

A young child with long dark hair, wearing a colorful striped long-sleeved shirt and dark pants, stands in the lower-left corner of the frame. The child is looking towards the camera with a neutral expression. The background is a large, vibrant mural composed of numerous overlapping, hand-painted geometric shapes, primarily triangles and diamonds, in a wide array of colors including pink, blue, green, yellow, red, purple, and black. The mural has a textured, slightly weathered appearance with some paint drips and uneven edges. The overall scene is brightly lit, suggesting an outdoor or well-lit indoor setting.

What makes a resilient neighborhood?

Lessons from 100 Resilient Cities Program and beyond

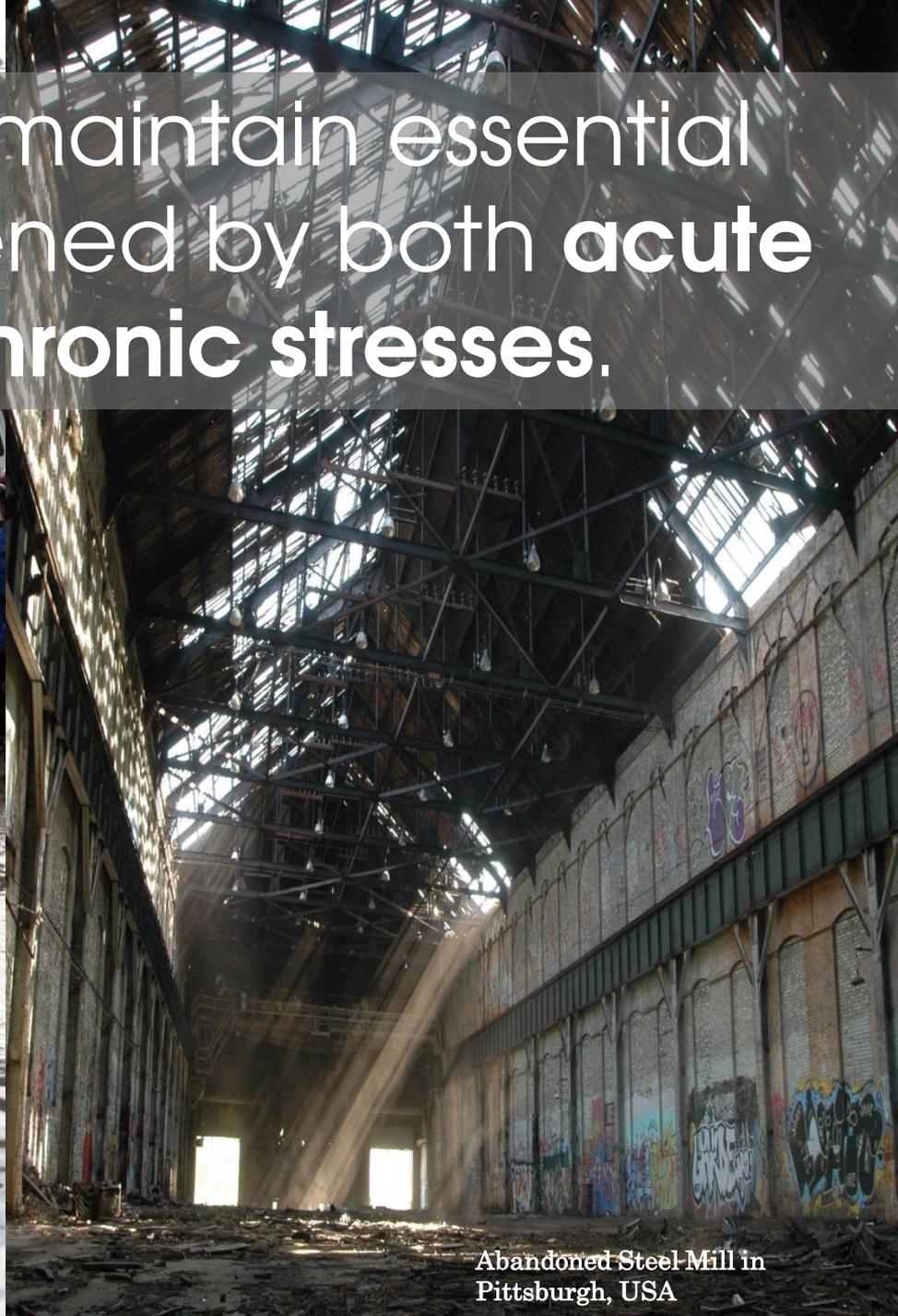
WSBE, June 5, 2017

AECOM

A city's ability to maintain essential functions is threatened by both **acute shocks** and **chronic stresses**.



100 Resilient Cities slide



Abandoned Steel Mill in
Pittsburgh, USA

Sudden shocks or on-going stresses
can lead to social breakdown, physical
collapse, or economic decline.



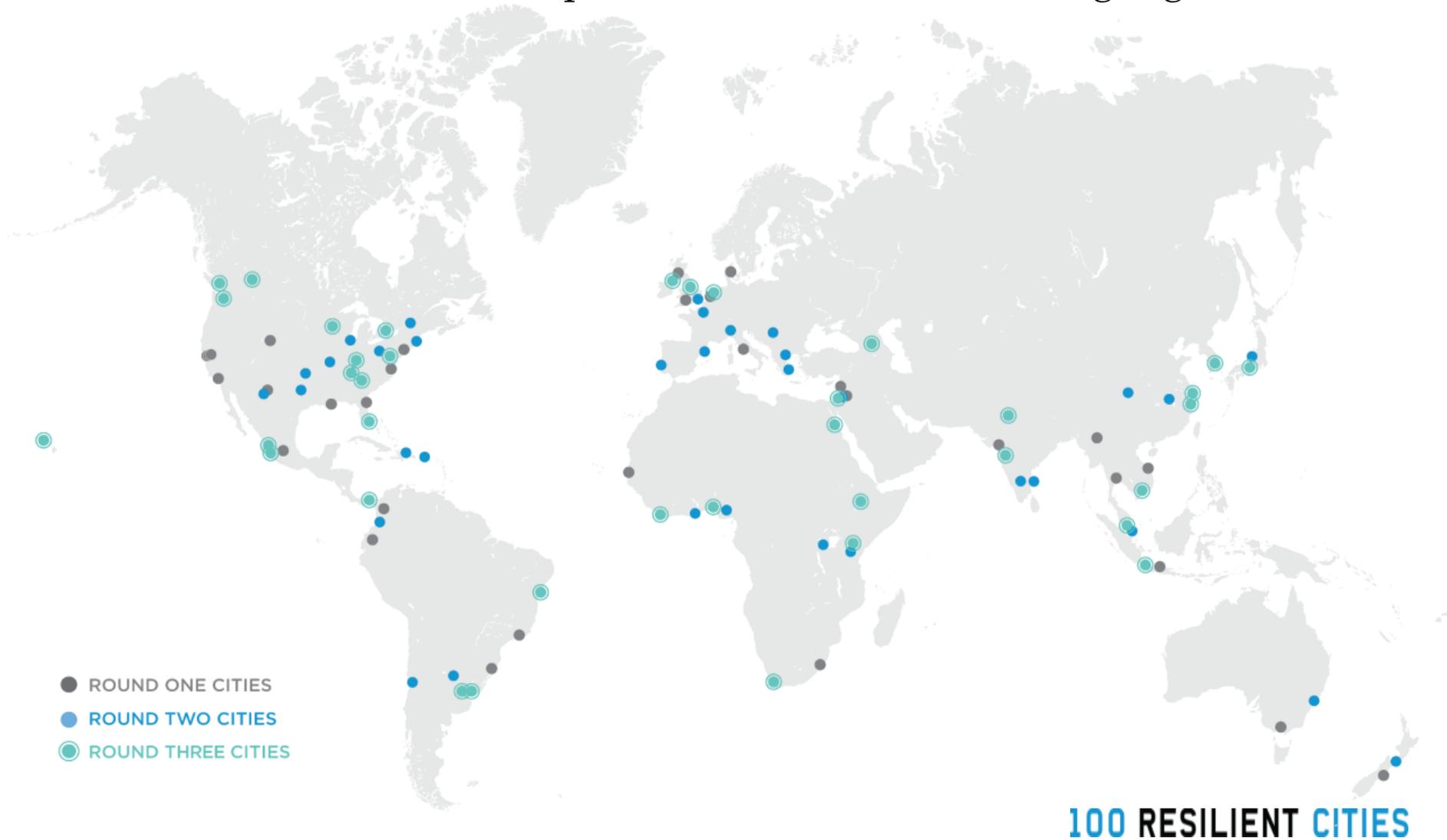
URBAN RESILIENCE

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.

100 Resilient Cities: Member Cities

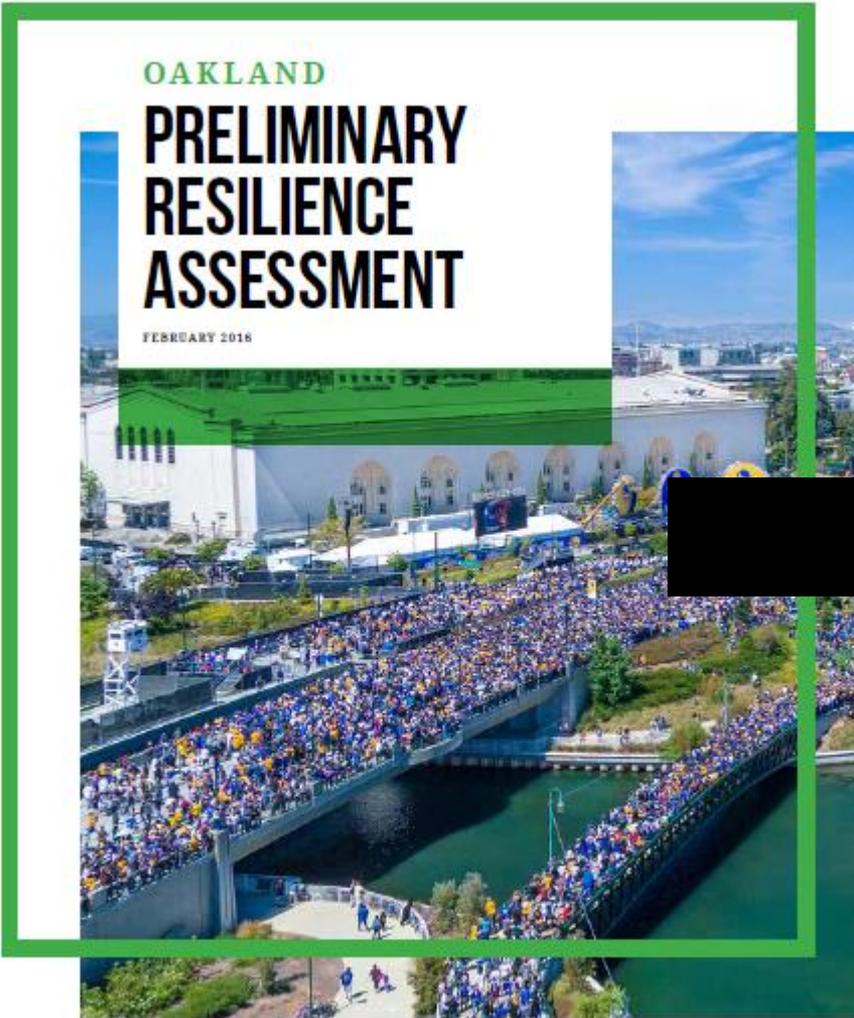
100RC selected its first group of 31 cities in December 2013, and announced the final 37 cities of the cohort in May 2016.

100 member cities span 49 countries and 27 languages.



100RC: Cities AECOM is supporting





OAKLAND

PRELIMINARY RESILIENCE ASSESSMENT

FEBRUARY 2016



100 RESILIENT CITIES

RESILIENT OAKLAND

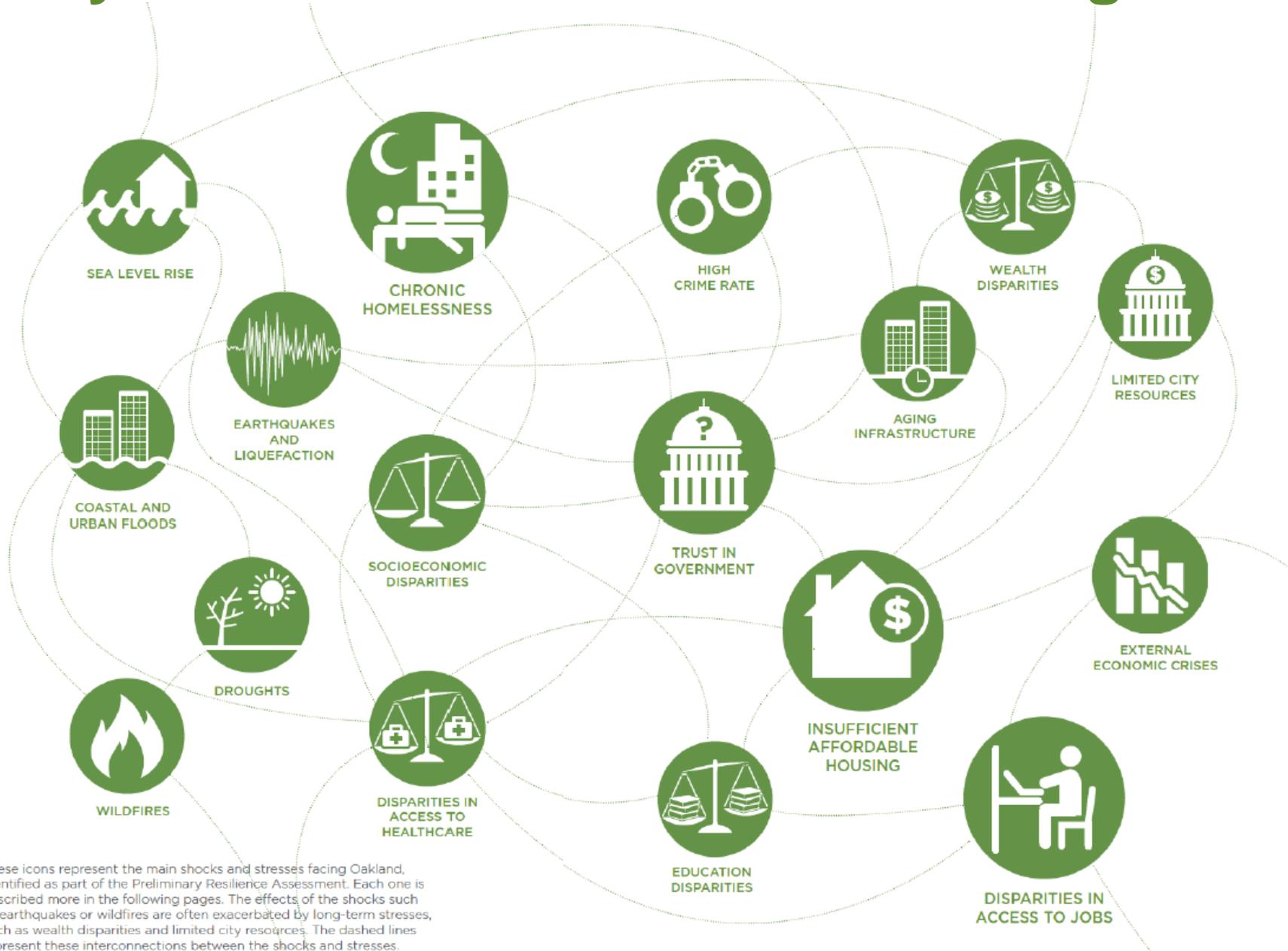
It takes a town to thrive



Collaborative.
Data-driven.
Equitable.

City of Oakland: Resilience Challenges

RESILIENCE CHALLENGES
AT-A-GLANCE



These icons represent the main shocks and stresses facing Oakland, identified as part of the Preliminary Resilience Assessment. Each one is described more in the following pages. The effects of the shocks such as earthquakes or wildfires are often exacerbated by long-term stresses, such as wealth disparities and limited city resources. The dashed lines represent these interconnections between the shocks and stresses.

THEME 1: BUILD A MORE TRUSTWORTHY AND RESPONSIVE GOVERNMENT

GOALS:



Design equitable and measurable community engagement



Create more opportunities for collaborative government



Apply data-driven principles to inform decision-making



Engage youth in shaping the future of Oakland

City of Oakland: Resilience Goals

THEME 2: STAY ROOTED AND THRIVE IN OUR TOWN

GOALS:



Increase economic security



Promote safe and healthy neighborhoods



Increase affordable housing stock

THEME 3: BUILD A MORE VIBRANT AND CONNECTED OAKLAND

GOALS:



Reduce current and future climate and seismic risks



Promote urban greening for neighborhoods most in need



Maximize value of collective infrastructure investments



CDMX: Resilience Strategy

**CDMX RESILIENCE
STRATEGY**

**ADAPTIVE, INCLUSIVE AND
EQUITABLE TRANSFORMATION**



CDMX
GOBIERNO DEL ESTADO DE MÉXICO



SHOCKS FACING CDMX



SOCIAL CONFLICTS

Political and social hotspot of the country. Frequent demonstrations.



LANDSLIDES

Urban sprawl and illegal settlements in high vulnerable areas for landslides.



EARTHQUAKES

High seismic activity + geological characteristics + subsidence = high seismic vulnerability.



FLOODS

Extreme rain events during the rainy season in a valley with closed basin and low infiltration and drainage capacity.

STRESSES FACING CDMX



URBAN EXPANSION

42% population growth and 25% city's surface expansion from 1980 to 2010. (Fundación IDEA, 2014)



SOCIAL INEQUALITY & POVERTY

28.4% population are considered under the poverty line and there is a high inequality (Gini of 0.52). (CONEVAL, 2010, 2014)



WATER

32% of the population suffers water scarcity. 41.4% of the water is lost in leakages. (SACMEX, 2014)



MOBILITY

30% trips on private cars account for 85% of the public space. (SEMOVI, 2014)

TRANSVERSAL ELEMENTS FOR BUILDING RESILIENCE



**VULNERABLE
GROUPS
&
COMMUNITIES**

**BUILDING
RESILIENT
COMMUNITIES AT
SPECIFIC SPATIAL
AREAS
OF THE CITY**

**EDUCATION
&
COMUNICATION**

CITY OF MEXICO: RESILIENCE GOALS

PILLAR
01.



FOSTER
REGIONAL
COORDINATION

PILLAR
02.



PROMOTE
WATER
RESILIENCE AS A
NEW PARADIGM
TO MANAGE
WATER IN THE
MEXICO BASIN

PILLAR
03.



PLAN FOR
URBAN AND
REGIONAL
RESILIENCE

PILLAR
04.



IMPROVE
MOBILITY
THROUGH AN
INTEGRATED,
SAFE, AND
SUSTAINABLE
SYSTEM

PILLAR
05.



DEVELOP
INNOVATION
AND ADAPTIVE
CAPACITY

3 RESILIENT URBAN AND LAND USE PLANNING

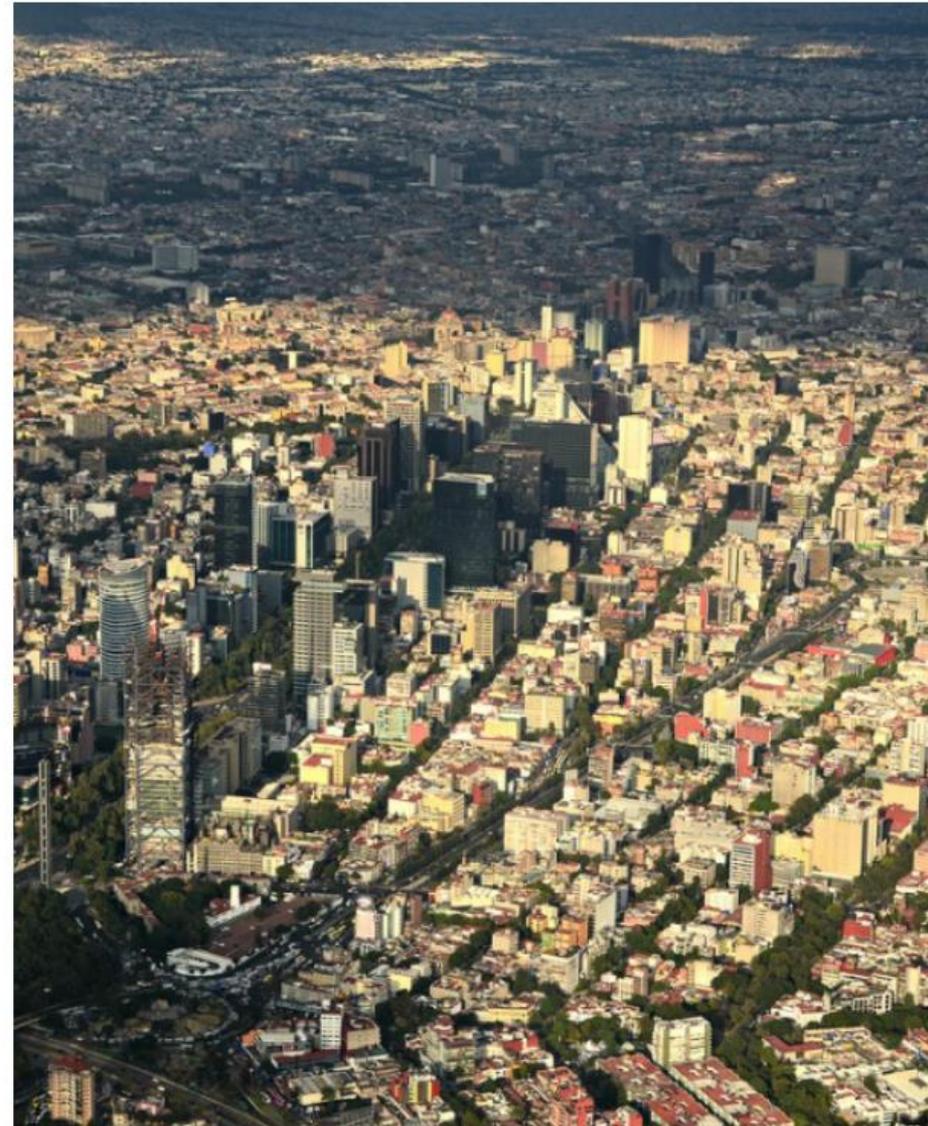
How to build resilience through urban and land use planning in light of the main stresses and shocks that the city is facing?

RESEARCH TOPICS:

- Mainstream a resilience lens in the General Program of Urban Development (2015-2030).
- Integration of a resilience lens in strategic management areas: e.g. Xochimilco, Airport, City of Health.
- Mechanisms that support building resilience in conservation areas.

CHALLENGES:

- Integrating urban and environmental planning.
- Access to critical data such as the Risk Atlas.
- Addressing spatial inequalities.
- Designing a robust and cost-effective monitoring and verification system





PIER 70 SUSTAINABILITY PLAN



Site Plan



Alignment with EcoDistrict Protocol

EcoDistricts®

VERSION | 1.2

PROTOCOL

THE GLOBAL PERFORMANCE STANDARD THAT EMPOWERS
SUSTAINABLE NEIGHBORHOOD- AND DISTRICT-SCALE
DEVELOPMENT



UPDATED 01.2017

TAKE ACTION

Internationally
Recognized
Neighborhood/
District
Sustainability
Framework

<http://ecodistricts.org/>

WE
CALL
ON
**visionary
city makers**
READY TO
disrupt
THE
STATUS
QUO.

Ecodistricts Imperatives

EQUITY

All people have the **opportunity** to participate, reach their full potential, and **thrive**.

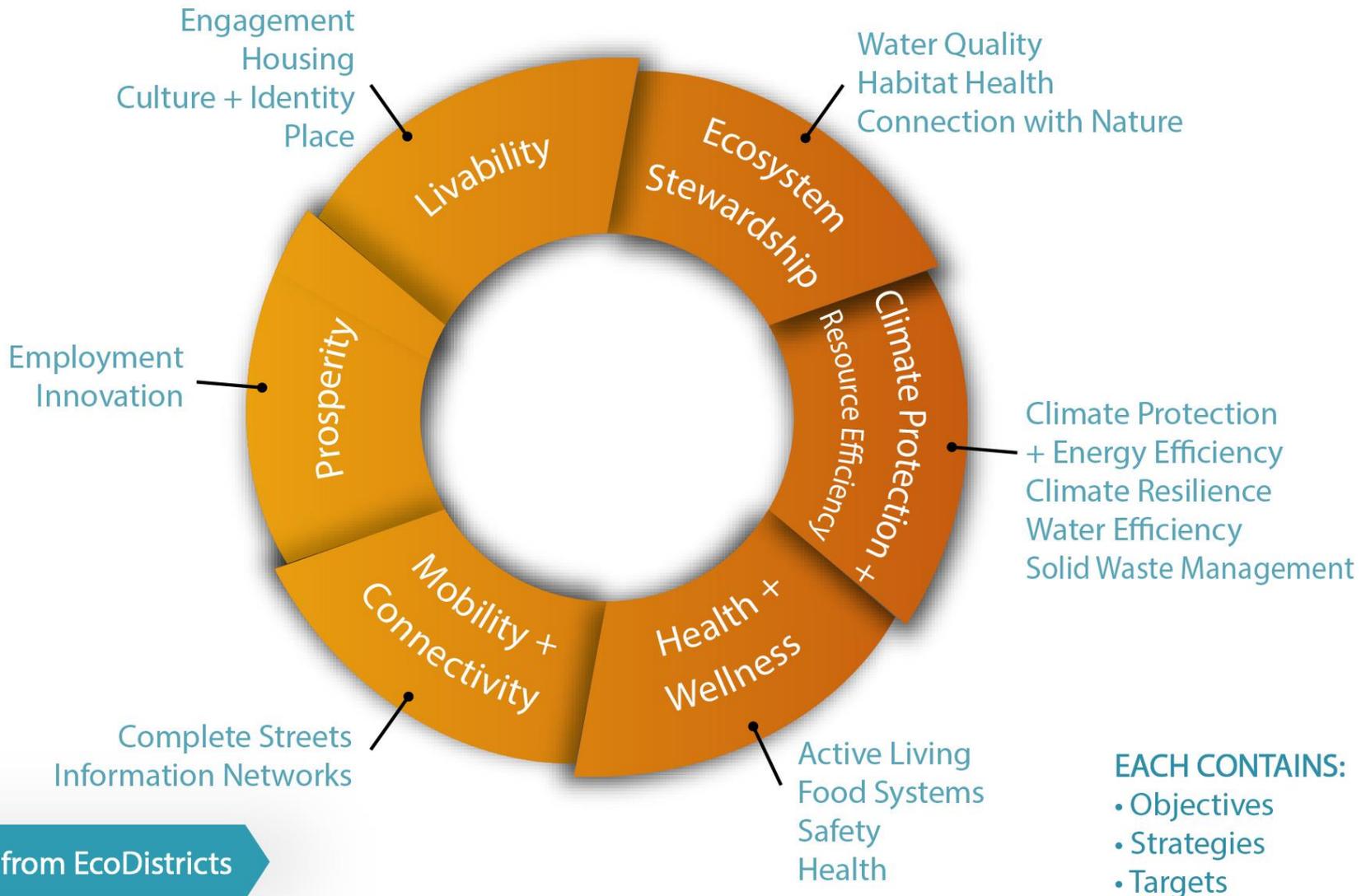
RESILIENCE

Consider how to **prepare** your community for social, technological, economic, environmental, and/or political disruptions and their impacts on health and wellbeing.

CLIMATE

Investments must strive to **minimize ecological impact**, minimize energy and water resource demands, and achieve **carbon neutrality** and beyond.

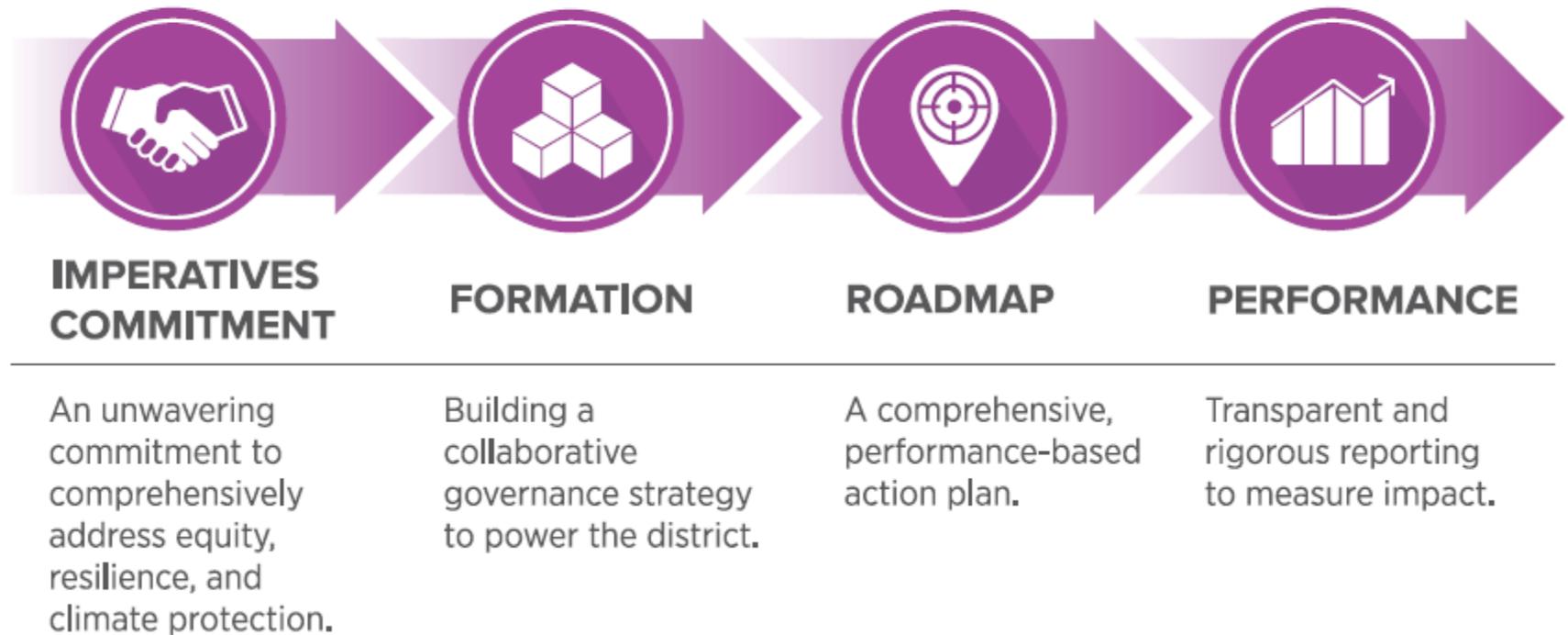
Plan Structure – Ecodistricts Priority Areas



Adapted from EcoDistricts

Plan Structure

APPLYING THE PROTOCOL MEANS TAKING ACTION IN THE FOLLOWING FOUR AREAS — THE FUNDAMENTALS OF SUSTAINABILITY:



Livability: Example Objectives

► Engagement

- Facilitate early and meaningful engagement through years of extensive outreach and continuing with 6 events a year

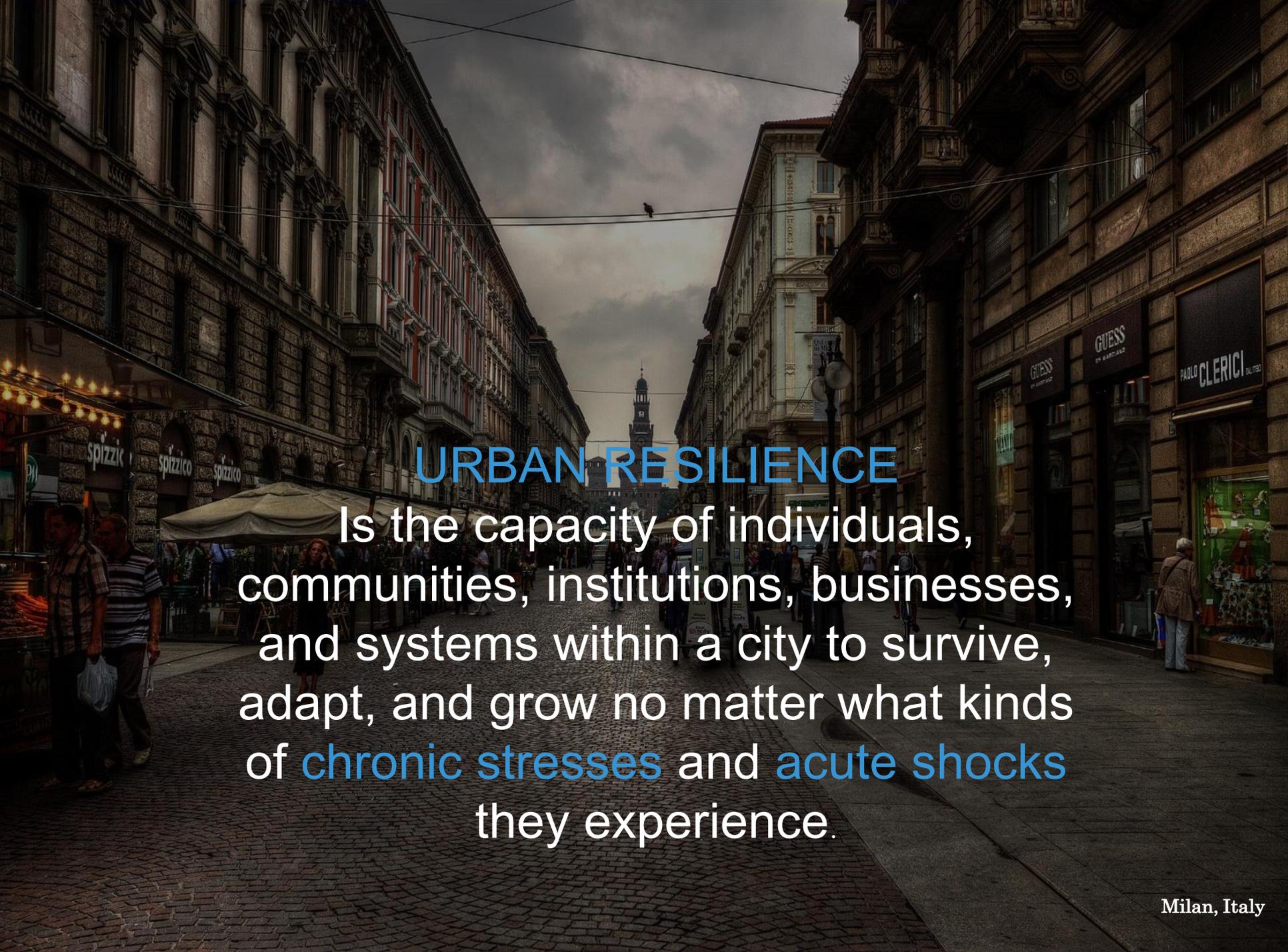
► Housing

- Create accessible, affordable, and adaptable housing with providing 30% affordable housing and 50% or more as rental

► Culture & Identity

- Interpret and celebrate places of cultural and historical significance through reusing multiple historic buildings and having a range of business and industry types on site



A street scene in Milan, Italy, featuring historic buildings, a cobblestone street, and a church spire in the distance. The street is lined with multi-story buildings with ornate facades. On the left, there are shops with signs for 'SPIZZICO' and a cafe with an outdoor seating area. On the right, there are shops for 'GUESS' and 'PAOLO CLERICI'. The street is paved with cobblestones and has a few people walking. In the background, a church spire is visible against a cloudy sky.

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Thank you!

www.100resilientcities.org

www.ecodistricts.org

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