



# Climate Change and Future Cities

Examples of European Urban Innovation



Climate-KIC is supported by the  
EIT, a body of the European Union

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# Climate Change and Future Cities



- Climate-KIC
- The need and opportunity for future cities
- 6 x European examples of future cities / future infrastructure
- Application for Auckland / NZ: Delivering more for less
  - Joined up infrastructure
  - Nature as essential infrastructure
  - New business models
  - Think differently
  - Data as enabler
  - Innovative financing

# Climate-KIC – Knowledge Innovation Community





# The need and opportunity for Future Cities



A photograph of a massive glacier, likely the Perito Moreno Glacier, flowing into a body of water. The glacier is a deep blue color, indicating ancient ice. In the background, dark, rugged mountains rise under a blue sky with scattered white clouds. The foreground shows some dark, leafless trees and a rocky shoreline.

## The Challenge:

- 7 of 8 hottest years ever since 2005
- Global average temp in 2016 1.3° hotter than pre-industrial average
- US: 8 separate \$bn weather disasters first 5 mths 2016



An aerial photograph of a city skyline at sunset. The sky is filled with dramatic, colorful clouds in shades of orange, yellow, and blue. The city below is densely packed with skyscrapers and buildings. A river or canal winds through the lower part of the image, with a bridge crossing it. A large, semi-transparent blue circle is overlaid on the right side of the image, containing white text.

## The Opportunity:

- US\$90 trillion invested in infrastructure next 15 years
- \$5.5 trillion market for low carbon tech and products
- Co-benefits for health, well-being, resource use, food and mobility



## 6 x European examples of future cities / future infrastructure

# Smart Sustainable Districts: Joined up infrastructure

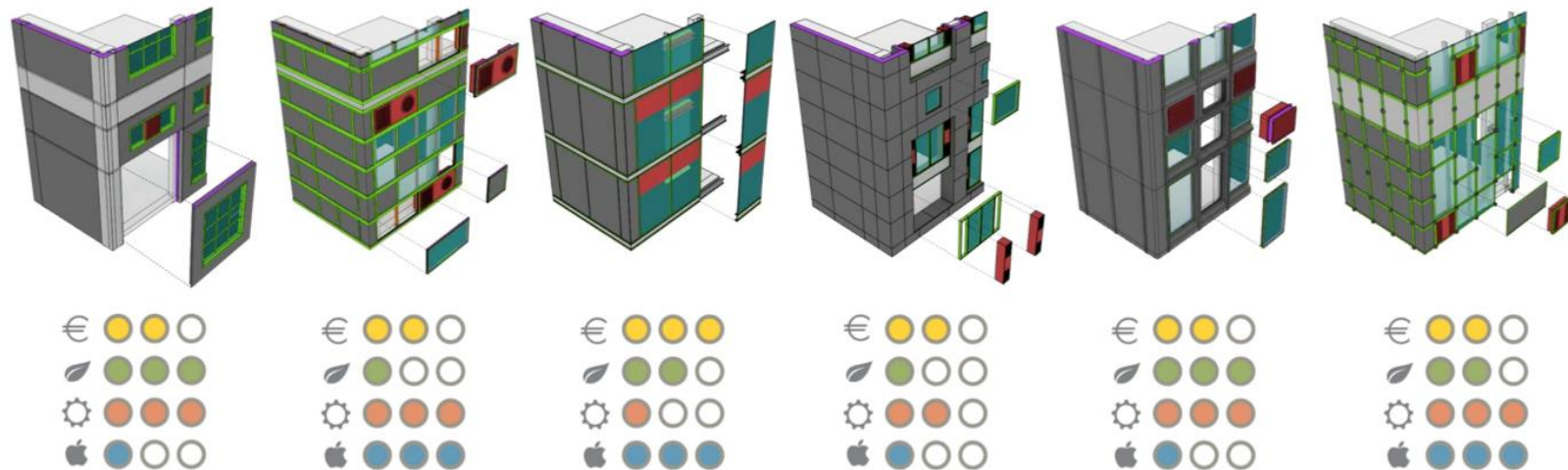




# Blue & Green Infrastructure: Nature as essential infrastructure



# Façade leasing: New business models



Nerdalize:  
Think differently





OASIS+:

Data as enabler

OASIS+

Open access catastrophe modelling  
driving adaptation to enable resilience  
in an uncertain future



# Low Carbon City Lab: Innovative Financing

LoCaL aims to reduce 1 Gt of CO<sub>2</sub> annually and leverage € 25 billion worth of climate finance for cities by 2050. The platform's partners provide cities with better tools for assessing greenhouse gas emissions, planning, investing and evaluating progress. Our activities include:

## Assessing

Atmospheric monitoring tools for more accurate greenhouse gas inventories

## Financing

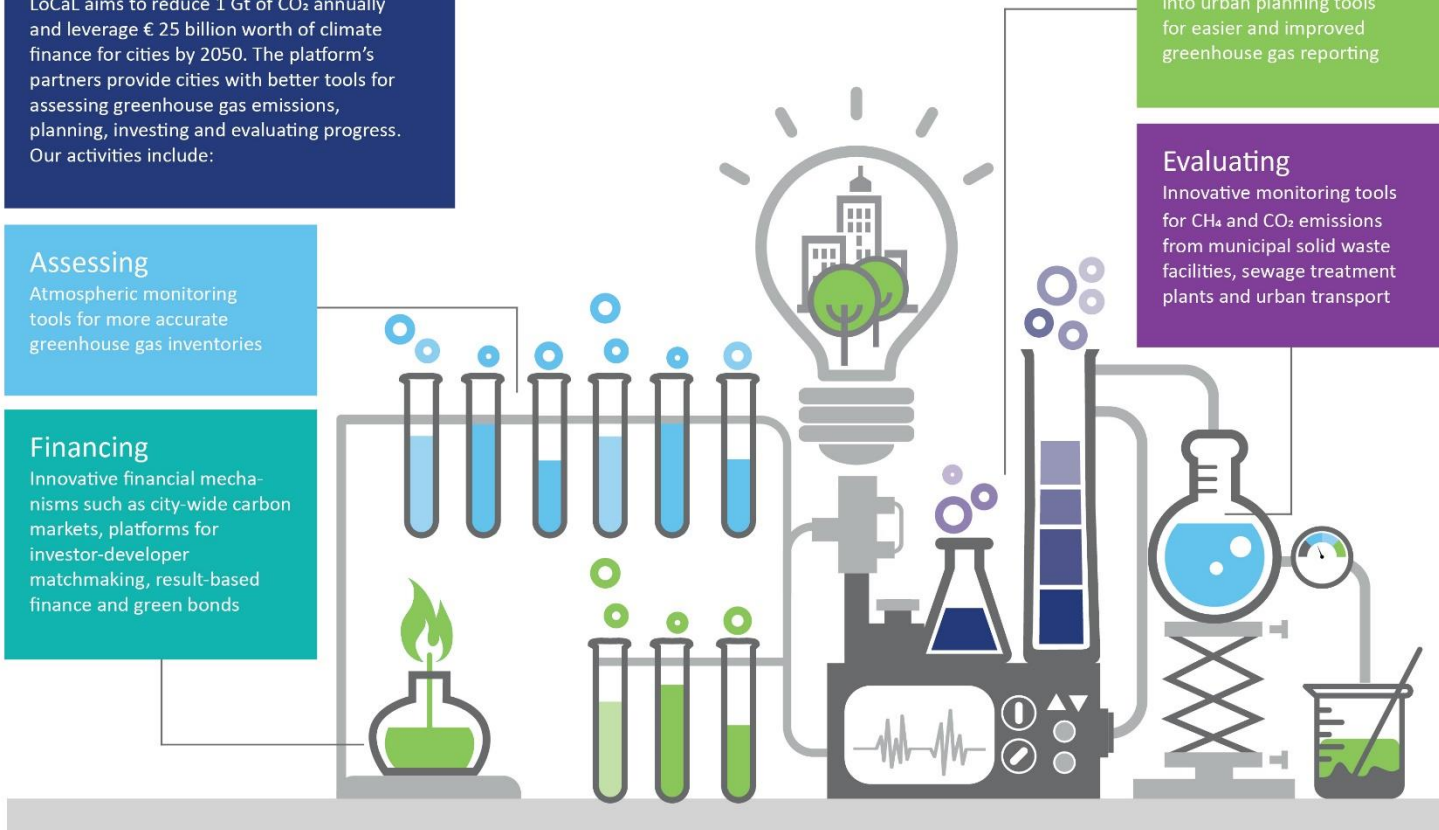
Innovative financial mechanisms such as city-wide carbon markets, platforms for investor-developer matchmaking, result-based finance and green bonds

## Planning

Integration of GHG data into urban planning tools for easier and improved greenhouse gas reporting

## Evaluating

Innovative monitoring tools for CH<sub>4</sub> and CO<sub>2</sub> emissions from municipal solid waste facilities, sewage treatment plants and urban transport





# Application for Auckland / NZ: Delivering more with less

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[www.climate-kic.org](http://www.climate-kic.org)



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