

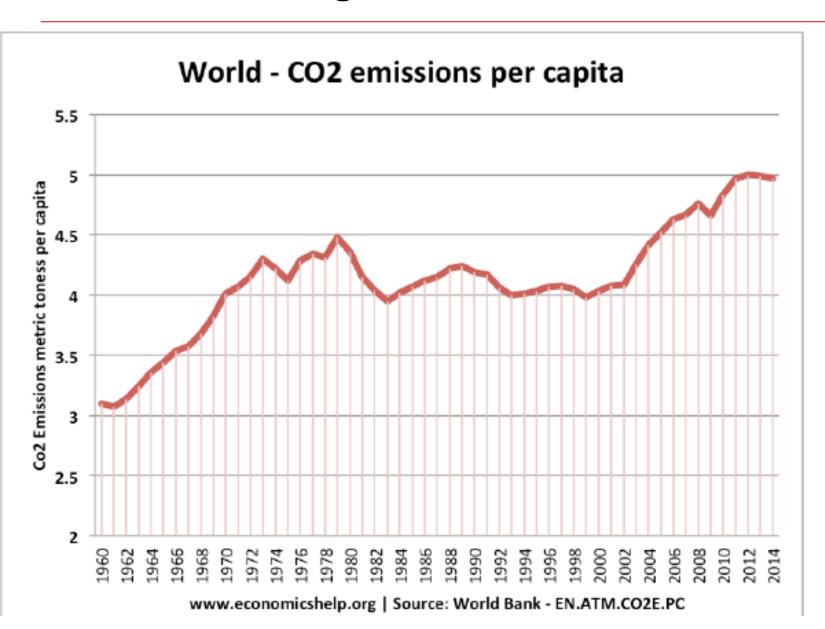
## C40 Cities: An international alliance of mayors



### Cities feel the impact of climate change first



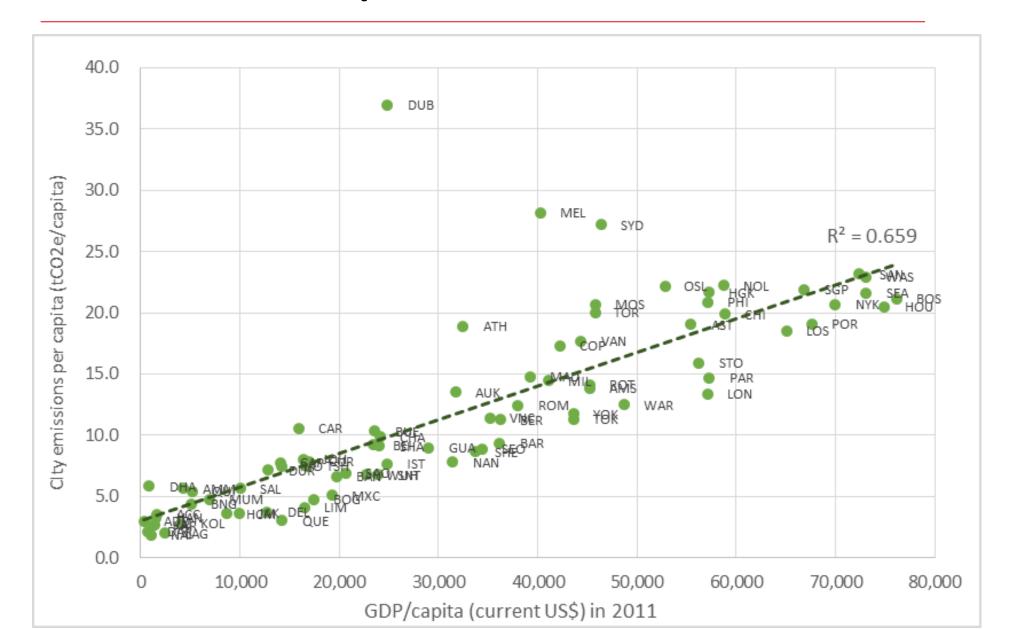
#### We are still losing the climate battle



 Global emissions have risen 60% since the Kyoto Protocol

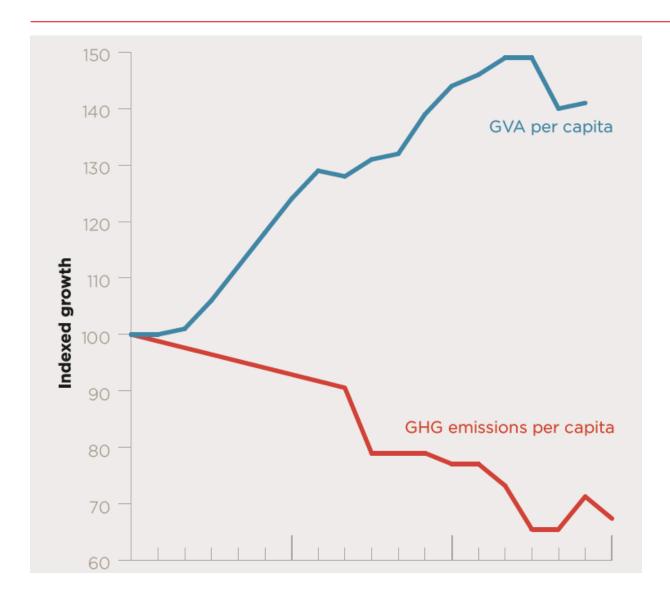


#### We haven't decoupled emissions from GDP





### But a few cities have shown that it is possible



Stockholm decoupled economic growth (+41 %) and emissions (-35%) between 1993 and 2010

**Source: LSE Cities** 

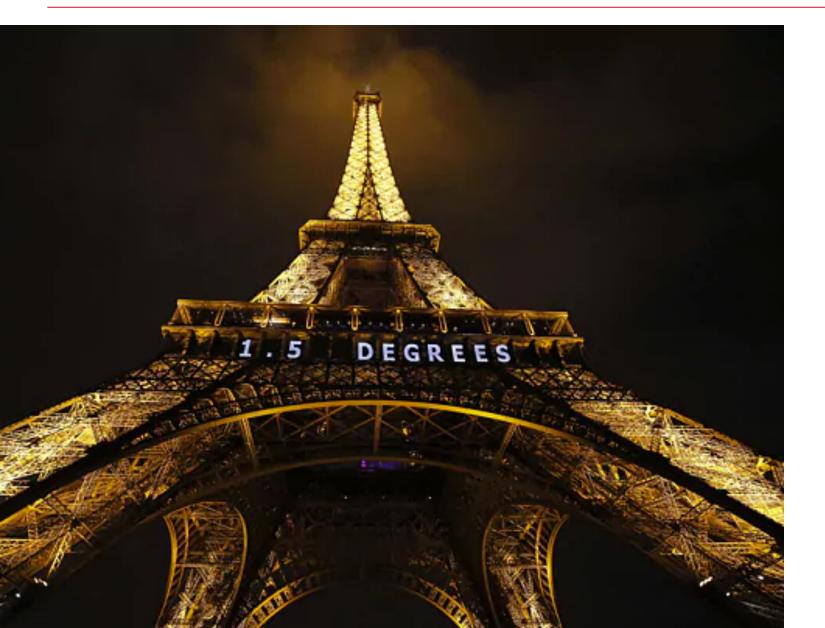








#### Cities are turning the Paris Agreement into action

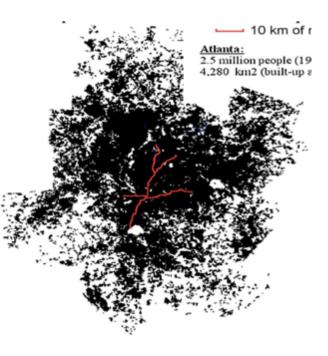


- All C40 Cities will committed to 1.5 degree compliant plans by 2020
- If all cities follow –
   achieve over a third
   of the Paris goal



#### Sustainable cities will be compact and dense

**ATLANTA** 



Population: 2.5 million

Rapid Transit: 74 km

Urban area: 4,280 km²

Per capita transport CO<sub>2</sub>: **7.5 t** 

#### **BARCELONA**



Population: 2.8 million

Rapid Transit: 153 km

Urban area: 162 km²

Per capita transport CO<sub>2</sub>: **0.7 t** 

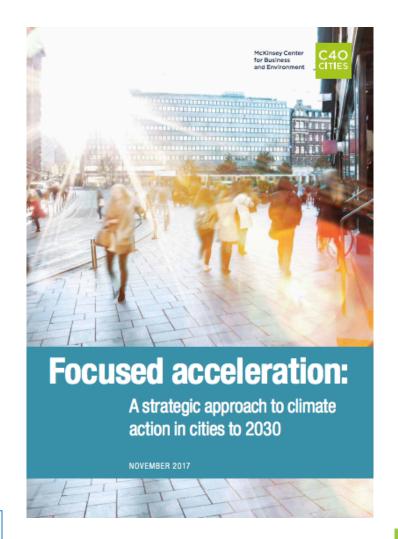


### Achieving a zero carbon city requires huge & rapid change

As opposed to working simultaneously on hundreds of potential actions, cities can achieve 90-100% of required emissions reductions by focusing on 12 opportunities in these four action areas:

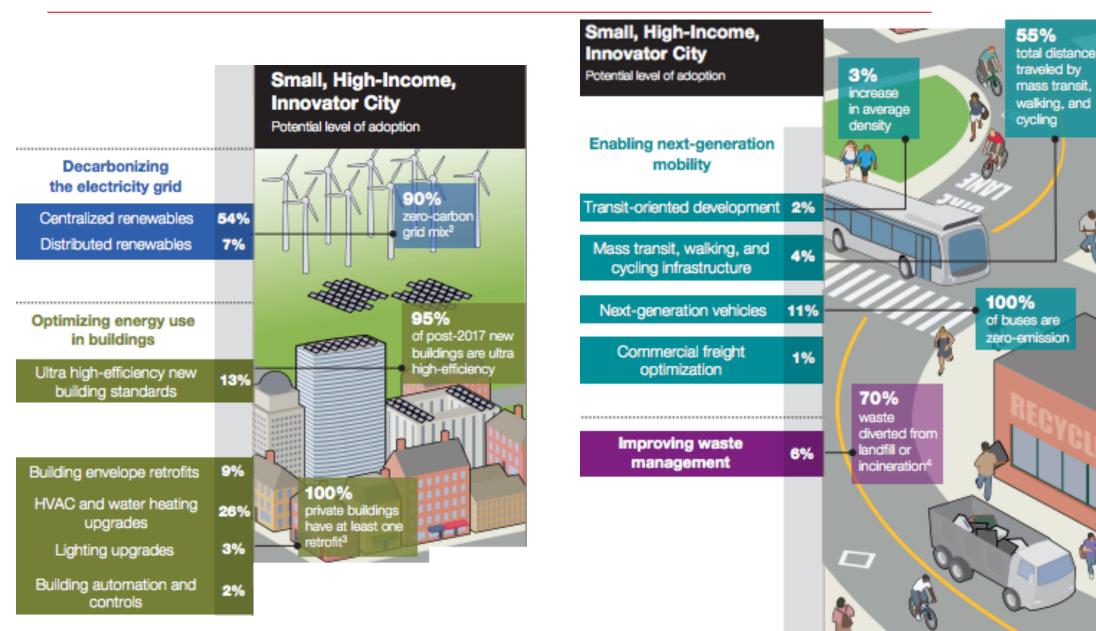
- Decarbonizing the grid (massive expansion of large-scale renewable power generation);
- (2) Optimizing energy efficiency in buildings;
- (3) Enabling next-generation mobility; and
- (4) Improving waste management

• https://www.c40.org/researches/mckinsey-centerfor-business-and-environment





### Achieving a zero carbon city requires huge & rapid change







#### The majority of trips will be by foot, bike or shared transportation



- 2030 TARGET: 57% travelled by mass transit, walking & cycling
- London first major city to achieve shift from car to public transport
- Oslo banning cars from city centre by 2019

### All buses will be zero carbon by 2030 (and cop cars too?)



- TARGET: 100% electric buses by 2030
- 16,000 EV buses in Shenzhen already
- LAPD procured 100 electric police cars last year



#### Leading cities are committed to Fossil Fuel Free Streets



- Procure only zero-emission buses from 2025 and ensure that major areas of their city are zero emission by 2030
- 14 cities, including London, Paris, LA, Vancouver
- Other cities invited to join
- http://www.c40.org/other/fossil-fuel-free-streets-declaration

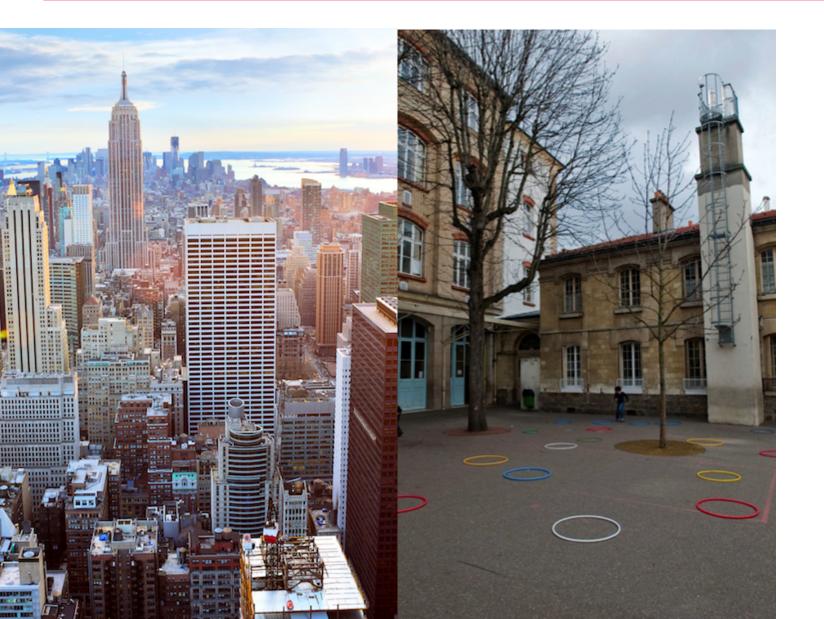


#### Zero carbon buildings will be the norm



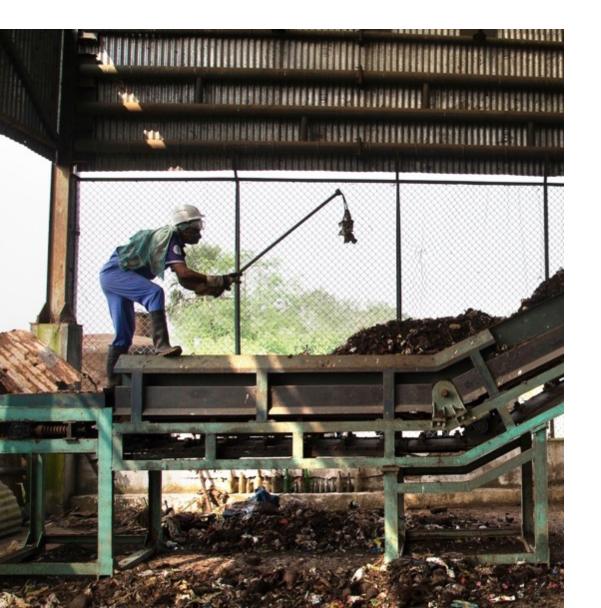
- TARGET: 95% new buildings to be ultra high efficiency.
- Stockholm: All new buildings built on city-owned land required to consume less than 55 kWh/m2 – almost half national requirements.
- Vancouver: net zero carbon standards for all new municipal buildings.

#### Complete overhaul of existing building stock



- TARGET: 100% private buildings have at least 1 retrofit
- NYC: Mandatory retrofit of 14,500 least efficient buildings that cause 24% of city's emissions.
- Paris is retrofitting 600 schools to cut emissions 30% by 2020

#### On the path to zero waste to landfill & incineration



- TARGET: 71% of waste should be diverted from landfill & incineration.
- For every 1kg of waste we discard,
  70kgs of waste is generated in the manufacture, packaging and transport
- San Francisco: a zero waste city by 2020. Today 80% of its waste diverted away from landfills with 650 tons of organic waste collected every day



#### Tackling wasteful consumption



- 33% of all food is wasted, and food production accounts for up to 20% of emissions.
- Copenhagen: 88% of food in schools, nurseries and hospitals is organic.
- During Milan Expo, 15 tonnes of leftover food used to feed homeless people instead of going in the bin.



#### Electricity needs to be more or less decarbonized by 2030



- TARGET: 90% renewable energy.
- Vancouver: committed to 100% renewable energy (power, heat and transport by 2050)
- Melbourne renewable energy project – Joint tender with banks, universities, post office & Melbourne zoo



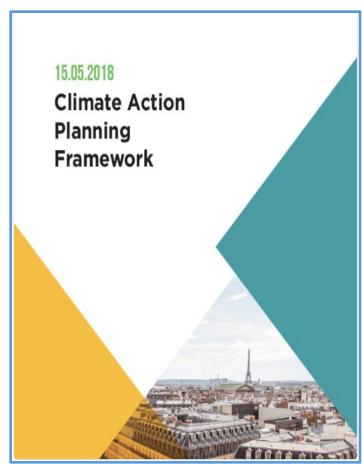


**UNDERWAY** 



# C40 Climate Action Planning Framework & Resource Centre launched!





https://resourcecentre.c40.org/



#### **Collaboration works**



- The Paris Agreement goals are incredibly challenging
- Requires unprecedented collaboration and urgent action
- But cities are showing what is possible and now starting to collaborate with states, businesses, investors and civil society.



# Thank you!

