

City of Lucerne

Geospatial Information Centre

Who are we?

The Geospatial Information Centre (GIS) is a city department within the Lucerne Building and Construction Authority, serving as a cross-departmental expert hub and GIS service provider for ewl energie wasser luzern, the city's main energy provider.

We are responsible for:

- Plans, maps and utility information
- Data management and modeling
- Expert consulting and execution in construction and network surveying
- GIS applications and spatial analysis
- 3D models and BIM (Building Information Modeling)

Our Vision

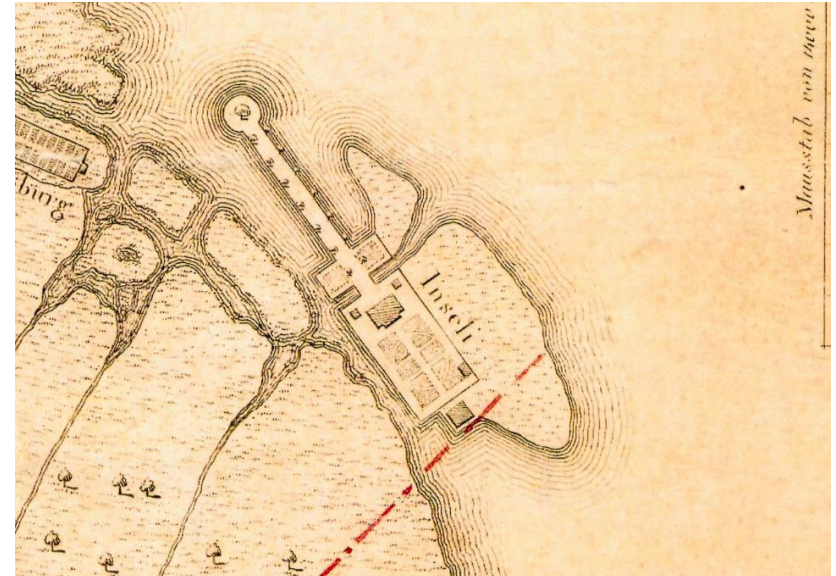
We know where – and use that knowledge to make the City of Lucerne a little smarter. Through spatial information systems, we create a digital twin of the real world, enabling greater transparency and informed decision-making for the City of Lucerne and its stakeholders.

Our Mission

The Geospatial Information Centre is responsible for ensuring that geodata is collected reliably, consistently, and sustainably. We make sure that geoinformation is available anytime, anywhere, and always up to date for our customers and decision-makers. In addition, we operate a modern geodata infrastructure and continuously develop it with a future-oriented approach.

Our history

- 1890 – oldest known map of the City of Lucerne (incl. house numbers)
- 1900 – first cadastral survey of the city area
- 1906 – first official cadastral maps
- 1990's – transformation into the digital age (databases, computers)
- 2012 – 3D model comes alive
- 2015 – infra3DCity (infrastructure management)
- 2020's – rise of spatial analysis applications
- 2025 – new BIM division (Business Information Modeling)



GIS Applications | our daily business

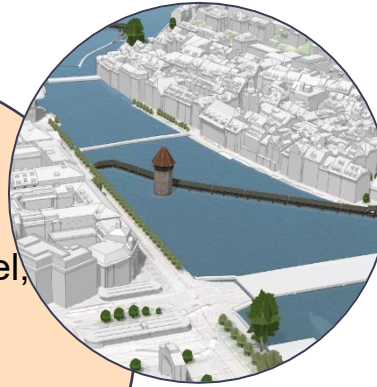
Standard Applications

e.g. Trees, Playgrounds, Building and Zoning, Traffic, Climate



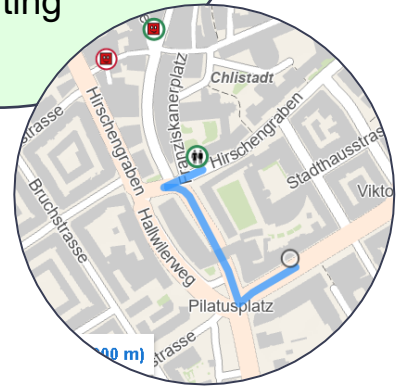
3D-GIS

e.g. 3D City Model, Buildings, Underground Networks, Digital Twins



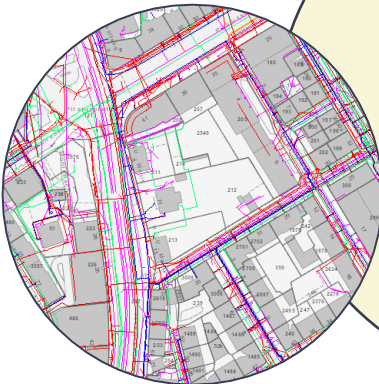
Custom Applications (Programming)

e.g. Toilet App, School Route Calculation, Cemetery Visitor Routing



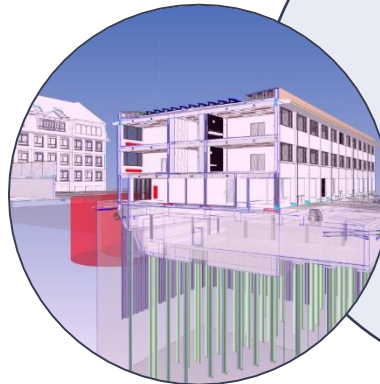
Utility Network and Public Sewer System

e.g. Gas, Water, District Heating and Anergy Networks, Electricity, Communication Networks, Sewer Networks

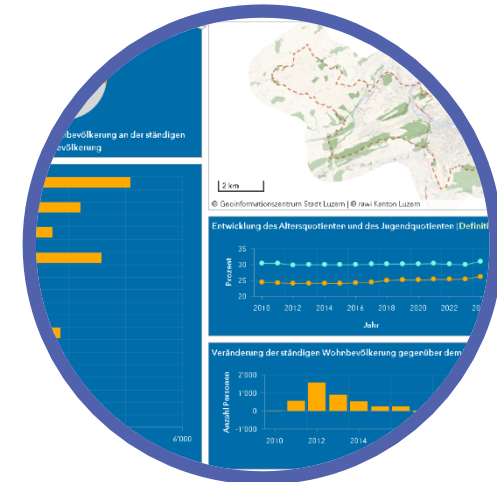
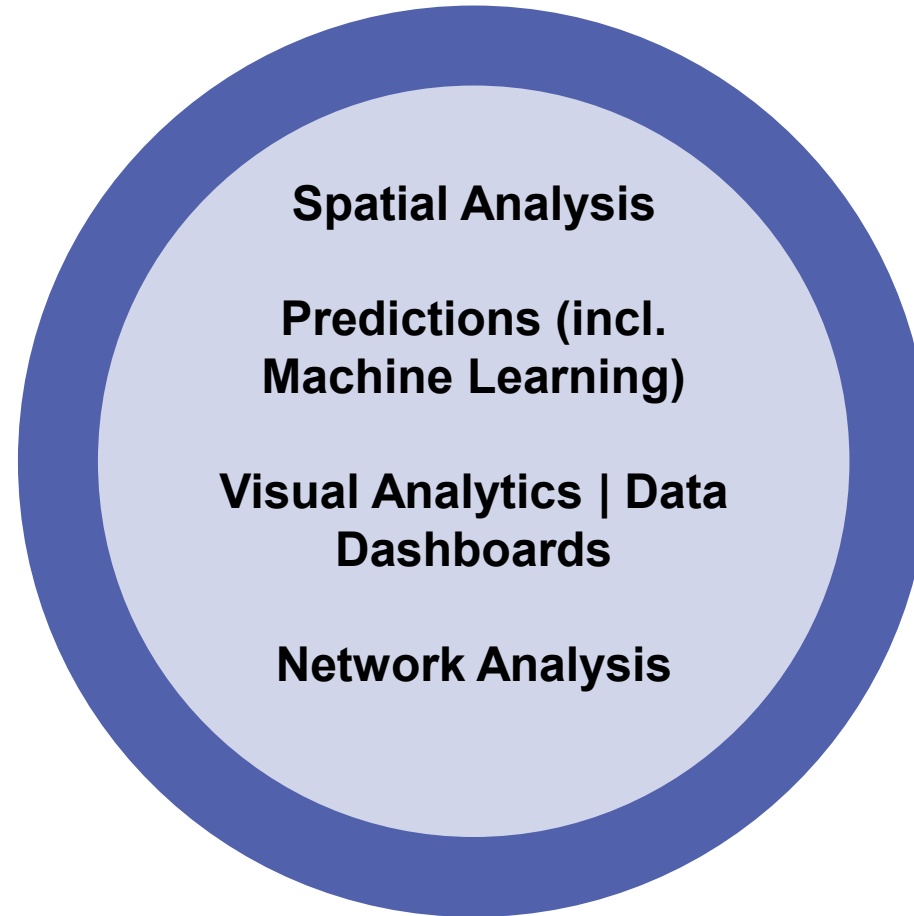
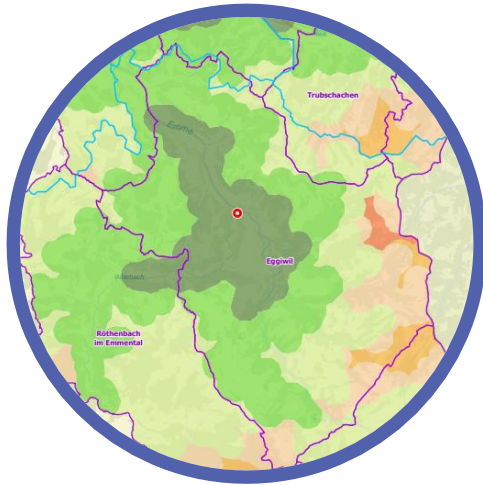


BIM

Digital Planning, Building and Infrastructure Management



Spatial Analysis | Analytics | unlocking the how and why





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