



# GS Soil

## SoilThes

Multilingual Soilspecific Thesaurus

## Overview

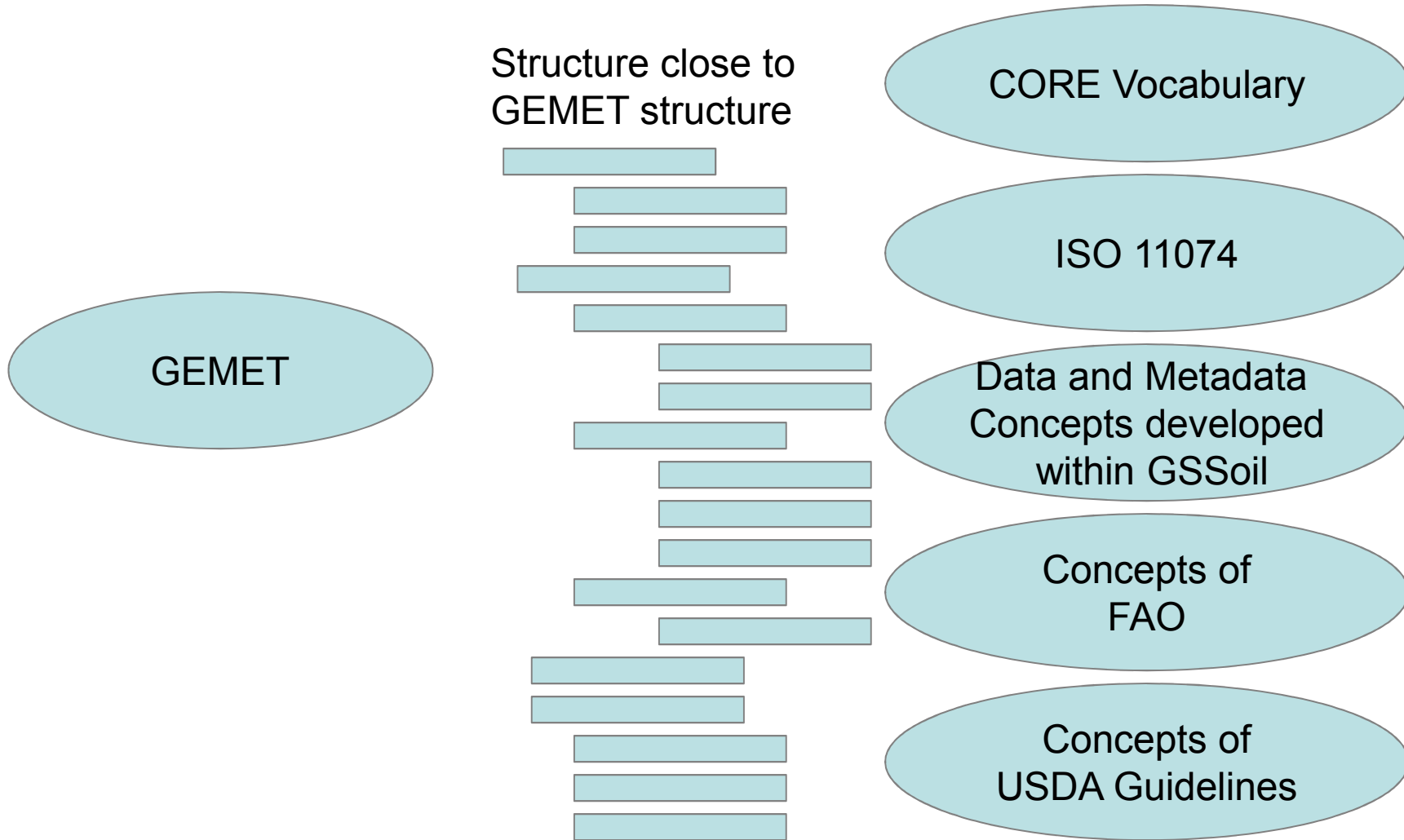
- Need of Thesauri
- Content of SoilThes
- Formal language and architecture
- Rules and Guidance
- Maintenance
- Outlook: Need of interlinked Thesauri

- Need of Knowledge- , Information- and Data charing (INSPIRE)
  - Need of common understanding on used terms and concepts.
  - Need of descriptions of terms and concepts
  - Need of agreed translations between different languages
  - Need of easy accessability
  - Need of links Thesaurus concepts to knowledge, Information and Data

Thematic terms for categorizing soil information made available via the GSSoil portal. This thesaurus is intended to support finding and understanding soil and soil meta data related information.

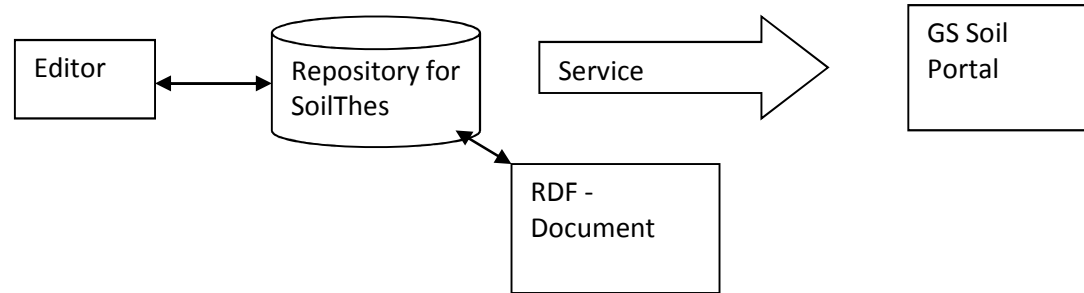
It enables interoperability of data and metadata within the GSSoil portal

**Kick – off Meeting on 21st of March 2011**

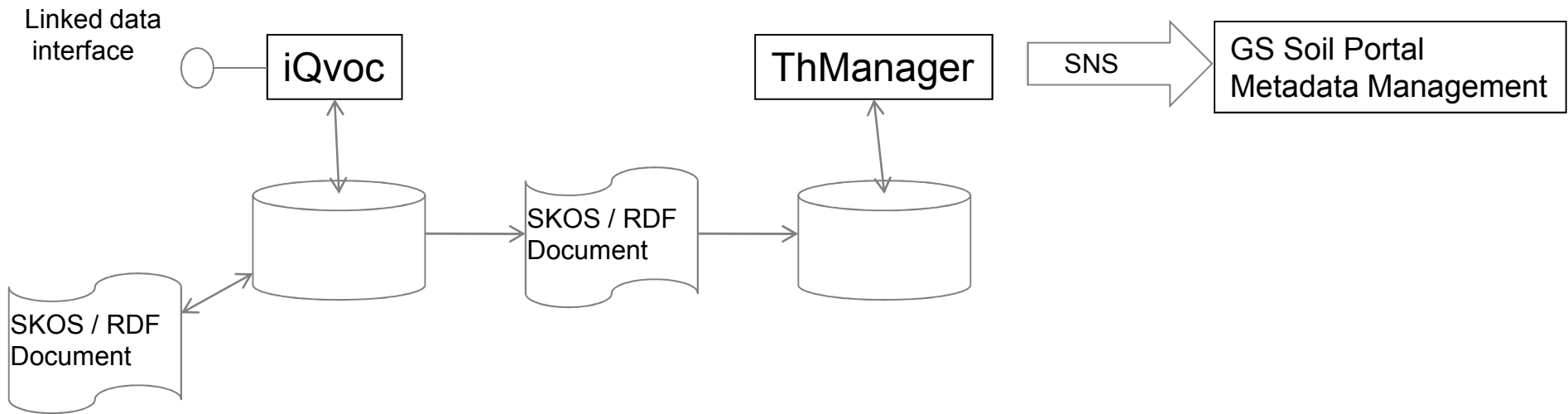


- Needed compliances:
  - GSSoil Portal (existing ThManager)
  - GEMET (used by INSPIRE and EEA)
  - International Standards for Thesauri (W3C)
- Used formal language:  
**SKOS - RDF**

## Principle View:



## Technical Realization:



SoilThes

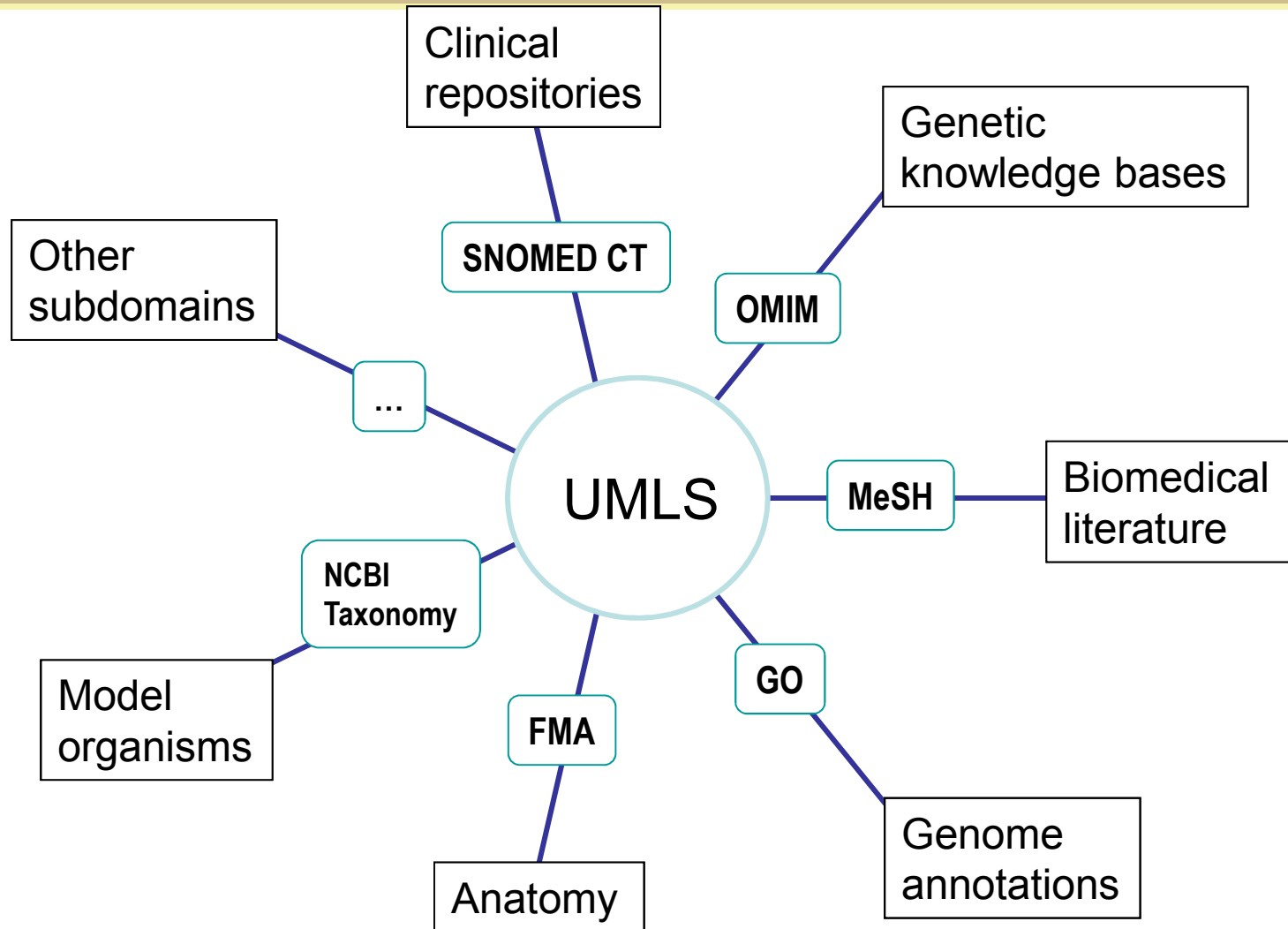
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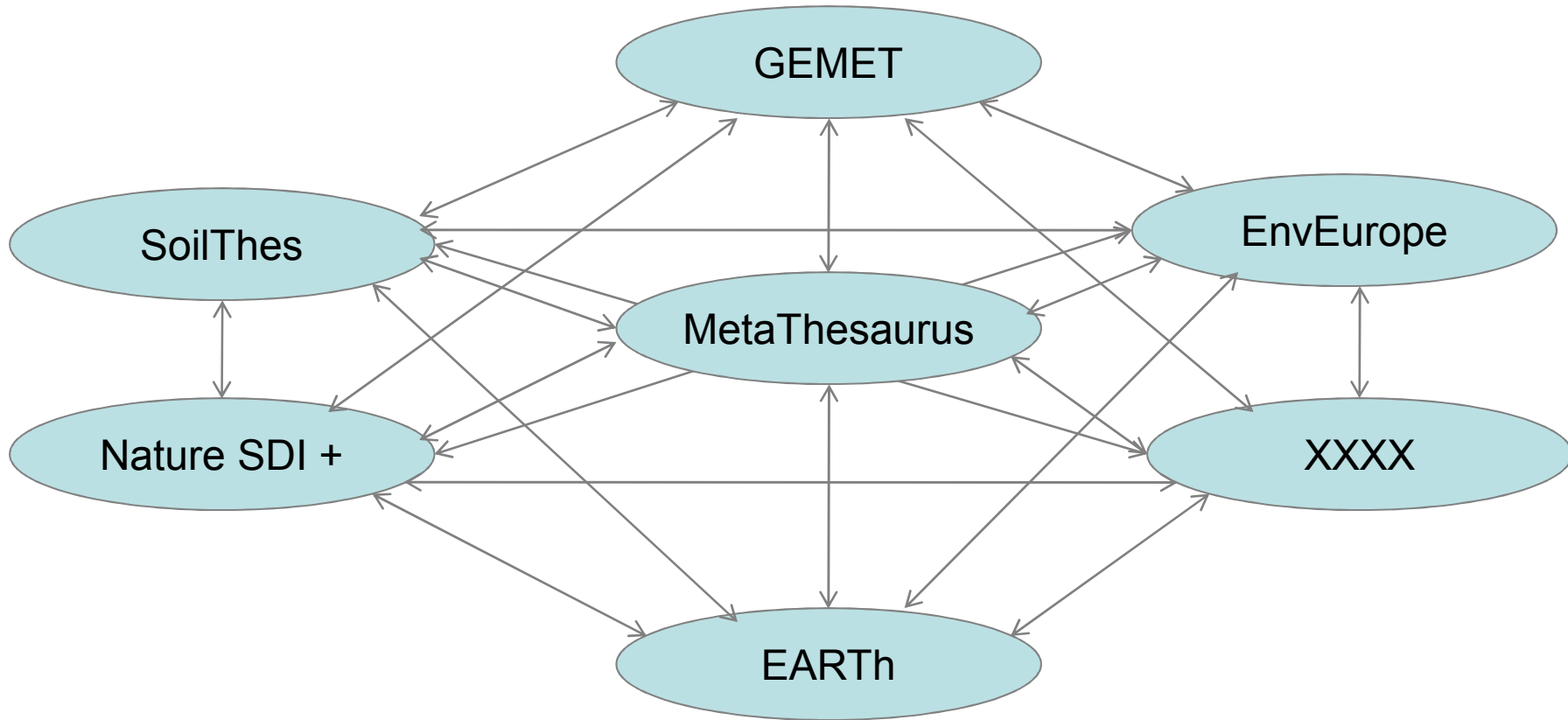
- One primary language (English)
- Translations into other (secondary) languages, where possible
- Core vocabulary with translations into every language
- Groups for adding concepts of other domains
  - (ISO 11074, FAO, USDA)
- One group for establishment of hierarchy
- Feedbacks and revisions foreseen.



- A thesaurus, which shall be useful for scientists must have permanent maintenance of:
  - Concepts (new scientific concepts)
  - Hierarchy
  - Translations
  - Links to other controlled vocabulary
  
  - Formal language (new standards)
  - IT Framework

# Ideal: Integrating subdomains within UMLS





suggested technology: linked data