



GrowSmarter

Transforming cities for a smart, sustainable Europe

5 YEARS OF CREATING SMART CITIES IN EUROPE

- STOCKHOLM • KÖLN • BARCELONA •
- CORK • SUCEAVA • VALLETTA • GRAZ • PORTO •

THE EUROPEAN SMART CITY PROGRAMME

The Smart Cities and Communities lighthouse projects are funded by the European Commission through the Horizon 2020 research and innovation programme. These projects bring together cities, industry and citizens to test smart solutions and business models that can be scaled up and replicated. The aim is measurable benefits in energy, mobility and resource efficiency, leading to new markets and new jobs.



image: Luke Insole | Unsplash

- 46 LIGHTHOUSE CITIES
- 70 FELLOW CITIES



Find out about the Lighthouse projects here:
<https://smartcities-infosystem.eu>



Follow on @EUSmartCities
<https://twitter.com/EUSmartCities>



CONTACT US:

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



For more information about the GrowSmarter project, please visit:

www.grow-smarter.eu

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

STOCKHOLM

COLOGNE

BARCELONA



MEET THE PROJECT 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.

3 LIGHTHOUSE CITIES - 5 FOLLOWER CITIES - 5 YEARS - 12 SOLUTIONS



OUR ACHIEVEMENTS:

RENOVATED SQUARE METERS:
125 000m²

12
OUT OF 12
SOLUTIONS PLANNED
FOR REPLICATION

<p>CITY AVG. CO₂ SAVINGS: 30-70% IN FULLY REFURBISHED BUILDINGS</p>	<p>SUSTAINABLE VEHICLES DEPLOYED: 72</p>	<p>CITIZENS ENGAGED: >15 000</p>	<p>ENERGY SAVINGS: >8 GWH / YEAR or enough energy to heat 1200 apartments in Cologne</p>
---	---	--	--

www.grow-smarter.eu

12 SMART SOLUTIONS: SELECTED IMPACTS

LOW ENERGY DISTRICTS	<p>1. ENERGY RETROFITTING OF BUILDINGS <i>Up to 76% energy consumption saved</i></p>	<p>2. SMART BUILDING LOGISTICS <i>56% less time spent by delivery trucks in traffic</i></p>
	<p>3. SMART, ENERGY SAVING TENANTS <i>Raised awareness of energy consumption led to 15% electricity savings</i></p>	<p>4. LOCAL RENEWABLE ENERGY PRODUCTION <i>Up to 65% of communal space energy consumption provided by photovoltaics</i></p>
	<p>5. SMART LIGHTING, LAMPPOSTS AND TRAFFIC POSTS AS HUBS FOR COMMUNICATION <i>CO₂ reduced by up to 31%</i></p>	<p>6. NEW BUSINESS MODELS FOR DISTRICT HEATING AND COOLING <i>73% of excess heat recovered</i></p>
	<p>7. SMART WASTE COLLECTION, TURNING WASTE INTO ENERGY <i>Unsorted waste reduced by 66%</i></p>	<p>8. BIG OPEN DATA PLATFORM <i>Shared data used more efficiently</i></p>
SUSTAINABLE URBAN MOBILITY	<p>9. SUSTAINABLE DELIVERY <i>Air pollution reduced in urban areas</i></p>	<p>10. SMART TRAFFIC MANAGEMENT <i>Reduces time spent in traffic</i></p>
	<p>11. ALTERNATIVE FUEL-DRIVEN VEHICLES FOR DE-CARBONISING AND BETTER AIR QUALITY <i>CO₂ reduced by more than 100 tons per year with 36 e-vehicle charging points</i></p>	<p>12. SMART MOBILITY SOLUTIONS <i>CO₂ reduced between 60 and 99%</i></p>

RECOMMENDATIONS FOR CREATING SMART CITIES:

- Are you a national or European policy maker?
- Are you from local government?
- Are you a business?

[Read our RECOMMENDATIONS](#)

- [How to become a smart city in practice Read our REPLICATION REPORT](#)
- [How to profit from our solutions Read our MARKET INTRODUCTION](#)
- [How well do our solutions work? Read our VALIDATION REPORT](#)

Find out how you can help make your city smart!