



Reinventing Cities

AN INTERNATIONAL
COMPETITION FOR
INNOVATIVE, RESILIENT AND
ZERO-EMISSION URBAN
REGENERATION PROJECTS



Costanza De Stefani – Cape Town, 14/02/2020

C40 Cities Climate Leadership Group

96

World Largest Cities

700+

Million Citizens



1/4 of global economy



- Mayor of LA, Eric Garcetti Chair of C40
- Michael Bloomberg President of C40 Board

The Climate Crisis



Climate action must move from a peripheral issue to the central organizing principle of society



The Climate Crisis

- Buildings account 50% of total urban emissions of C40 cities
- Construction materials cover over 30% of global resource consumption
- By 2050 an additional 2.5 billion people will live in cities. By then we will need to build 1 billion new homes

The way we design and build our cities today will define the world of tomorrow
Zero carbon & resilient projects must become the norm if we want to avoid climate breakdown



The Climate Crisis



BUILDINGS

Ensuring that every new building is zero carbon by 2030



MOBILITY

Creating clean air zones and promoting walking & cycling schemes



WASTE

Cut by 50% total waste disposed and reduce total waste generated per capita by at least 15%

Reinventing Cities, innovation for climate

A global competition, with common objectives:

- Reduce emissions from buildings and decarbonize the built environment
- Propose innovative urban planning in cities and new sustainable services for inhabitants
- Create smart and replicable solutions to catalyse the ecological revolution and systemic change in Cities



How does it work?



The success of the 1st Edition



- **Multidisciplinary Teams** on average 14 different firms per winning team
- **1.200+ participating firms**
- **20 winning projects** in 10 international cities



- **400+ articles** on Reinventing Cities
- **1 million** #ReinventingCities hashtag on social media
- **300.000+ visitors** on the website

The 1st Edition – New models of *building and living*



The Collective for Climate, Paris, France



Green Garfield, Chicago, USA

- **Eco-construction:** timber construction, use of local bio-sourced materials (mudbricks, hemp), reuse of waste materials from demolition sites
- **Sustainable Design:** Passive House standards, reversible buildings, co-living spaces
- **Energy Efficiency:** on-site production of clean energy and sharing of surplus with the neighborhoods
- **Sustainable Mobility:** Car-free sites, garages and services for bikes, electric vehicles implementation and car- & bike-pooling

The 1st Edition – New models of *building and living*

- **Green Activities:** fab labs, zero-waste stores and restaurants, incubators for green start-ups
- **Green Spaces:** urban forests & agriculture including greenhouses, orchards, vineyard, aquaponic farm, beehives
- **Inclusive Initiatives:** Zero carbon social housing, reactivation of a disused market in low income neighborhood, services for elderly and people with disabilities



Vitae, Milan, Italy



Tomorrow Montréal, Canada

The 1st Edition – New models of *building and living*

Some winning projects **set new national standards**

- 1st zero carbon social housing of Italy
- largest wood building of Iceland
- 1st zero carbon neighborhood of Paris
- largest urban solar farm of Texas



Living Landscape, Reykjavik



Recipe for Future Living, Oslo, Norway

RC solutions are being **scaled across the cities**

- **upcycling** building materials from nearby demolition site in Oslo
- **modular passive house** building in Chicago
- **construction machine engines** powered by electricity in Reykjavik

Some cities are **changing their procurement's rules to reinforce environmental and social requirements**



Te Kopua, Auckland, NZ **.1**

Participating Cities



The 10 challenges for teams



Carbon Impact

- Energy efficiency and low-carbon energy (mandatory)
- Life Cycle Assessment & sustainable materials management (mandatory)
- Low carbon mobility



Resilience & sustainability

- Resilience & adaptation
- Ecological services & green jobs
- Sustainable water management
- Sustainable waste management
- Biodiversity, urban revegetation & agriculture



Inclusion Social benefits Architecture

- Inclusive actions, social benefits and community engagement
- High-quality architecture

A competition in 2 phases

Phase 1

Expression of Interest



Selection of 3 finalist teams

Bidding teams present a “light” proposal:

- Description of the team and its organization
- Presentation of the project and development concept for the site (ref. to the 10 challenges)
- Presentation of the intended legal and financial set up

Phase 2

Final Proposal



Selection of one winning team per site

- Detailed presentation of the project
- Legal setup and financial agreement
- The Performance Monitoring Protocol

Common Process / Local Specificities

- **Phase 1** a common regulation document and a **Site Specific Requirements** document (SSR)
- **Phase 2** a specific regulation sent to the finalist team
- **C40** supports Cities throughout the competition and for the project selection
- **Each city** will organize the legal arrangement to finalize the site transfer to the winning team



Characteristics of the bidding teams

- **Multidisciplinary team** including start-ups, architects, community members, developers, site operators, future users of the site etc.
- From the phase 1 *at least* an **architect & an environmental expert**
- Has **financial capacity** to implement the project
- Identifies a **representative** that will bear ultimate responsibility on behalf of the team and the **main point of contact** of the team for C4O and the city



Evaluation of the Expression of Interest



The relevance of the project to the specifics of the site (site-specific challenges and city's objectives)

The suitability of the team (coherence between the composition and the skills of the team and the nature of the project)

The solutions proposed to address the 10 challenges

Website and useful tools

www.reinventingcities.c40.org



Common Documents

Documentation

Reinventing Cities_Regulation_English

Reinventing cities_Regulation_Italian

Reinventing Cities_Regulation_French

Reinventing Cities_Regulation_Spanish

Reinventing Cities_Regulation_Portuguese

For each site: SSR and Dataroom



Documentation

Regulation - Expression of Interest Phase

SSR_Singapore_Bukit Timah Fire Station

Dataroom Access

Download specific documents for this site

[Click to access](#)



“The Reinventing Cities competition has inspired exactly the inventive collaboration we need to combat the climate crisis - from the skills and creativity of architects, artists, environmentalists and entrepreneurs.

Reinventing Cities is more than an innovative competition - it is providing vital solutions to build the urban future we want.”

Mark Watts

C40 Executive Director

Thank you



C40 CONTACTS

Costanza De Stefani & Helene Chartier

reinventingcities@c40.org

Reinventing Cities



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