

GrowSmarter

Transforming cities for a smart, sustainable Europe



• STOCKHOLM • COLOGNE • BARCELONA •

The **GrowSmarter** project, funded under the Horizon2020 Programme, is one of the European Commission's firmest commitments to the common development of urban areas, with the ultimate goal of promoting research and implementing innovative processes and solutions for developing sustainable and environmentally smart cities.



3 LIGHTHOUSE CITIES

STOCKHOLM [project coordinator]

Stockholm has been working on climate change mitigation and adaption since the 1990s. The city is a real frontrunner, with well implemented climate action plans and pioneering policies to ensure it meets its ambitious environmental targets. Stockholm's goal is to become fossil fuel-free by 2040.



photo: Jeppe Wikström

WORKSITE: ÅRSTA

Årsta is a fast-growing district in the south of Stockholm. With new technology and smart solutions, the area will become a model of sustainable renovation and energy efficiency. Main measures in the area are reducing energy use by 60% by retrofitting the building stock from the 1960s. The project also includes reducing transport emissions in the district, the introduction of automated waste collection systems, solar energy production, and the recovery of waste heat from data centres and supermarkets.



FOLLOW THE



3 TARGETS

With 25 million euros of funding and a five-year lifespan, **GrowSmarter** has the potential to create the equivalent of 1,500 jobs throughout Europe by 2020, and the project-level goal of reducing both energy consumption and transport emissions by 60%.



photo: Köln Tourismus GmbH, Dieter Jacobi

COLOGNE

Cologne is the fourth largest city in Germany and home to key players in business and industry. The city is committed to reduce greenhouse gas emissions, increase energy efficiency and increase renewable energy usage by 20% before 2020. Carbon dioxide targets are even higher, with a 50% reduction expected by 2030.

WORKSITE: MÜLHEIM

Mülheim is a diverse and vibrant area of Cologne. Following a significant recession at the end of the twentieth century, the district has experienced a resurgence in recent years. A new neighbourhood is envisioned in Mülheim South, creating 3,000 homes and 5,000 jobs. The city plans to develop integrated energy and transport infrastructures to support this ongoing redevelopment.



JOURNEY: STOCKHOLM, COLOGNE AND BARCELONA



5 FOLLOWER CITIES

Knowledge exchange and transfer are key to the success of **GrowSmarter**. Five Follower Cities – Valetta, Suceava, Porto, Cork and Graz – will closely follow the Lighthouse Cities to learn from their experiences, to identify suitable smart technologies and develop a replication plan tailored to local needs.

BARCELONA

Voted European Capital of Innovation 2014, Barcelona is a vast metropolitan hub with a long tradition of industry and entrepreneurship. Barcelona City Council encourages strategic initiatives which promote a global and forward-looking vision to businesses and public bodies, as well as scientific and technological centres.



photos: City of Barcelona

WORKSITE: 22ND DISTRICT

Barcelona's 22nd District is set to become the largest urban park in the Mediterranean region. It mixes residential and business interests as companies, universities and research centres coexist alongside housing, public facilities and green areas. As well as introducing electric vehicles and installing charging infrastructure, measures here will focus on refurbishing current buildings to create 'zero energy' blocks and installing district heating and cooling.



BLOG ONLINE



HOW YOU CAN GET INVOLVED

- Join our smart city interest group for advice and training opportunities
- Meet our industry partners through our study visits programme
- Take part in discussions and peer-to-peer exchange at our European workshops
- Sign up to receive our tri-annual e-updates

12 SMART SOLUTIONS

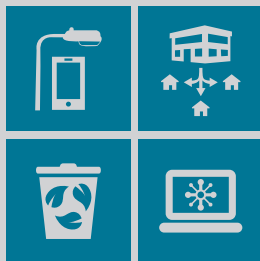
GrowSmarter aims to stimulate the uptake of smart technologies, develop city-business collaboration, and build sustainable and more liveable European cities which respond to citizen needs.

The three Lighthouse Cities (Stockholm, Cologne & Barcelona) will implement a range of smart technologies in energy, infrastructure and transport, designed to achieve energy savings and self-sufficiency in urban neighbourhoods, as well as providing other cities, wishing to achieve the same, with valuable insights.



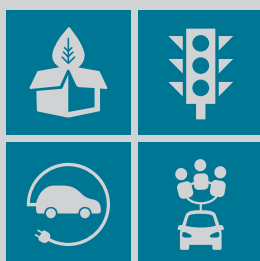
LOW ENERGY DISTRICTS

1. Smart building shell refurbishment
2. Smart building logistics
3. Smart energy-saving tenants
4. Smart local electricity management



INTEGRATED INFRASTRUCTURES

5. Smart street lighting
6. Waste heat recovery
7. Smart waste collection
8. Big data management



SUSTAINABLE URBAN MOBILITY

9. Sustainable delivery
10. Smart traffic management
11. Alternative fuel driven vehicles
12. Smart mobility solutions



To find out more about the 12 solutions, please visit:
www.grow-smarter.eu/solutions

MEET THE PROJECT TEAM:

GrowSmarter brings together cities, networks, academia and industry sharing a wealth of experience and technical know-how. To find out more, please visit www.grow-smarter.eu/the-team



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 646456. The sole responsibility for the content of this publication lies with the GrowSmarter project and in no way reflects the views of the European Union.

CONTACT:

info@grow-smarter.eu | [@EUGrowSmarter](https://twitter.com/EUGrowSmarter)

For more information about the GrowSmarter project, please visit:

www.grow-smarter.eu



STOCKHOLM



COLOGNE



BARCELONA



For the Lighthouse Cities, we also have basic project information in the local languages: