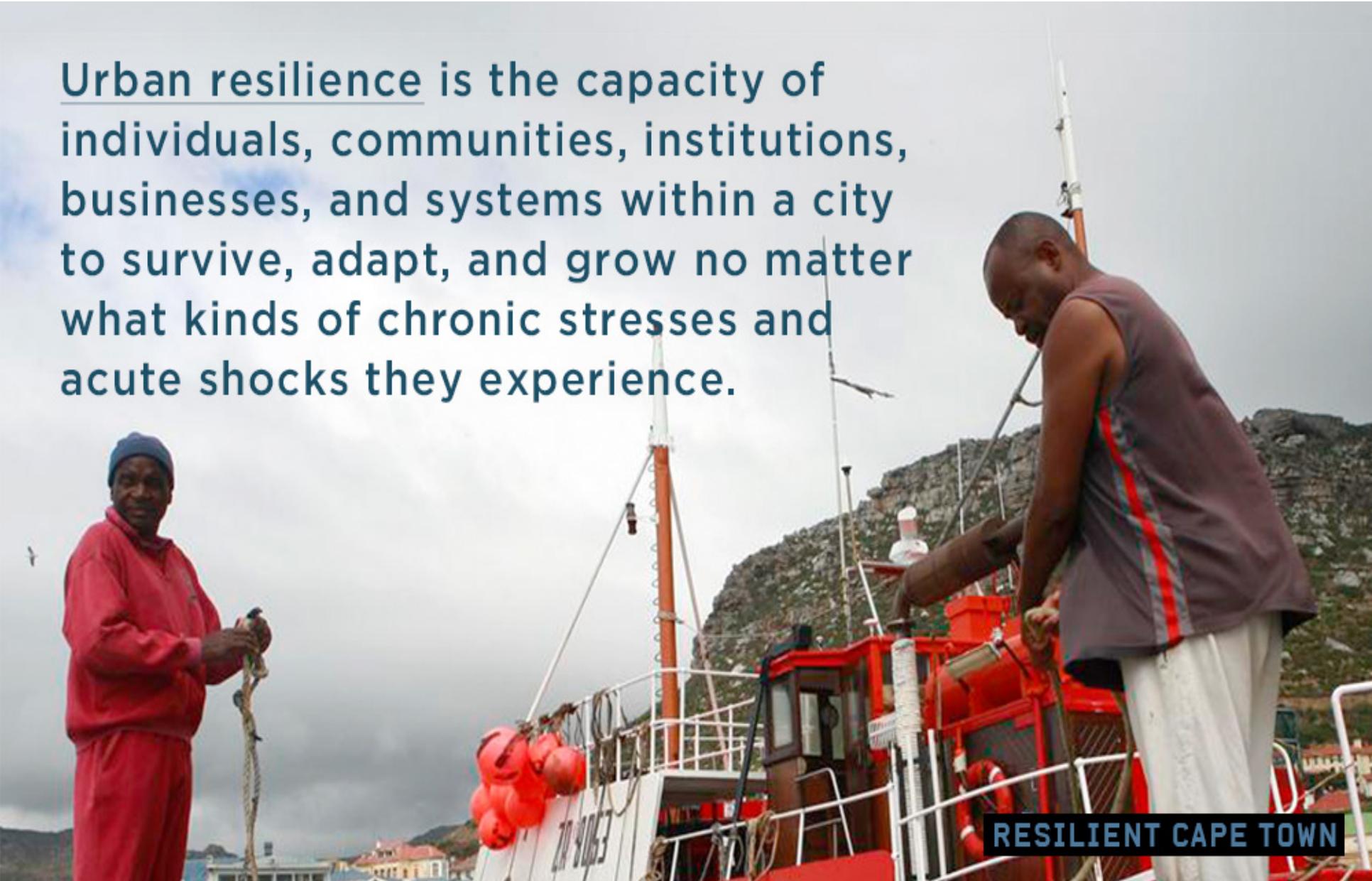


Building Resilience in Cape Town: Leveraging off the drought

Gareth Morgan - Director: Resilience
25 February 2019



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.





Chronic stresses weaken the fabric of a city on a day-to-day or cyclical basis, for example, high unemployment and crime.



Acute shocks are sudden sharp events that threaten a city, for example, earthquakes and floods.

“As we work toward developing our first Resilience Strategy, Cape Town must take the lessons learnt from the drought and apply them to other possible shock events in our future, like cyber attacks and flooding.”



RESILIENT CAPE TOWN



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Where does resilience fit in?

Resilience is a process

Resilience is more than simply coping

Resilience cannot be objectively measured



CITY OF CAPE TOWN
ISIXEKO SASEKAPA
STAD KAAPSTAD



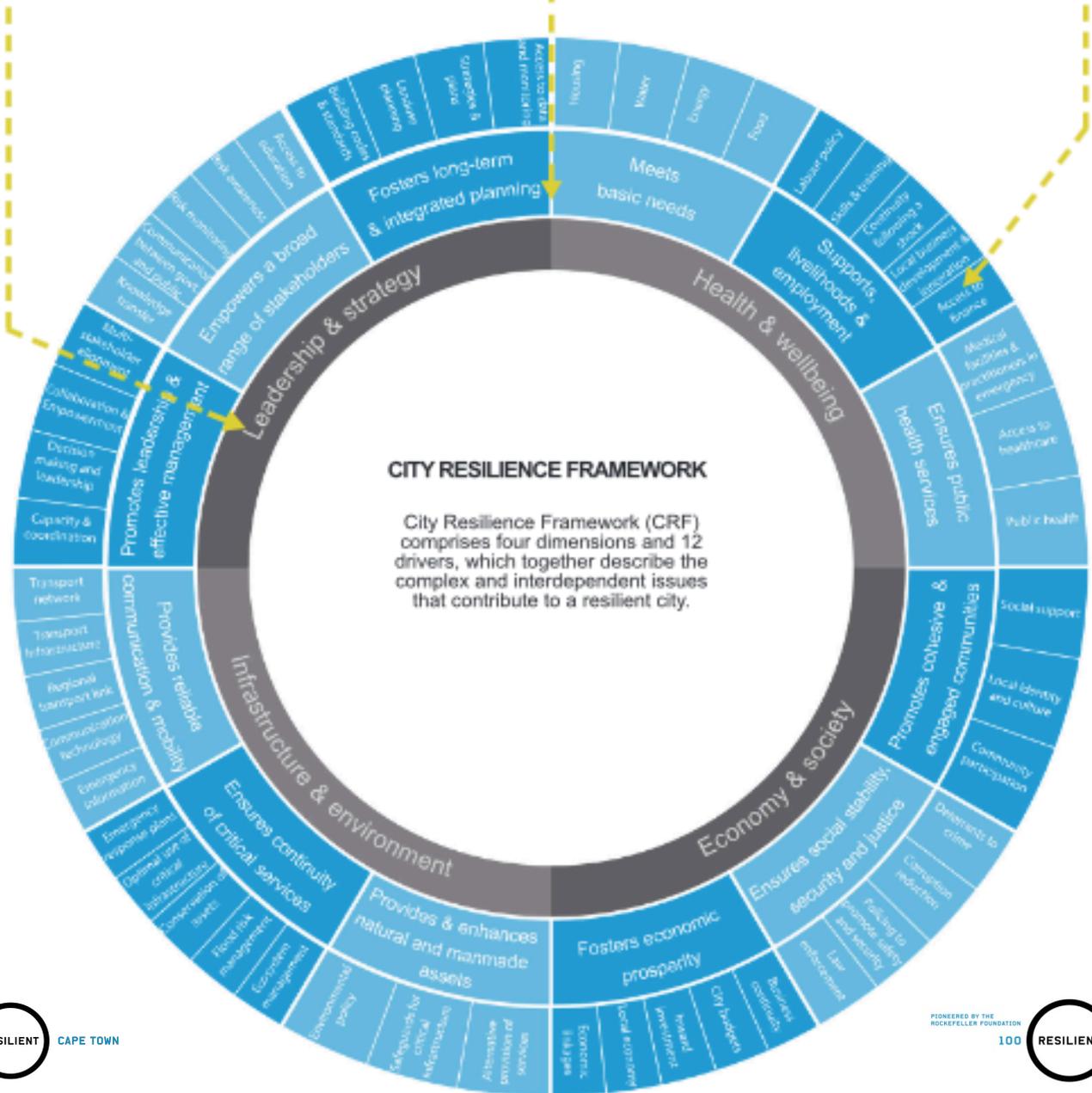
CAPE TOWN

City Resilience Framework

4 Dimensions

12 Drivers

50 Sub-Drivers



Summary of Stakeholder engagement



Prioritised Shocks



CIVIL PROTESTS



STORM SURGE



FINANCIAL/ECONOMIC CRISES



DISEASE OUTBREAK



INFRASTRUCTURE FAILURE



FIRE



DROUGHT



CYBER-ATTACK



NUCLEAR INCIDENT



RAINFALL FLOODING



POWER OUTAGE



HEAT WAVE



Prioritised Stresses



Cape Town City Resilience Index Qualitative output



Legend



worst

best



STAD KAAPSTAD



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Some take-homes from the CRI

Relative resilience vulnerabilities

- Livelihoods and employment
- Empowered stakeholders
- Security and rule of law
- Lack of collective identity and community support



Cape Town's vision for resilience is to be:

DRAFT

- Compassionate, holistically-healthy city
- Capable, job-creating city
- Collaborative forward-looking City
- * Connected, climate-adaptive city
- * Collectively shock-ready city

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Some lessons from the drought

Invest in partnerships beyond the City

Share information to build public trust

Increase redundancies in the system

Embrace the realities of climate risk

Strengthen adaptive leadership capabilities

Some lessons from the drought

Resilience Pillar	Drought impacts multiplied by stresses	Successful actions by Capetonians and government to prepare for and defeat Day Zero	Lessons learnt from the drought relevant to most shock events
Compassionate, holistically-healthy city	Trauma Poverty	Activation of neighbourhood watches, with focus on assisting vulnerable groups Donations of bottled water to vulnerable groups	Invest in people and communities
Connected, climate-adaptive city	Climate change Food insecurity Rapid urbanisation	Household installation of rainwater tanks and boreholes Capetonians driving down consumption in homes through conservation and use of grey water Creation of spring water collection points in communities Greater understanding of climate risk Advanced pressure management in the City reticulation system New water augmentation systems rapidly installed by the City	Integrate climate change into planning Build spare capacity for times of disruption

Some lessons from the drought

Resilience Pillar	Drought impacts multiplied by stresses	Successful actions by Capetonians and government to prepare for and defeat Day Zero	Lessons learnt from the drought relevant to most shock events
Capable, job-creating city	Unemployment	<p>Business continuity planning by businesses</p> <p>Innovative water saving products brought to market for consumers</p> <p>Increased use of treated effluent water for business processes</p> <p>Business driving down consumption and encouraging customers to do so too</p>	Understand resource constraints and turn them into opportunities
Collectively, shock-ready city	Lack of social cohesion	<p>Critical Water Shortages Disaster Plan</p> <p>Disaster declarations and joint operations by local, provincial and national governments</p> <p>Day Zero communications campaign</p>	<p>Invest in partnerships</p> <p>Practice responding to worst case scenarios</p>

Some lessons from the drought

Resilience Pillar	Drought impacts multiplied by stresses	Successful actions by Capetonians and government to prepare for and defeat Day Zero	Lessons learnt from the drought relevant to most shock events
Collaborative, forward-looking City	Insecure municipal finances	<p>City communications materials made open-source for business & community use</p> <p>Water restrictions and high water consumption tariffs</p> <p>Partnering with agricultural users to receive emergency transfer of water</p> <p>Sharing of regularly updated Water Outlooks by the City for improved decision making by partners</p>	<p>Strengthen leadership to enable flexible, adaptive decision-making</p> <p>Share information to build public trust</p> <p>Build systems and relationships of mutual accountability between spheres of government</p>

Key questions

How can we pivot off the drought to become a **permanent shock-ready city**?

How can we replicate the same collective effort we displayed in responding to the drought shock to **respond to continuous stresses** in our city like poverty and unemployment?

How can you get involved?

Opportunity for validation workshops on the Strategy from 15 May to 12 June

- **Host a session or attend one**

Do one or more of the following actions in the draft pledge in the Resilience Strategy

- Investigate and understand how shocks and stresses create city-wide and local place-based risks for your organisation
- Engage with the people in the city who are most impacted by your decisions
- Clarify your role in building Cape Town's resilience
- Engage in training and capacity building across your organisation
- Develop an action plan for your organisation and adopt the directions for resilience
- Undertake action and investment