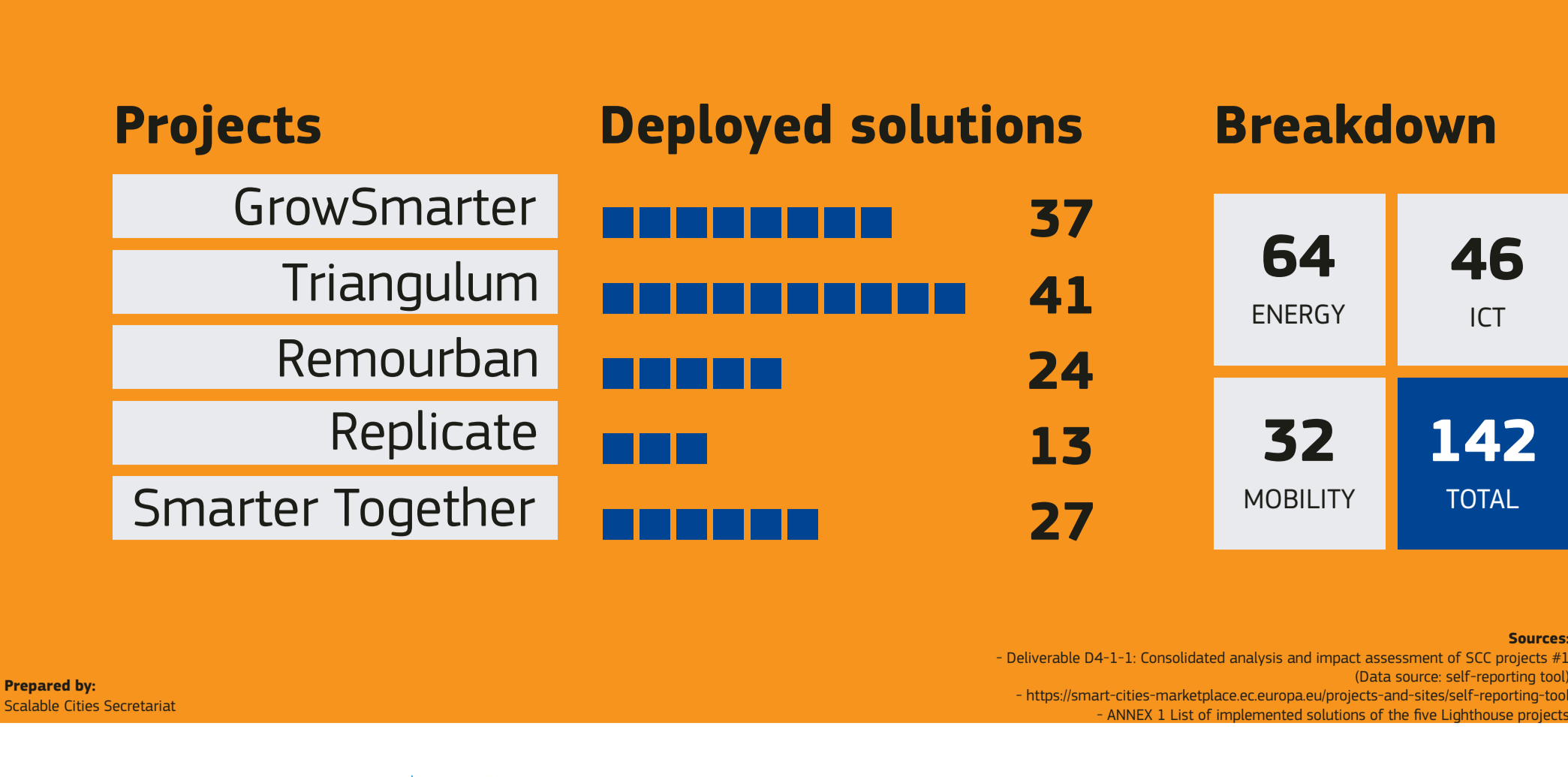


H2020 SCC Projects Impact Assessment

Overview of 5 H2020 SCC1 Projects



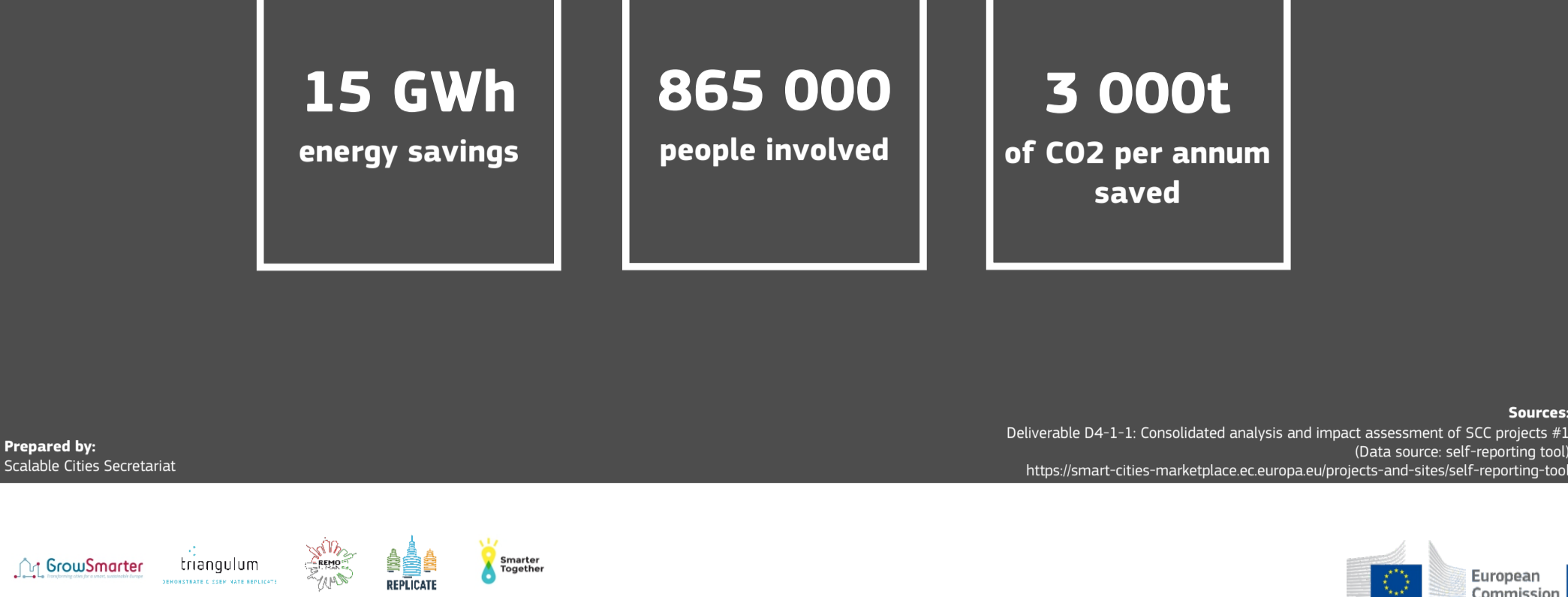
Prepared by: Scalable Cities Secretariat

Sources:
 - Deliverable D4-1-1: Consolidated analysis and impact assessment of SCC projects #1 (Data source: self-reporting tool)
 - https://smart-cities-marketplace.europa.eu/projects-and-sites/self-reporting-tool
 - ANNEA: List of implemented solutions of the Five Lighthouse projects



H2020 SCC Projects Impact Assessment

Contributions of the SCC projects to a climate-neutral Europe



Prepared by: Scalable Cities Secretariat

Sources:
 Deliverable D4-1-1: Consolidated analysis and impact assessment of SCC projects #1 (Data source: self-reporting tool)
 https://smart-cities-marketplace.europa.eu/projects-and-sites/self-reporting-tool



H2020 SCC Projects Impact Assessment

Analysis of the climate impact per project & cluster

	# total CO2 savings tons CO2 eq/a	# total energy savings MWh	# people involved	# jobs created	# additional investments triggered by projects
GrowSmarter	1 589	4 650	32 122	321	1.4
Triangulum	493	971	129 349	65	3.9
Remourban	—	570	48 563	—	18.7
Replicate	857	—	651 433	189	1
Smarter Together	61	9 264	3 638	—	—
Total	3 000	15 455	865 105	575	25

Prepared by: Scalable Cities Secretariat

Sources:
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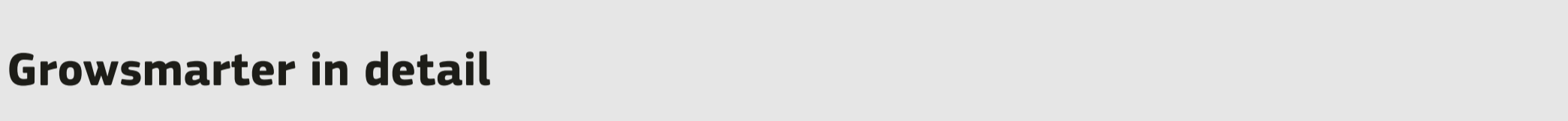
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Best Practices from cities

GrowSmarter	Triangulum	Smarter Together	Replicate
Mobility Hubs / Stations in Cologne	Quadruple helix approach in Eindhoven	Holistic Refurbishment & Retrofitting in Lyon, Munich, Vienna	Smart City Platform in Florence
10 stations in the neighborhood of Mülheim. 54 sustainable vehicles were used. 60% CO2 reduction were achieved. Behavior change and encouragement away from cars towards more active modes.	Cooperation among universities, enterprises, government and citizens. Co-creation and citizen engagement contributed to a better understanding of the financial and energy savings achieved by the intervention. Co-creation supported the development of smart and energy-efficient solutions.	Integrated solutions at building level and installation of local renewable energy solutions are included in the refurbishment and renovation of buildings. 57 MWh/a Energy savings by building efficiency measures and 14.4% increase in energy efficiency of buildings 17.9 tCO2/a reduction in CO2	Implementation of a smart city platform based on Snap4City platform. Real time data collection, processing and analytics. Provides dashboards for Florence control room Improves city services, security, and safety.

Prepared by: Scalable Cities Secretariat

Sources:
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H2020 SCC Projects Impact Assessment

GrowSmarter in detail

Lighthouse Cities
Barcelona, Cologne, Stockholm

Fellow Cities
Cork, Graz, Porto, Suaveva, Valletta

	31% of CO2 reduction by implementing smart lighting, traffic posts	66% waste reduction due to the smart waste collection	73% of excess heat recovered
	65% of communal space energy consumption provided by PVs	15% electricity savings due to lower consumption	76% energy consumption saved by retrofitting
	100t CO2 saved due to e-vehicles deployment	36 e-vehicle charging points deployed	56% less time spent by delivery trucks in traffic due to smart logistics

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Sources:
 Deliverable D4-1-1: Consolidated analysis and impact assessment of SCC projects #1



H2020 SCC Projects Impact Assessment

Triangulum in detail

Lighthouse Cities
Eindhoven, Manchester, Stavanger

Fellow Cities
Leipzig, Prague, Sabadell

	3 data hubs delivered value to cities	Fibre optic networks improved	Open data increased availability
	2000t CO2 savings achieved	76% energy consumption saved by retrofitting	
	E-vehicles diverse fleet	Co2, NOx, CO emissions reduced	

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Remourban in detail

Lighthouse Cities
Valladolid, Nottingham, Tepebasi/Eskisehir

Fellow Cities
Seraing, Miskolc

	15 000 citizens involved		
	1927 variables collected in central platform		
	34% decrease in energy consumption	50% decrease in CO2 emissions	
	Logistics improved the last-mile delivery problem	5% decrease in CO2 emissions	

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Sources:
 Deliverable D4-1-1: Consolidated analysis and impact assessment of SCC projects #1



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Replicate in detail

Lighthouse Cities
San Sebastián, Florence, Bristol

Fellow Cities
Essen, Lausanne, Nilüfer

	Lighting smart lighting deployed	Platform smart city platform integrating IT services		
	696 dwellings retrofitted	34 commercial premises retrofitted		
	151 charging points installed	31 e-vehicle cars acquired / monitored	112 e-taxis acquired / monitored	26 e-bikes acquired / monitored

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Sources:
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Smarter Together in detail

Lighthouse Cities
Lyon, Munich, Vienna

Fellow Cities
Santiago de Compostela, Sofia, Venice

	3 638 citizens involved			
	18 ICT solutions implemented			
	1112 MWh/a RE generated per year	117 497 sq m total refurbishment	1497t CO2/a reduced per year	3967 MWh/a energy savings
	165 000 kWh/a Energy savings by mobility measures	52t/a CO2 savings by mobility measures	130 000 km/a annual distance travelled	

Prepared by: Scalable Cities Secretariat

Sources:
 Deliverable D4-1-1: Consolidated analysis and impact assessment of SCC projects #1

