



# Data Lake

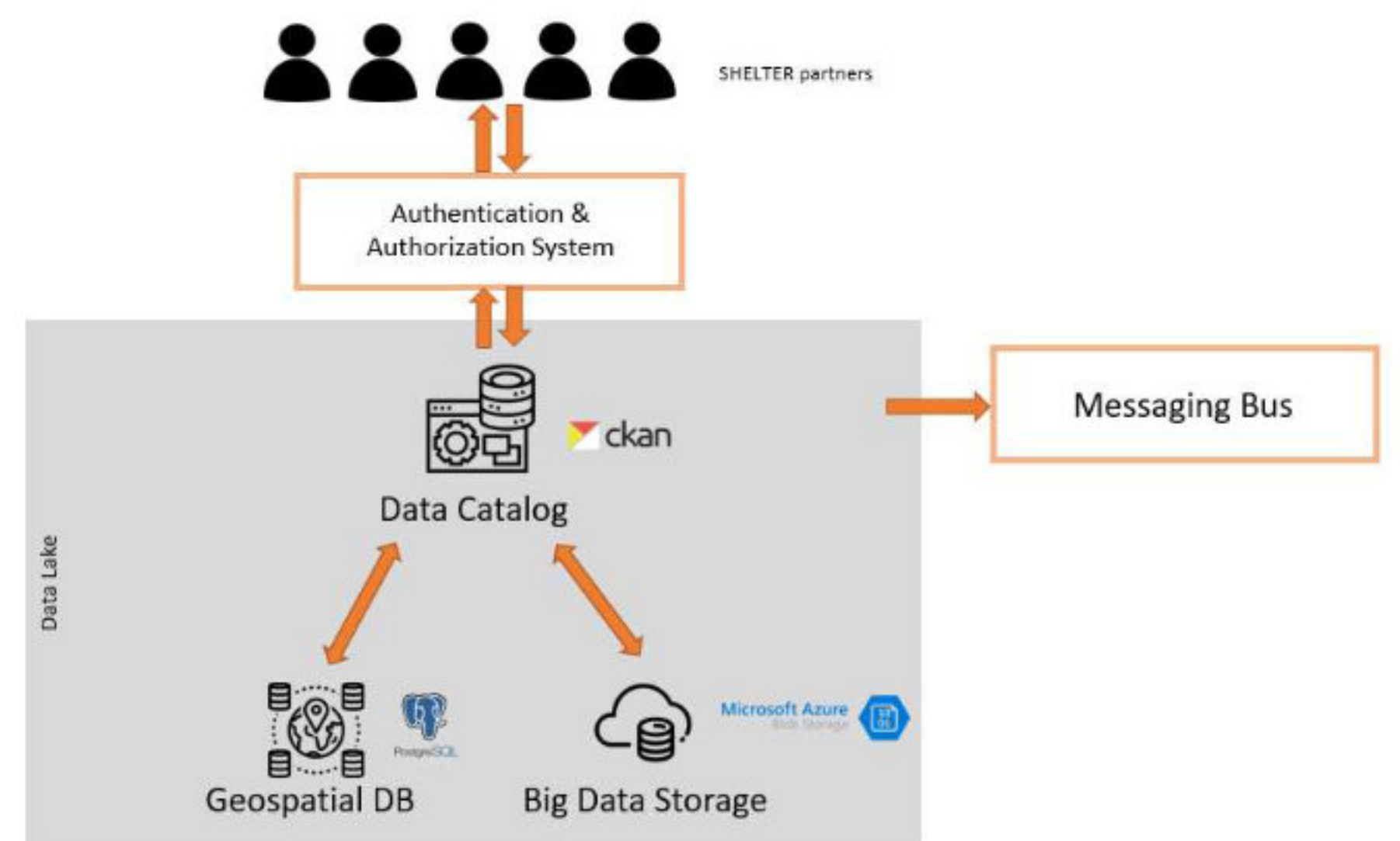


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The Data Lake aims to implement a repository for storing data and geospatial data produced within the project that can be structured, semi-structured and unstructured. The data collected in the Data Lake respects the FAIR principles (Findability, Accessibility, Interoperability and Reusability) and the metadata is compliant with the INSPIRE directive to ensure interoperability with other European geospatial data portals.

## How

- The Data Lake is mainly composed of two components:
  - Storage Layer (Geospatial DB and Big Data Storage): where all the original files are stored
  - Data Catalog: Metadata container. Each file (or group of files) is described by metadata. The metadata helps users to search, filter and retrieve the data.



## Tool

The Data lake allows users to manage data through Web-based APIs or web user interfaces. It offers functionalities for uploading, retrieving and filtering data, which need to be coupled with INSPIRE-compliant metadata.

Public URL: [datalake-test.shelter-project.cloud](https://datalake-test.shelter-project.cloud)

## Why

### Connection of the result with the Shelter framework.

The Data Lake represents a general-purpose tool that can be used in diverse Historic Environments for storing data and sharing them with data-driven applications, as well as with other organizations and data communities.

Welcome to the SHELTER Data Lake, which is designed to store and retrieve Big Heterogeneous Data according to the FAIR principles of findability, accessibility, interoperability, and reusability. To this end, the SHELTER Data Lake supports INSPIRE compliant metadata. To access private data, please login with your credential



Search data

E.g. environment

Popular tags

### Subsidence velocity in vertical movements (isolines)

URL: [https://datalake-test.shelter-project.cloud/dataset/302a1460-6850-4a5d-ae9f-085689ed8635/resource/826512bf-58a6-4a21-f5b8d2197910/download/11\\_16\\_polygon\\_...](https://datalake-test.shelter-project.cloud/dataset/302a1460-6850-4a5d-ae9f-085689ed8635/resource/826512bf-58a6-4a21-f5b8d2197910/download/11_16_polygon_...)

Dataset description:

The Emilia-Romagna plain is subject to a natural subsidence phenomenon (linked to geological causes) whose speed, which varies depending on the area, is estimated to be around a few...

Source: Ravenna subsidence isolines

Shapetto

