



SMARTER TOGETHER

Vienna's share in the
European Lighthouse project

Bojan Schnabl

City of Vienna MA 50

Barcelona Smart City Expo 15.-17.11.2016

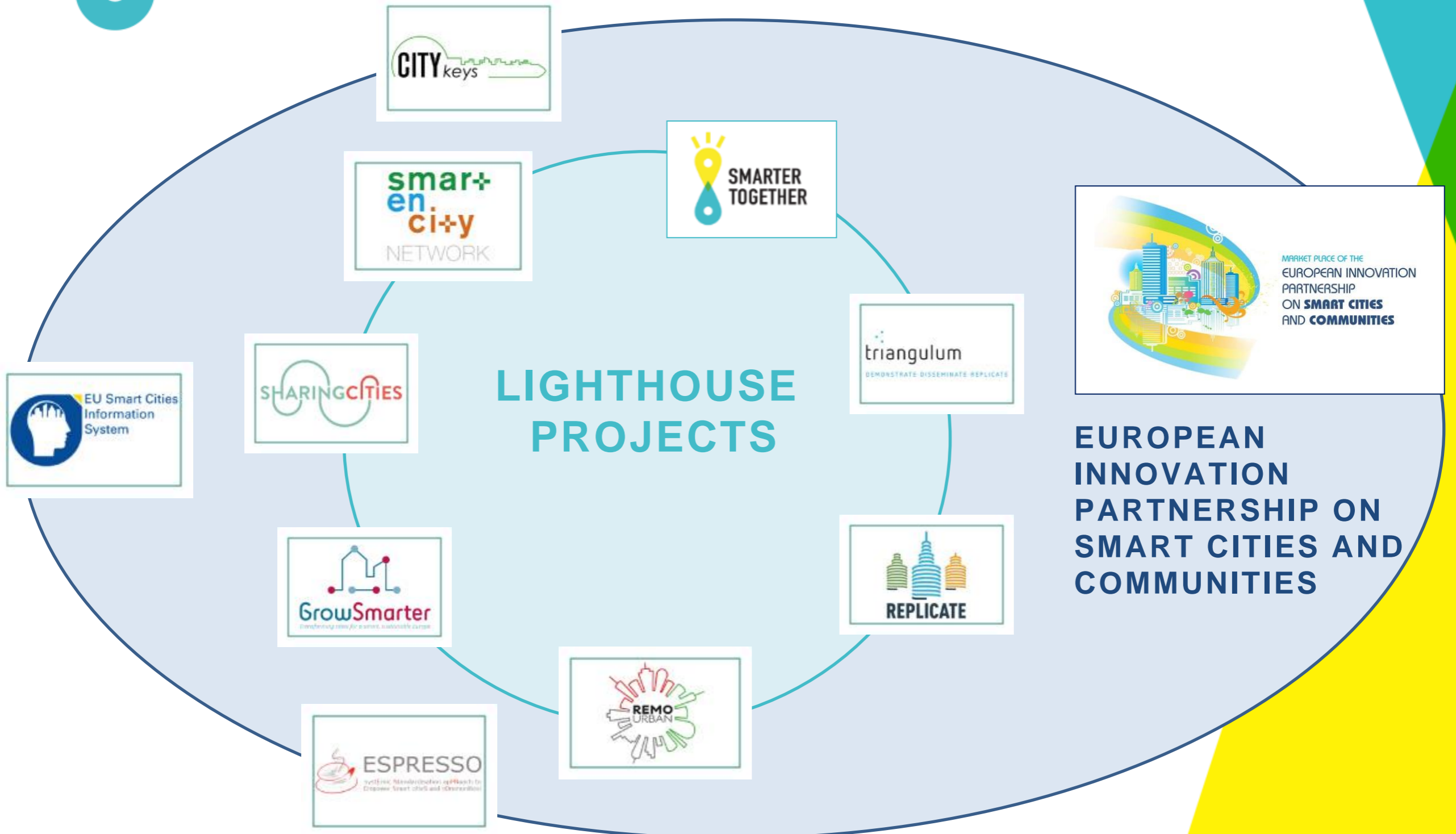


This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 691876



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European Lighthouse Projects





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Project's Concept

Vienna Smart City
Framework Strategy

Smarter Together

Quality of living
Social inclusion, participation
Healthcare
Environment

Resources
Energy
Mobility
Infrastructure
Buildings

Innovation
Education
Economy
Research, Technology and
Innovation (RTI)

Focus of the
H2020 resp.
SCC1-Call

Patronage:

**Executive City Councillor
Dr. Michael Ludwig**

**wien.
unser zuhause.**
Geschäftsgruppe Wohnen, Wohnbau & Stadterneuerung



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Partner Cities

Smarter Together Partner Cities:

StadT  Wien



Landeshauptstadt
München

Lyon Confluence  .fr

Follower Cities :

- Santiago de Compostela (100.000 inh.)
- Sofia (1.2 Mio inhabitants)
- Venice/Mestre (260.000 inh.)

Observer Cities :

- Kiew/Kiiv
- Yokohama





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Integrated Project Goals and Aims

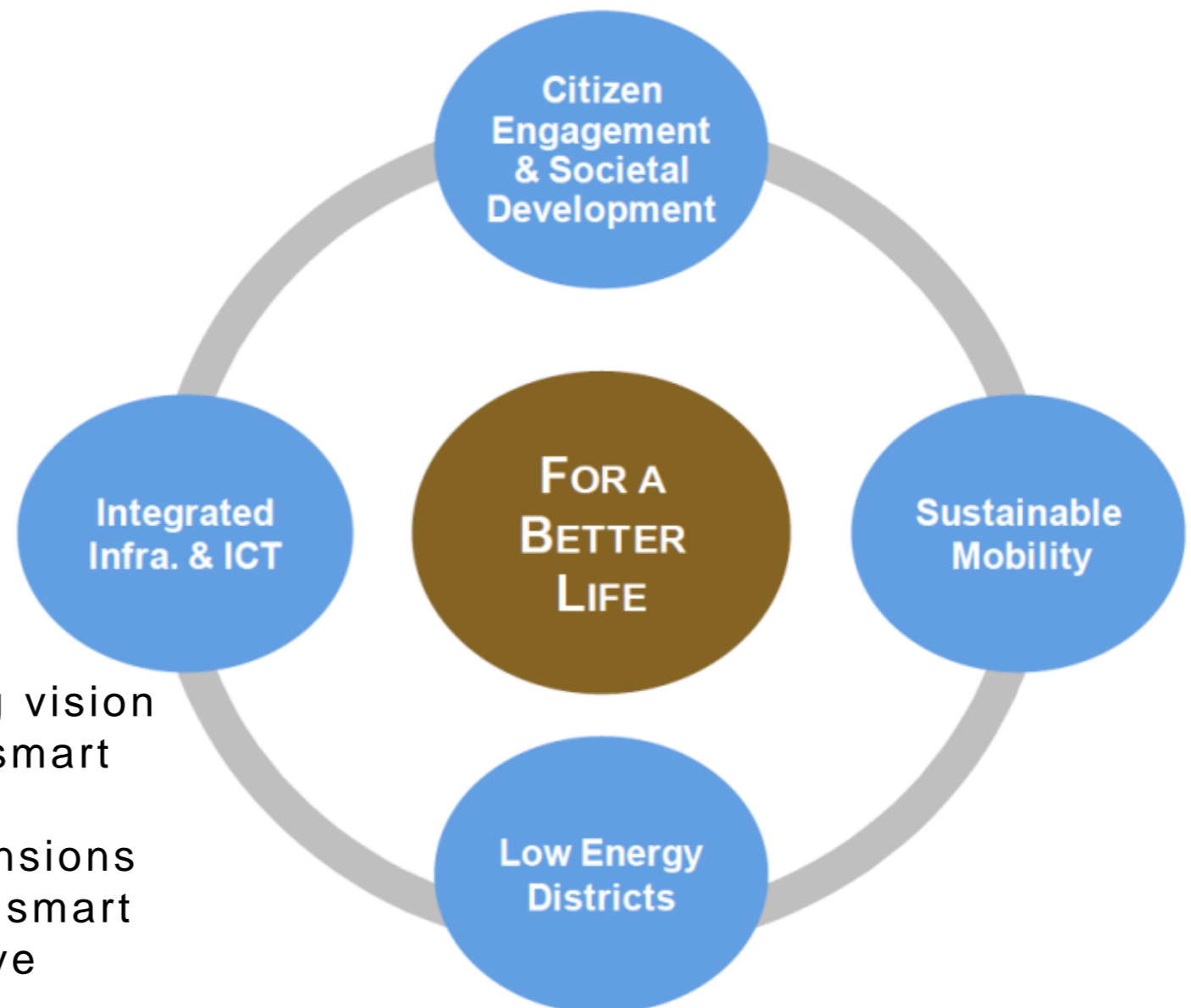
HORIZON 2020-PROJECT

« SMARTER TOGETHER »

***Smart and Inclusive Solutions
for a
Better Life in Urban Districts***

**Project duration:
2016–2021.**

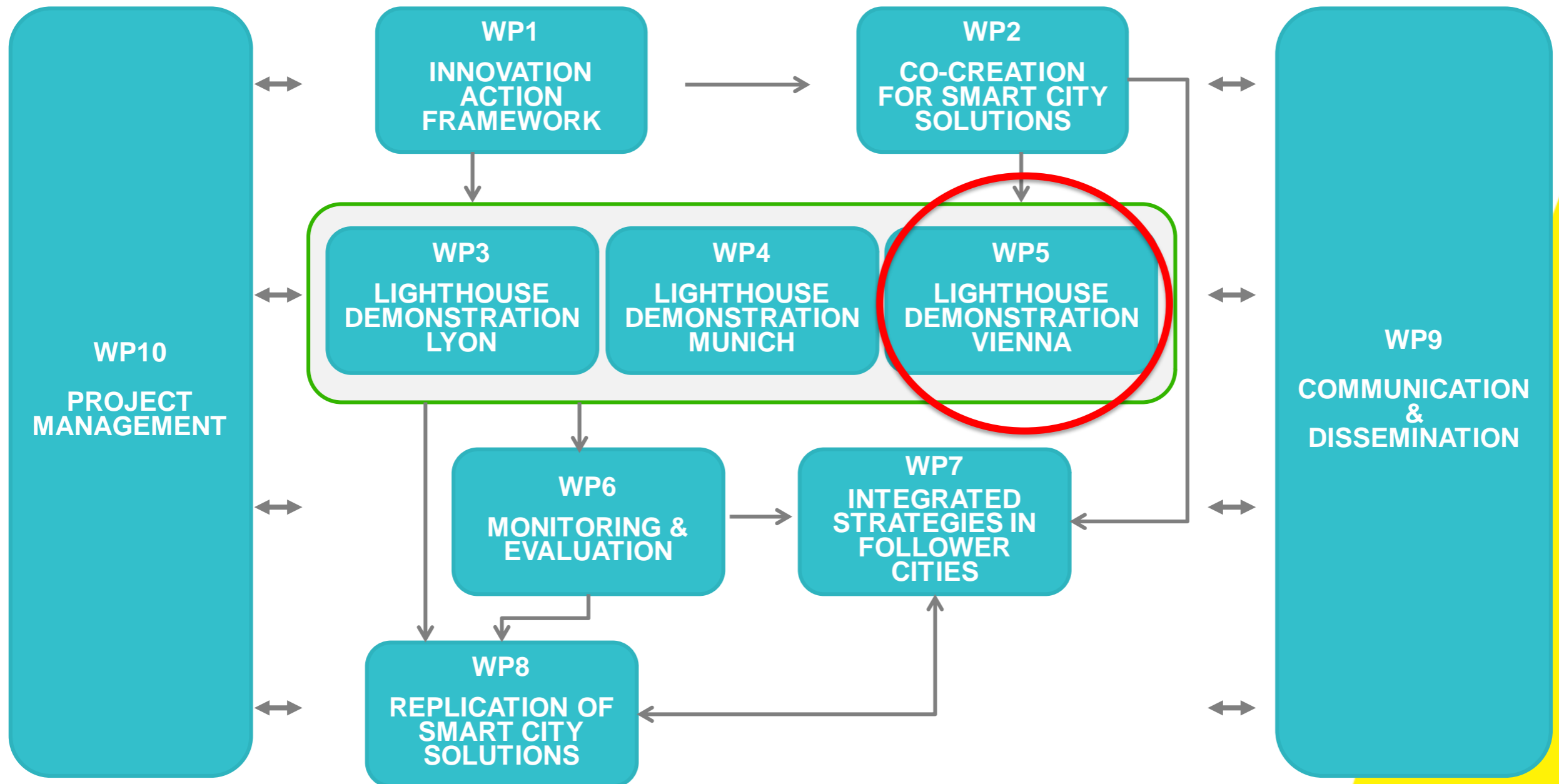
SMARTER TOGETHER's overarching vision is to find the right balance between smart technologies on the one hand and organisational and governance dimensions on the other hand in order to deliver smart and inclusive solutions and to improve citizen's quality of life.





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Project Workflow

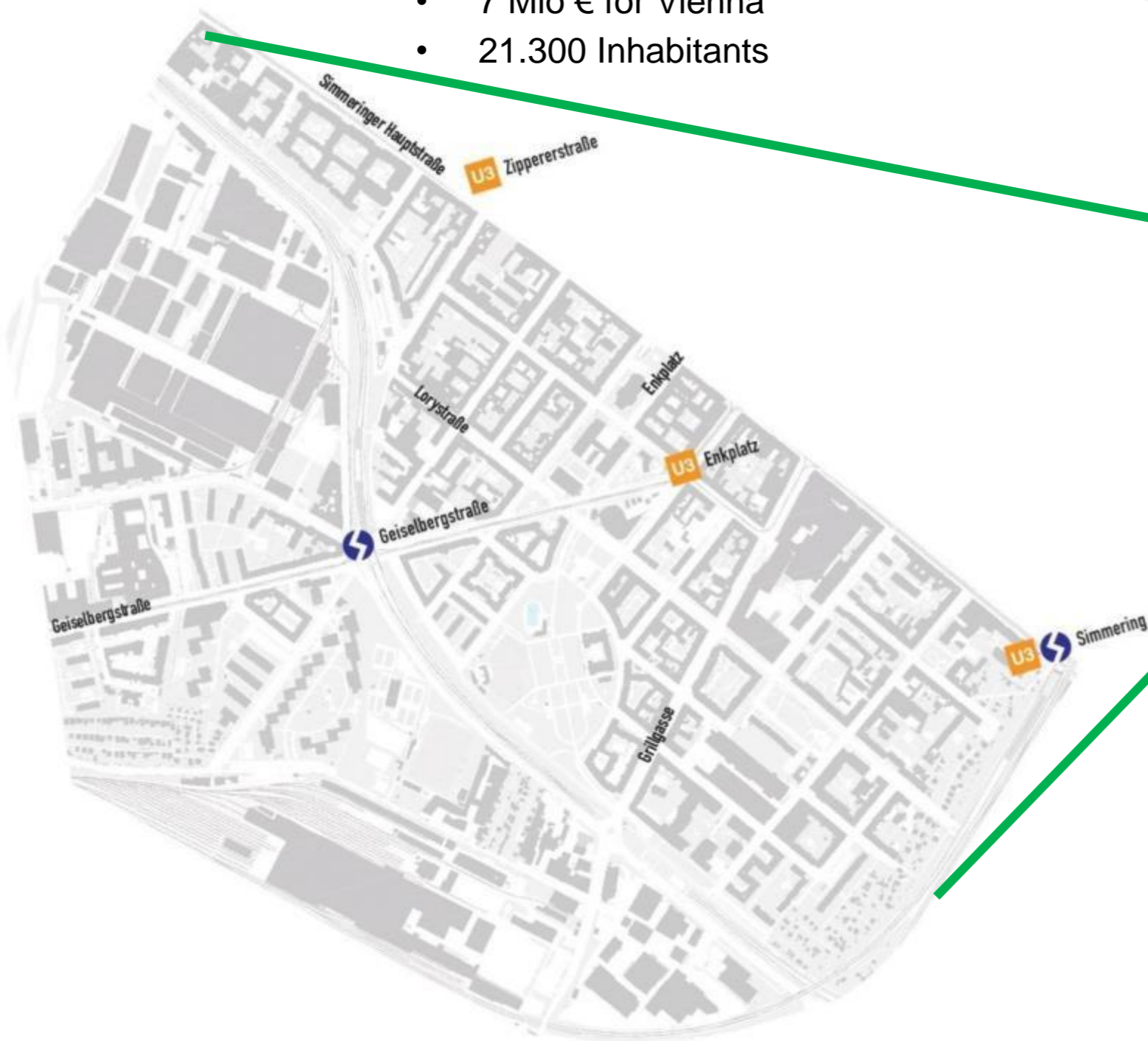
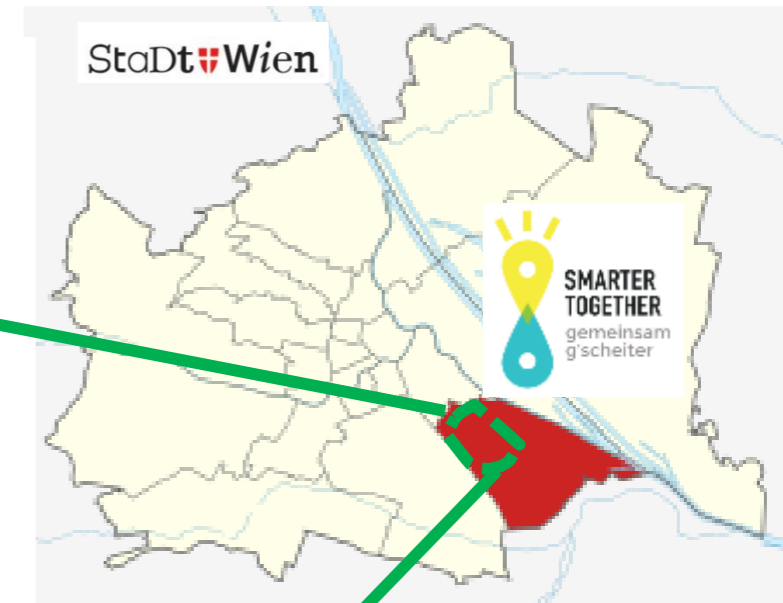




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Target Area: Key Figures

- Total funding sum: 24 Mio €
- 7 Mio € for Vienna
- 21.300 Inhabitants





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Project Partners

SIEMENS

AIT
AUSTRIAN INSTITUTE
OF TECHNOLOGY

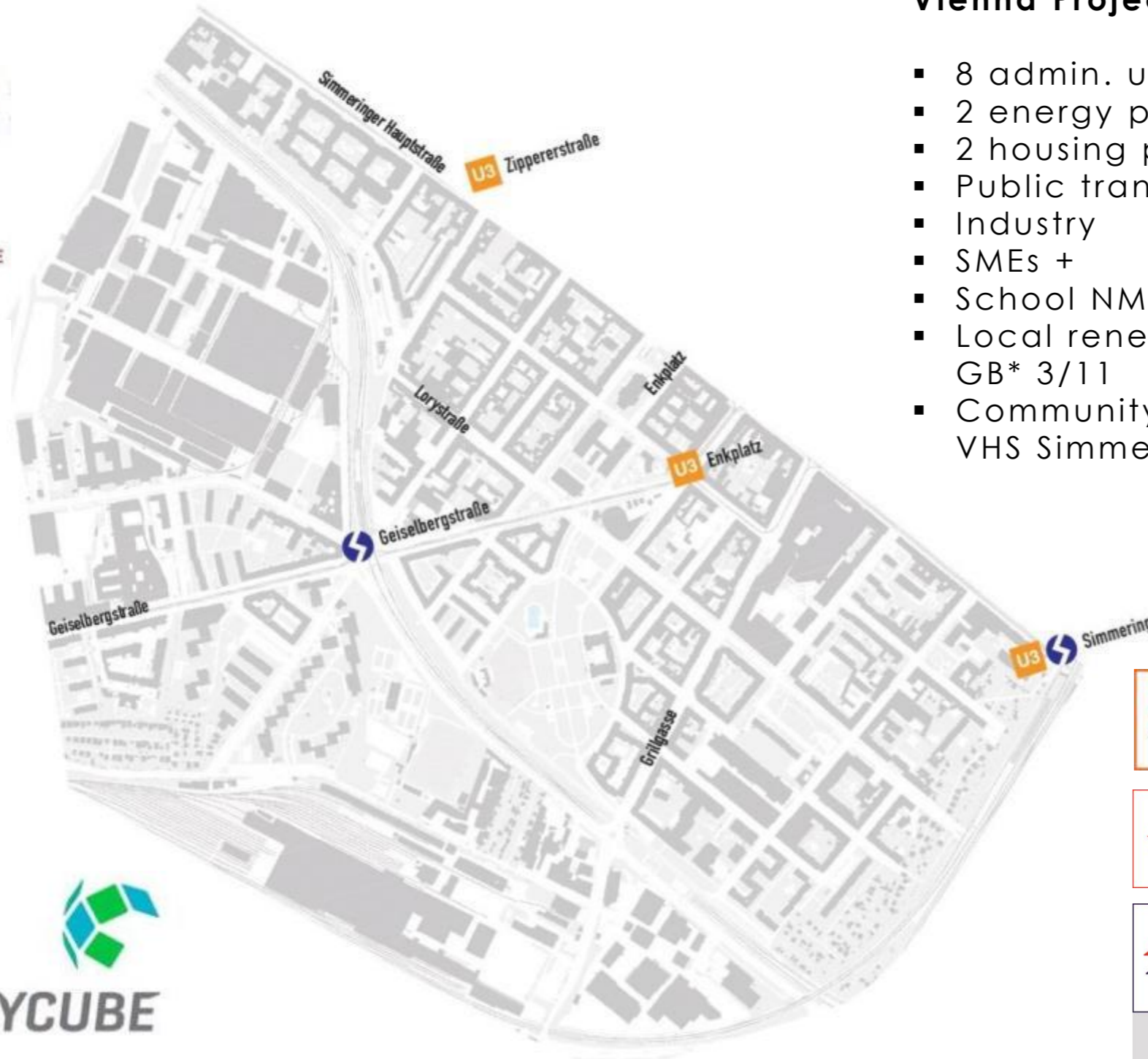
Post

STADT WIEN
WIENER
WOHNEN

bwsg
besser wohnen seit Generationen

kelag
Wärme

SYCUBE



Vienna Project partner

- 8 admin. units +
- 2 energy provider
- 2 housing providers
- Public transports
- Industry
- SMEs +
- School NMS Enkplatz
- Local renewal office GB* 3/11
- Community college VHS Simmering

WIEN ENERGIE

WIENER LINIEN

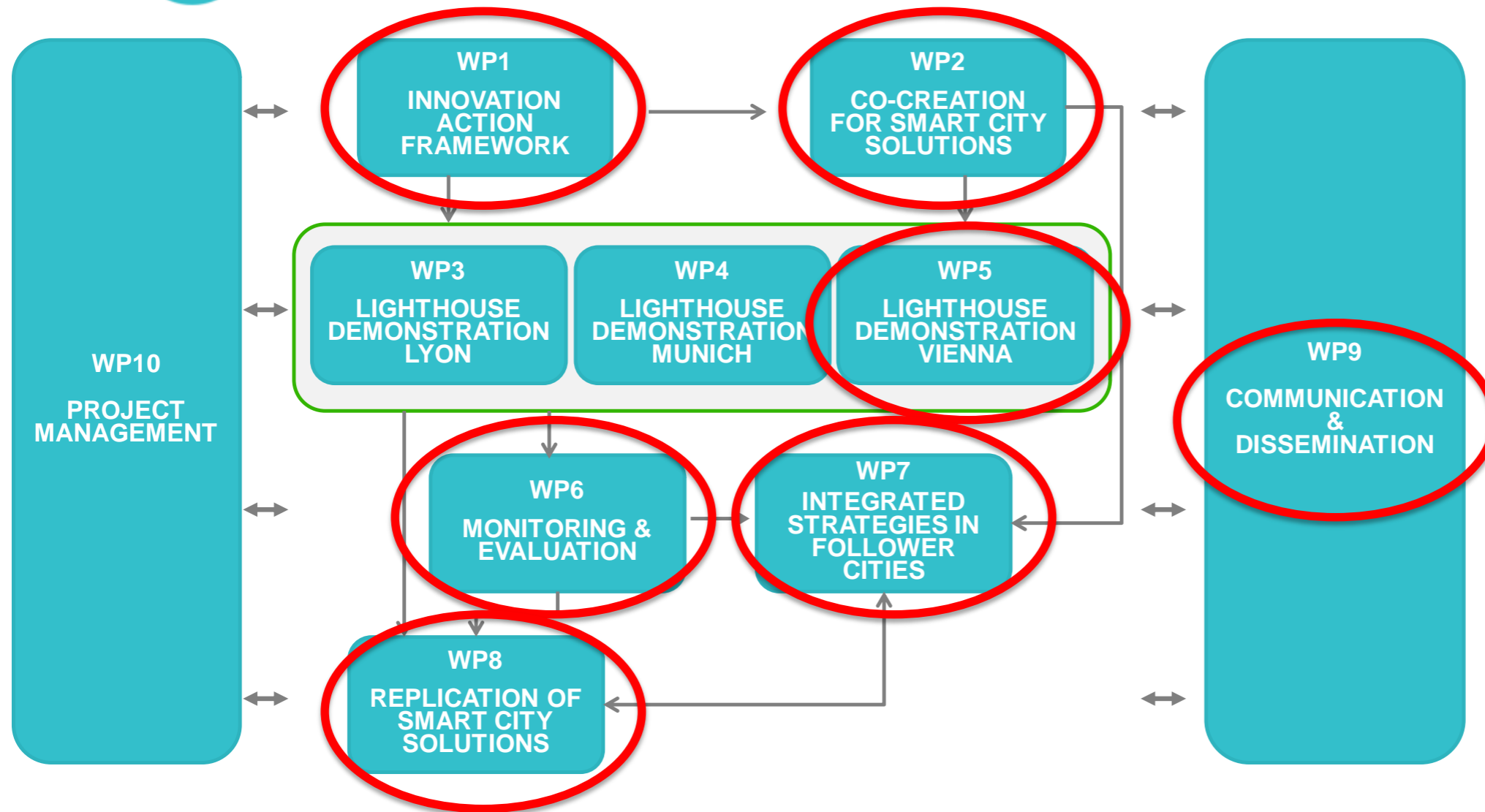
WIENER
STADTWERKE

NEUE URBANE MOBILITÄT



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Knowledge management





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Future in Simmering

Simmering 2030

What do you do in 2030?

How old will be you children and your nephews in 2030?

How do you drive in 2030 to work, for shopping?

How do you heat your flat in 2030?

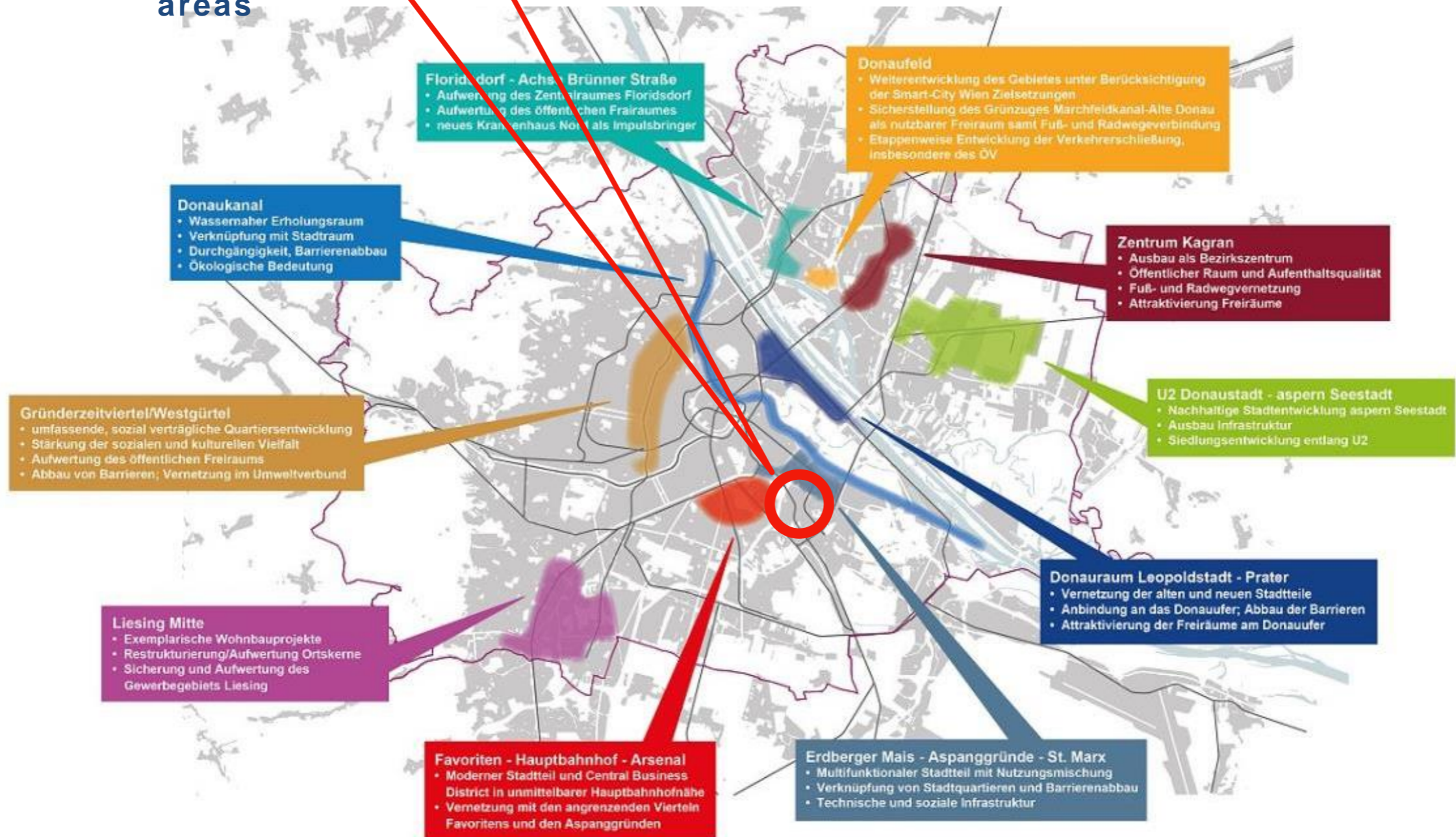
What will Simmering look like in 2030?



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Geographical Focus

Simmering North West – Project area between other huge development areas

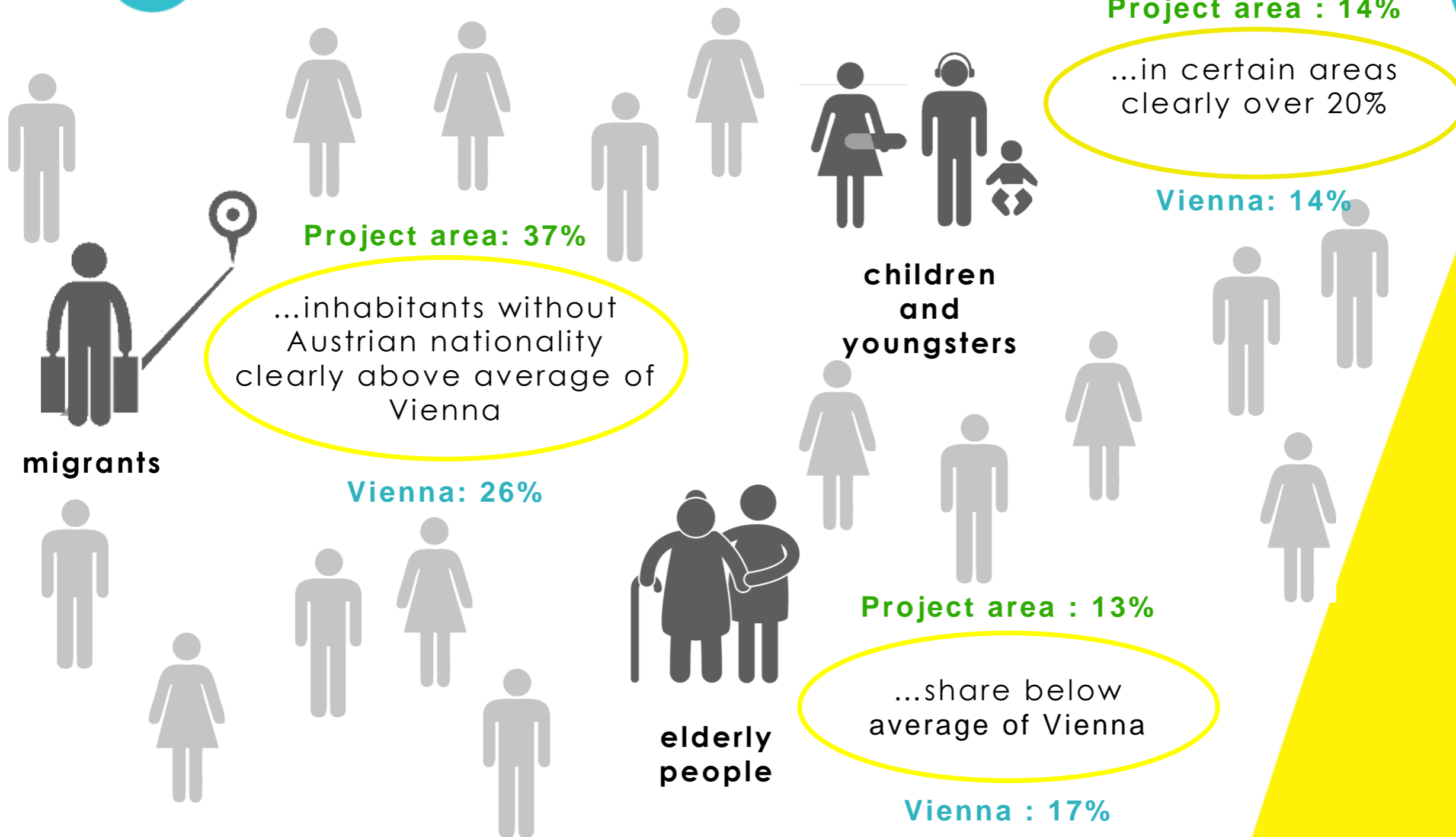




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Introduction to the Project Area

Charakteristics Inhabitants

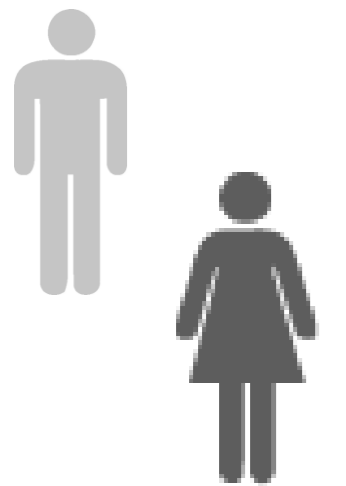




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Introduction to the Project Area

Charakteristics of the Inhabitants



single
households

Project area : 43%

... in the average
of Vienna

Vienna :
45%

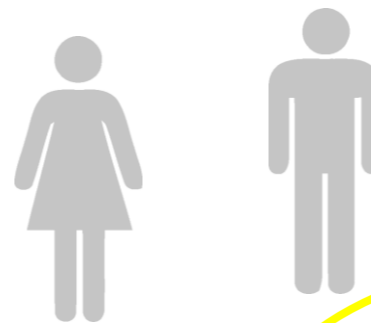


unemployment

Project area : 12%

...over the average
of Vienna

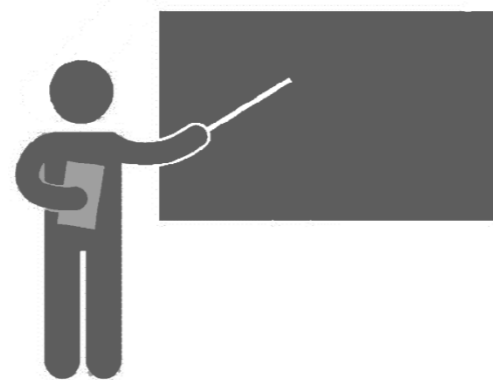
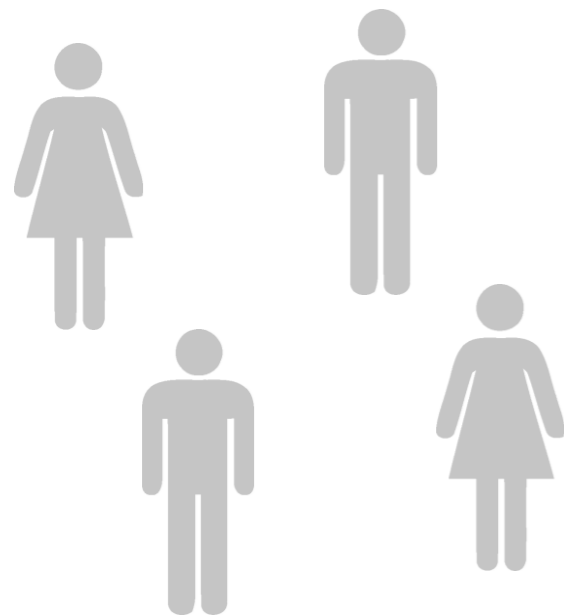
Vienna : 9%



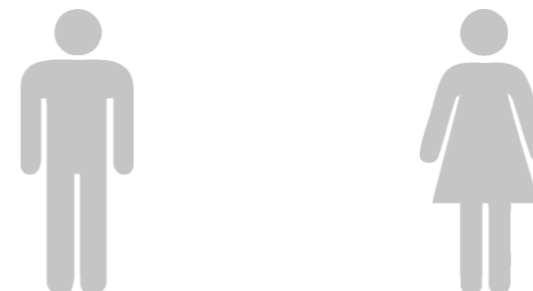
Simmering: 3%

... share of university
graduates clearly below
the average of Vienna

Vienna : 9%



education



SMARTER TOGETHER in Simmering

FACTS AND FIGURES:

- Three residential neighborhoods with 1,300 inhabitants will get a smart refurbishment. This corresponds to a total floor surface of 75,000 m².
- 6.000.000 kilowatt hours (kWh) will be saved every year (in all refurbished housing complexes together). This corresponds to the energy use of about 700 housing units.
- 9.000.000 kWh provided by renewable energy sources (thermic as well as electric energy) guarantee a more sustainable and future-oriented energy supply. Considerable savings for the tenants in energy and heating costs.
- Total saving of about 550 tons of carbon dioxide (CO₂)
- 900 jobs will be secured or partly even created
- 8 departments of the city administration of the City of Vienna are included in the intensive governance learning process. Experiences and results of the project will be integrated in a sustainable way all over the city.

CREATE TOGETHER. Focus Participation

The inhabitants of the project area have the opportunity to participate in different ways and on different levels in the development of their "smart" district.

ACTIVITIES:

- Information, counselling and participatory activities in the Smarter Together Information Mobile "SIMmobil"
- Cooperation with the community college VHS Simmering, local institutions and businesses
- Joint reflections on smart city themes (for instance with pupils of the secondary school NMS Enkplatz)
- Participation in projects on mobility or refurbishment
- Energy ("driving") license resp. training for pupils and tenants.

ADVANCE TOGETHER. Focus Mobility

A strategy on mobility will be elaborated that will contribute to the climate goals as well as to a high quality of life in the district.

INITIATIVES:

- Sharing offers: e-bikes and e-cars in the district for tenants
- e-vans for the post and smart logistics solutions
- e-mobility on the Siemens industrial site
- information on smart use of mobility offers
- local mobility consultancy



LIVING TOGETHER. Focus Refurbishment

Three residential housing complexes will be refurbished according to most modern criteria.

MEASURES:

- thermic-energetic measures
- use of photovoltaic and solar heat
- energy-saving lighting systems
- e-cars for housing communities
- extension of the NMS Enkplatz I + II and innovative energy concept (zero-energy-gym)

SUPPLYING TOGETHER. Focus Energy

Climate-friendly Energy systems will be developed and used. This contributes to the UN and Smart City climate goals.

MEASURES:

- Waste heat recovery and use of solar heat (transformation of solar energy into heat) for 3.000 households
- Further development of district heating through use of local renewable energy sources
- 100.000 kWh per year produced by photovoltaic installations (transformation of solar energy into electricity)
- District heat connection to 250 flats
- Accompanying monitoring and optimization of energy systems

SIMMERING CENTRAL AREA Geiselberg / Enkplatz

The Vienna project and urban renewal area of Smarter Together is located in the central part of the South-Eastern district of Simmering between Simmeringer Hauptstraße (an ancient main street axis) and the Eastern railway line (Geiselberg, Enkplatz).

In total, 21,000 inhabitants will benefit from "smart" project solutions within the fields refurbishment, energy, mobility and information and communication technologies.





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SIMmobil : information and participation



participation



mobility



refurbishment



energy





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SIMmobil : information and participation



Participation

SIMmobil, workshops,
cooperation in the domain of
mobility and housing
refurbishment





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Holistic Refurbishment



- Thermic and energetic measures,
- Photovoltaics and solar energy installations,
- Smart public lightening with reduced energy consumption,
- E-cars for rental housing blocs,
- Zero-energy-gym for the secondary school Enkplatz I + II (photovoltaics and water heating).

refurbishment

Hauffgasse 37-47 (485 flats, 53.000 m²),
cooperative housing



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Holistic Refurbishment

- Refurbishment of Lorystraße 54-60 and Herbortgasse 43



refurbishment

Lorystraße 54-60 (95 flats 8.800 m²),
municipal housing



refurbishment

Herbortgasse 43 (52 flats 3.800 m²),
municipal housing



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Zero-Energy-Gym for the School



New Secondary School NMS Enkplatz I and II
8000 m² gross floor extension including a
Zero-energy-gym showcase





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District Heating 4.0



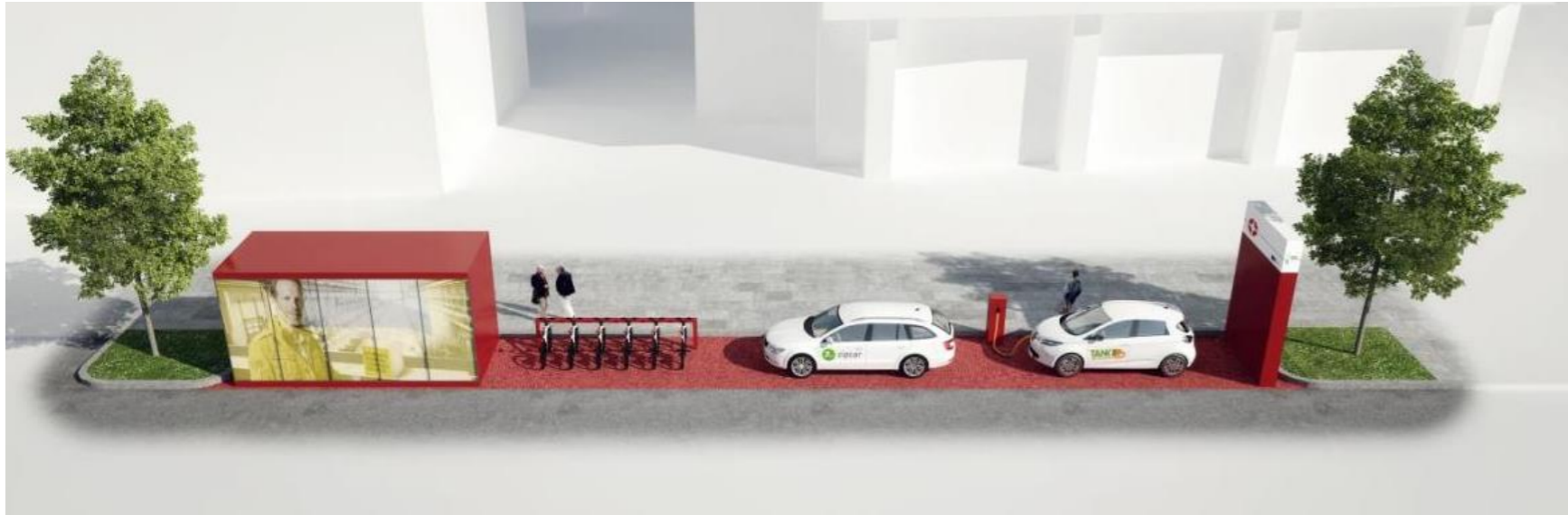
- Reuse of waste heat and usage of solar energy (transformation into heat) for 3000 flats,
- Continuous development of distance heating thanks to usage of local energy sources,
- 100.000 kWh per year of energy production thanks to the installation of photovoltaics (transformation into electricity),
- Connection to distance heating network of 250 flats,
- Monitoring and optimization of energy systems.

**Savings in the amount of
6 Mio. kWh per year on
energy and 550 tons CO₂**



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Mobility in Simmering



- Sustainable mobility:
Local strategy for footpaths, public spaces,
testing zone for e-mobility
- Information and counselling on the smart usage of
mobility and mobility points.





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E-Bike Sharing in Simmering



- Sharing models: e-bikes and e-cars for inhabitants of the area (charging stations)





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E-Logistics at Siemens

- Siemens Leberstraße: E-mobility and e-logistics on the Siemens industrial site



SIEMENS



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E-Logistics at Post

- Post: e-transport for parcels
- smart logistics in housing units and in the area





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Strawberry Benches



Project landmarks: Strawberry Benches:



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Green Area Network

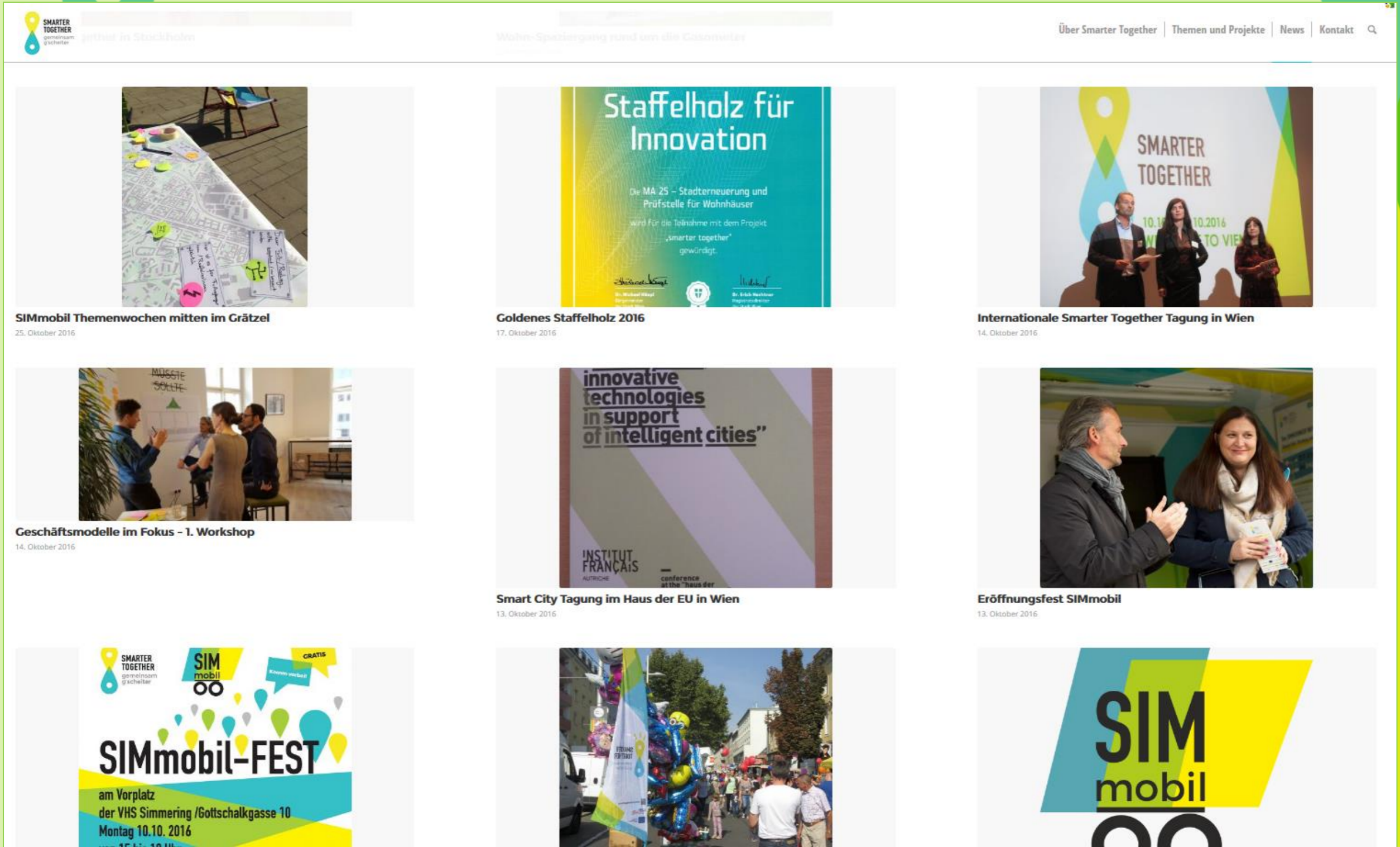




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www.smartertogether.at

Webpage





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Newsletter



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gemeinsam
g'scheiter

Über Smarter Together | Themen und Projekte | News | Kontakt 

News aus Simmering

Hier finden sie gesammelt die Smarter Together Newsletter.



#3, OKTOBER 2016



#2, SEPTEMBER 2016



#1, SEPTEMBER 2016

Bei Rückfragen kontaktieren Sie bitte:

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Newsletter abonnieren

Bleiben Sie auf dem Laufenden und erfahren Sie alles rund um das Projekt Smarter Together.

abonnieren



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Wien

**Smart and Inclusive Solutions
for a
Better Life in Urban Districts**

Let's be smarter together !



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