

KNOWDIVE



KGE - Knowledge Graph Engineering

Trentino Healthcare Facilities

KGE 2023 Project Proposal

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Project Objective

- This project considers the **Trentino region** as environment in which heterogeneous data about the **healthcare facilities** should be integrated.
- Such kind of data carry the information about *hospitals, pharmacies, parapharmacies, rehab centres, medical centers, drugs, doctors*, and other information supporting the healthcare service in Trentino.
- The aim of the project is to create a knowledge base able to provide information about the Trentino's health facilities and service. This objective will be achieved through a data integration process that will create a healthcare Knowledge Graph (KG) integrating data from different sources.

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Purpose

The resultant healthcare KG can be used to provide a general purpose service helping the users (for example patients) to find information about the health facilities and services offered by Trentino healthcare system. This purpose can be described, in form of user request, as follow:

"A service which help the patients to find healthcare facilities suitable for their needs, considering different patient's health status (diseases)."

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Data Resources

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

- **Open Data Trentino :**
<https://dati.trentino.it/group/wellbeing>
- **Health Analysis Sampling Points @ Trentino :**
[Heath Analysis Sampling Points](#)
- **Parapharmacies @ Trentino :**
[Parapharmacies](#)
- **Public Heath Facilities @ Trentino :**
[Public Heath Facilities](#)

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Schema Resources

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

- **FHIR - Levels - 3,4,5 (for modelling healthcare) :**
[HL7-FHIR](#)
- **iCal (for modelling time) :**
<https://www.rfc-editor.org/rfc/rfc5545>
- **INSPIRE (for modelling space) :**
[INSPIRE](#)
- **DCAT2 (for modelling metadata) :**
<https://www.w3.org/TR/vocab-dcat-2/>



KDI Knowledge and Data Integration



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**Trentino
Healthcare Facilities**