

eENVplus Thesaurus Framework

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Overview

- Objectives and outcomes
- State of play: The Thesaurus Framework for Nature Conservation
- Planned activity
- Conclusion

■ General Objective

To make effective sharing and reuse of data overcoming the language and cultural barriers in the use of data.

■ Specific Objectives

☐ A common thesaurus for the Environment

- ☐ based on existing multilingual thesauri
- ☐ covering different data themes related to the environmental domains

☐ Exploitation of the thesaurus framework

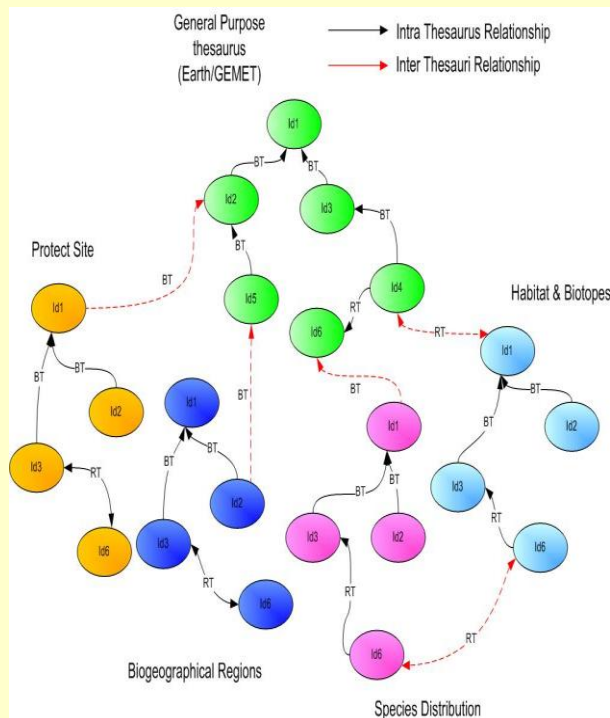
- ☐ to compile metadata describing resources more effectively, with more widely shared concepts and limiting the language barriers,
- ☐ to improve resource discovery across applications and platforms

- ☐ Different communities with different competencies are involved in the management of Environmental information
- ☐ Different Thesauri have been already developed covering most of these competencies
- ☐ More than one terminology is available for a given competency
- ☐ Terminologies have often a national origin. They are not uniform in all the EU countries and often even stakeholders from the same country can adopt different terminologies in everyday practice



- ✓ **Picking up just one of the available thesauri does not cover all**
- ✓ **Exploitation of existing thesauri (general purpose and target thesauri)**
- ✓ **Thesaurus interoperability to shift from one thesaurus to another**

KOS/Thesauri



Interlinking

Linksets

Linkset Quality

TF exploitation Services

Metadata Compilation

Data Discovery

Semantic Search

CROSS-WALKING

☐ Modularity

- new thesaurus may be added as a new module plugged in the set of thesauri in the framework.

☐ Openness

- Each KOS should be easily extendable keeping separated the original one.

☐ Interlinking

- Interlinking among the terms referring to the same concepts in more than one thesaurus in order to harmonize their usage.

☐ Exploitability

- encoding in a standard and flexible format in order to encourage the adoption and its enrichment from third party system

■ SKOS-Simple Knowledge Organization System to encode the thesaurus content

- to model basic structure and content of thesauri according to semantic web\W3C recommendations

■ Linked data best practices

- To publish the thesaurus in machine understandable format exploiting existing protocols in the web

- **Thesaurus Framework for Nature Conservation**
(from EU NatureSDIplus project)

- **Environmental thesauri/services in GeoScience domain**
(from *OneGeology*-Europe project)

- **INSPIRE directive**
(from JRC collaboration)

Thesaurus Framework (TF)

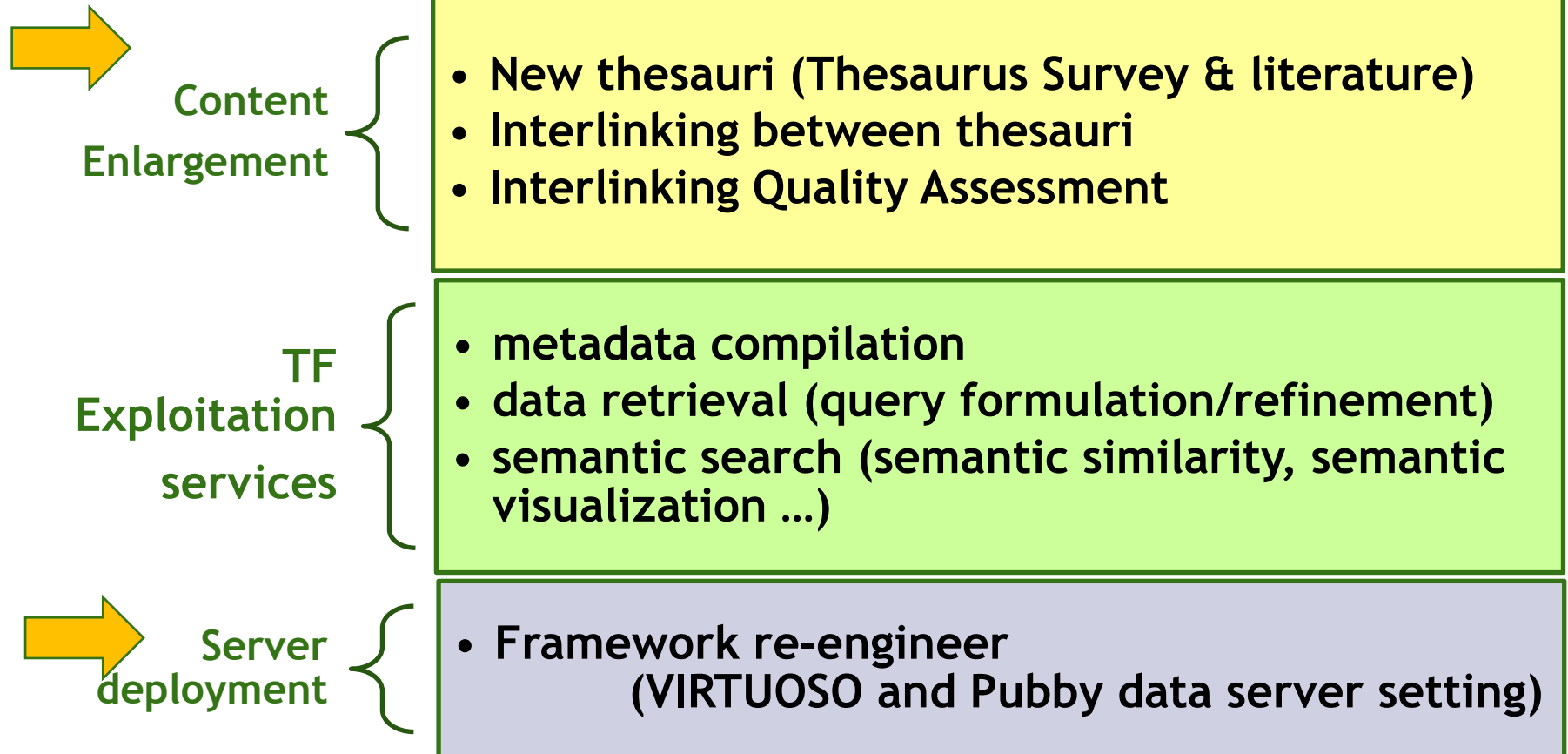
State of play

EARTh (interlinked to GEMET)
IUCN classification
DMEER of Biogeographical region
EUNIS Habitat
EUNIS Species

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- GEMET
- AGROVOC
- UMLTHES
- DBPEDIA
- EUROVOC



Compliance with INSPIRE

... Waiting for eENVplus TF outcomes ... We invite you:

☐ To take a look at the Thesaurus Framework at:

<http://linkeddata.ge.imati.cnr.it:2020>

☐ To check if a term is contained in TF at:

<http://linkeddata.ge.imati.cnr.it:8890/fct/>

☐ To access the SPARQL ENDPOINT at:

<http://linkeddata.ge.imati.cnr.it:8890/sparql>

☐ To querying thesaurus concepts, relationships thesaurus

☐ To mappings between EARTH to GEMET, AGROVOC, UMTES...

☐ To build your own services/application on the TF

☐ To interlink your vocabularies/thesauri with the TF thesauri

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Thank you !

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