
Mission oriented research – Climate Neutral Cities

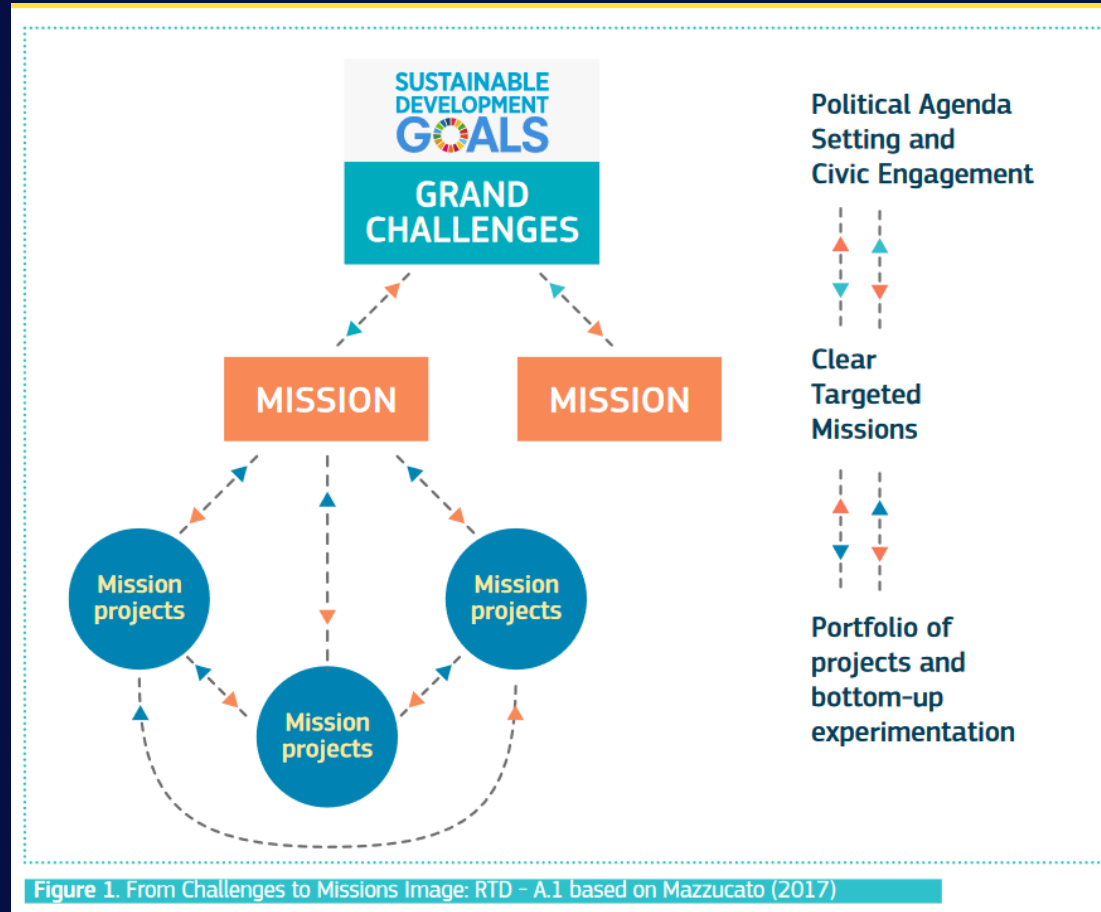
Introduction

- M.Sc. Environmental planning (Environmental, Technological and Socio-economic Planning)
- PhD Global Studies (Political economic & critical policy studies).
- Associate Professor, City and Regional Planning
- Project Lead:
 - Research Network for Smart Sustainable Cities
 - Future Energy Hub (Urban renewable energy/sustainable buildings)
 - Academic member UiS Green Transition Lab
 - Stavanger Climate Neutral City Task Force

The 5 EU missions

- 150 European Regions and communities to become climate resilient by 2030
- Beating cancer – improve the lives of more than 3 million by 2030 through prevention and solutions to live longer and better.
- Restore our oceans and water by 2030.
- 100 Climate-Neutral and Smart Cities by 2030
- A Soil Deal for Europe: 100 living labs and lighthouses to lead the transition towards healthy soils by 2030

The mission framework



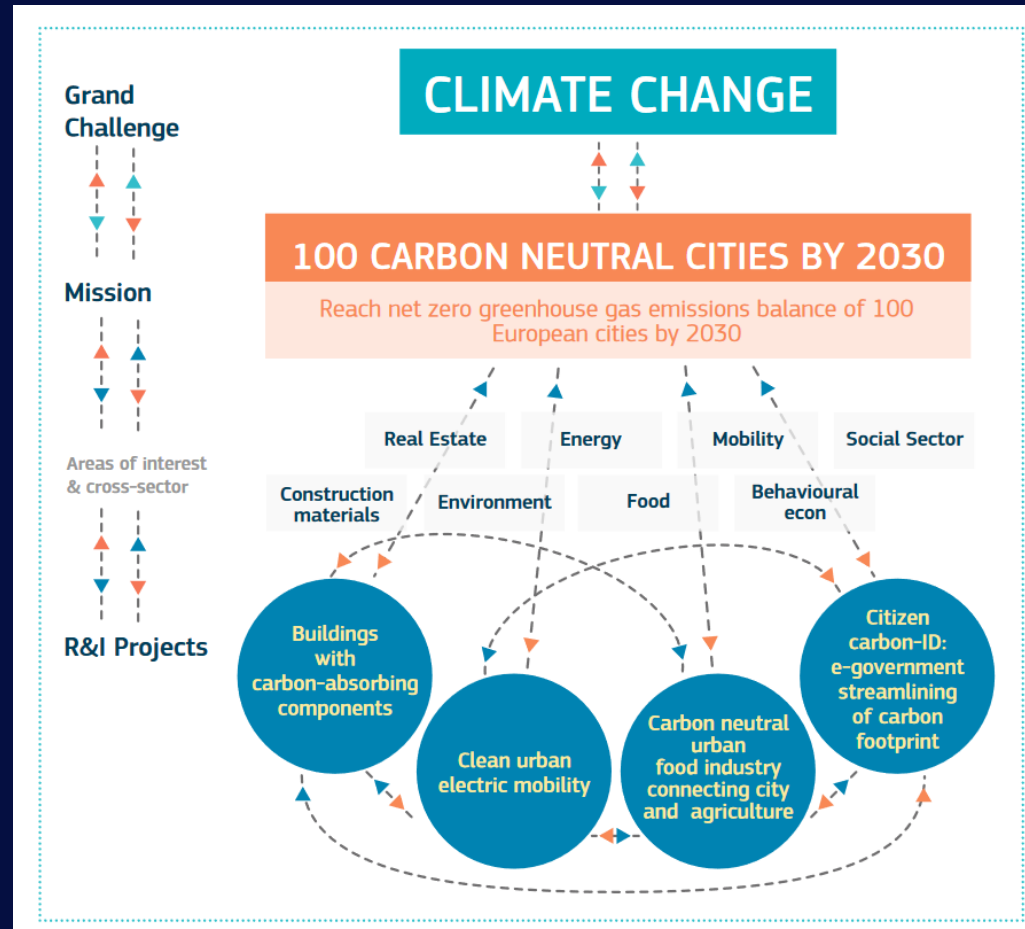
Five criteria of mission-oriented research and innovation

- Bold, inspirational with wide societal relevance
- A clear direction: Targeted, measurable and time-bound
- Ambitious, but realistic research and innovation actions
- Cross-disciplinary, cross-sectoral, cross-actor innovation
- Multiple bottom-up solutions

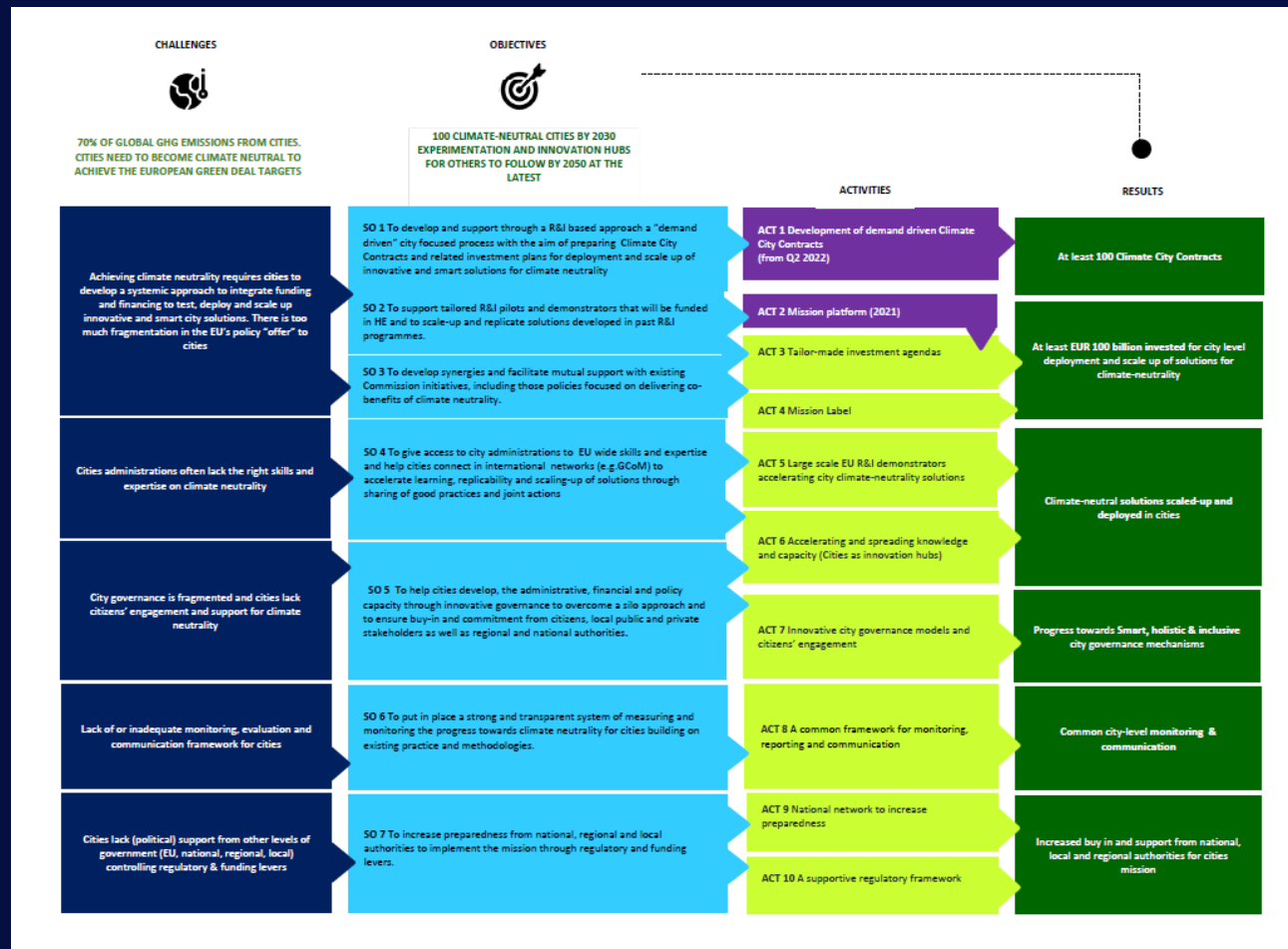
Implementation

- Engagement of diverse national and regional stakeholders
- Measurement and impact by goals and milestones
- A portfolio of instruments to foster bottom up solutions
- Flexibility, pro-active management and building in-house capabilities
- Public engagement

Climate neutral cities mission



EU implementation plan



Stavanger's climate neutral cities mission

- June 11, 2020 – the city council adopted resolution to apply for the 100 climate neutral cities mission.
- Application submitted early 2022
- Stavanger was selected in May 2022

A mission-oriented organization

- Climate neutral taskforce
 - Municipality
 - County
 - University of Stavanger
 - Region Stavanger EU Office
 - Lyse (electricity company)
 - IVAR (waste management)
 - NHO (Industry association)
 - Civil society

Next steps

- Identify and prioritize key challenges
- Sign contract with the EU
- Reach out to stakeholders for each challenge to form working groups
- Work with potential private and public investors
- Engage citizens

University Activities

- Link researchers to regional challenge working groups
- Student activities (master theses, hackathons, courses, internships).
- Adjust and align study programmes
- Partner with city and other regional for EU and national R&I calls related to the city's priorities.

Examples

- Just and inclusive urban planning (New European Lighthouse Pilot Demonstrator)
- Positive Energy Districts
- New and Shared mobility solutions
- Circular economy

Thesis challenge – Energy positive and low-carbon lifestyles

- Thesis living lab – Low carbon lifestyles
- 4 apartments
- Selected students get to live for free for 6 months to conduct their research project.
- Operating budget of NOK 50.000 to buy equipment



Energy positive and climate neutral campus

- Energy production and consumption
- Energy efficiency
- New and shared mobility services
- Waste recycling and re-use
- Acquisition policies
- Campus biodiversity