KNOWDIVE

KGE - Knowledge Graph Engineering

Trentino
Extraurban Transportation

KGE 2023 Project Proposal

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Project Objective

- This project considers the **Extraurban Trentino** region as the environment in which data about **transportation services** should be integrated by building a **Knowledge Graph (KG)**.
- Such kind of data can encode the information about *public transportation services, vehicles, bus stations, agencies, stops, transfers, trips* and other information supporting the movements in the region.
- The aim of the project is to create a KG which can provide information about the Trentino's transportation services. This objective will be achieved through the **iTelos methodology** which facilitates creation of a (sequence of) transportation Knowledge Graphs (KGs) integrating data from different data sources.

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Purpose

The final (sequence of) KGs can be used to provide a general purpose service helping the users (for example tourists) to find information about the urban transportation services in extraurban Trentino, but also about the possible solution to move around the region territory. This purpose can be described in the form of a user request as follows:

> *"A service which help the users to reach different points of interest in extraurban Trentino, exploiting different transportation services."*

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Data Resources

The data resources provided to achieve the project's objective are:

- **Trentino Transporti** :
  https://www.trentinotrasporti.it/open-data

- **Open Data Trentino** :
  https://dati.trentino.it/group/mobilita

- **Open Mobility Data** :
  https://openmobilitydata.org/p/trentino-trasporti-esercizio/614

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Schema Resources

The reference schemas provided to achieve the project's objective are:

- **GTFS Static (for modelling transportation)** :
  GTFS Static

- **iCal (for modelling time)** :
  iCal

- **INSPIRE (for modelling space)** :
  INSPIRE

- **schema.org (for modelling common concepts)** :
  schema.org

- **DCAT2 (for modelling metadata)** :
  DCAT 2

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