Building Resilient Cities

Reinventing Our Communities Conference

Otis Rolley – 100 RC Managing Director, North America
U.S. and Canadian Member Cities

Cities:
- Calgary, Canada
- Vancouver, Canada
- Seattle, U.S.
- Boulder, U.S.
- Berkeley, U.S.
- Oakland, U.S.
- San Francisco, U.S.
- Los Angeles, U.S.
- Minneapolis, U.S.
- Chicago, U.S.
- Pittsburgh, U.S.
- Toronto, Canada
- St. Louis, U.S.
- Montreal, Canada
- Boston, U.S.
- Washington D.C., U.S.
- New York City, U.S.
- Louisville, U.S.
- Nashville, U.S.
- Atlanta, U.S.
- New Orleans, U.S.
- Greater Miami and the Beaches, U.S.
- San Juan, Puerto Rico
- Honolulu, U.S.
A legacy in urban development

Building on its rich legacy in urban development and resilience, The Rockefeller Foundation created 100 Resilient Cities in 2013 to catalyze a global urban resilience movement.

Our mission

100 Resilient Cities is charged with helping cities around the globe better manage chronic stresses and acute shocks so that people in those cities, especially the poor and vulnerable, are safer, healthier, and have increased livelihood options.
63% of US population
$\frac{3}{4}$ of global GDP
The real GDP grew in 282 of the 381 metropolitan areas across the U.S. in 2014.

Source: http://www.bea.gov
Flooding in New Orleans, Louisiana
Yiwu, China produces 60% of the world’s Christmas decorations and accessories
Spraying transmission zones in Miami-Dade County, Florida to fight against mosquitoes carrying the Zika virus
Downtown skyline in 2018*

*Includes approved towers that are as yet unbuilt.
Average Individual Income, City of Toronto, 2015

Source: neighbourhoodchange.org
Average Net Wealth (Whites), City of Boston, 2015

$247,500

Average Net Wealth (US-Born Blacks), City of Boston, 2015

$8

Source: *The Color of Wealth in Boston*, Federal Reserve Bank of Boston, Duke University, and the New School
The time to build RESILIENCE is now
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.
<table>
<thead>
<tr>
<th>What is an acute shock?</th>
<th>What is a chronic stress?</th>
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<tbody>
<tr>
<td>Earthquake</td>
<td>Water Scarcity</td>
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<td>Wildfires</td>
<td>Lack of affordable housing</td>
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<tr>
<td>Flooding</td>
<td>Poor air quality</td>
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<td>Sandstorms</td>
<td>High unemployment</td>
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<td>Extreme cold</td>
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<td>Hazardous materials accident</td>
<td>Structural racism</td>
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<td>Severe storms and extreme rainfall</td>
<td>Changing demographics</td>
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<td>Terrorism</td>
<td>Lack of social cohesion</td>
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<td>Disease outbreak</td>
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<td>Riot/civil unrest</td>
<td>Aging Infrastructure</td>
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<td>Infrastructure or building failure</td>
<td>Shifting macroeconomic trends</td>
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<td>Heat wave</td>
<td>Crime &amp; violence</td>
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Tenants of Resilient Leadership & Systems
Reflective
Using past experience to inform future decision

Resourceful
Recognizing alternative ways to use resources

Inclusive
Prioritize broad consultation to create a sense of shared ownership in decision-making

Integrated
Bring together a range of distinct systems and institutions

Robust
Well-conceived, constructed, and managed systems

Redundant
Spare capacity purposively created to accommodate disruption

Flexible
Willingness, ability to adopt alternative strategies in response to changing circumstances
City Resilience Framework

12 drivers that determine the city’s ability to withstand a wide range of shocks and stresses.
Health & Wellbeing
The health and wellbeing of everyone living and working in the city.

- Meets basic needs
- Supports livelihood & employment
- Ensures public health services
Economy & Society
The social and financial organizations that enable urban populations to live peacefully, and act collectively.

Promotes cohesive & engaged economies
Ensures social stability, security & justice
Fosters economic prosperity
Infrastructure & Environment
The way in which manmade and natural infrastructure provides critical services, protects, and connects urban citizens.

Provides & enhances natural & manmade assets
Ensures continuity of critical services
Provides reliable communications & mobility
Leadership & Strategy
Effective leadership, empowered stakeholders, and integrated planning.

- Provides leadership & effective management
- Empowers a broad range of stakeholders
- Fosters long-term & integrated planning
**Equality**

The assumption is that everyone benefits from the same supports. This is equal treatment.

**Equity**

Everyone gets the supports they need (this is the concept of “affirmative action”), thus producing equity.

**Justice**

All 3 can see the game without supports or accommodations because the cause(s) of the inequity was addressed. The systemic barrier has been removed.

Source: Agents of Good
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.
Partnering with cities for a better today and a stronger tomorrow
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# 100RC by the Numbers

## Globally

- **6** continents
- **47** countries
- **21** languages
- **40,000 - 21,000,000** population range

## U.S. & Canada

- **801** concrete, actionable initiatives
- **1061** community groups engaged
- **$450 million+** catalyzed in non-city investment

## Additional Information

- **84** Chief Resilience Officers
- **$1.7 billion+** raised to implement resilience projects
- **46** Resilience Strategies
Partnering with cities for a better today and a stronger tomorrow
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<td>in communities across the City</td>
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<td>Resilience Challenges/Open Foresight</td>
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Urban Resilience Strategies
Member cities in the U.S. and Canada have released 15 comprehensive Resilience Strategies that will help them better tackle the challenges of the 21st century.
Building Equitable & Just Urban Resilience

U.S. and Canadian Resilience Strategies contain 87 initiatives focused on equity and equality.
Examples
VISION 01:
CREATE AN INCLUSIVE FUTURE
THAT HONORS ALL TULSAANS

VISION 02:
EQUIP ALL TULSAANS TO OVERCOME
BARRIERS AND THRIVE

VISION 03:
ADVANCE ECONOMIC
OPPORTUNITY FOR ALL TULSAANS

VISION 04:
TRANSFORM CITY AND REGIONAL
SYSTEMS TO IMPROVE OUTCOMES
FOR ALL TULSAANS
MEMORIALIZE BLACK WALL STREET

Install lighted signage and other physical tributes to highlight Black Wall Street visibly from the 244 highway, Oklahoma State University-Tulsa campus, and surrounding areas of town.

The City of Tulsa will use capital funds to provide signs, monuments, and other physical markers to help foster placemaking and community pride. Black Wall Street historically was a place of community wealth for Tulsa’s Black community, but it was destroyed during the Race Massacre of 1921. These efforts will amplify the work of the Race Riot Commission, the businesses currently in the area, and Oklahoma public schools’ educational curriculum that discusses the Race Massacre. Not only will these placemaking actions create physical tributes, they will also strengthen social cohesion by drawing attention to the work being done in and the stories of a historically marginalized community.

GOAL 2.2
DECREASE THE RACIAL LIFE EXPECTANCY GAP BY 2024 BY IMPROVING MENTAL AND PHYSICAL HEALTH OUTCOMES FOR ALL TULSAANS

The life expectancy gap between Black and White Tulsans is one of the most unambiguous examples of inequality in our city. In Tulsa, affluent White communities can live more than a decade longer than low-income communities dominated by people-of-color located less than a mile away. This life expectancy gap is the result of disparate health services and inadequate social determinants of health. Through the Actions under this Goal, the City will enhance the overall well-being of all Tulsans and address these disparities by increasing equitable access to health services and nutritious food.

ACTION 12:
Incentivize grocery store development in underserved communities

ACTION 13:
Develop a healthy food environment coalition

ACTION 14:
Implement a community health worker model

ACTION 15:
Increase the impact of the Educare Family Health Project

ACTION 16:
Invest in children’s mental health

ACTION 17:
Champion mental health diversion programs

USE EQUALITY INDICATORS TO SUPPORT POLICY DEVELOPMENT

Revisit the 2018 Equality Indicators annually to measure and evaluate change, over time, from baseline data. The Equality Indicators is a comprehensive tool originally developed by the CUNY Institute for State and Local Governance (CUNY ISLG) that helps cities understand and measure equality or equity in their city. The City of Tulsa partnered closely with the local organization Community Service Council to tailor this tool to the issues most important to residents of Tulsa. The tool examines multiple areas (e.g., education, housing, justice) and measures the disparities faced by disadvantaged groups (those most vulnerable to inequality, such as racial and ethnic minorities, immigrants, or individuals living in poverty) across those domains annually, tracking change over time. The Equality Indicators tool will be used as a framework to support policy development, demonstrating the effectiveness of current policies and initiatives, and highlighting areas in which new policies and initiatives may be needed. Making data publicly available will increase transparency and accountability, allowing the local community an inside view into the disparities in their city, where progress is being made, and opportunities for additional improvement.
CITY RESILIENCE FRAMEWORK (CRF)

The City Resilience Framework (CRF) provides a lens to understand the complexity of cities and the drivers that contribute to their resilience, and a common language that enables cities to share knowledge and experiences. The CRF is built on four essential dimensions of urban resilience:

1. Health & Wellbeing: of everyone living and working in the city
2. Economy & Society: the social and financial systems that enable urban populations to live peacefully and act collectively
3. Infrastructure & Environment: the way in which man-made and natural infrastructure provide critical services and protects urban citizens
4. Leadership & Strategy: effective leadership, empowered stakeholders, and integrated planning

For more information, visit https://www.100resilientcities.org/resources/.
RESILIENT BOSTON
AN EQUITABLE AND CONNECTED CITY
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BOSTON
AN EQUITABLE AND CONNECTED CITY

RESILIENCE, RACIAL EQUITY, AND SOCIAL COHESION

VISION 1
REFLECTIVE
CITY, STRONGER
PEOPLE
A Boston that reflects
upon its history and
confronts present real-
ities of racism in daily life
and during emergencies
to learn and reduce the
impact of trauma on
individual and community
health and well-being.

VISION 2
COLLABORATIVE,
PROACTIVE
GOVERNANCE
An inclusive and collab-
orative City government
culture that offers resi-
dents a meaningful role in
decision-making processes
and facilitates cross-de-
partmental partnership.

VISION 3
EQUITABLE
ECONOMIC
OPPORTUNITY
Access to economic and
social pathways that
support closing the wealth
gap to ensure our quality
of life is not determined by
our race or ethnicity.

VISION 4
CONNECTED,
ADAPTIVE CITY
Increased connectivity
of communities of
color while adequately
preparing for threats to
infrastructure used by all
Bostonians.
GUIDING PRINCIPLE: The only way to create citywide resilience is to embed racial equity, social justice, and social cohesion within infrastructure, environmental, social, and economic aspects of resilience. We are putting people first.
Addressing the gap in economic opportunity along racial lines, an Economic Mobility Lab will work across City departments and agencies to promote economic security for all Bostonians.