

Enhancing municipal working structures for climate neutral development Nadja Riedel, City of Leipzig



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SPARCS

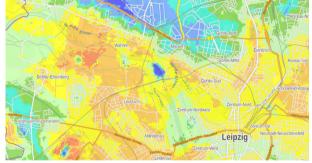
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Energy transition projects demand for crosssilo working structures (examples)

Strategic level

Municipal Heating Planning (Kommunaler Wärmeplan) – climate neutral heat supply till 2038



- + 12 City offices + departments involved
- + External stakeholders (e.g. LSW)

Large scale approval processes

Planing and permitting process Solar Thermal Plant Leipzig Lausen



- + Building permit/plan
- + Change land-use plan
- + Change Regional Plan

"Smale scale" interventions

Energetic Refurbishment of buildings (e.g. facade, heating system, PV installation)



- + Social conservation area
- + Monument protection



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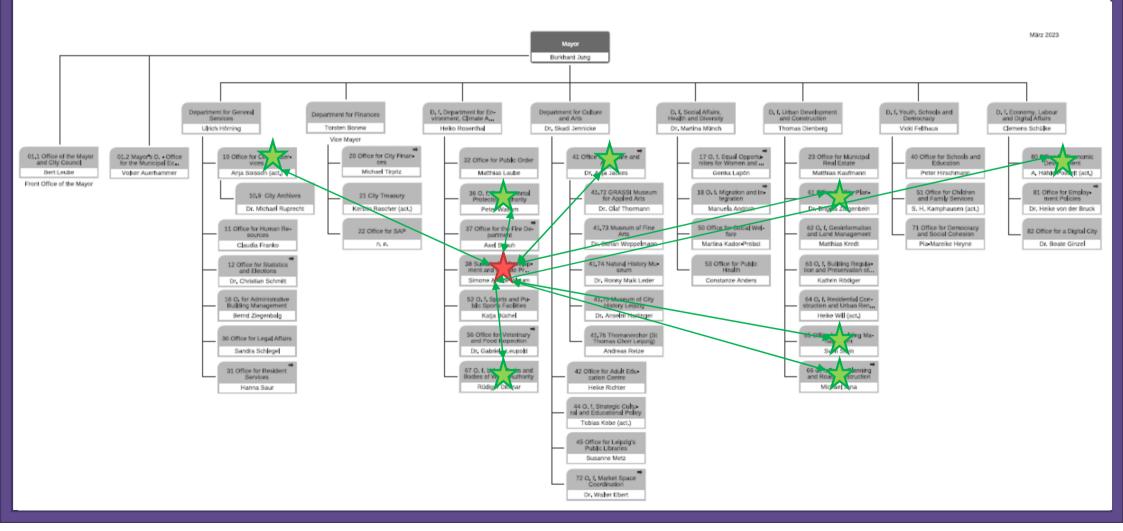
Adjustment of working structures



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SPARCS

City of Leipzig – Office for Sustainable Development and climate protection // core group climate protection managers





Standard model "climatefriendly" district development



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Energetic refurbishment concepts (2021-2023)

- Nation funding scheme KfW 432
- district approach
- Part of Leipzig SECAP (3 concepts per year)
- Integrated development of solutions for climate neutral districts (focus: heating, energy, mobility)





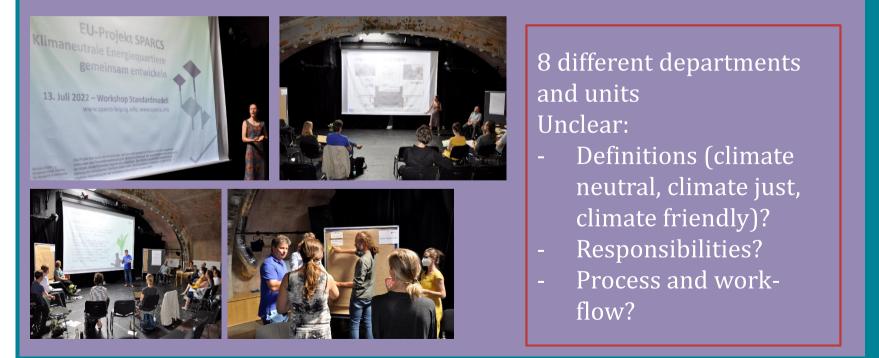
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Connection to SPARCS – standard model "climate neutral districts development"

Energetic refurbishment concepts (2021-2023)

SPARCS standard model "climate neutral district development (focus: existing building environment)" 07/2022





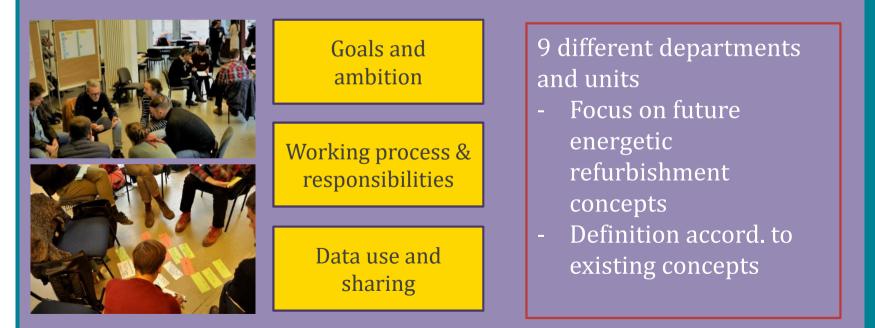
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Standard model "climate neutral districts development" – Defining challenges

Energetic refurbishment concepts (2021-2023)

SPARCS standard model "climate neutral district development (focus: existing building environment)" 11/2022



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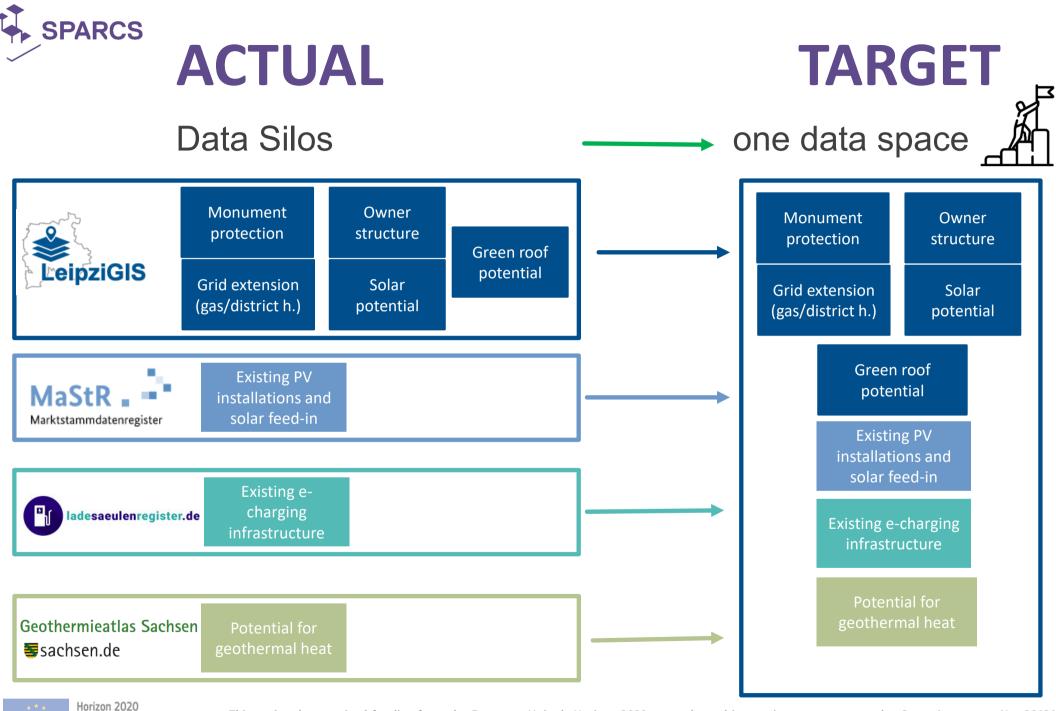


Data use and data sharing for climate neutral city development

"Energie-Atlas Leipzig"



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Support decision making

Green roofs?

PARCS

PV installation on roofs?

Solar thermal installations on roof?

Geothermal potential?

Gas supply will be replaced by district heating?

Wind energy for energy supply?

PV open space plant?





Green roofs can be supplemented with PV

Larger PV Potential on roofs

High geothermal potential, therefore better PV on roofs

High potential for use of geothermal energy

District heating will only be available in five years

Medium wind potential, not yet labeled as wind priority area

No spaces/ plots availabe for open space plants



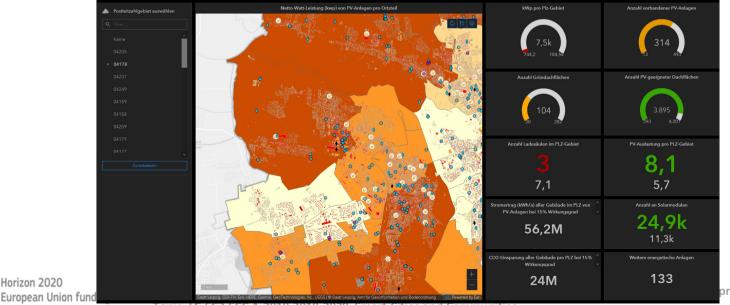
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Horizon 2020

for Research & Innovation

- May 2023: Co-creation and testing workshop with city departments •
- Connect to ongoing strategy developments
- adding further data (e.g. eMob) ${}^{\bullet}$
- Creating tools for analysis and decision making lacksquare



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