KDI ⋮ Knowledge and Data Integration

Developing a KG on Tourist Facilities

KDI 2020 Project Proposal

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Tourism Facilities Domain

- Facilities are geospatial infrastructures which are crucial to the efficient and effective delivery of support services for the organizational ecosystems that they serve, with the ultimate purpose of improving the quality of life of people and the productivity of the core business.

- Facilities can be of diverse nature considering the services they provide:- Healthcare Facilities (Hospitals, Residential Care Homes etc.), Educational Facilities (different arms of universities), **Tourism Facilities** (Holiday Cabins, Amusement Parks, Safaris etc.)

- The aim of the project is to create a modularized Knowledge Graph (KG) on tourist facilities for data integration, with a particular focus on its interoperability with the Geospatial domain, using the iTelos Methodology.

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Competency Queries

To provide a glimpse, competency queries which inform the inception of the development of the KG on tourist facilities can be like:

- How many mountain huts are there in Trentino? What are their names and addresses ?

- What are the different ski-in ski-out hotels in Trentino Alto-Adige?

- .....

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Standards

To follow the standards adopted in the datasets collected:

- INSPIRE

- GTFS

- ISO 41001:2018

- .....

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Knowledge Resources

The reference knowledge resources for the task are:

- The Geo-eTypes Ontological Model

- The GTFS Ontology

- .....

Also take a look at:- Linked Open Vocabularies (LOV) and schema.org
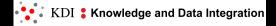
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Data Resources

- Open Data Trentino (for localisation in Trentino, Italy)

- European Data Portal

- Also by web scraping from relevant websites (if needed)

- .....

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Outcomes

- Extended set of standard and terminologies supported with respect to tourist facilities

- A generic KG and a set of localised KGs defined to support and integrate diverse data on tourist facilities

- Datasets on tourist facilities, cleaned and well formatted, aligned with the knowledge used to integrate them

- .....

KDI : **Knowledge and Data Integration**

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