



AGENDA

DATA-DRIVEN SOLUTIONS FOR PEDS

BY SPARCS/ASCEND

Part of the:	Data Week Leipzig
Date of the on-site visit:	April 17 th 2024
Date of the workshop:	April 18 th 2024
Venue:	City of Leipzig, Smart City Lab, Magazingasse 3, 04109 Leipzig
Participants:	30-40 participants
Target groups:	municipalities, research organisations, technical partners from SCC1 projects and beyond

Content:

Positive Energy Districts (PEDs) represent a sustainable urban planning concept aimed at achieving energy self-sufficiency and environmental sustainability within specific neighbourhoods or districts. These innovative urban developments integrate renewable energy sources, smart technologies, and energy-efficient design to generate, store, and distribute energy in an environmentally friendly manner. The goal of PEDs is to create urban areas that produce more energy than they consume, contributing to a reduction in carbon emissions and fostering a more resilient and eco-friendly community.

Data-driven solutions play a crucial role in the planning, implementation, and management of Positive Energy Districts (PEDs), aiding in efficient implementation and ensuring sustainability in urban energy systems. These solutions optimize energy consumption by understanding usage patterns, identify peak demand times, and enable effective integration of renewable sources by assessing their potential in specific locations. Moreover, in PEDs, data-driven approaches also engage citizens by providing transparent energy metrics, empowering informed choices, and encouraging participation in energy communities.

Event

The event is tailored to engage practitioners from various sectors, including cities, science, and industry from all SCC1 projects, providing them with a platform to showcase their innovative solutions for planning and implementing PEDs. While celebrating successful solutions, we also aim to delve into the challenges encountered throughout the development and implementation processes. The event aims to foster collaboration, knowledge exchange, and critical discussions to propel the development and implementation of positive energy solutions into the future.

Key objectives of the event include:

- Showcasing and discussing data-driven solutions for PEDs
- Identifying challenges and barriers of data-driven solutions for PEDs
- Generating ideas for the further development and replication of products and solutions.

The event revolves around two distinct levels:

- 1. Holistic urban planning for energy transition:** To advance the energy transition at the urban level, a variety of data, analyses, and scenarios are needed to develop necessary holistic plans and strategies and derive investment plans. Often data from various sources need to be combined and utilized. Digital planning and participation tools based on data platforms (e.g., digital twins, KPI dashboards) can help create, implement, and monitor local energy transition strategies and engage with stakeholders.
- 2. District and building level:** Data-driven solutions play a vital role in implementing energy-efficient strategies at the neighbourhood and building levels, utilizing digital twins and real-time data analysis. These approaches enable precise planning, optimize energy management, and identify suitable locations for renewable energy integration. Additionally, data platforms facilitate citizen engagement, fostering community involvement in the development of positive energy districts.



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SPARCS/ASCEND @ LEIPZIG DATA WEEK

18.04.2024

This is a side-event of Leipzig Data Week (<https://www.dataweek.de/en/index.html>) which offers a week-long programme focusing on data, digitalisation, artificial intelligence, and urban development challenges. Participants may also register for other events at Data Week (Additional ticket fees may apply.)

Call for participation

We extend a call for participation to practitioners from cities, science, and industry, inviting them to showcase their innovative solutions either at the city or district level during this event. Participants will have the opportunity to present their ideas in a pitch-style introduction, followed by a more in-depth presentation and working session with a small group of 4-5 participants from the audience (approx. 60 min). This will allow for a collaborative exploration of the presented solutions. This format ensures a dynamic exchange of insights and facilitates meaningful discussions to further advance positive energy initiatives.

What is requested from presenters:

- ➔ 5-10 min pitch intro on concrete solution/product or challenge that derive from PED planning/implementation/management
- ➔ Pitch should end with one concrete question/topic as content for break out session
- ➔ 60 min break-out sessions (4-5 participants from audience) to
 - Showcase solution/challenge in more detail
 - Develop new ideas for replication/upscaling the solution/product OR solution pathways for the challenges identified



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SITE VISIT @ LEIPZIG DATA WEEK

17.04.2024

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Day 1: Wednesday, 17.04.2024/ All the times are in CET
Venue: Smart City Lab Leipzig, Magazingasse 3, 04105 Leipzig

Time	Topic	Host
14:00	Coffee and get-together at Smart City Lab Leipzig, possibility to visit Exhibition on Smart City Challenge Leipzig on past and current projects of the City of Leipzig's own innovation challenge (https://digitalcampus.leipzig.de/en/sccl-2024-en/)	The team of Digital City Unit will welcome you!
15:00 – 16:30	On-site visit Starting point: Smart City Lab, Leipzig Visit to Kreuzstraßenviertel – example of energetic refurbishment of social housing district https://lwb.de/en/model-project-lets-you-experience-energy	Alexander Peitz, Wohnen und Service Leipzig GmbH, SPARCS Partner
17:00 – 18:30	Visit city hall tower – Built on the foundation of the old Pleißenburg Tower, the tower of the New City Hall is considered the tallest city hall tower in Germany and is one of Leipzig's most important landmarks. With a height of exactly 114.7 meters, it towers over the entire city. Meeting point:	City of Leipzig Team
19:30	Dinner (own costs)	

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Day 2: Thursday, 18.04.2024/ All the times are in CET Venue: Smart City Lab Leipzig, Magazingasse 3, 04105 Leipzig		
Time	Topic	Host
9:00	Welcome	Dr. Beate Ginzler, Head of Smart City Unit, City of Leipzig (tbc.)
9:15	Pitch Session 1: Holistic urban planning for energy transition	Facilitation: Nadja Riedel, City of Leipzig, SPARCS
9:30 – 10:30	pitches of 5-6 solutions/products/ challenges	
10:30	Coffee break	
10:45	Break-out session 1 (working groups, one group per project) and in-depth exchange on topic	
11:30	Wrap-up joint wrap up / short pitch of solution/replication pathways	
12:00 - 13:00	Lunch break	
13:00	Pitch Session 2: District and building level	Facilitation: Laura Dieguez, DKSR, ASCEND
13:15	pitches of 5-6 solutions/products/ challenges	
14:15	Coffee break	
14:30	Break-out session 2 (working groups, one group per project) and in-depth exchange on topic	
15:30	Wrap-up joint wrap up / short pitch of solution/replication pathways	
16:00	Closing of meeting	
16:15	End of meeting	
19:00	Joint dinner (offered by the City of Leipzig)	