

Data catalogue of suitable and available (local) data sources/data sets Deliverable 2.2 EASY TO READ VERSION



What is the purpose of the data analysis?

This document lists helpful open data sources and datasets for the city of Leipzig in Germany. We will use these datasets in a computer model that uses artificial intelligence. These datasets and this computer model will help us find the best places for micro-hubs and cargo bike pick-up stations. We will also use these datasets in a software prototype that helps with routing and scheduling delivery orders.



Data catalogue for sustainable delivery solutions

We need this data catalogue to make deliveries easier:

- **Pick-up stations:** SuCoLo will set up special pick-up stations. People can pick up their deliveries there easily.
- **Cargo bikes:** SuCoLo will also use cargo bikes to deliver things without polluting the air.

The data catalogue helps us to find the best solutions for the pick-up stations and the cargo bikes:

The data catalogue includes information about specific outskirts of the city of Leipzig, such as Lützschena-Stahmeln and Hartmannsdorf-Knautnaundorf, because they are particularly suitable for the SuCoLo project due to their characteristics. The data catalogue includes the age structure, living properties, and employment relations of their inhabitants.

In the following figure the two specific outskirts of the city of Leipzig are marked in green:

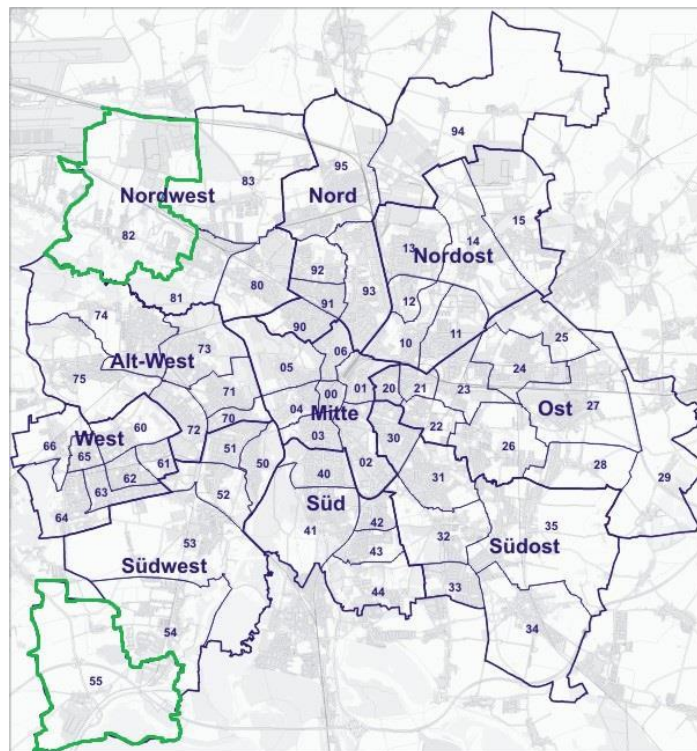


Figure: City districts of Leipzig (Stadt Leipzig, n.d. -a)



Characteristics of the Data Search

The data search focused on specific data about this outskirts of the city of Leipzig. The data was collected and analyzed using a structured internet and scientific database search.



The collected data catalogue includes information such as the:

- **Name of the data source** = Unique identifier of the instance
- **Source type** = The type of data provided online (for example factsheet, dataset, repository)
- **Number of data records** = Size of the database (and date of determination)
- **Data type** = The format of machine-readable information
- **Focus** = Integrated (primary) data sources
- **Categories** = Classification of the available content to make it easier to find, use, and manage the collected data
- **Application programming interface (API)** = The software interface for the automated uploading and downloading of data
- **Publisher** = Describes which institution published the data
- **License** = A license specifies what may or may not be done with a source
- **URL** = Web address via which the data source can be accessed



Sharing data needs special standards

The European data portals were used because they were well-designed and advanced. Germany uses a special model called Data Catalogue - Application Profile (DCAT-AP) to share government data. This model makes sure that German data can be easily used with the European standard. All data sharing within the GovData network must use this model.

The University of Leipzig also compared data portals in Germany (mainly Leipzig) with those in Merano in Italy. The analyzed databases are very different. The University of Leipzig was looking for data that is interesting for the SuCoLo project and for the researchers working on it.



Here's what you need to know:

- Data portals are like online libraries for information collected by governments and other groups.
- These portals share information with each other so people can find it easily.
- Leipzig in Germany has a good data portal with lots of information.
- Merano in Italy also has data portals, but the document focuses on Leipzig because it has more data relevant to the project.
- The project is about creating a model to find the best places for pick up stations in Leipzig.
- The data from Leipzig's data portal will be used to train this model.

This project has been funded by the Austrian Research Promotion Agency (FFG), Ministry of Enterprises and Made in Italy (MIMIT), the Federal Ministry of Education and Research in Germany (BMBF) and the Swedish funding agency (Vinnova) under the Driving Urban Transitions Partnership, which has been co-funded by the European Union under grant agreement no. 905465.




**Driving Urban
Transitions**



**Co-funded by
the European Union**

VINNOVA
Sveriges innovationsmyndighet

 **Bundesministerium
Klimaschutz, Umwelt,
Energie, Mobilität,
Innovation und Technologie**



**Finanziato
dall'Unione europea**
NextGenerationEU



**Ministero delle Imprese
e del Made in Italy**

