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by the European Union



SMARTER TOGETHER

**Vienna's share in the
European Lighthouse project**

Dr. Julia Girardi-Hoog
City of Vienna MA 25

Hong Kong-Vienna Dialogue, Nov. 15, 2016



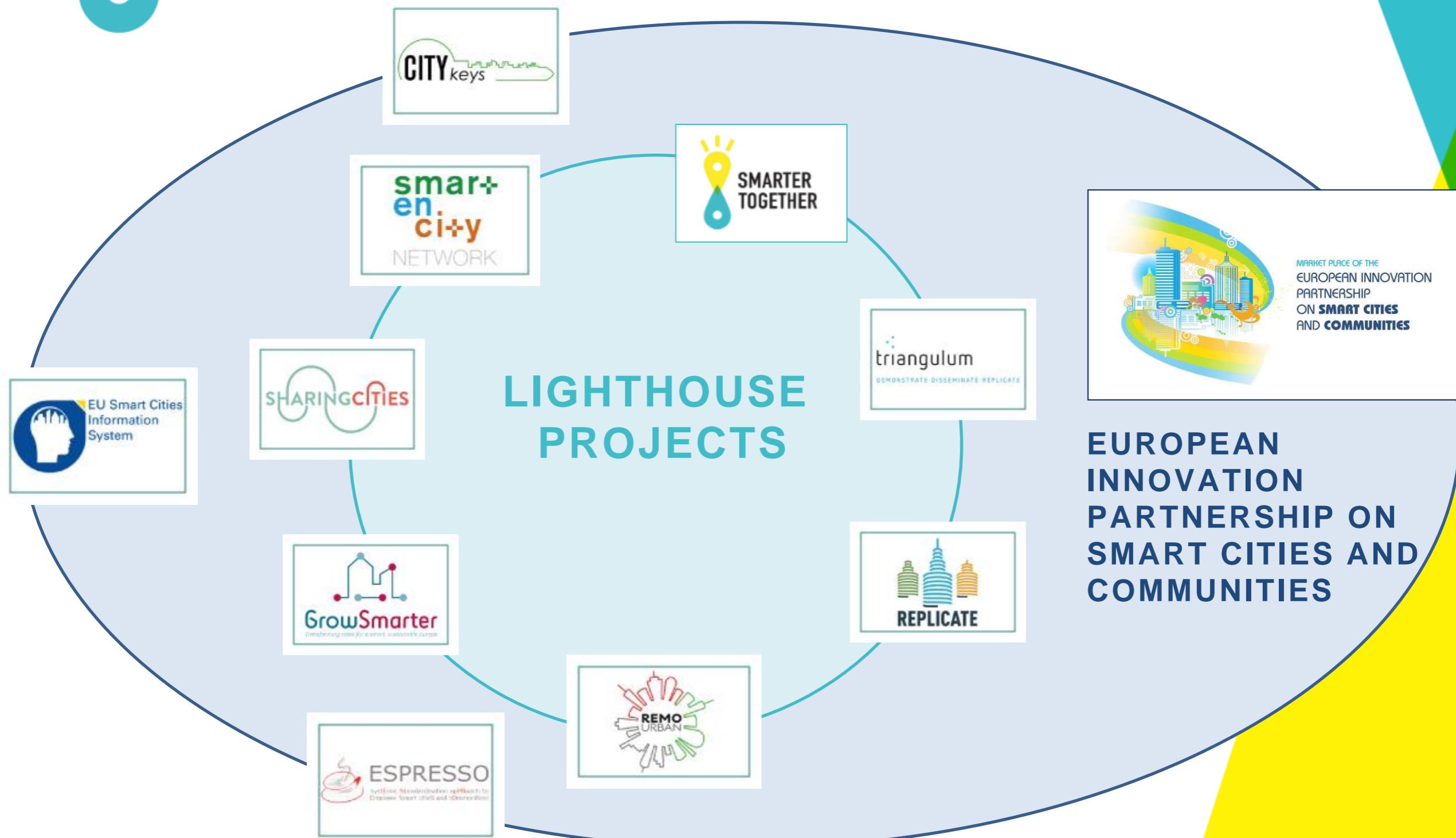
This project has received funding from the
European Union's Horizon 2020 research and
innovation programme under grant agreement
No 691876



SMARTER TOGETHER

European Lighthouse Projects

LIGHTHOUSE PROJECTS





SMARTER TOGETHER

We are SMARTER TOGETHER

- www.smartertogether.eu
- 5 years (2016-2020)
- 29 M€ , co-funded by Horizon 2020 programme of the EU (24 M€)
- 30 partners from 8 countries
- Coordinator: SPL Lyon Confluence (FR)



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We are SMARTER TOGETHER





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- Lighthouse cities: **Lyon, Munich, Vienna**

GRANDLYON
la métropole



Landeshauptstadt
München

StadtWien
Wien ist anders.

- Follower cities: Santiago de Compostela, Venice, Sofia

- Observer cities: Kiev, Yokohama

**CONCELLO DE
SANTIAGO**

**COMUNE DI
VENEZIA**





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We are SMARTER TOGETHER





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Lyon Confluence

GRANDLYON
la métropole



TOSHIBA

ENEDIS
L'ELECTRICITE EN RESEAU



Landeshauptstadt
München



bettervest
nachhaltig · effizient · rentabel

G5 Partners

SIEMENS

STATT
AUTO
München·CarSharing

SECURITAS

StadtWien
Wien ist anders.

bwsg

WIENER
STADTWERKE

kelag
Wärme

SYCUBE

Post
ÖSTERREICHISCHE POST AG

Fraunhofer

AIT
AUSTRIAN INSTITUTE
OF TECHNOLOGY

energycities

GOPA.com.

University of St.Gallen

TUM
TECHNISCHE
UNIVERSITÄT
MÜNCHEN

DIN

Algöe
consultants

CONCELLO DE
SANTIAGO



COMUNE DI
VENEZIA



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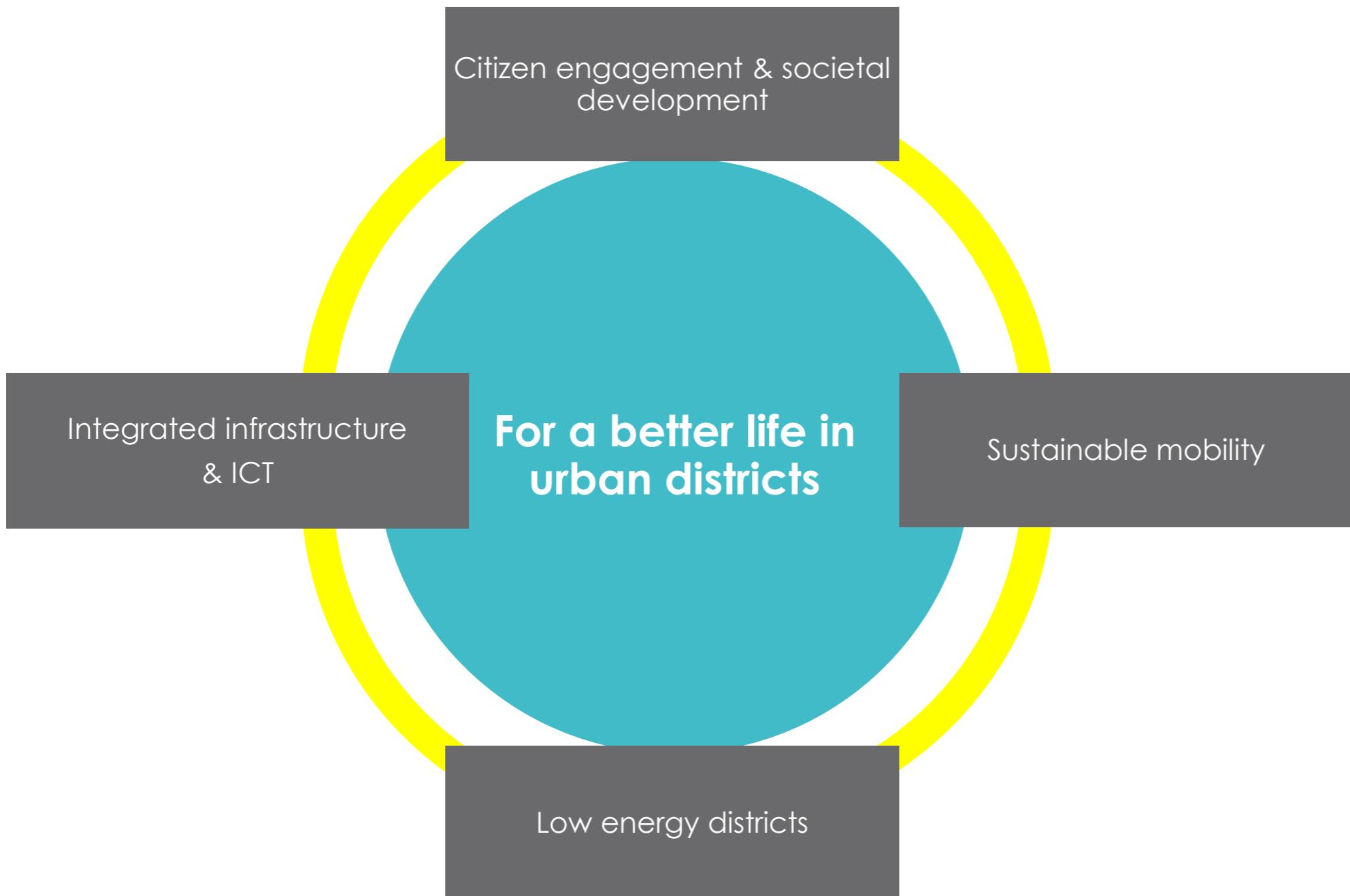
We strive to

- Set up **high level affordable services** addressing end-user needs (citizens, cities, building owners)
- Develop an **integrated and citizen-centric approach** for nearly zero energy emission in large scale urban areas of various conditions
- Define standards and architecture of **urban data platforms** in each city to foster interoperability at European and cities level
- Develop **new jobs and business models**



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We strive to





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We focus on

Five concrete areas of **co-created and replicable integrated smart solutions:**



Citizen
engagement



District
heating and
renewable
energy



Holistic
refurbishment



Smart data



E-mobility



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Demonstration areas
LIGHTHOUSE CITIES



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Demonstration areas

Lyon

- Lyon-Confluence
- 1,5 km²
- City centre, former industrial site
- 7,500 inhabitants (16,000 expected by 2025)

Munich

- Neuauing-Westkreuz/Freiham
- 7 km²
- Urban fringe
- 30,000 inhabitants (50,000 expected by 2030)

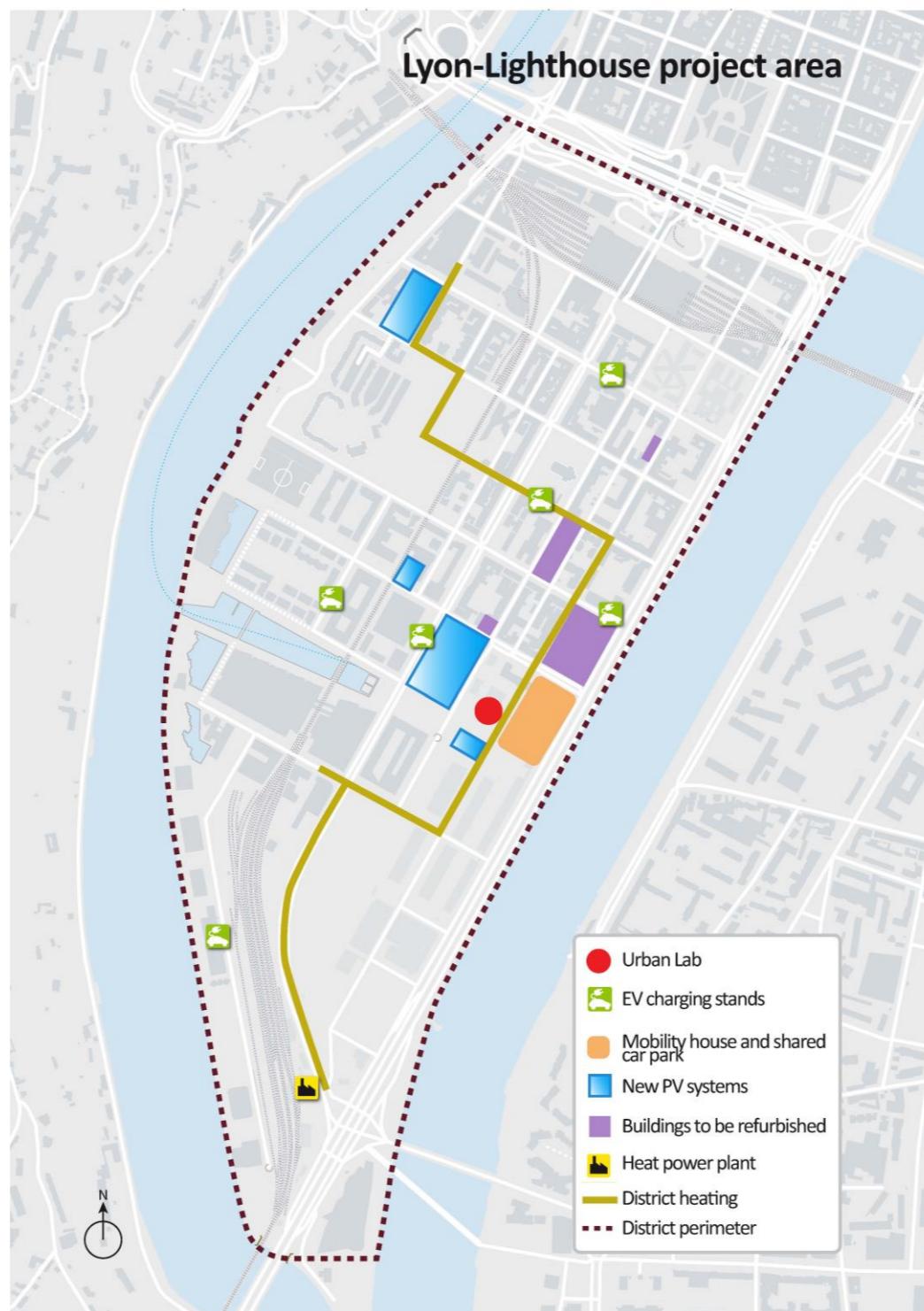
Vienna

- Simmering NW
- 1,5 km²
- Outer district, mixed
- 21,300 inhabitants



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Lyon

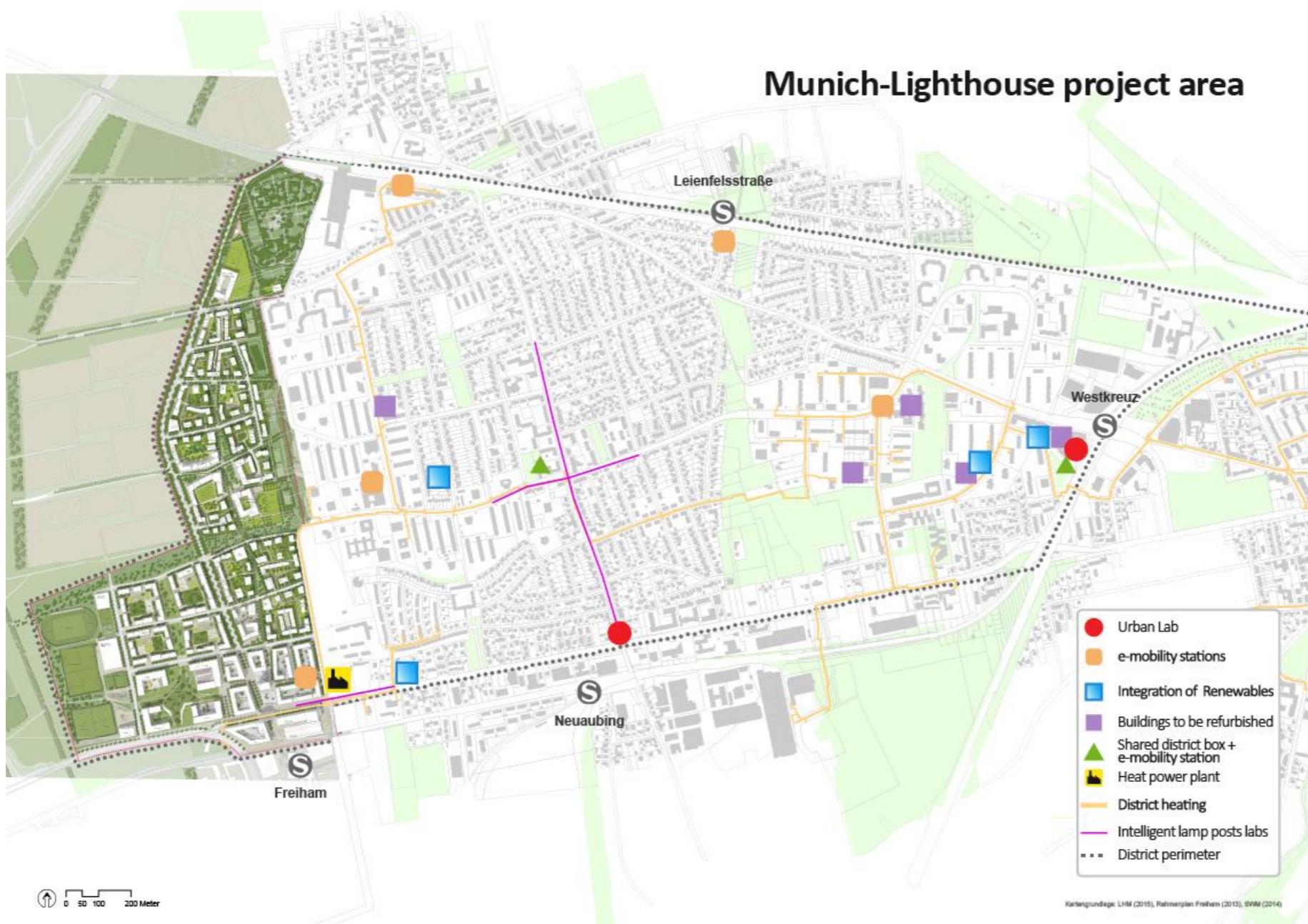




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Munich

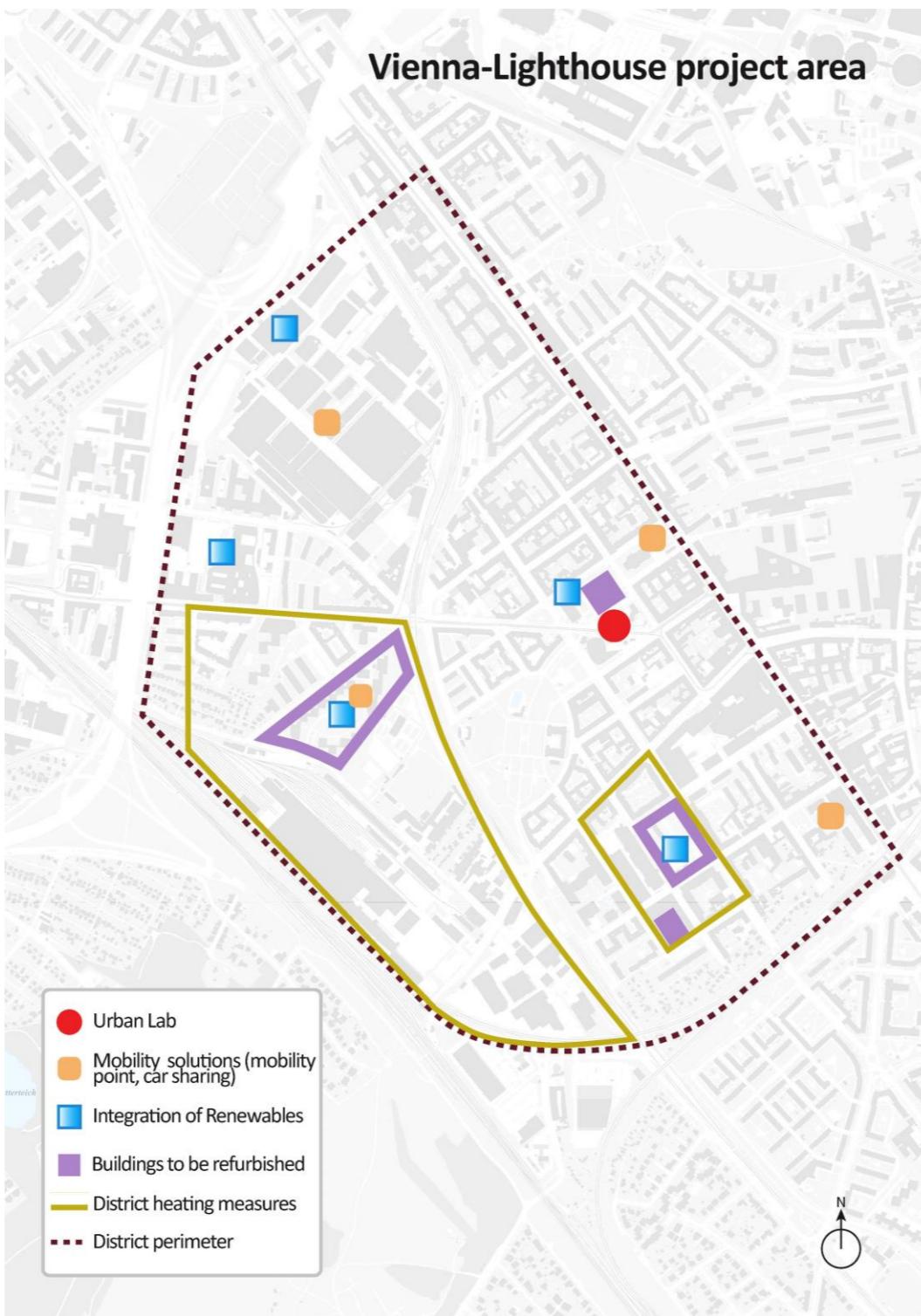
Munich-Lighthouse project area





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Vienna

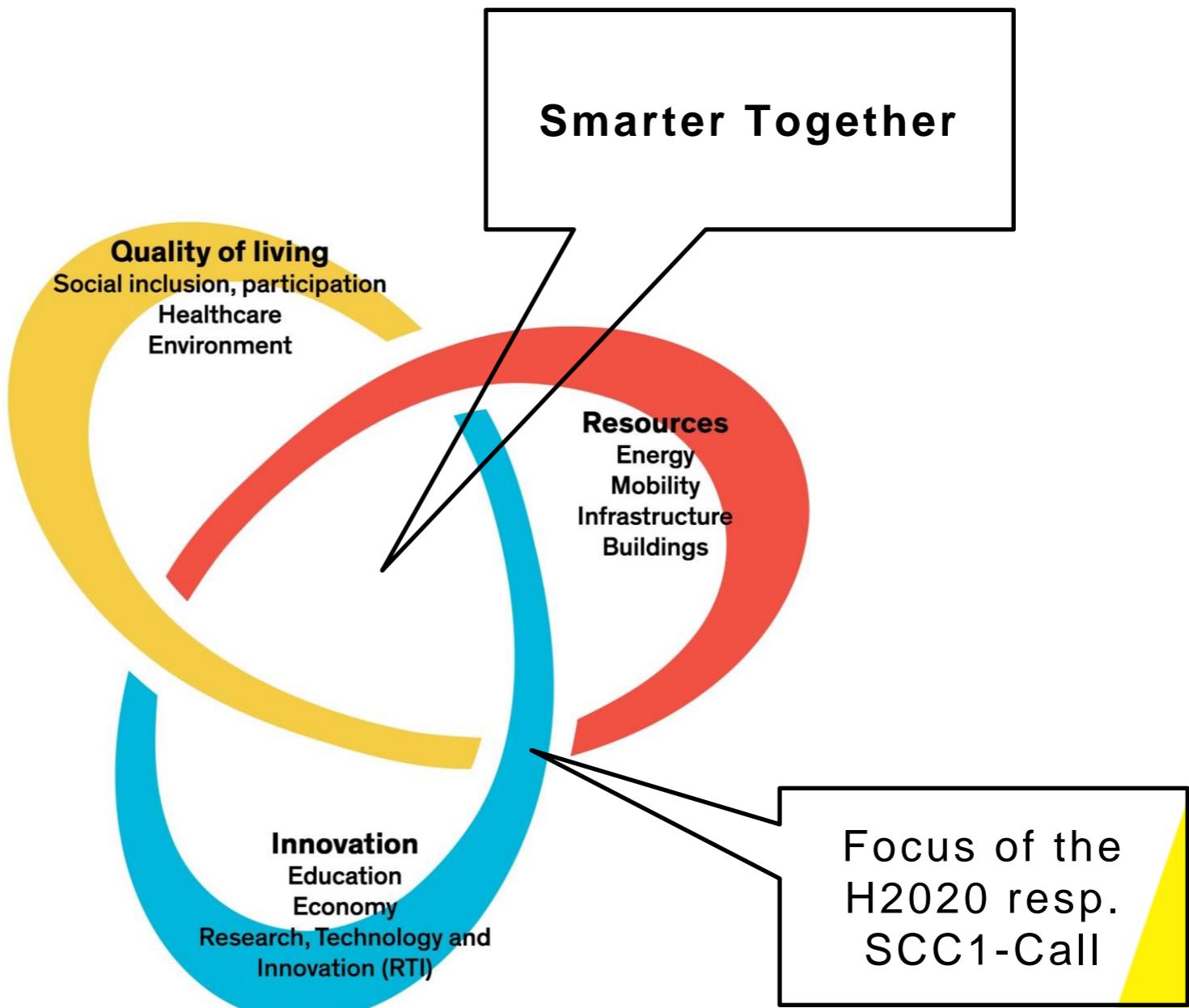




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Project's Concept

Vienna Smart City
Framework Strategy



Patronage:

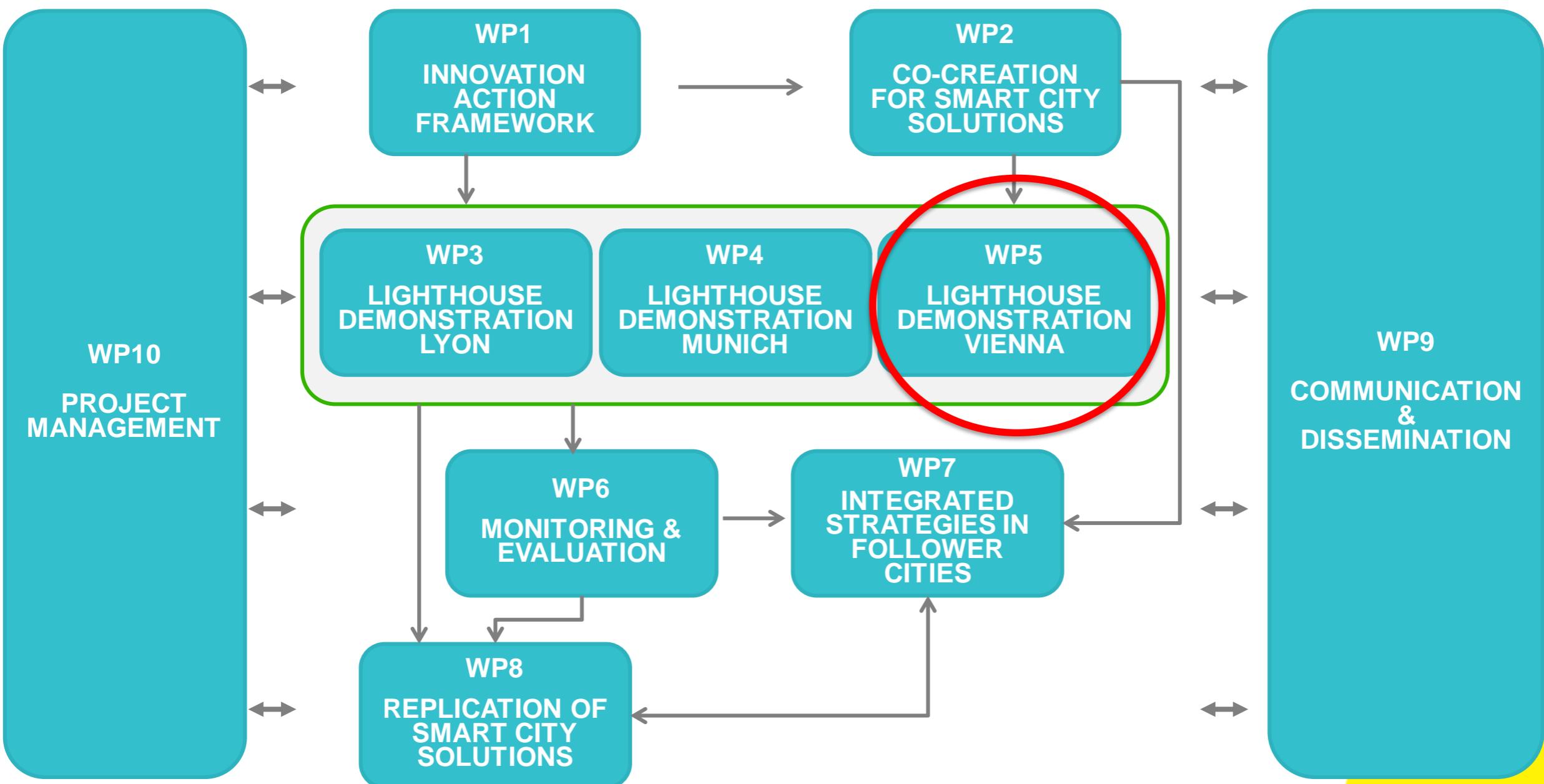
Executive City Councillor
Dr. Michael Ludwig

wien.
unser Zuhause.
Geschäftsgruppe Wohnen, Wohnbau & Stadtneuerung



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Project Workflow

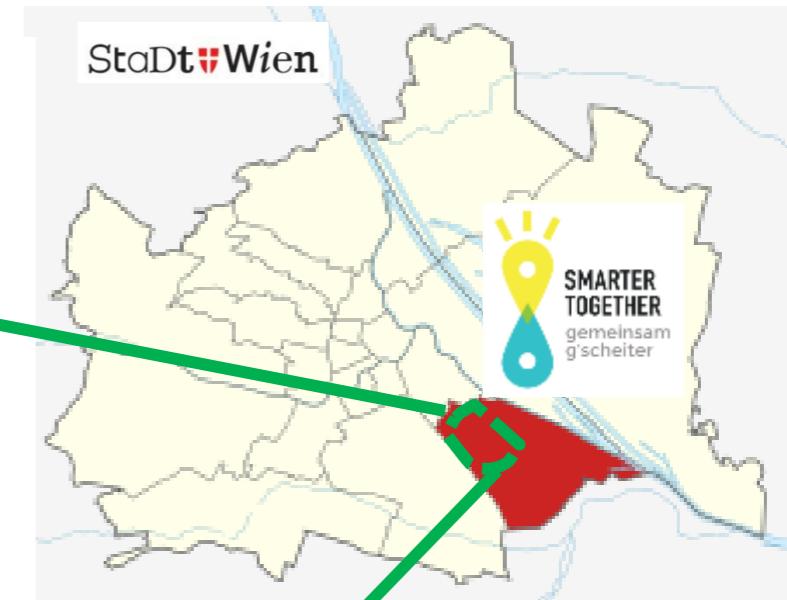
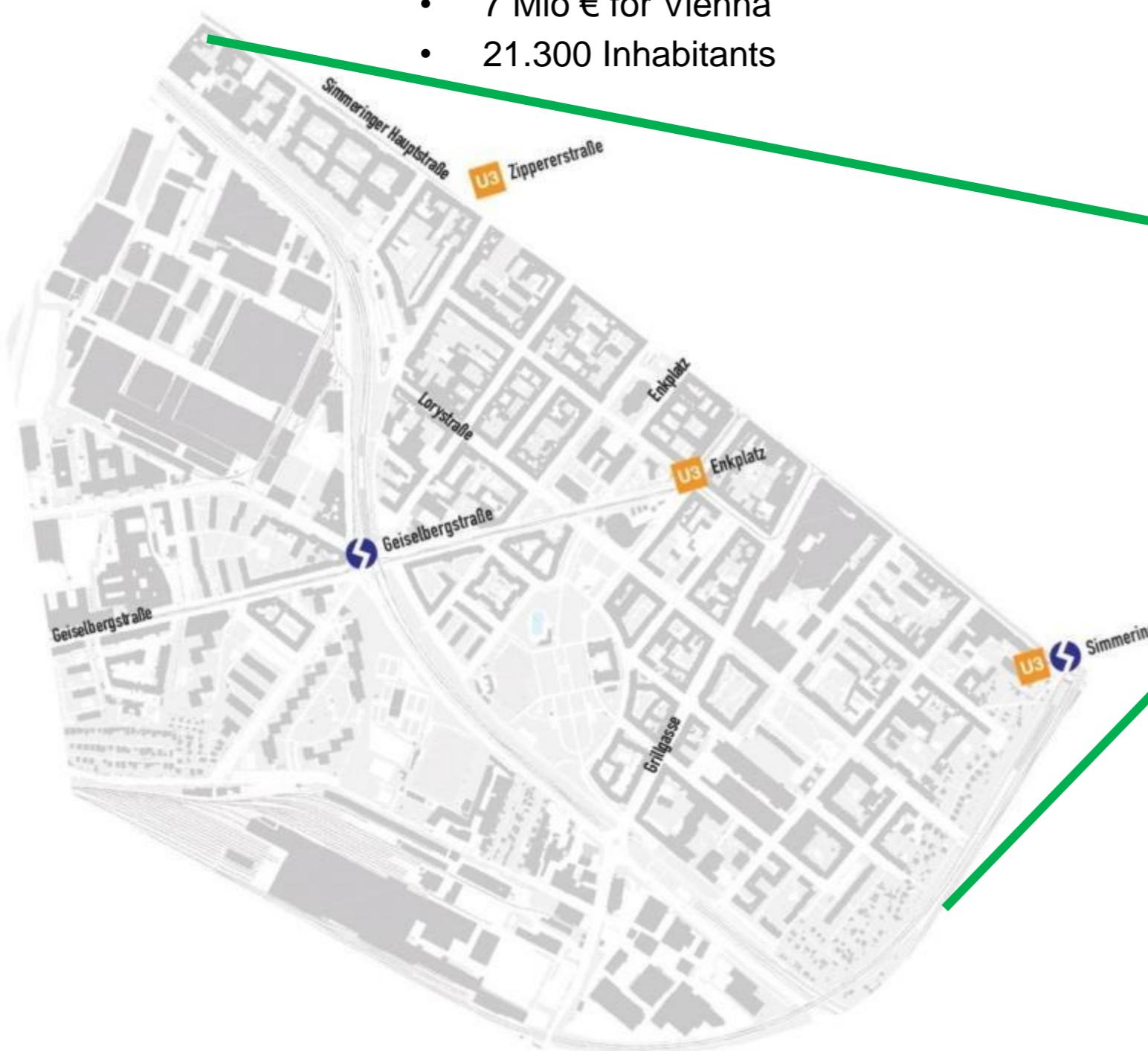




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Target Area: Key Figures

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





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SIEMENS

AIT
AUSTRIAN INSTITUTE
OF TECHNOLOGY

Post

STADT WIEN
WIENER
WOHNEN

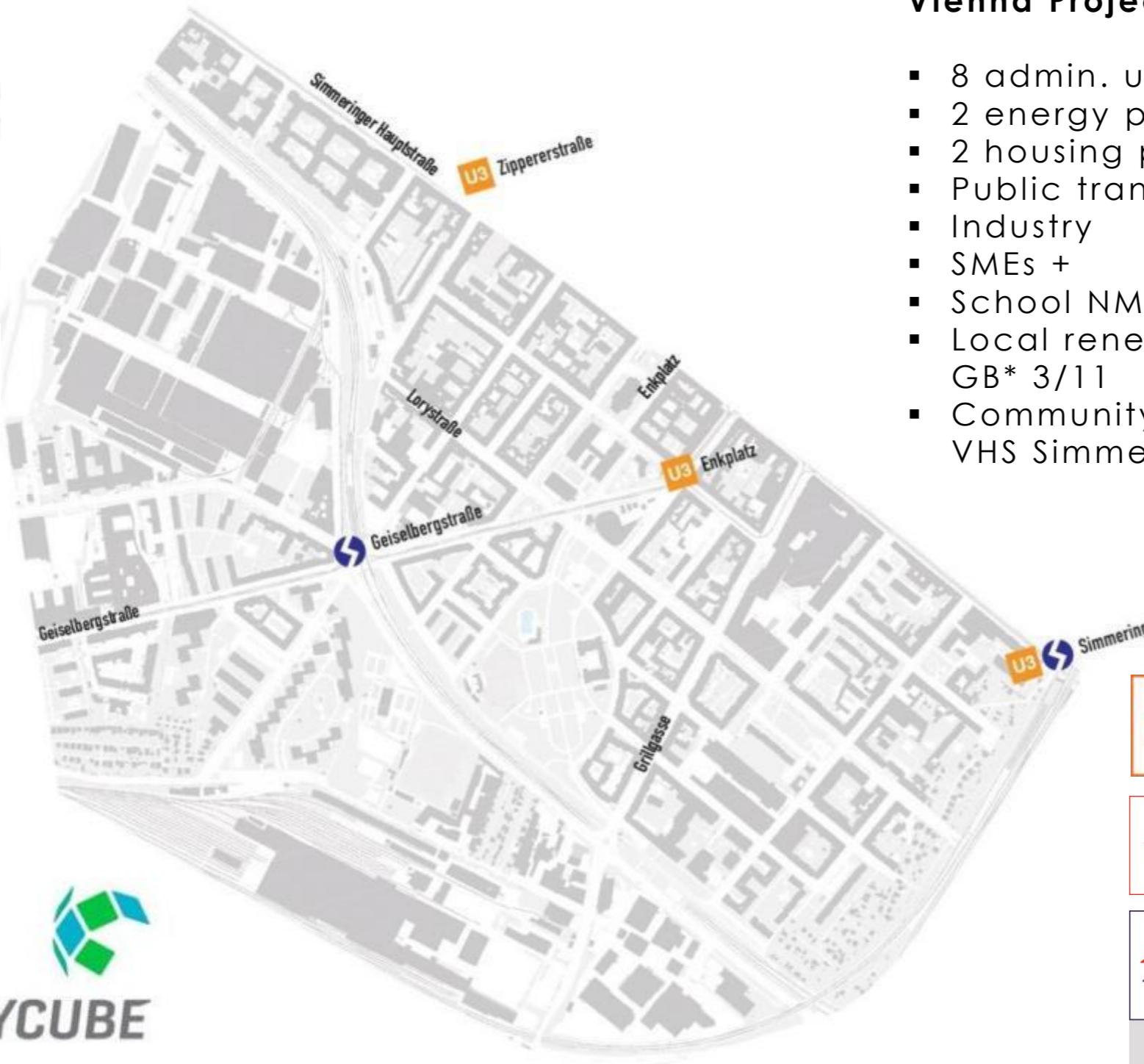
bwsg

besser wohnen seit Generationen

kelag
wärme

SYCUBE

Project Partners



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

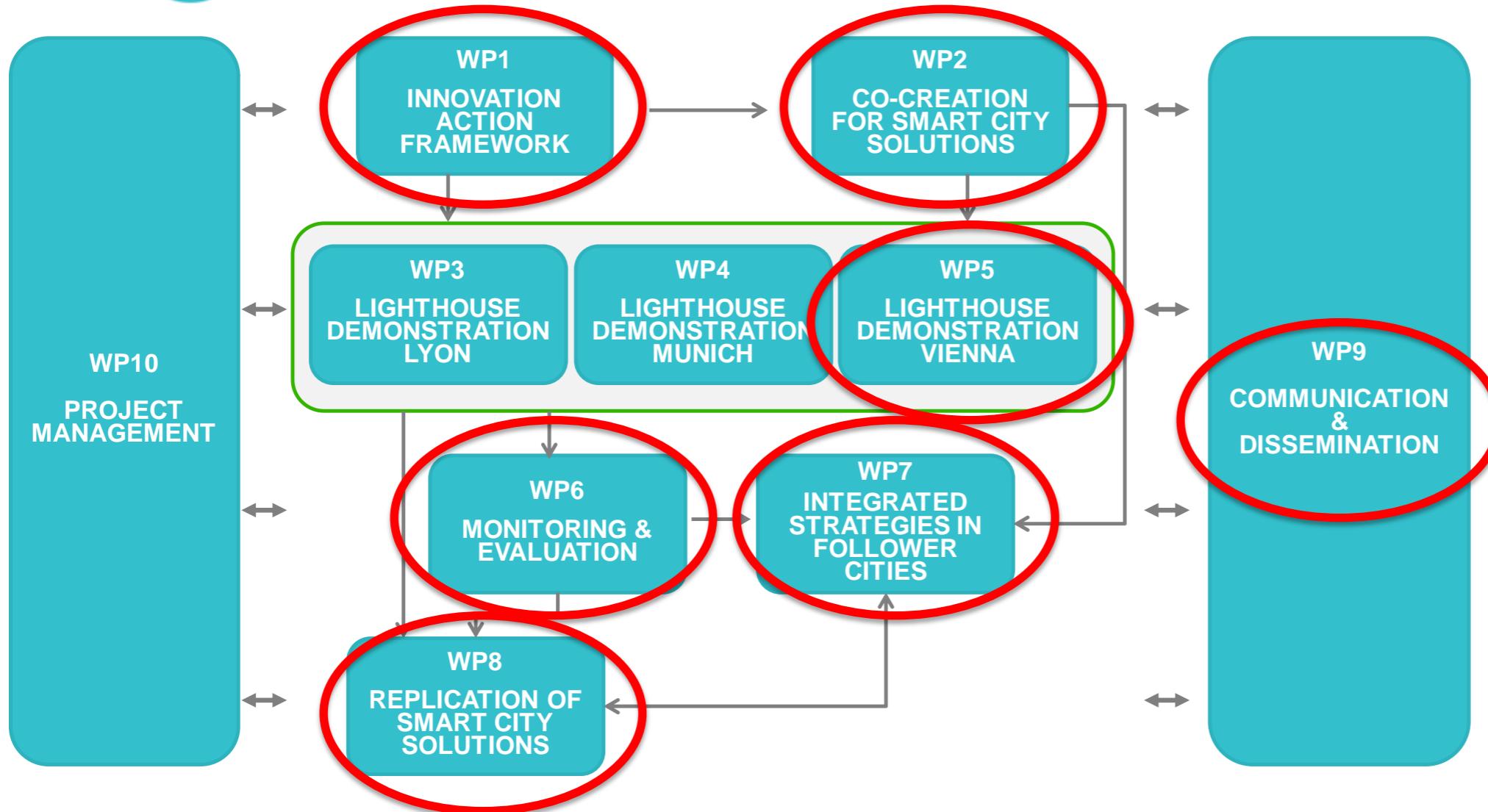
 WIENER LINIEN

 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 your children and your nephews in 2030?

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

How do you heat your flat in 2030?

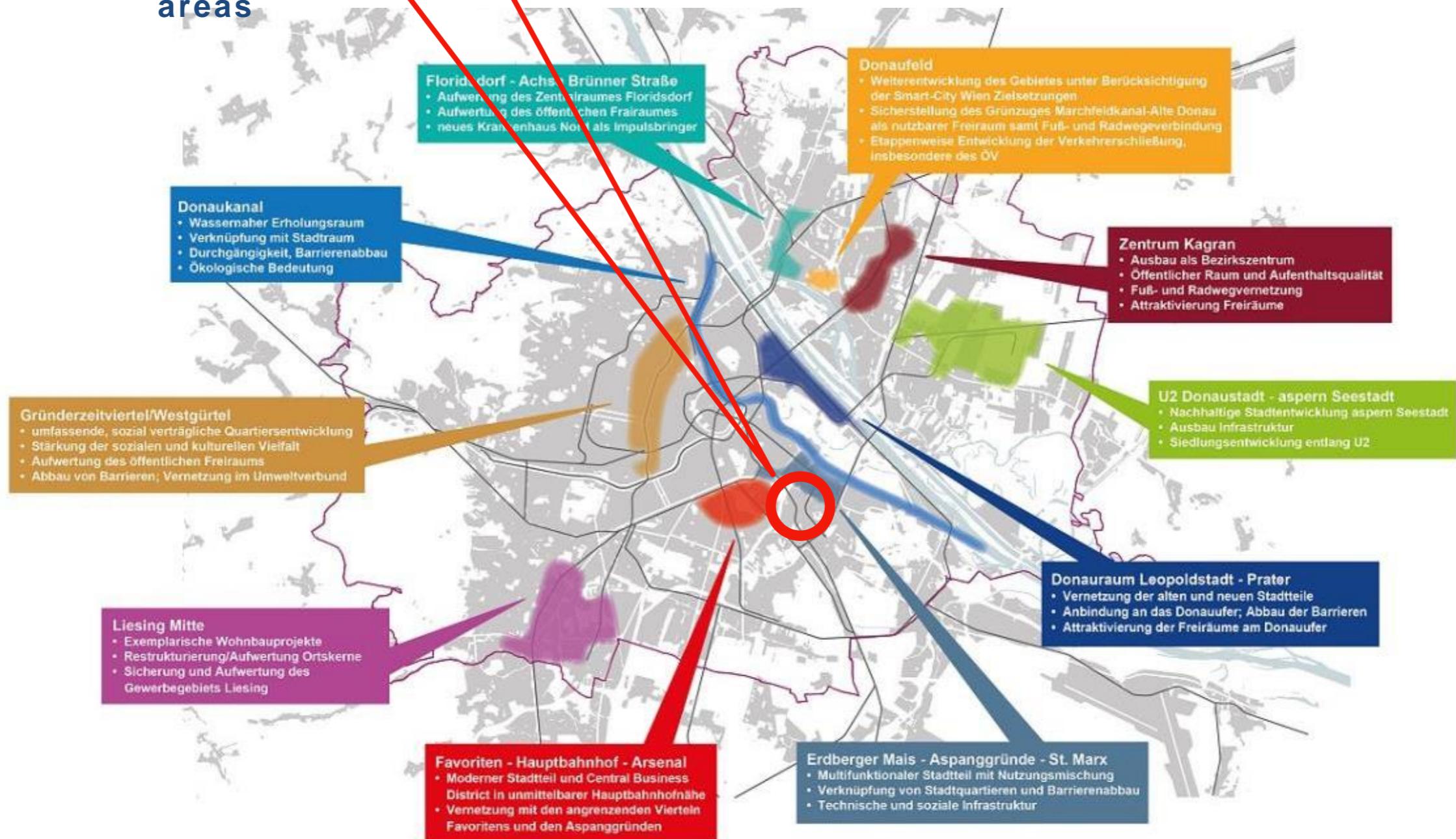
What will Simmering look like in 2030?



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Geographical Focus

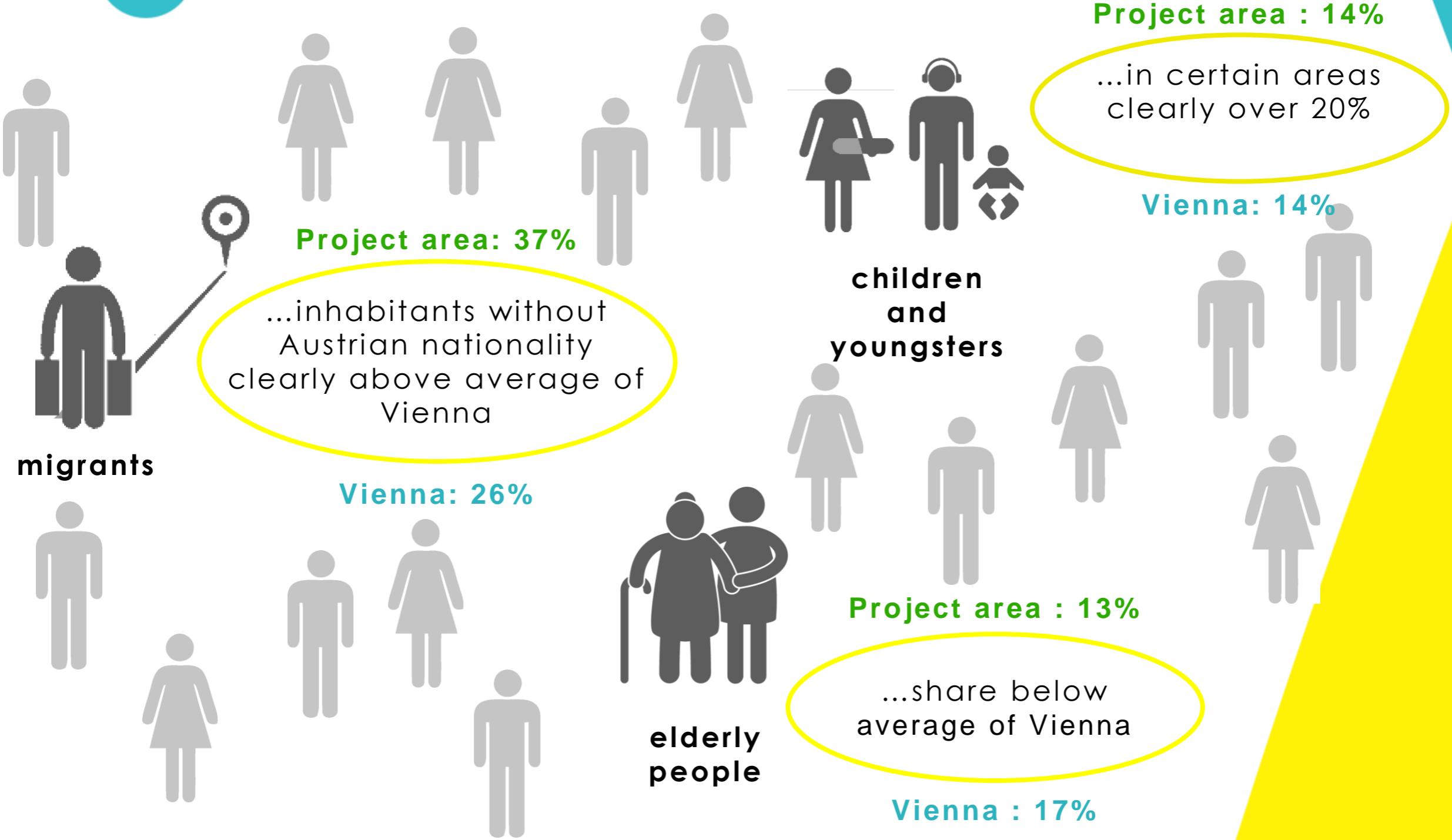
Simmering North West – Project area between other huge development areas





Introduction to the Project Area

Charakteristics Inhabitants

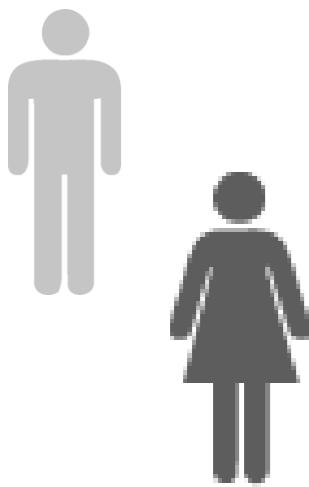




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Introduction to the Project Area

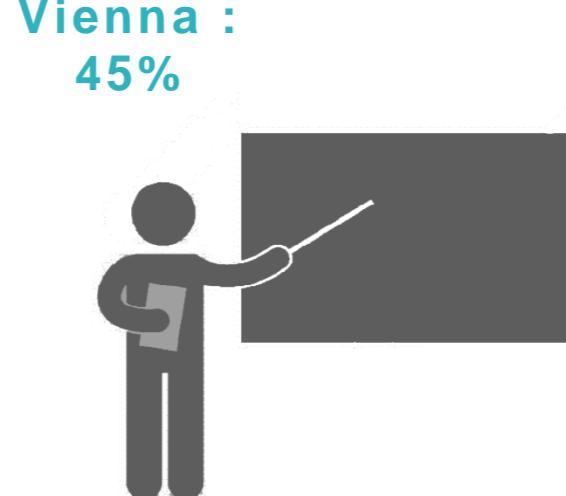
Charakteristics of the Inhabitants



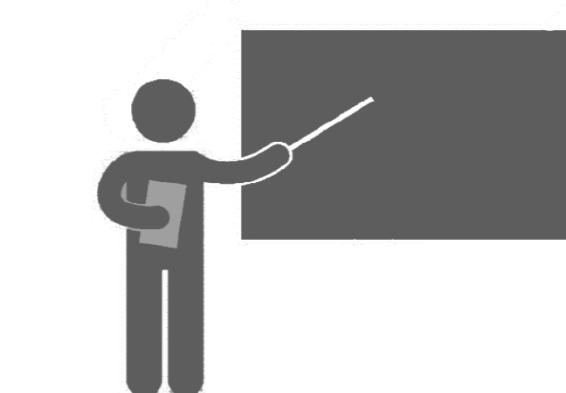
**single
households**



Project area : 43%
... in the average
of Vienna



education



Project area : 12%

...over the average
of Vienna

Vienna : 9%

Simmering: 3%

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

Vienna : 9%

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

Refurbishment
Lorystraße 54-60
95 municipal housing flats
on 8.250 m²

U3 Simmering

Refurbishment
Herborgasse 43
51 municipal
housing flats
on 3.800 m²

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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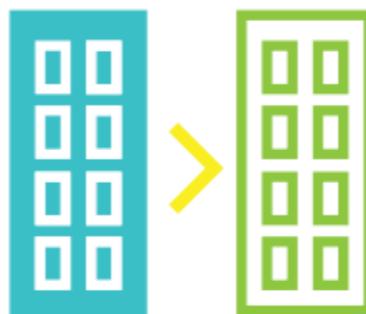
SIMmobil : information and participation



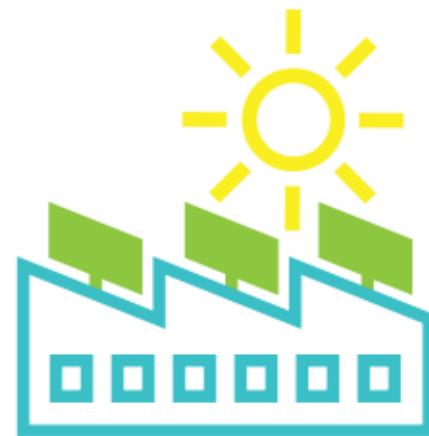
participation



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 extention including a
Zero-energy-gym showcase



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District Heating 4.0



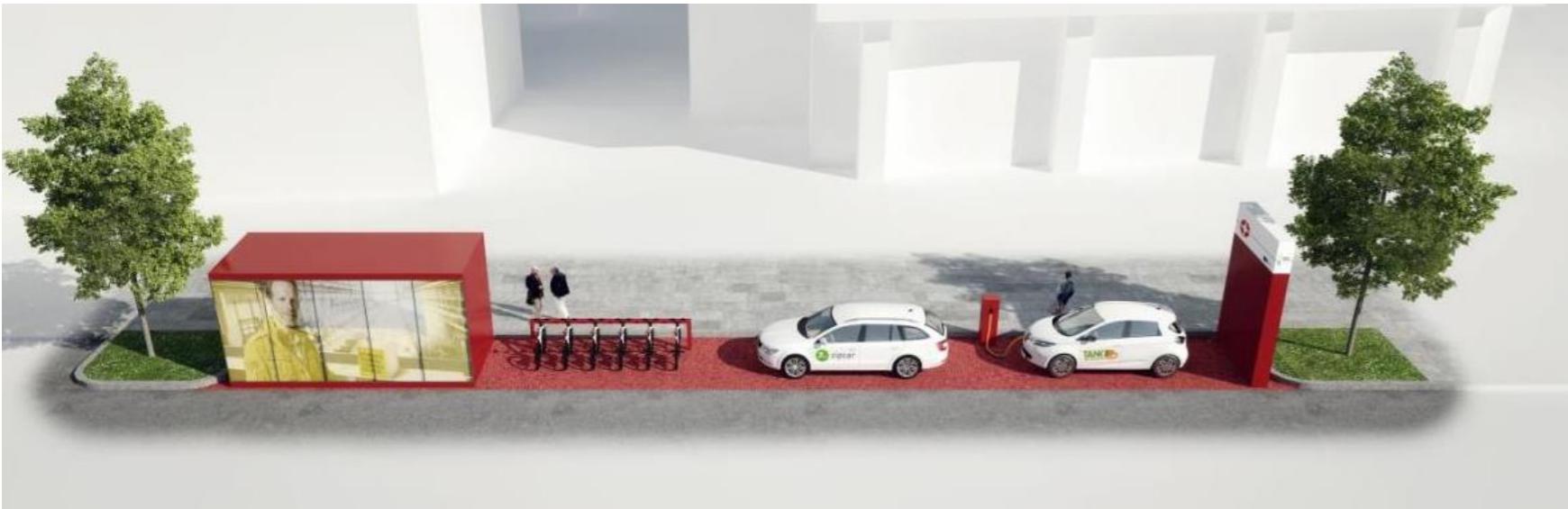
**Savings in the amount of
6 Mio. kWh per year on
energy and 550 tons CO₂**

- 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.



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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-transports for parcels
- smart logistics in housing units and in the area



Post



Postboxen im Hauseingang



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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

The screenshot shows the homepage of the Smarter Together website. At the top, there's a navigation bar with links for "Über Smarter Together", "Themen und Projekte", "News", and "Kontakt". Below the navigation, there are several event highlights:

- SIMmobil Themenwochen mitten im Grätzl** (25. Oktober 2016): A photo of a table with a map and sticky notes.
- Wohn-Spaziergang rund um die Casinoterrasse**: A photo of a person walking on a path.
- Staffelholz für Innovation** (Goldenes Staffelholz 2016, 17. Oktober 2016): A certificate from MA 25 for the project "smarter together".
- Internationale Smarter Together Tagung in Wien** (14. Oktober 2016): A photo of three people standing on stage.
- Geschäftsmodelle im Fokus - 1. Workshop** (14. Oktober 2016): A photo of people at a workshop.
- innovative technologies in support of intelligent cities** (Smart City Tagung im Haus der EU in Wien, 13. Oktober 2016): A banner for the conference.
- Eröffnungsfest SIMmobil** (13. Oktober 2016): A photo of two people talking at an event.
- SIMmobil-FEST** (am Vorplatz der VHS Simmering / Gottschalkgasse 10, Montag 10.10. 2016 von 15:00 - 19:00): A poster for the festival.
- Festzug** (A photo of a street festival with balloons and people).
- SIMmobil 00** (A large graphic element on the right side of the page).



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Newsletter



**SMARTER
TOGETHER**
gemeinsam
g'scheiter

Sprach

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:

Mag. Bojan Schnabl MAS

T: +43 (0) 1 4000 74855

Mobile: +43 (0) 676 8118 74855

Bojan-Illja.Schnabl@extern.wien.gv.at

Newsletter abonnieren

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

E-Mail-Adresse*

abonnieren



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

Let's be smarter together !



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