Climate Resilience & Equity in Miami
Southeast Florida Regional Climate Leadership Summit 2018
U.S. and Canadian Member Cities
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.
CITIES
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 2005
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>
</tr>
</thead>
<tbody>
<tr>
<td>Earthquake</td>
<td>Water Scarcity</td>
</tr>
<tr>
<td>Wildfires</td>
<td>Lack of affordable housing</td>
</tr>
<tr>
<td>Flooding</td>
<td>Poor air quality</td>
</tr>
<tr>
<td>Sandstorms</td>
<td>High unemployment</td>
</tr>
<tr>
<td>Extreme cold</td>
<td>Homelessness</td>
</tr>
<tr>
<td>Hazardous materials accident</td>
<td>Structural racism</td>
</tr>
<tr>
<td>Severe storms and extreme rainfall</td>
<td>Changing demographics</td>
</tr>
<tr>
<td>Terrorism</td>
<td>Lack of social cohesion</td>
</tr>
<tr>
<td>Disease outbreak</td>
<td>Poverty/inequity</td>
</tr>
<tr>
<td>Riot/civil unrest</td>
<td>Aging Infrastructure</td>
</tr>
<tr>
<td>Infrastructure or building failure</td>
<td>Shifting macroeconomic trends</td>
</tr>
<tr>
<td>Heat wave</td>
<td>Crime &amp; violence</td>
</tr>
</tbody>
</table>
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.
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

<table>
<thead>
<tr>
<th>Count</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>Continents</td>
</tr>
<tr>
<td>47</td>
<td>Countries</td>
</tr>
<tr>
<td>21</td>
<td>Languages</td>
</tr>
<tr>
<td>40,000 - 21,000,000</td>
<td>Population range</td>
</tr>
<tr>
<td>84</td>
<td>Chief Resilience Officers</td>
</tr>
<tr>
<td>$1.7 billion+</td>
<td>Raised to implement resilience projects</td>
</tr>
</tbody>
</table>

### U.S. & Canada

<table>
<thead>
<tr>
<th>Count</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>801</td>
<td>Concrete, actionable initiatives</td>
</tr>
<tr>
<td>1061</td>
<td>Community groups engaged</td>
</tr>
<tr>
<td>$450 million+</td>
<td>Catalyzed in non-city investment</td>
</tr>
</tbody>
</table>
Partnering with cities for a better today and a stronger tomorrow
<table>
<thead>
<tr>
<th>Community animators</th>
<th>Toolkit</th>
<th>Stories</th>
<th>Micro-Grants</th>
<th>Mapping</th>
</tr>
</thead>
<tbody>
<tr>
<td>in communities across the City</td>
<td>designed in collaboration with community animators</td>
<td>What can we learn from how City Residents experience resilience?</td>
<td>$500 micro-grants to film a resilient story</td>
<td>Understanding a City’s resilience landscape</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Survey</th>
<th>Ideation</th>
<th>Pop-ups</th>
<th>Libraries</th>
<th>Telephone town hall</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resilience Challenges/Open Foresight</td>
<td>What events in City’s past shaped its resilience story?</td>
<td>Consultations where people already gather</td>
<td>Resilience displays &amp; other activities in 30 libraries across the city</td>
<td>Radio-show style event to drive participation</td>
</tr>
</tbody>
</table>

Partnership tools
Implementation
RESILIENT TULSA

An equitable, action-oriented, and collaborative roadmap for all of Tulsa.
VISION 01:
CREATE AN INCLUSIVE FUTURE THAT HONORS ALL TULSANS

VISION 02:
EQUIP ALL TULSANS TO OVERCOME BARRIERS AND THRIVE

VISION 03:
ADVANCE ECONOMIC OPPORTUNITY FOR ALL TULSANS

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

MID-TERM: 2021 Q2 LAUNCH

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 10 miles 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

SHORT-TERM: 2019 QI REVIEW AND REANALYSIS

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 for 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 protect urban citizens
4. Leadership & Strategy: effective leadership, empowered stakeholders, and integrated planning

For more information, visit https://www.toresilientcities.org/resources/.
RESILIENT BOSTON
AN EQUITABLE AND CONNECTED CITY
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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 realities 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 collaborative City government culture that offers residents a meaningful role in decision-making processes and facilitates cross-departmental 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.
RESILIENT
GREATERS MIAMI
& THE BEACHES

Preliminary Resilience Assessment
#resilient305
The Rockefeller Foundation

City Water Resilience Framework

City Characterisation Report - Greater Miami & The Beaches

Report Ref
SOUTH CORRIDOR STATIONS
MIAMI-DADE COUNTY

Sparking resilient development and mobility along regional transportation corridors
The Panel’s Assignment

With the support of the 100 Resilient Cities initiative, the Urban Land Institute was invited to assess the city’s current stormwater and climate adaptation strategy. At an Advisory Services panel held over the course of three days, ULI-member experts from around the globe convened to both assess the current framework and propose additional efforts to further bolster the city’s existing strategy. The city asked the panel to address the following questions:

- Is the city of Miami Beach on the right track in its approach to mitigate flooding caused by tidal and rain events?
- Is the city of Miami Beach on the right track in terms of elevating roads, harmonization, placemaking, and aesthetics?
- Is the city of Miami Beach’s neighborhood and project boundary map and strategy for project prioritization and sequencing sound?
- What other investments in public infrastructure improvements could occur where construction is already underway?

- How can the city best communicate with residents and stakeholders about potential solutions and costs and otherwise engage community in the ongoing stormwater and flood management program?

In addition, panelists were asked to identify possible future opportunities, including the following:

- How can the city ultimately advance climate adaptation in private development, including residential and commercial development, including perhaps adaptation strategies such as raising buildings?
- What strategies could be used to involve the private sector, public/private partnerships, or both in the design, funding, and delivery of stormwater management and flood mitigation strategies?
- How might the city use its upcoming business case analysis to advance future climate adaptation and stormwater management decision-making?

In summary, the Advisory Services panel was tasked with examining Miami Beach’s current stormwater management and climate adaptation strategy to assess its efficacy while making recommendations for future planning and development of the resilience strategy, which will address flooding, among other issues.
ERA 3
Building Resilient Cities
10th Annual Southeast Florida Regional Climate Leadership Summit
Otis Rolley – 100 RC
Managing Director, North America
October 25, 2018

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