



# Healthcare Electronic Health Records (EHR)

**KGE 2023 Project Proposal** 

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# **Project Objective**

- This project considers **Europe** as the environment in which the integration of heterogeneous *healthcare data* from European countries with different healthcare systems is considered.
- Such kind of data carry the information about hospitals, patient, condition, prescription, drugs, doctors, and other information supporting healthcare services in Europe.
- The aim of the project is to create a knowledge base able to be exploited in clinics, pharmacies, hospitals and research institutions by different healthcare actors. 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 service (for example, for different healthcare actors) which can facilitate citizens to handle (their own) healthcare data, in a context in which the citizens moves around Europe. This purpose can be described, in form of user request, as follow:

"A service which facilitates citizens to handle (their own) healthcare data, in a context in which the citizens moves around Europe."

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#### **Data Resources**

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

- SYNTHEA:
- EMRBOTS : EMRBOTS
- FHIR Smart Data : FHIR Smart Data

1 Project Objective

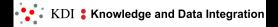
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#### Schema Resources

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

- FHIR Levels 3,4,5 (for modelling healthcare) : HL7-FHIR
- schema.org (for modelling common concepts) : schema.org
- 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/







**Electronic Health Records (EHR)**