

PIONEERED BY THE
ROCKEFELLER FOUNDATION

100 RESILIENT CITIES

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

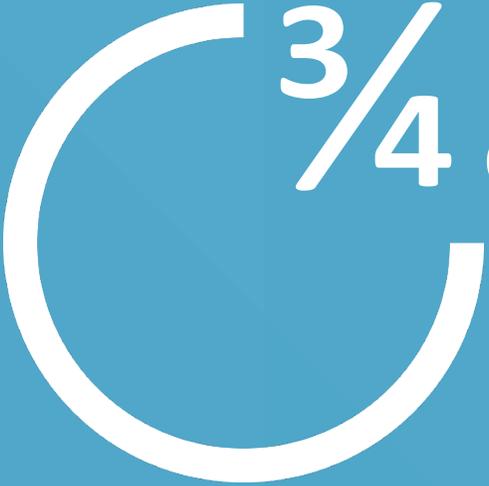
100 Resilient Cities is charged with helping cities around the globe better manage chronic stresses and acute shocks so that people in those cities, especially the poor and vulnerable, are safer, healthier, and have increased livelihood options.

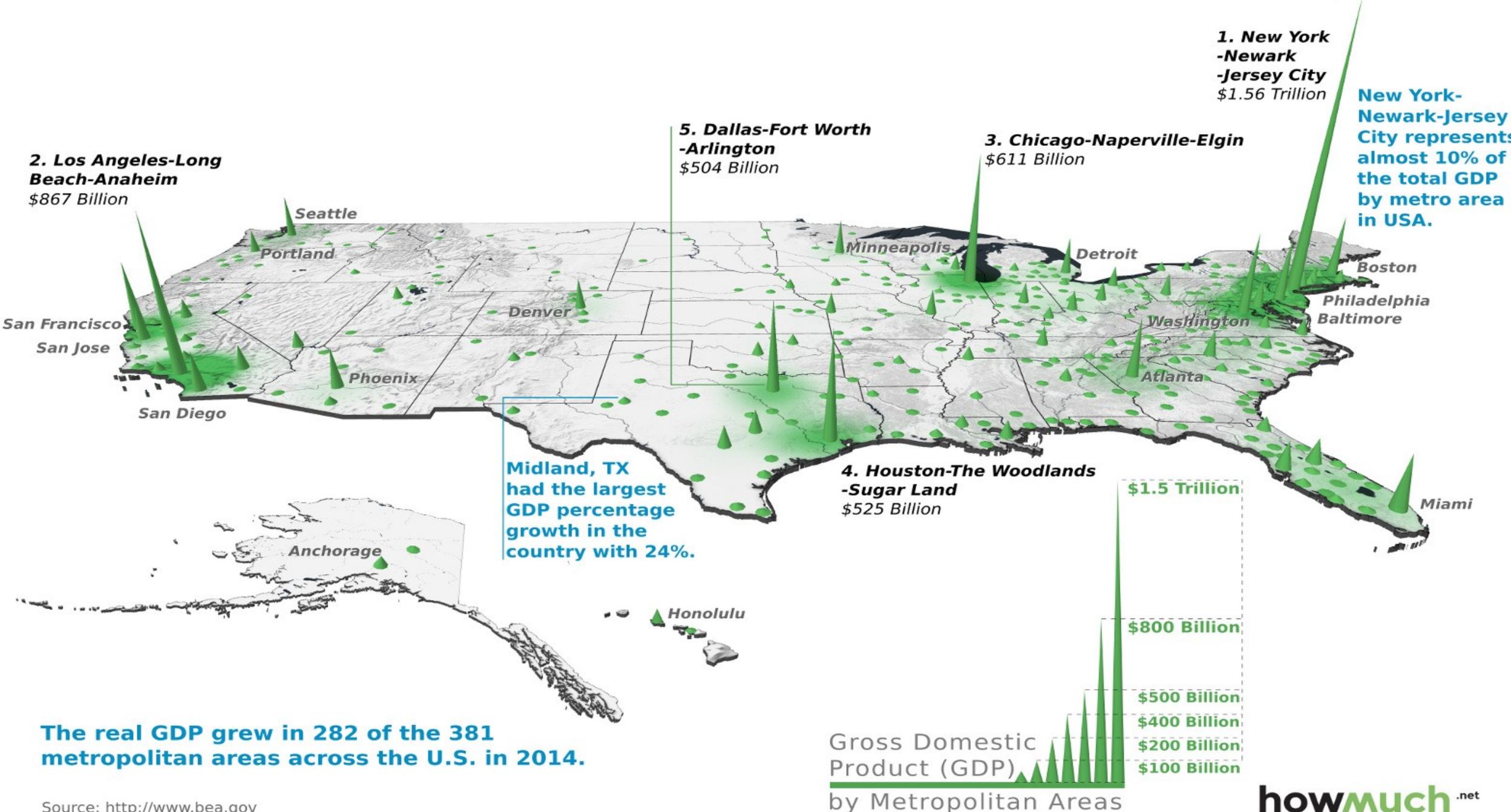


CITIES



63% of US population

 $\frac{3}{4}$ of global GDP



Source: <http://www.bea.gov>



Flooding in New Orleans, Louisiana



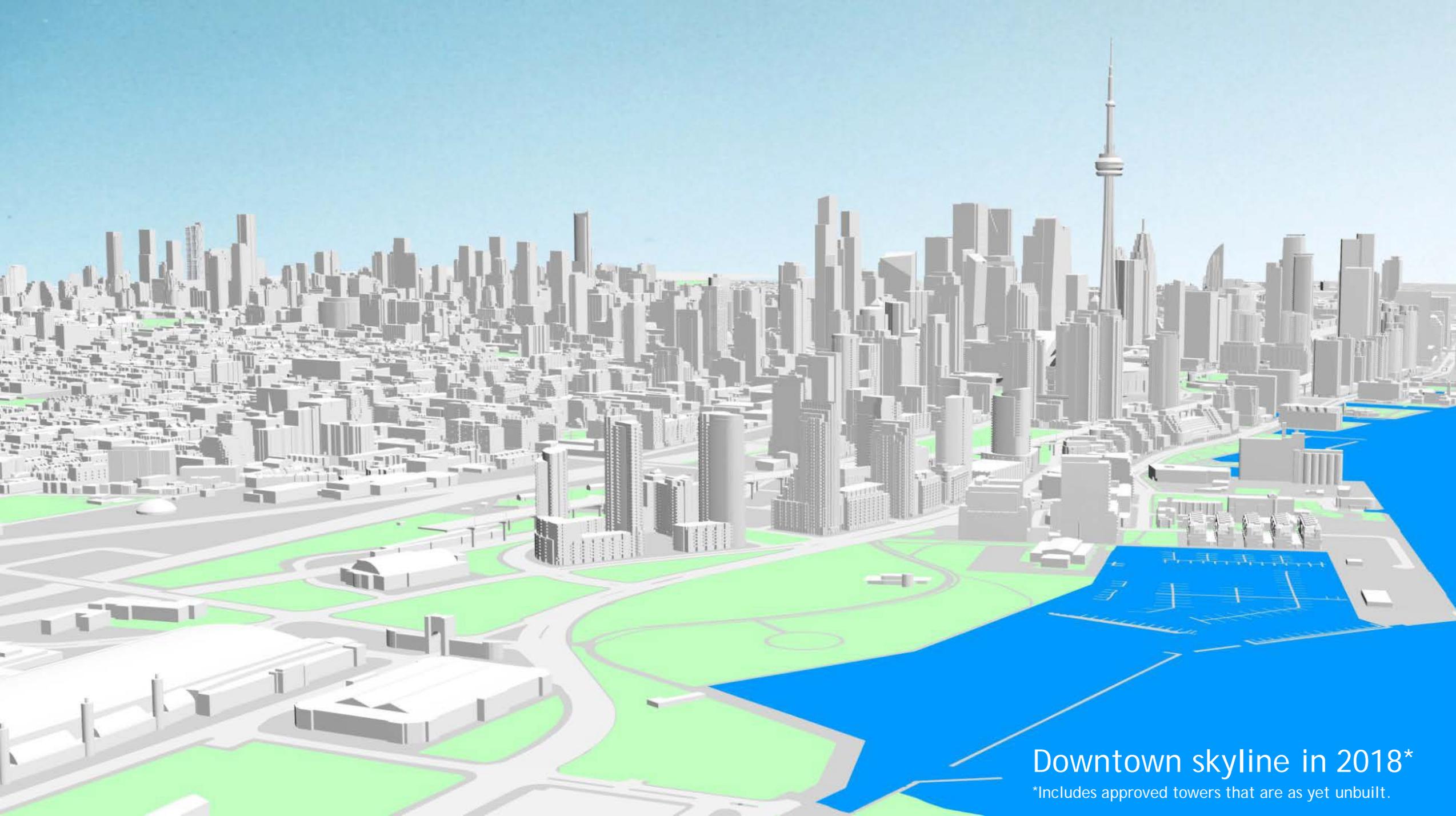
Yiwu, China produces 60% of the world's Christmas decorations and accessories



Spraying transmission zones in Miami-Dade County, Florida to fight against mosquitoes carrying the Zika virus



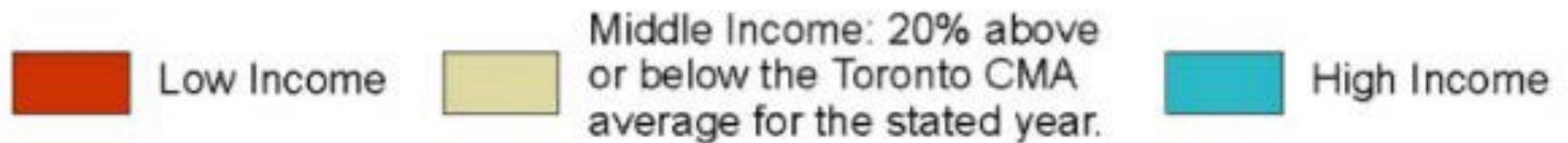
Downtown skyline in 2005



Downtown skyline in 2018*

*Includes approved towers that are as yet unbuilt.

Average Individual Income, City of Toronto, 2015



Average Net Wealth (Whites),
City of Boston, 2015

\$247,500

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

\$8



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.

What is an acute shock?

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

What is a chronic stress?

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

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

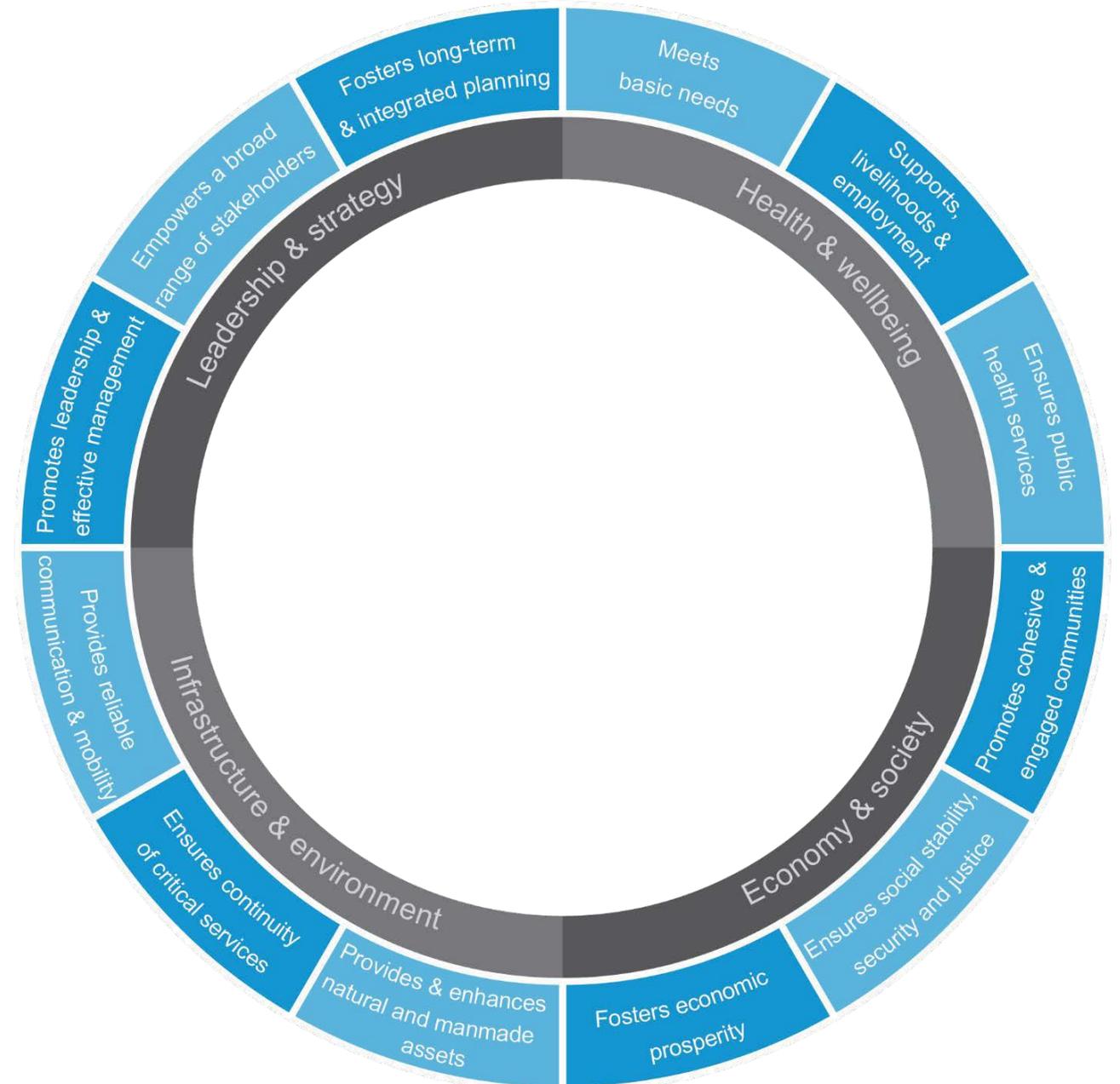
Spare capacity purposively created to accommodate disruption



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

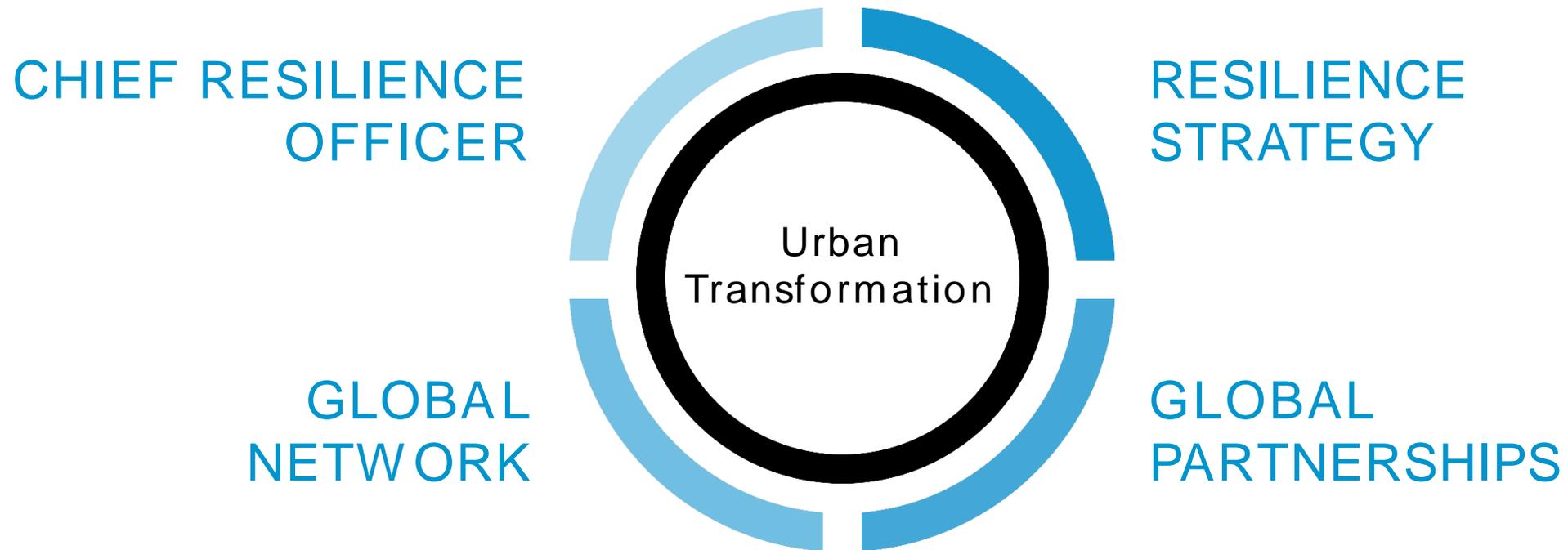


All 3 can see the game without supports or accommodations because **the cause(s) of the inequity was addressed**. The systemic barrier has been removed.

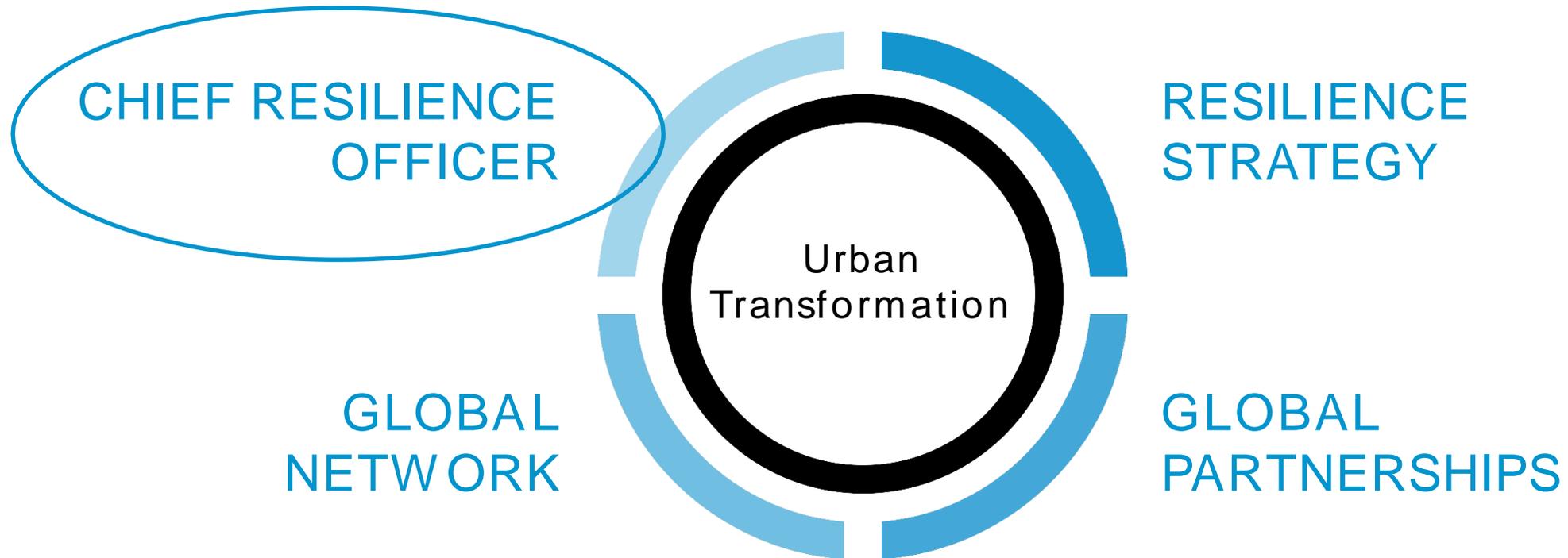
100RC partners with cities around the world to help them become more resilient to the social, economic and physical challenges that are a growing part of the 21st century.



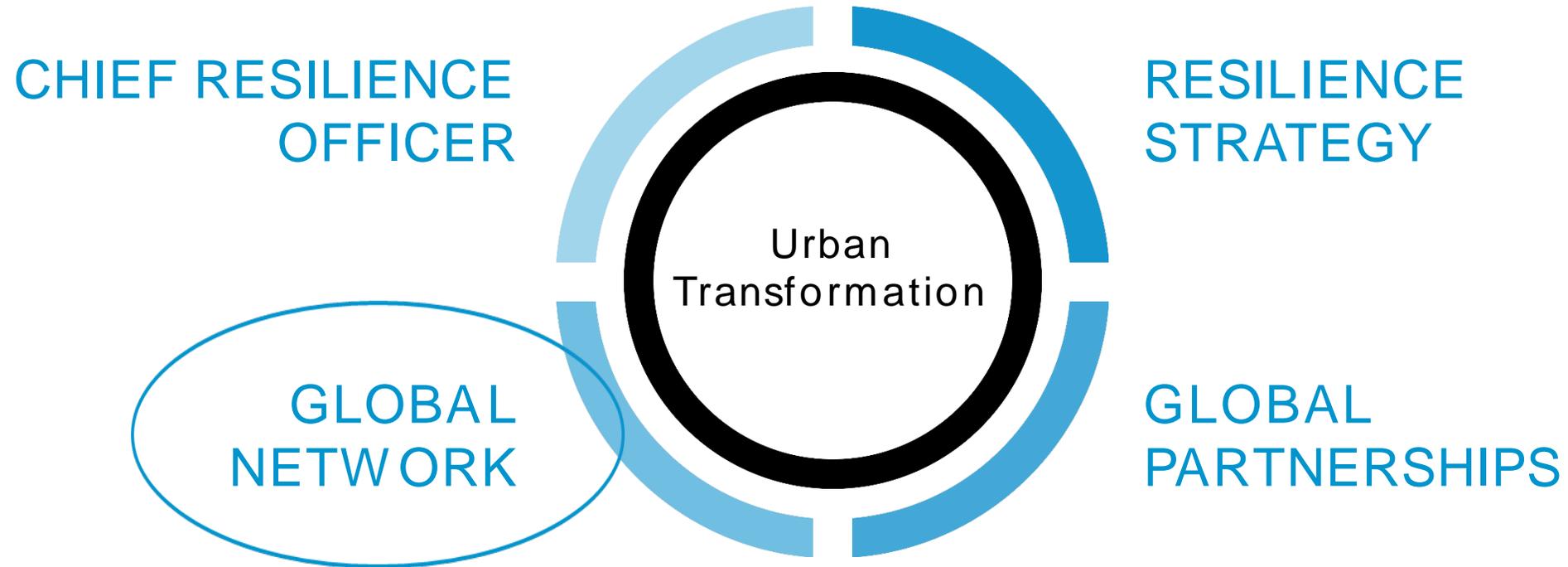
Partnering with cities for a better today and a stronger tomorrow



Partnering with cities for a better today and a stronger tomorrow



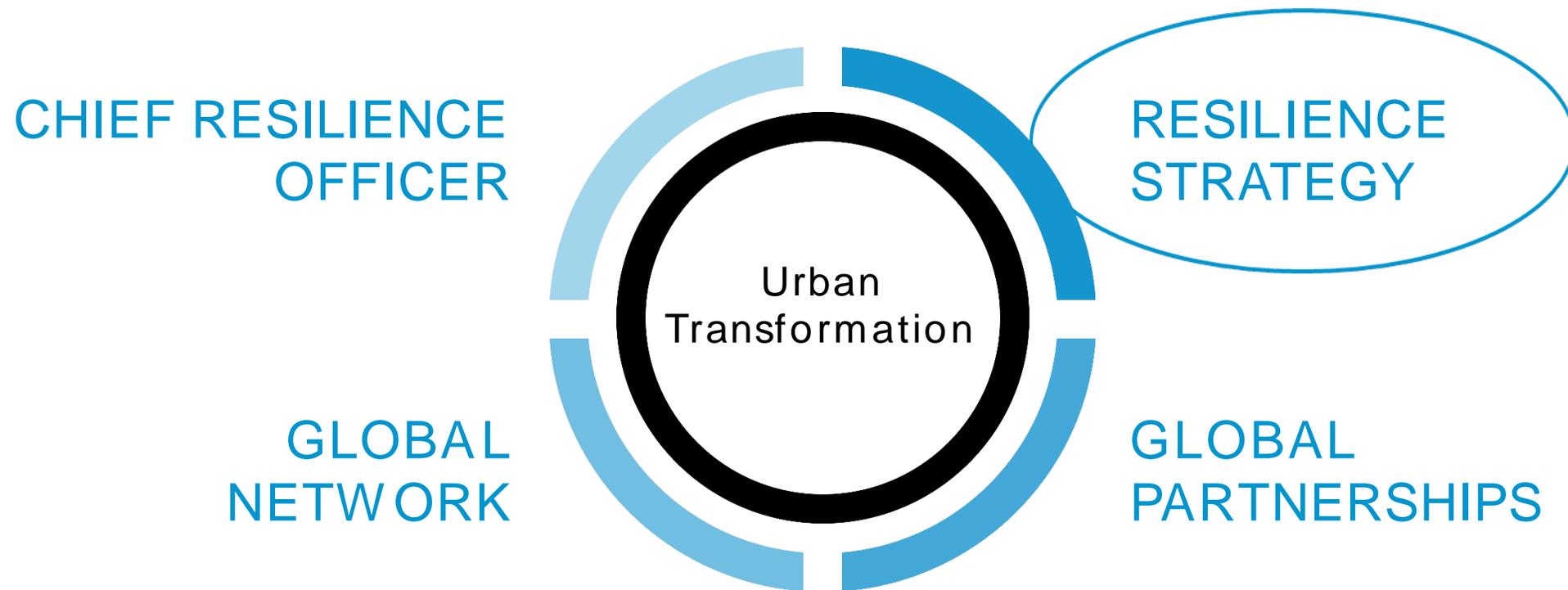
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Partnering with cities for a better today and a stronger tomorrow



100RC by the Numbers

Globally

6

continents

47

countries

21

languages

40,000 - 21,000,000

population range

84

Chief Resilience
Officers

\$1.7 billion+

raised to implement
resilience projects

46

Resilience Strategies

U.S. & Canada

801

concrete, actionable
initiatives

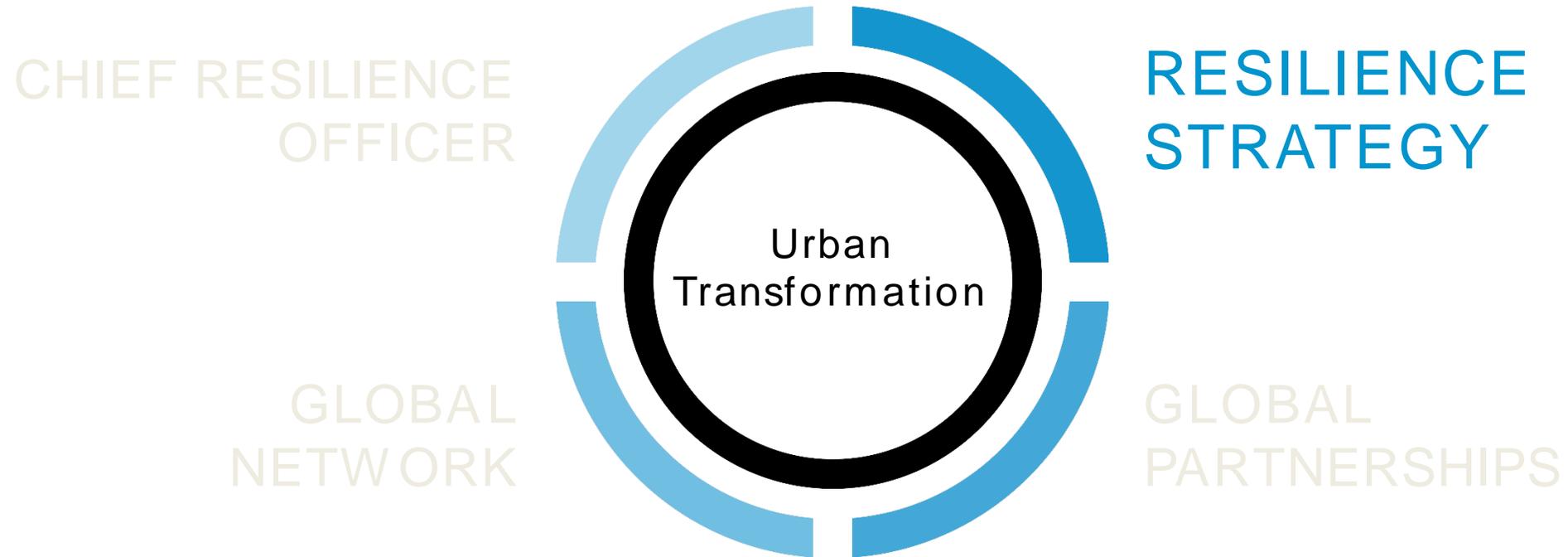
1061

community groups
engaged

\$450 million+

catalyzed in non-city
investment

Partnering with cities for a better today and a stronger tomorrow





Community animators
in communities across the City



Toolkit
designed in collaboration with community animators



Stories
What can we learn from how City Residents experience resilience?



Micro-Grants
\$500 micro-grants to film a resilient story



Mapping
Understanding a City's resilience landscape



Survey
Resilience Challenges/Open Foresight



Ideation
What events in City's past shaped its resilience story?



Pop-ups
Consultations where people already gather

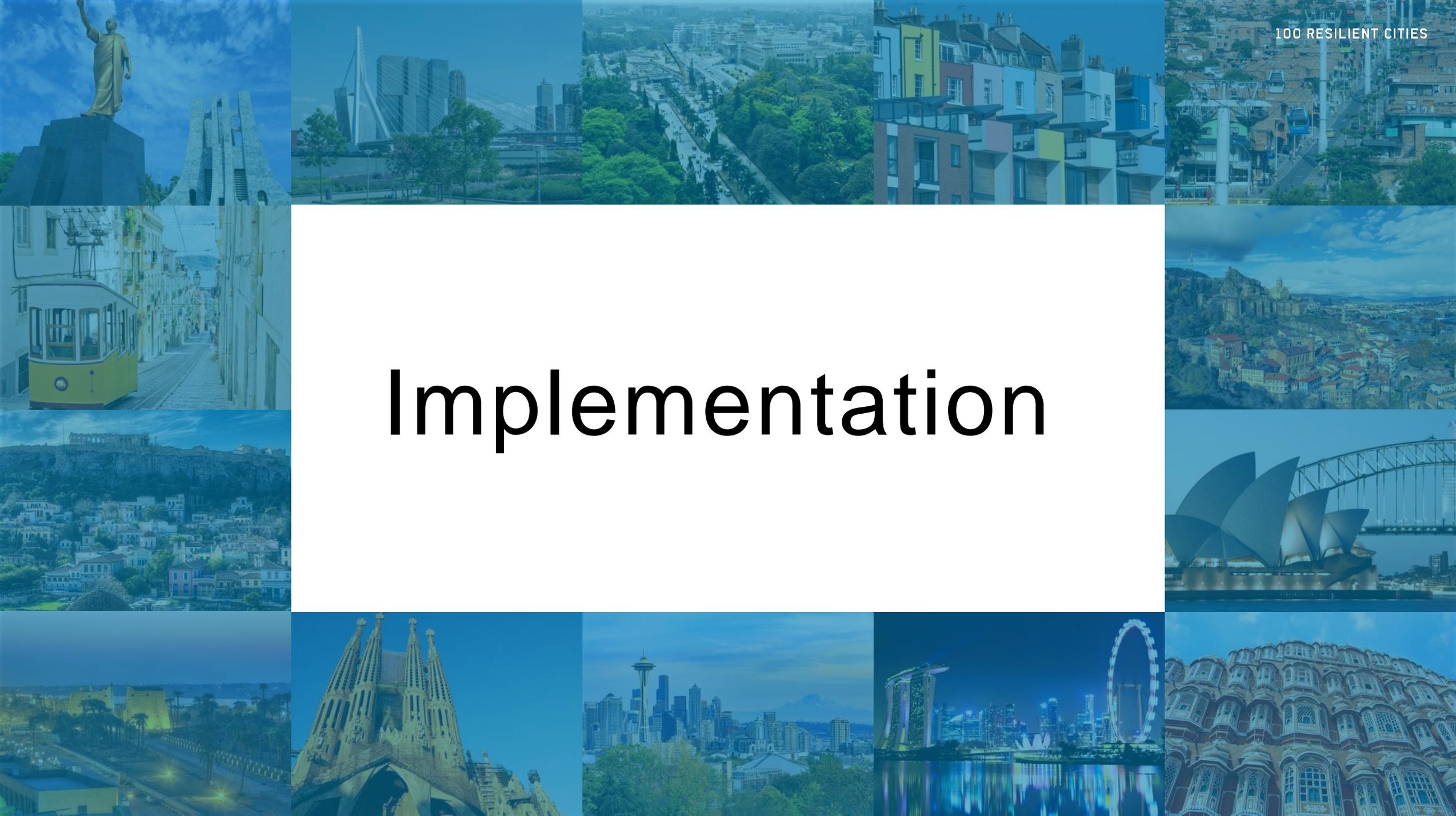


Libraries
Resilience displays & other activities in 30 libraries across the city



Telephone town hall
Radio-show style event to drive participation

Partnership tools

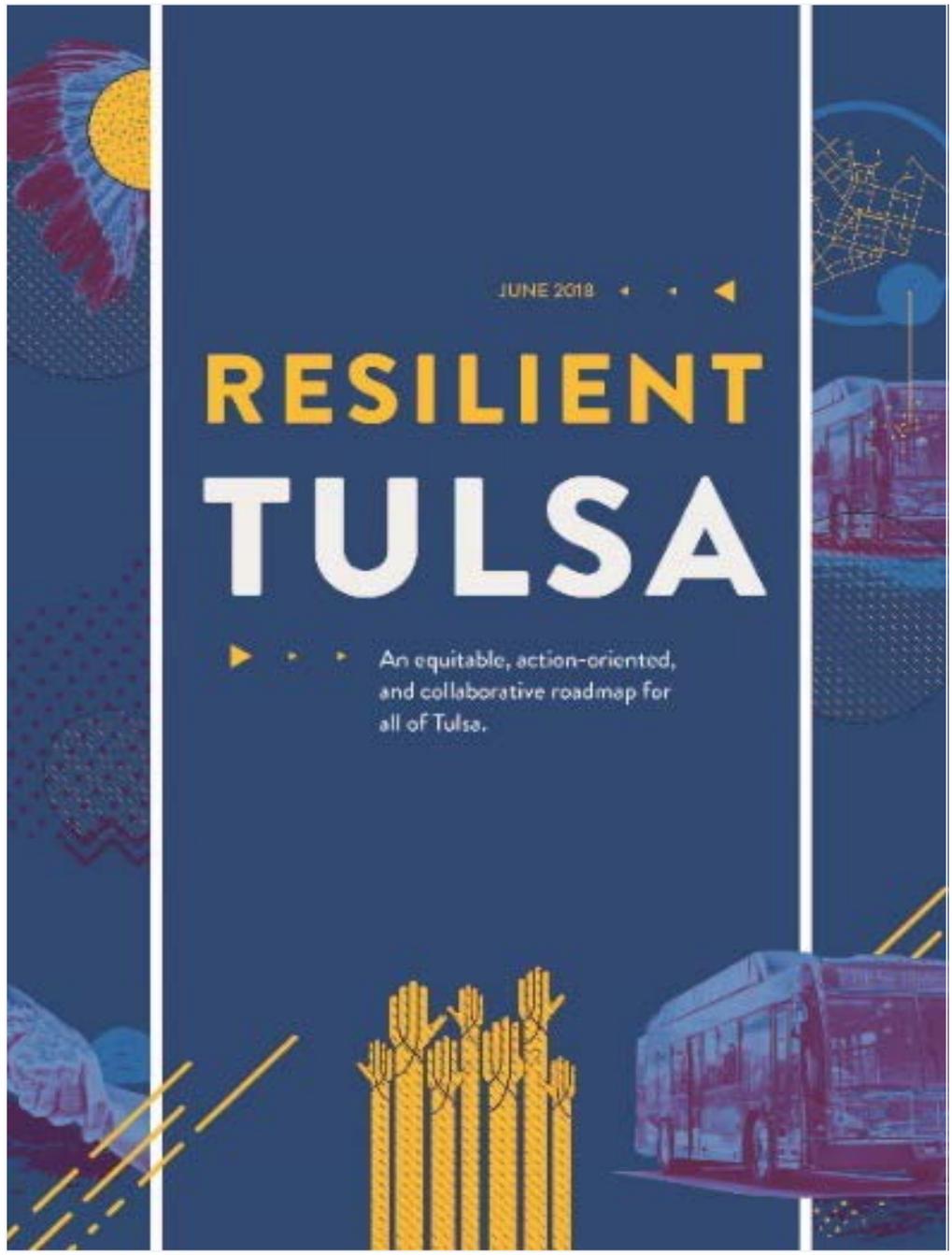


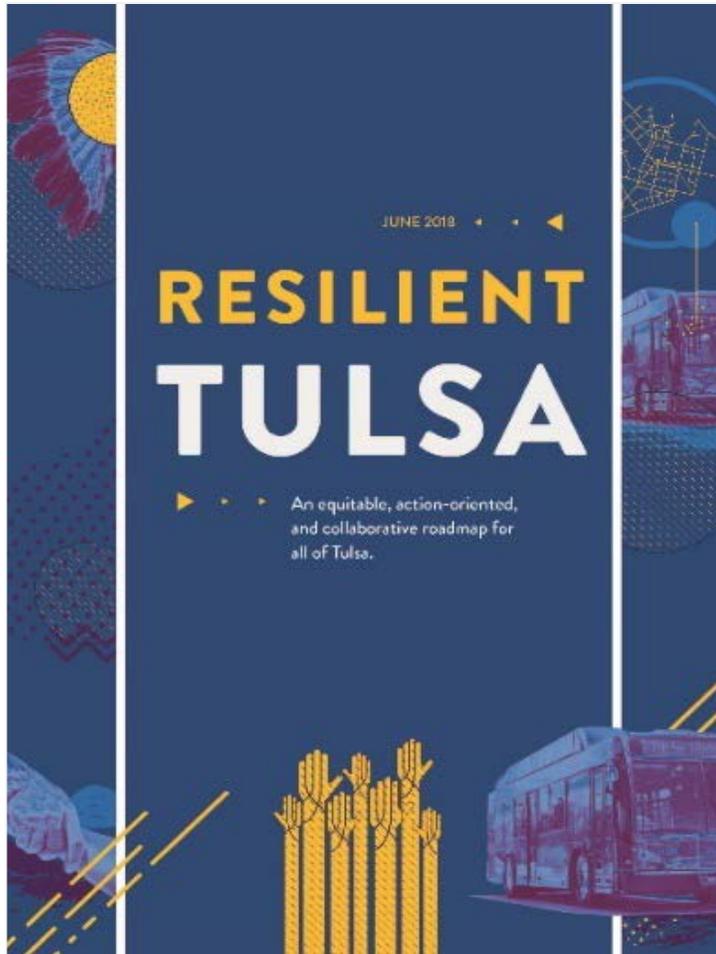
Implementation

JUNE 2018 ◀ ◦ ▶

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**

► ► ► ACTION 01

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 TULSANS



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

► ► ► ACTION 33

USE EQUALITY INDICATORS TO SUPPORT POLICY DEVELOPMENT

🕒 SHORT-TERM;
2019 Q1 REVIEW AND REANALYSIS

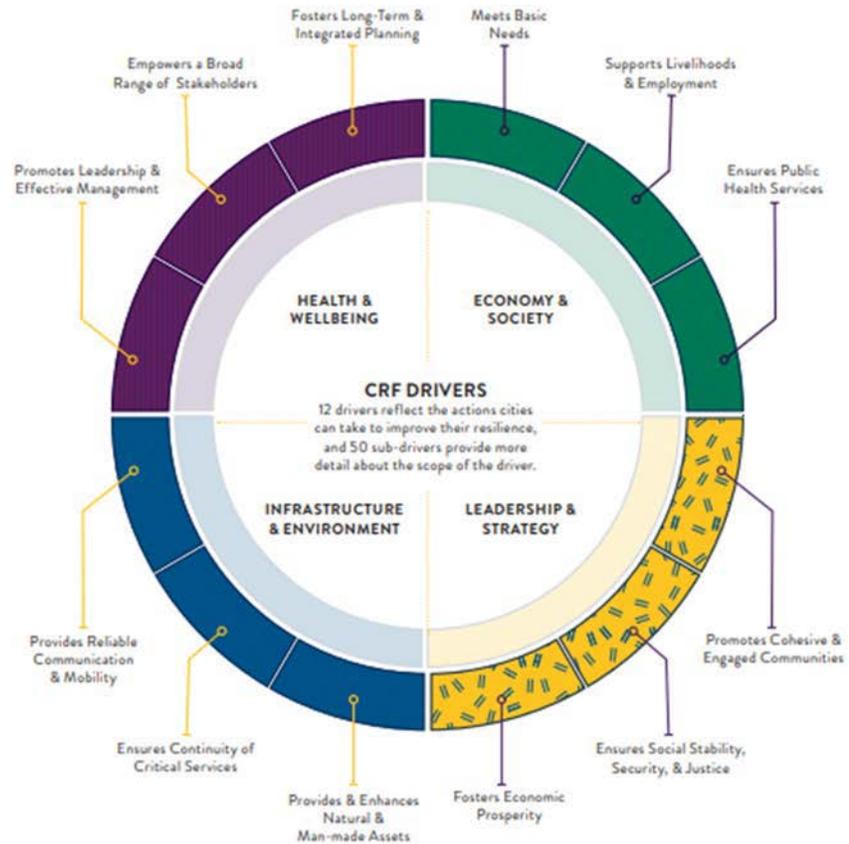
Revisit the 2018 Equality Indicators annually to measure and evaluate change, over time, from baseline data. The Equality Indicators is a comprehensive tool originally developed by the CUNY Institute for State and Local Governance (CUNY ISLG) that helps cities understand and measure equality or equity in their city. The City of Tulsa partnered closely with the local organization Community Service Council to tailor this tool 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:

For more information, visit <https://www.100resilientcities.org/resources/>.

- 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





RESILIENT BOSTON

AN EQUITABLE AND CONNECTED CITY





RESILIENT BOSTON

AN EQUITABLE AND CONNECTED CITY



RESILIENCE, RACIAL EQUITY, AND SOCIAL COHESION



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.



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.



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.



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.

Economic Mobility Lab

Boston, MA



- 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 GREATER MIAMI & THE BEACHES

Preliminary Resilience Assessment
#resilient305

Discovery Areas

RESILIENT GREATER MIAMI & THE BEACHES

Living with Water:

Innovative Infrastructure Investments

Advancing + Adapting:

How We Live + Move

Building Prosperity:

An Economy for All

A Thriving Community:

Safe Neighborhoods
+ Healthy Neighbors

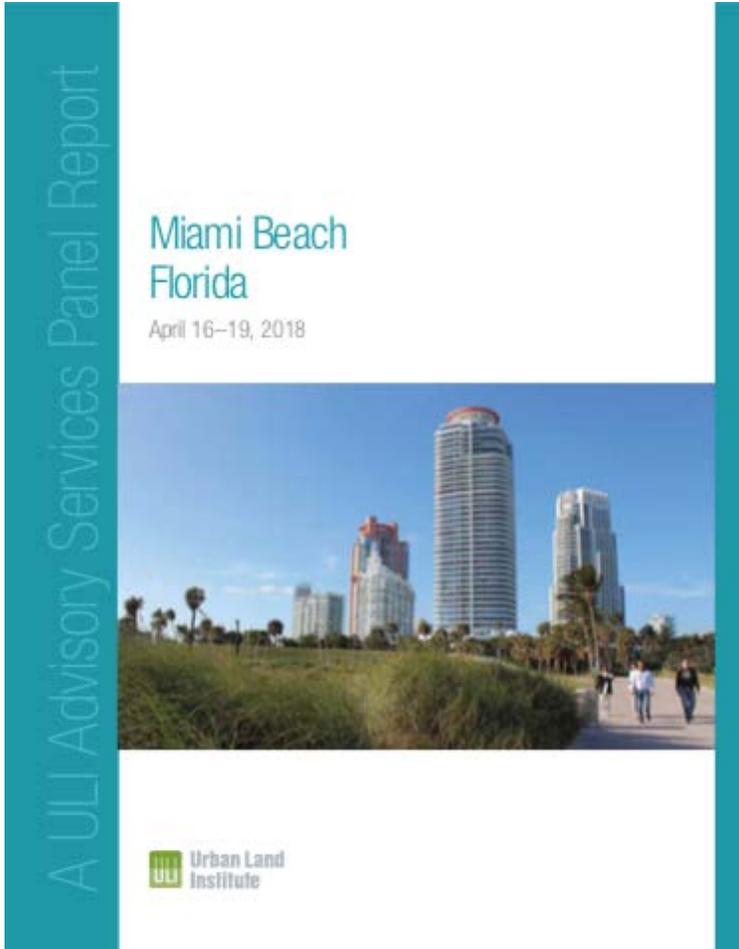
Robust Recovery:

Pre-Planning for
Post-Recovery

Leadership for Tomorrow:

Staying Ahead
of the Curve





The Rockefeller Foundation
City Water Resilience Framework
City Characterisation Report -
Greater Miami & The Beaches

Report Ref





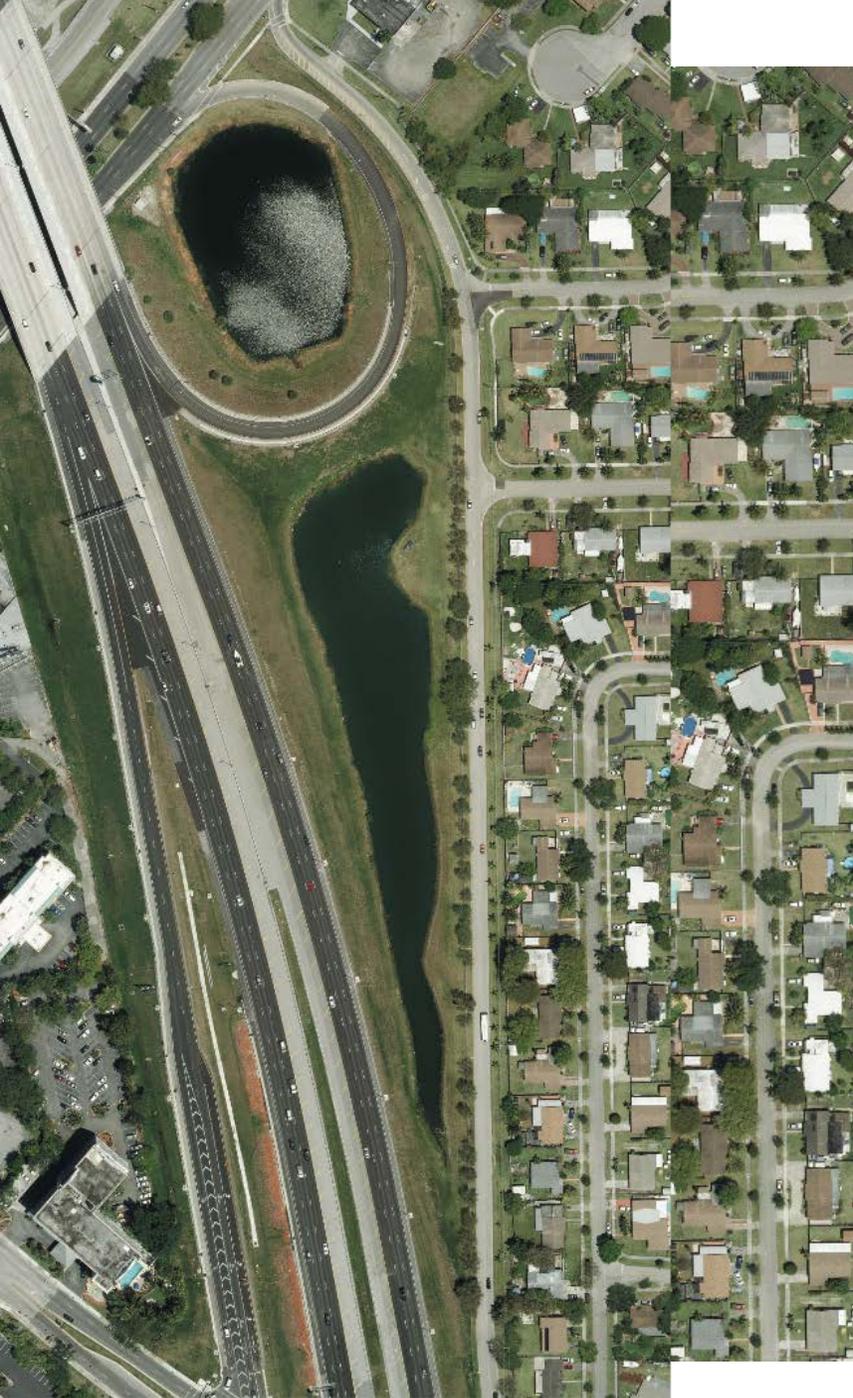
WORKSHOP REPORT

SOUTHEAST FLORIDA RESILIENCE ACCELERATOR

AUGUST 6-8, 2018

FOR MORE INFO - FUNDING BY THE FLORIDA BAY RESILIENCE
COALITION (FBC) CENTER FOR RESILIENT COASTAL WATERS
RESEARCH AND INNOVATION CENTER FOR COASTAL
WATER RESILIENCE
CONTACT: JENNIFER@FBC.CO

Southeast Florida Resilience Accelerator



SOUTH CORRIDOR STATIONS

MIAMI-DADE COUNTY

Sparking resilient development and mobility along regional transportation corridors

SOUTH CORRIDOR
MIAMI-DADE COUNTY

RESILIENT 305 WILL PLAN AND IMPLEMENT RESILIENT TRANSPORTATION HUBS THAT REDUCE ECONOMIC DISPARITY, INCREASE RIDERSHIP, CONNECT COMMUNITIES AND PREPARE AND PROTECT CITIZENS.

DAY 3

2019 - 2040
Strategic Urbanism & Policy Actions taken

2040
Transportation Hubs Implemented

Q1 2020
Begin Design Process



ULI Advisory Services Panel Report

Miami Beach Florida

April 16–19, 2018



ULI Technical Assistant Panel

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



PIONEERED BY THE
ROCKEFELLER FOUNDATION

100 RESILIENT CITIES

Building Resilient Cities

10th Annual Southeast Florida Regional
Climate Leadership Summit

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October 25, 2018

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