Flooding
Hazardous materials accident
Severe storms and extreme rainfall
Terrorism
Disease outbreak
Riot/civil unrest
Infrastructure or building failure
Heat wave

CHRONIC STRESSES

Water Scarcity
Lack of affordable housing
Poor air quality
High unemployment
Homelessness
Changing demographics
Lack of social cohesion
Poverty/inequity
Aging
Infrastructure Shifting macroeconomic trends
Crime & violence

A city’s ability to maintain essential functions is threatened by both acute shocks and chronic stresses.
Sudden shocks or accumulating stresses can lead to social breakdown, physical collapse, or economic decline.
2. What is the 100 Resilient Cities Initiative?
Each member city will receive four types of support:

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
City Resilience Framework
Multiple factors contribute to resilience and there are multiple entry points for action.
<table>
<thead>
<tr>
<th>Drivers</th>
<th>Explanation</th>
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<tbody>
<tr>
<td>1 Meets basic needs</td>
<td>This is about the provision of essential resources required to meet a person’s basic physiological needs.</td>
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<td>2 Supports livelihoods &amp; employment</td>
<td>This relates to livelihood opportunities &amp; support. These enable a person to go about securing their basic needs. Opportunities might include jobs, skills &amp; training, or responsible grants &amp; loans</td>
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<td>3 Ensures public health services</td>
<td>This relies on integrated health facilities &amp; services, &amp; responsive emergency services. It includes physical &amp; mental health, health monitoring &amp; awareness of healthy living &amp; sanitation.</td>
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<td>4 Promotes cohesive &amp; engaged communities</td>
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<td>This is about community engagement, social networks &amp; integration. These reinforce collective ability to improve the community. It requires processes that encourage civic engagement in planning &amp; decision-making.</td>
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<td></td>
<td>5 Ensures social stability, security &amp; justice</td>
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<td>This includes law enforcement, crime prevention, justice, &amp; emergency management.</td>
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<td>6 Fosters economic prosperity</td>
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<td></td>
<td>Whilst driver 2 is about individual livelihoods, this is about the economy on a wider scale. Important economic factors include contingency planning, sound management of city finances, the ability to attract business investment, a diverse economic profile &amp; wider linkages.</td>
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<tr>
<td>7 Enhances &amp; provides protective natural &amp; man-made assets</td>
<td>This relies on environmental stewardship, appropriate infrastructure, effective land use planning &amp; enforcing regulations. Conservation of environmental assets preserves the natural protection afforded to cities by ecosystems</td>
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<tr>
<td>8 Ensures continuity of critical services</td>
<td>This results from diversity of provision, redundancy, active management &amp; maintenance of ecosystems &amp; infrastructure, &amp; contingency planning</td>
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<tr>
<td>9 Provides reliable communication &amp; mobility</td>
<td>Enabled by diverse &amp; affordable multi-modal transport networks &amp; systems, ICT &amp; contingency planning. Transport includes the network (roads, rail, signs, signals etc.), public transport options &amp; logistics (ports, airports, freight lines etc.)</td>
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<td>10 Promotes leadership &amp; effective management</td>
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<td>11 Empowers a broad range of stakeholders</td>
<td>This is underpinned by education for all, and relies on access to up-to-date information and knowledge to enable people and organisations to take appropriate action. Along with education and awareness communication is needed to ensure that knowledge is transferred between stakeholders and between cities.</td>
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<tr>
<td>12 Fosters long-term &amp; integrated planning</td>
<td>A holistic, considered vision, informed by data. Strategies/plans should be integrated across sectors &amp; land-use plans should consider &amp; include different departments, users &amp; uses. Building codes should create safety &amp; remove negative impacts.</td>
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</tbody>
</table>
NYC Blackout 1977

Economy & society

- Fosters economic prosperity
- Local economy
- Inward investment
- City budgets
- Economic linkages
- Business continuity
- Law enforcement
- Policing to promote safety and security
- Corruption reduction
- Deterrents to crime
- Community participation
- Local identity and culture
- Social support
- Promotes cohesive and engaged communities

100 RESILIENT CITIES
NYC Blackout 2003

Economy & society

- Promotes cohesive & engaged communities
- Social support
- Local identity and culture
- Community participation

Ensures social stability, security and justice

- Deterrents to crime
- Corruption reduction
- Policing to promote safety and security
- Law enforcement

Fosters economic prosperity

- Economic linkages
- Local economy
- Inward investment
- City budgets

100 Resilient Cities
Medellin, Colombia
1980s
Murders per 100,000 Residents, 1986-2005

Case Study: Resilient Medellin
Medellín, Colombia Today
3. What is Oakland doing and how can you contribute?
1. Developing a Resilience Action Plan

Phase 1:

- Fully understand Oakland’s resilience challenges and identify priorities for Action

MAP EXISTING PLANS AND INITIATIVES

RESILIENCE BASELINE

GAP ANALYSIS

PRIORITIZATION
The City of Oakland, local, regional and national organizations, and 100 Resilient Cities partners, work together to implement Oakland’s Resilience Action Plan
<table>
<thead>
<tr>
<th>Platform Partners</th>
<th>Hazard Risks Assessment Tool</th>
<th>Crowd-Sourcing and Data Management</th>
<th>City Resilience Index</th>
</tr>
</thead>
<tbody>
<tr>
<td>22 Platform Partners, with 29 services for a total current value of $81 million</td>
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<tr>
<td>The World Bank</td>
<td>Palantir</td>
<td>ARUP</td>
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<tr>
<td>Veolia</td>
<td>Swiss Re</td>
<td>Ushahidi</td>
<td>Sandia National Laboratories</td>
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<tr>
<td>Disaster Scorecard</td>
<td>Feasibility Study Support</td>
<td>Regional Design Studios</td>
<td>Metrics for Shocks and Stresses</td>
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<tr>
<td>UNISDR</td>
<td>IFC</td>
<td>AIA</td>
<td>GFDRR</td>
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</table>
How can you contribute?

- **Now - August**: MAP EXISTING PLANS AND INITIATIVES
  - Take Resilient Oakland Survey
  - Participate in upcoming technical sessions on shocks and stresses

- **Sept. - Onwards**: Resilience Action Plan
  - Help develop and implement Oakland’s Resilience Action Plan
  - Join upcoming opportunities to analyze factors that drive Oakland’s Resilience

100 RESILIENT CITIES