

## CITIES AS CLIMATE RESILIENCE CHAMPIONS

Neuni Farhad 03 July 2019

# C40 organizes the top cities focused on the toughest climate targets in the world



Million Citizens



1/4 of global economy

## The C40 Deadline 2020 Program

Aims to support every city, by 2020, to...



## MITIGATE...

Work to keep global warming within safe levels – 1.5 degree future

## ADAPT...

While also preparing for it's worst impacts – meaningful reduction of climate risk

## ...DELIVER FOR ALL

Delivering these and their benefits to all citizens in all cities – inclusivity at the heart

## By Cities for Cities - A Global City Engagement Model





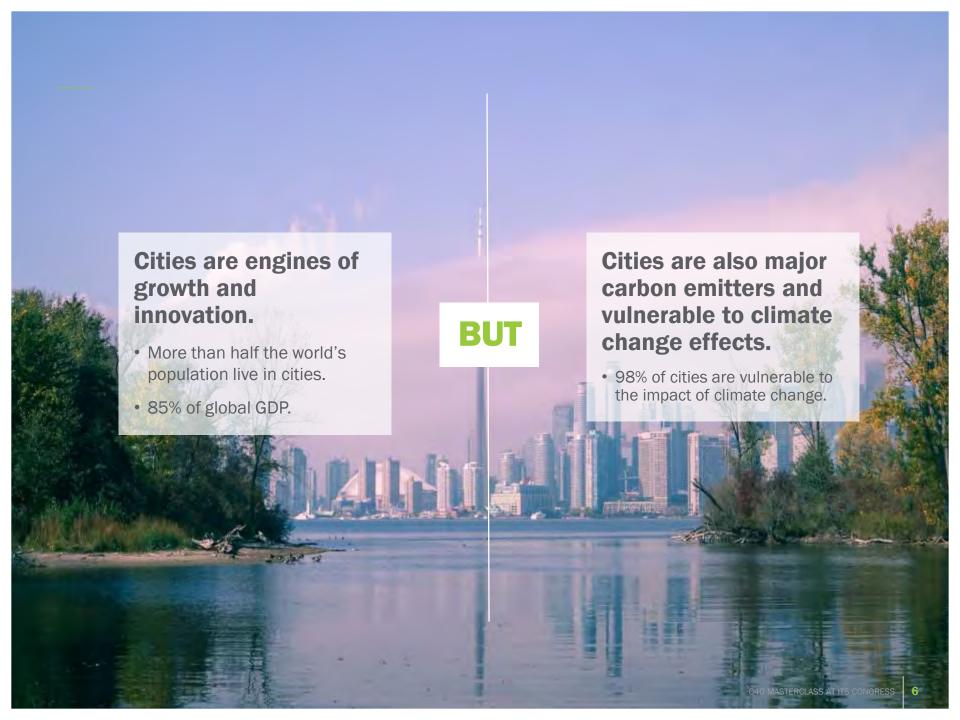


**Content-Focused Initiatives & Networks** 

**Direct Support to Regions & Cities** 

Research,
Communications, &
City Diplomacy

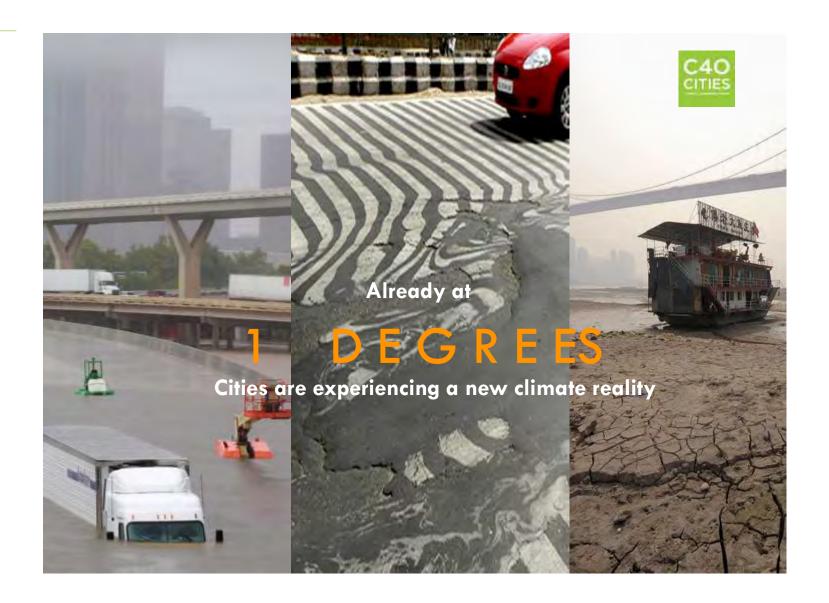




# CITIES CAN MAKE THE DIFFERENCE

Under 500 cities will be responsible for 60% of global economic growth





# The impacts of climate change



## The Future We Don't Want: Cities & heat extremes



By the 2050s

1.6 people could face average summer temperature mons of 35.0 (98/F)

BILLION



970 cities could be affected, 620 more than today.

 Cairo, Egypt, today has average summer highs of 34" 0(93"F).

70,000

deaths

The 2003 heatwave that hit Europe caused an estimated 70,000 deaths

High temperatures pose a severe risk to human health. The elderly, young children and people with medical canditions are most at risk.

35°C+







In the US, heatwayes kill more than 600 people per year on average, more than all other climate hazards #1

Heat affects workforce productivity. By 2030 annual global heat-related productivity losses could cost \$2 trillion.

\$2 trillion

#### Cities can adapt by:















Developing easily warning systems.











## The Future We Don't Want: Cities & energy



By the 2050s

230 have nearby power plants that may be valuerable to half a metre of see level rise.

CITIES

More than 1,400 power plants may be at risk

Over 450 million people live in these cities.

Climate impacts will also affect distribution systems.

•180,000<sub>...</sub>

These power plants provide 180,000 megawatts of electrical capacity.



Cifies are power hungry, consuming around three quarters of total primary energy supply.



\$70

Climate impacts to energy systems are costly for cities.

Weather disruptions to the U.S. power sector today cost up to \$70 billion per year.

#### Cities can adapt by:



Increasing energy system resilience











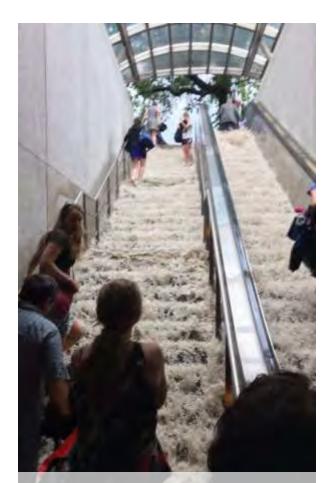












Washington D.C. 2016



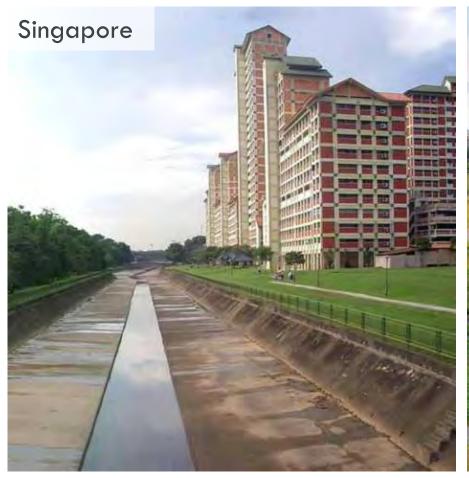
Madrid 2017

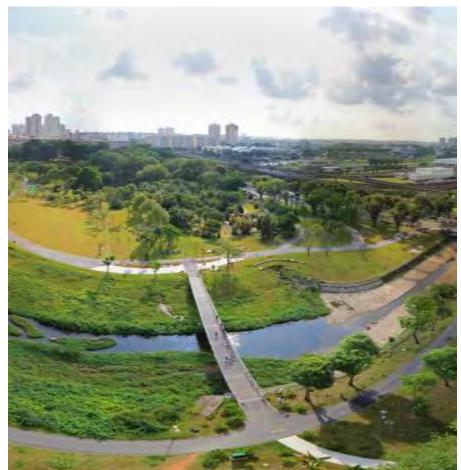


Paris 2017

# WHAT ARE THE SOLUTIONS IN CITIES?







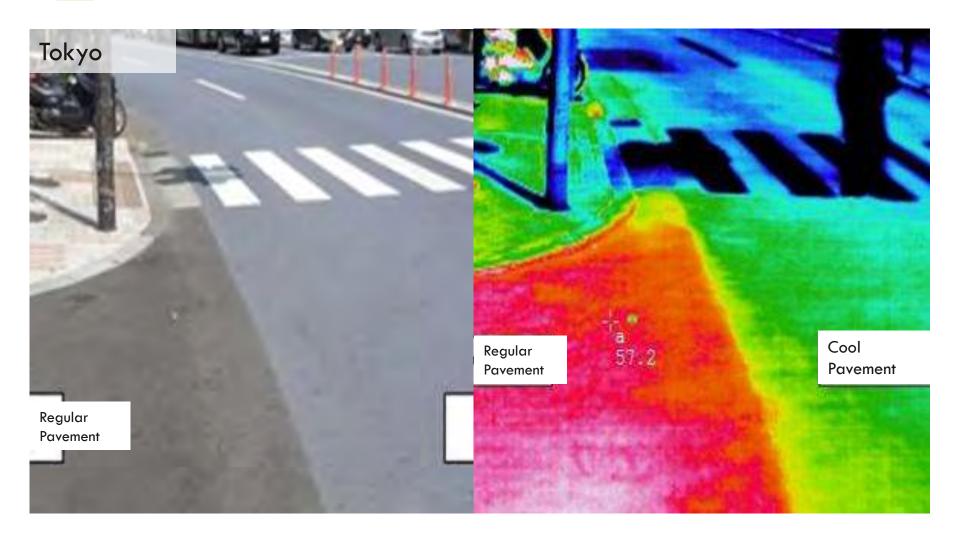




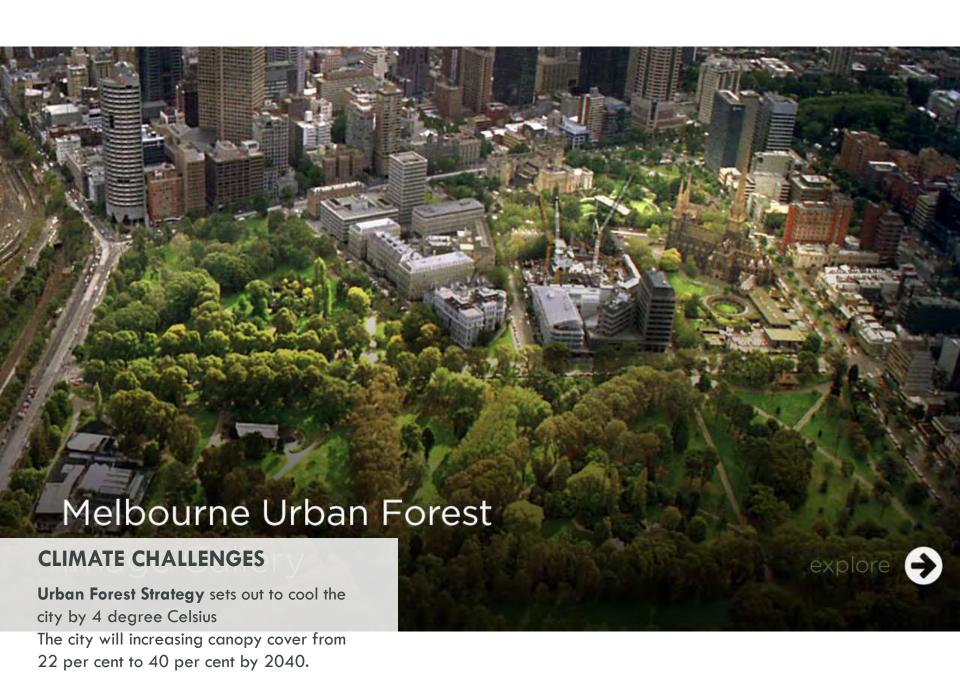






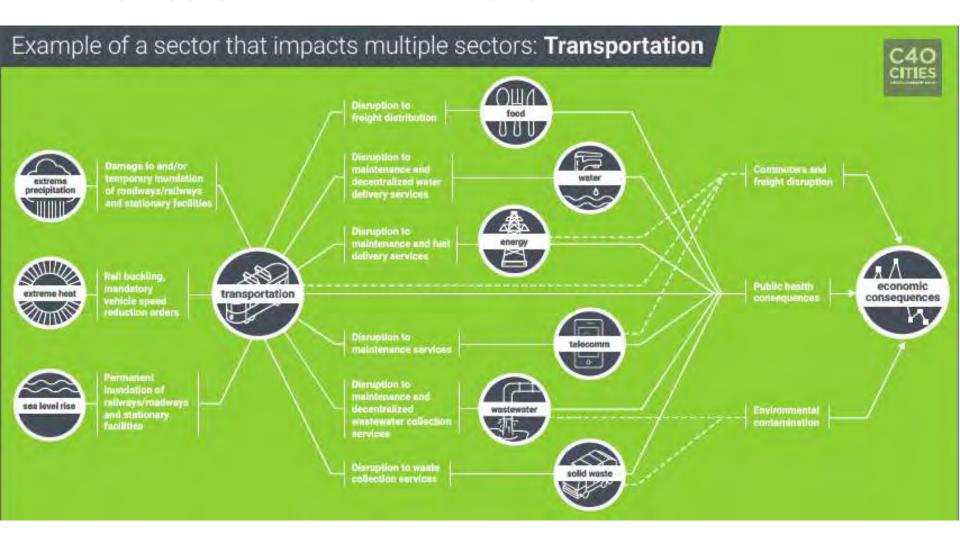






# WHAT DOES A SUCCESSFUL CITY LOOK LIKE?

## INFRASTRUCTURE INTERDEPENDENCIES



# **Adaptation and Mitigation Interaction Assessment Tool**

A tool that assesses the interactions between adaptation and mitigation actions



Synergies



Trade-offs



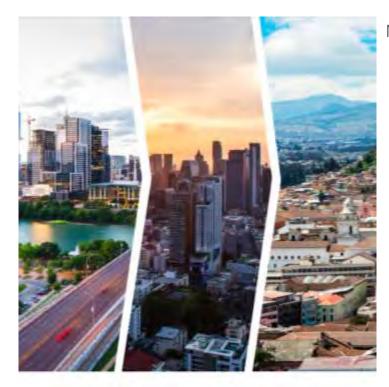
Mal-investment



Piggybacking



# **Measuring Progress in Urban Climate Adaptation**



MEASURING PROGRESS IN URBAN CLIMATE CHANGE ADAPTATION

FONDEN

Monitoring Evaluating and Reporting Framework



### **Guidance Document**

 A step-by-step guidance on constructing the MER framework and intervention logics for adaptation actions in cities



## **Indicator Matrix**

- A list of intervention logics for the most commonly implemented adaptation actions in cities
- List of indicators for cities to use
- A methodology behind outcome indicators



## **Indicator Manual**

- A short guidance to navigate the indicator matrix
- Explanations of key principles behind indicators

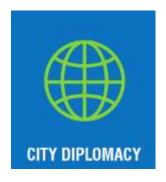
# **C40 ADAPTATION**



## **C40's Adaptation Programme**











# **Thank you**

CONTACT

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Adaptation Masterclass
 Leadership Symposium

(Technical Assistance)

- 2. Risk Assessment
- 3. Strategy Development
- 4. Implementation
- 5. Monitoring and

Evaluation



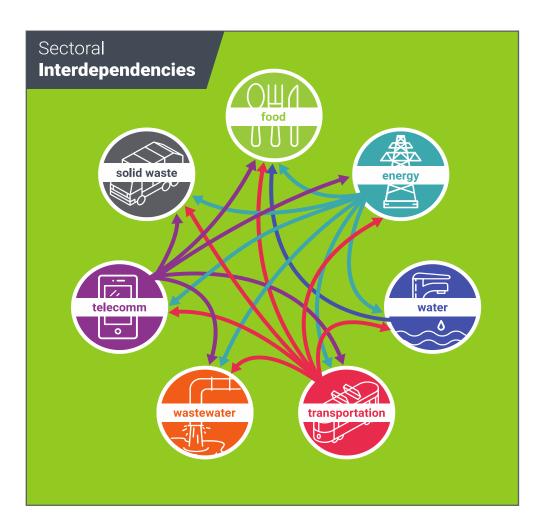


- Risk Assessment
  Network
- ➤ Cool Cities
- Connecting Delta Cities





- ➤ Impact 2020
- Synergising Mitigation and Adaptation
- > Monitoring and Evaluation
- > Interdependencies
- > Adaptation and equity





- ➤ Embedding Adaptation across C40 Networks
  - > Transport
  - ➤ Land-use planning
- ➤ Deadline 2020 Measurement and Planning









