



**REGIONS
& CITIES**

European Week
Brussels 7-10 October 2019

triangulum



**European Committee
of the Regions**

Project cities



Lighthouse and follower cities



Low Energy districts



Mobility



Integrated infrastructure



Renovated square meters



228 067 m²

Energy savings



16 Gwh/year

CO₂ savings



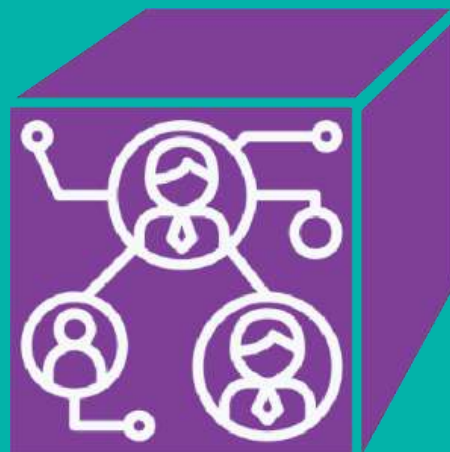
>7000 ton CO₂e/year

Sustainable vehicles



214

Citizens engaged



52 000

Cost



Total cost
97.1m

Total Funding
71.3m

Replication



Spin-offs

3

Projects

20

Initiatives

13

New Governance Approaches

Political Panel



Katarina Luhr
City of Stockholm



Déborah Gérardon
City of Seraing



Dr. Ralf Heinen
City of Cologne



Stijn Steenbakkers
City of Eindhoven



Miquel Rodriguez Planas
City of Barcelona

Demonstrate, Innovate, Replicate

Coordinator Panel



Trinidad Fernandez
Triangulum Coordinator
Fraunhofer IAO



Miguel García-Fuentes
REMOURban Coordinator
CARTIF Technology Center



Lisa Enarsson
GrowSmarter Project Manager
City of Stockholm



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We need ambitious goals



**Stockholms
stad**

Fossil fuel free



EINDHOVEN

Brainport



*Revitalization
urban plan*

Low Energy districts

Following current tendencies, by 2050 the building sector alone will be responsible for all the global emissions that the 2°C increase scenario allows.

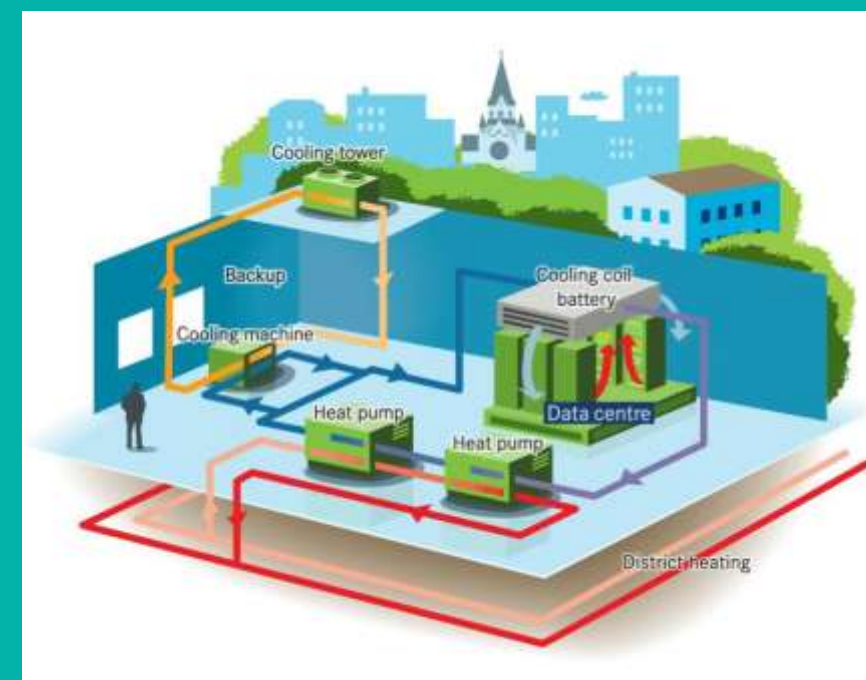
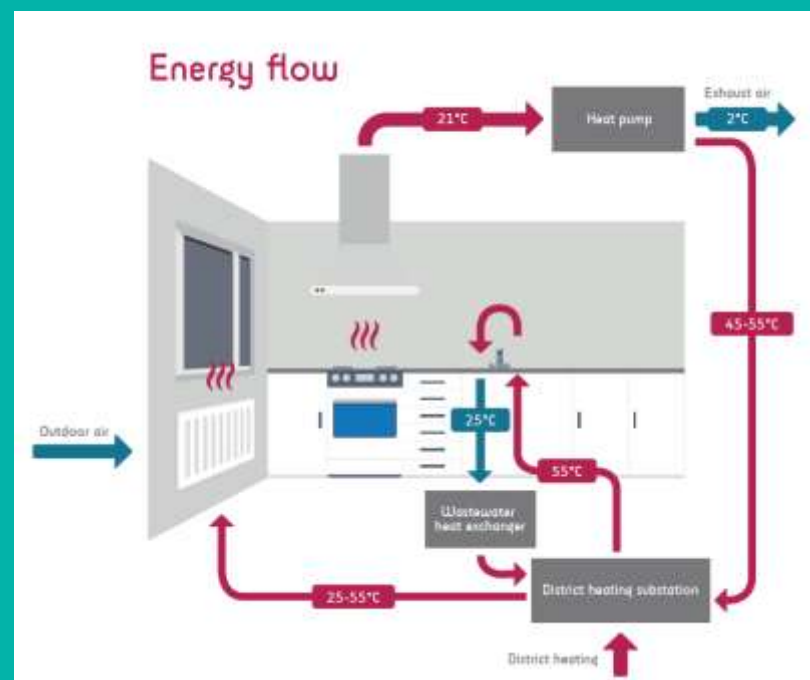
It is impossible to reach desirable climate change scenarios with the current building sector.

*“Building a common home.
A Global Vision Report”*

Global Vision Area within the WSB14

Mission:
Retrofitting of exsisting building stock

Retrofitting to new buildings energy level



Facilitate Upscaling



- Regulations to promote energy efficient retrofitting
- Combine structural and energy efficient retrofitting
- Energy supply regulations on community level
- Update regulations to facilitate installations of Photovoltaics
- Regulation demanding data centres to recover waste heat
- Financing retrofitting – benefits for the society
- Introduce CO₂ tax
- Educate more energy efficiency workers
- Ensure citizen involvement

Mobility

Cities all over Europe face similar problems (congestion, road safety, security, pollution, climate change, etc.) increasing constantly.

Urban mobility accounts for 40% of all CO₂ emissions of road transport and up to 70% of other pollutants from road transport with a negative impact on citizens' health.

"Green paper on Urban Mobility"
Directorate General for Energy and Transport.
European Commission

Mission:
Create a new culture of urban transport

Largest fleet of electric buses in Europe



Facilitate Upscaling



- Ensure electricity comes from 100% renewable sources (Directive 2001/77/EC)
- Standardisation of the charging infrastructure
- Strategy for costs of infrastructure, E-vehicles and electricity
- Harmonise legislation for V2X charging and discharging
- Update regulations for more creative use of public space
- Ensure growth of sustainable biofuel supply from waste and derelict farmland
- Educate in ECO driving
- Ensure citizen engagement

Integrated infrastructure

An integrated and intelligent approach to urban development is needed to address the complexity of a smart sustainable city, aiming at improving the quality of life of all its citizens.

“Workshop: Smart Sustainable Cities and Regions”

Paul Bevan, Secretary General,
EUROCITIES, Brussels

Mission:
**Integration across infrastructures and
their related operational processes**

Renovation using 3D BIM Data



Facilitate Upscaling



- Communicate benefits and why we need to collect data to cities and citizens, involve citizens
- Political priority and financial aid
- Focus on the needs for ICT solutions rather what's cool to do
- Ensure fast and reliable internet connection and infrastructure
- Establish standards for ICT and Urban Data Platforms
- Update regulations on data sharing and GDPR

Demonstrate, Innovate, Replicate

Site Manager Panel



Julia Egenolf
City of Cologne



Gonzalo Cabezas
City of Barcelona



Delia Mitcan
City of Eindhoven



Gerd Seehuus
City of Stavanger



Rosa Huertas
City of Valladolid



Dave Tetlow
City of Nottingham

Wrap-up and hand over of policy paper to

Torsten Klimke
DG Mobility and
Transport, EC



Haitze Siemers
DG Energy, EC





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From dream to reality

Sharing experiences from leading European Smart Cities



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