



15/09/2022

FINAL CONFERENCE
14TH - 15TH SEPTEMBER 2022

Lighthouse City Hamburg
Thomas Jacob



mySMARTLife – Topics



4 Development Pillars:

- Energy
- Mobility
- Communication (ICT)
- Citizen Interaction

mySMARTLife – Project Area



Aerial view: Matthias Friedel



This project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 731297.

Energy – Smart district and smart energy supply



- **New construction** & heating system supplied with hydrogen in fuel gas (30% H₂ injection manageable for plants & gas lines)
- **PV plants + batteries**; further PV plants in and outside of the project area
- **Wind park with total nominal power of 12.6 MW (26-29 GWh/a)**
- Feasibility studies (legal, technical) on **direct link** between wind park and charging infrastructure of VHH bus depot (unfortunately not practical)



Energy (& Infrastructure)



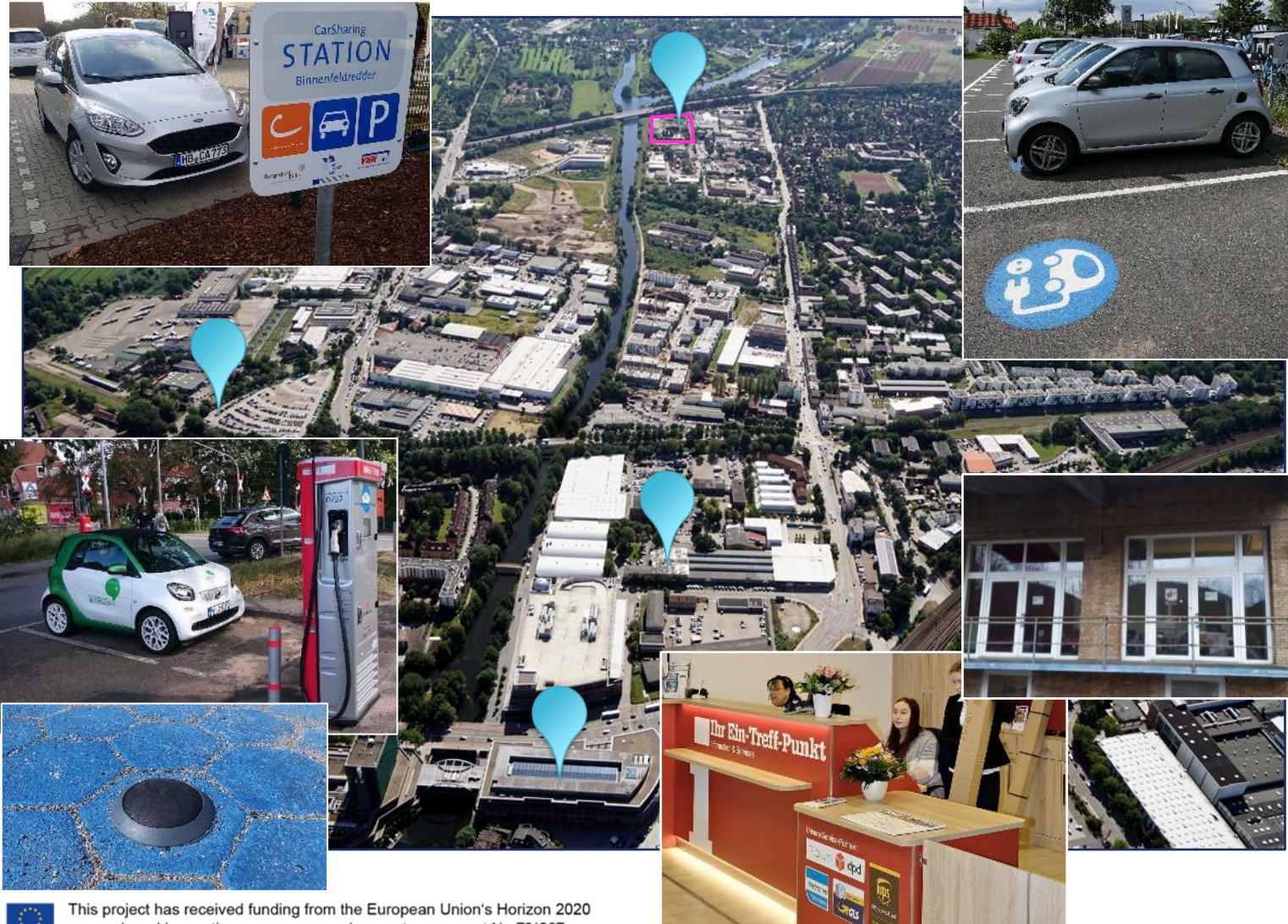
- ✓ About 2.600 new (state-of-the-art) flats have been built
- ✓ New LED lights (partly with WIFI) have been installed
- ✓ Plans on new lighting with lots of different sensors completed
- Employment of the lights will come later and outside of the project area

Energy (& Infrastructure)



- ✓ Meters to visualize consumption of electricity have been installed
- ✓ Installation of Smart Meter Systems
- ✓ Renovation Consulting was realized and some Smart Heating Islands established
 - Renovation partly difficult due to very detailed owner structure

Mobility



- ✓ E-Car-Fleet for local administration and VHH has been established
- ✓ Charging structure has been built up
- ✓ Community Car Sharing Station was established and has now e-car
- ✓ E-Parking-System has been established in Bergedorf and all of Hamburg
- ✓ Logistics Micro HUB has been established
- ✓ Charging station at Energy-Campus supplied with high share of RES-electricity due to environmental charging mode



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Mobility



- ✓ Bus depot has been electrized
- ✓ Staff has been trained on the e-bus-system
- ✓ 48 charging points have been installed
- ✓ More than 50 e-buses are now in use



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ICT and Urban Platform developments – ICT & URBAN PLATFORM

Benefits for the Lighthouse City and subsequent use

- Provision of a real-time data infrastructure as open-source code in a git repository for easy reuse by municipalities in Europe (<https://bitbucket.org/geowerkstatt-hamburg/hh-udpiot/src/master/>)
- Enabling replication by other municipalities in Europe and the world
- Subsequent use of the real-time data infrastructure developed in mySMARTLife for other projects, e.g., within the framework of the ITS world congress 2021 and the ITS strategy of the City of Hamburg
- Replicating of infrastructure, real-time data concepts and front-end developments by other cities, e.g., Berlin (<https://viz.berlin.de/dps-portal>)
- The approach: public money - public code, was fully implemented



mySMARTLife - Impact in Hamburg

Governance:

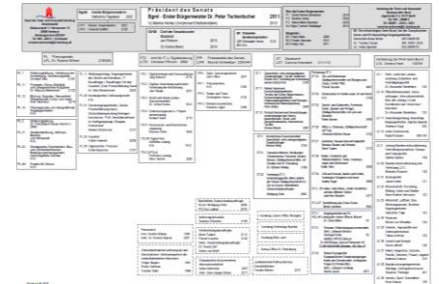
- Responsibility for “Smart City” defined and installed (Senate Chancellery, IT Dep.)

Operationalization:

- Distinction between “progress” and “intelligent”
- Cross-sectoral approach recognized and implemented
- case-related replication of (partial) results

Citizen's participation beyond (already high) legal requirements wherever possible

Buzzwords are only good for commercials...



**Thank you
for your attention!**



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