

SEO-DWARF: Semantic EO Data Web Alert and Retrieval Framework: the Project Overview

Fourth International Conference on Remote Sensing and Geoinformation of Environment

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SEO-DWARF: What is it?

- Horizon 2020 funded project
 - Marie Skłodowska-Curie Research and Innovation Staff Exchange
- 9 partners
 - 4 Universities
 - 5 Commercial Companies
- 6 countries:

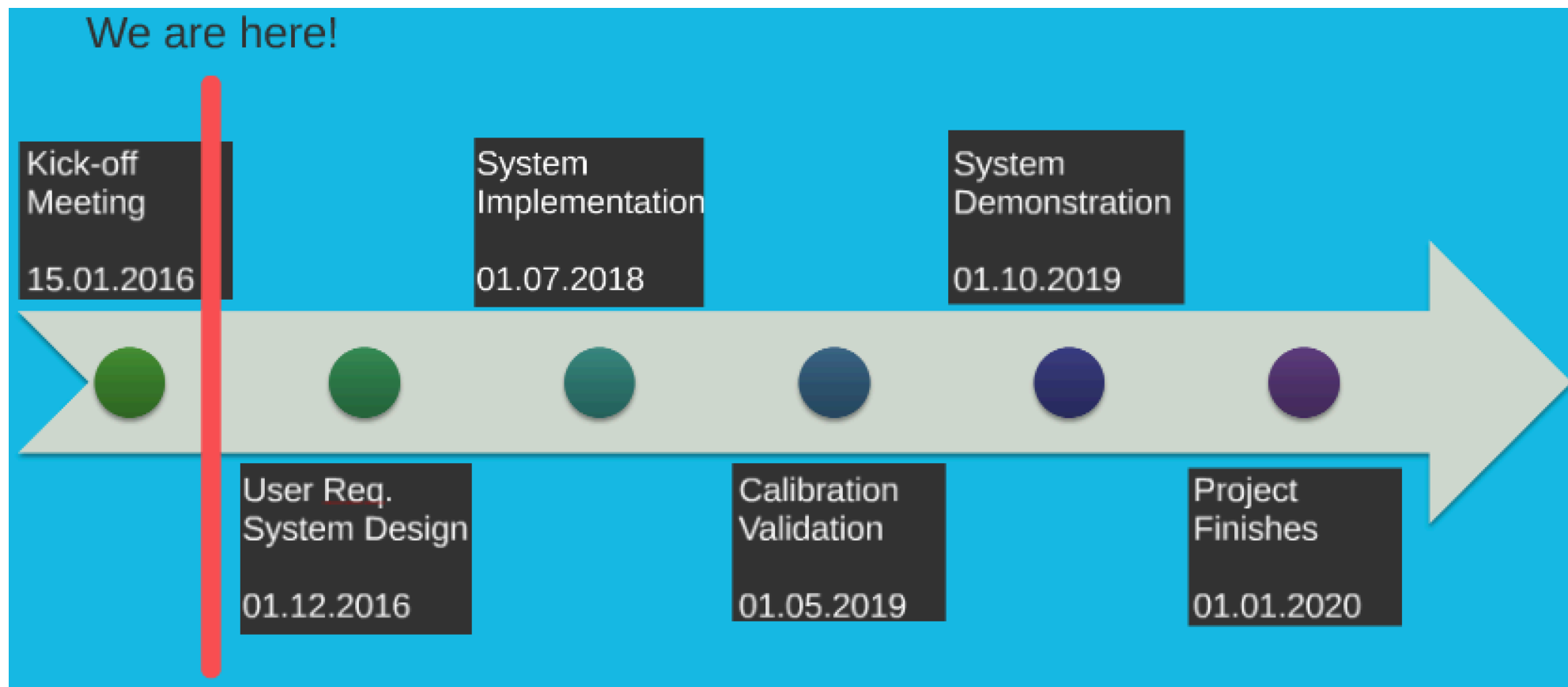


SEO-DWARF: What is it?

- National Technical University of Athens (NTUA)
 - Coordinator
- 4 years duration
- Approx. 1,6 M Euros
- 38+ people will be exchanged among partners



SEO-DWARF: Status



SEO-DWARF: Status

- User Requirements Definition
- Copernicus Added Value Services
- Ontology and Semantics Definition
- Feedback from Users: Online Questionnaire
- Training Activities
- Remote Sensing Algorithms
- Metadata Structure

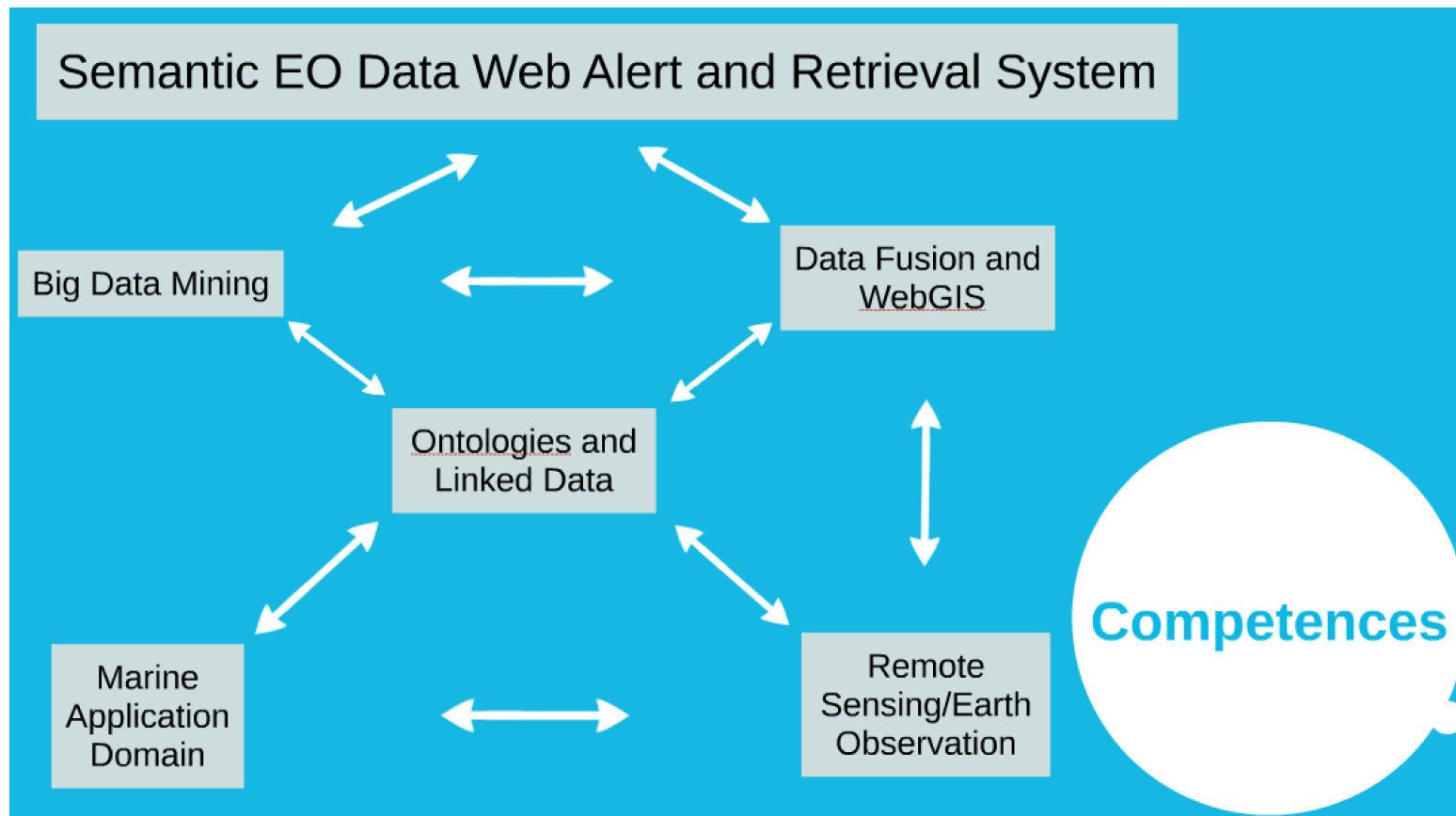
SEO-DWARF Objectives

- Create a R&I network
- Exchange knowledge among partners
- Develop a search engine (Google) to semantically (intelligently) retrieve EO images
- Integrate Remote Sensing with Ontology and Semantics

SEO-DWARF Objectives

- Develop Data Mining Infrastructure and Methods
- Provide added-value services to the Copernicus (or other) Ground Segment in the Marine Domain
- Strategic Geographical collaborations
- Push the R&I to the market

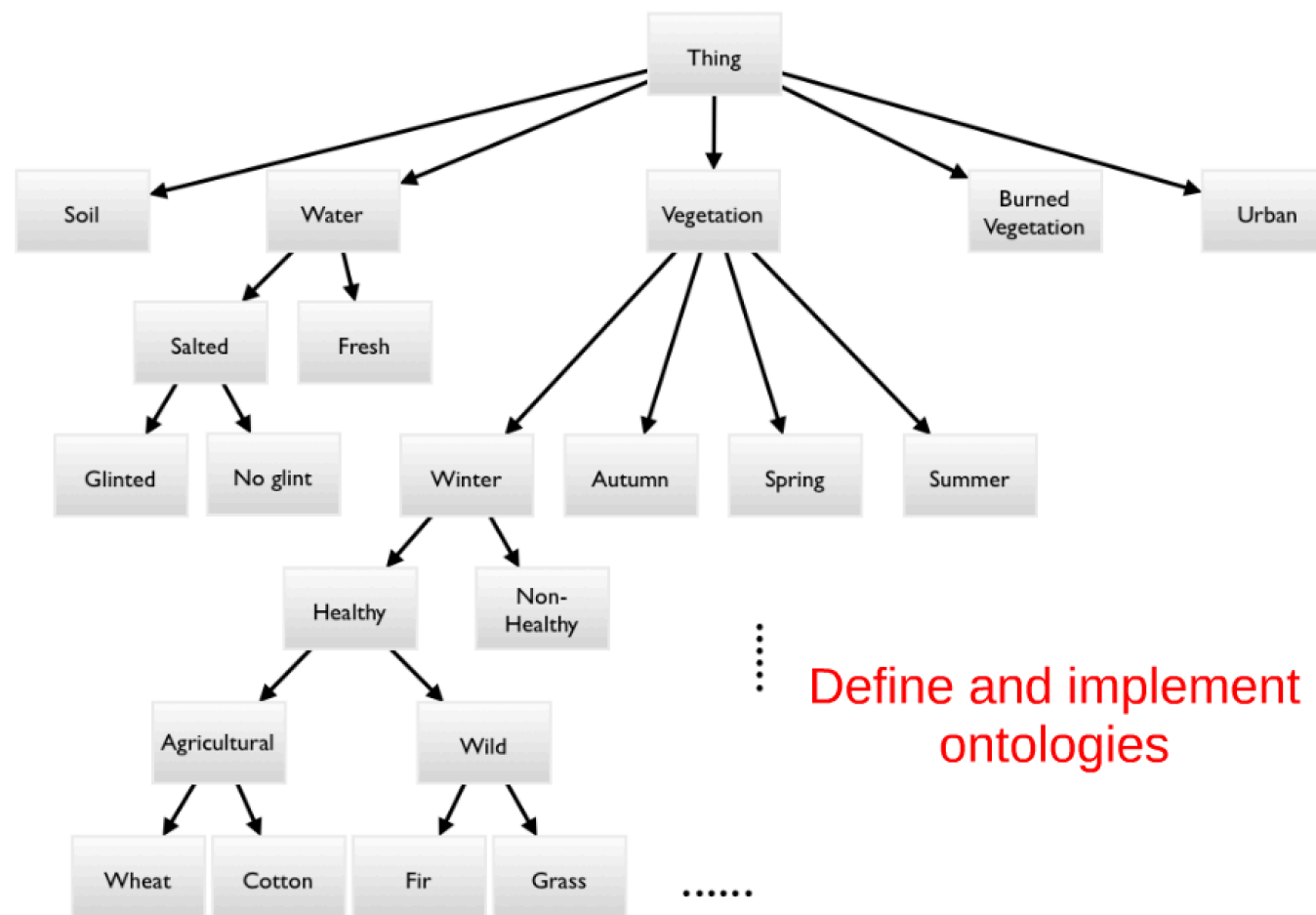
SEO-DWARF: What we need?



SEO-DWARF: How we do it?

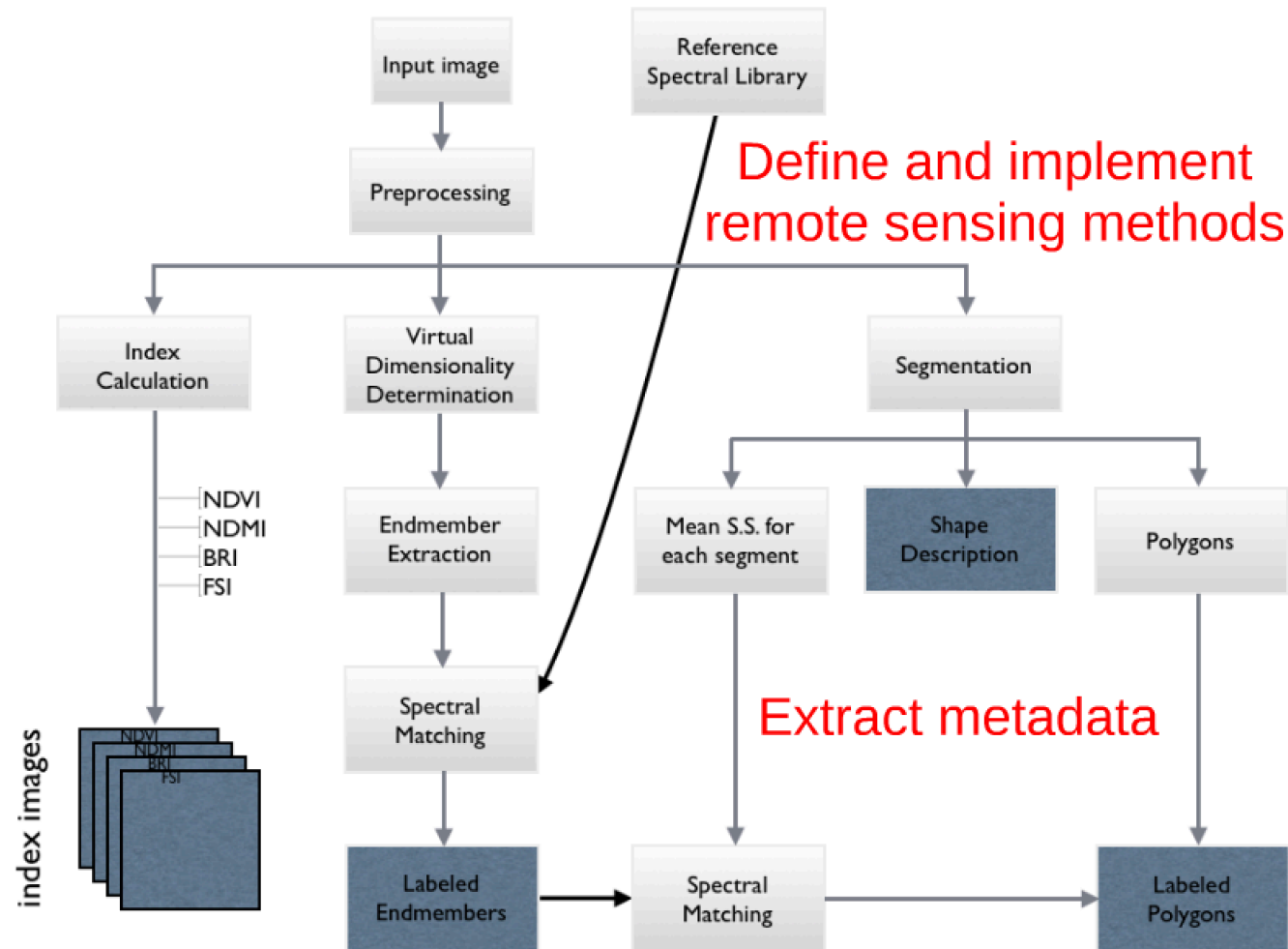
- What the users want/need?
- Feedback from users?
- What is possible and what NOT?
- Which are the appropriate information extraction methods?
 - for the remote sensing data
 - for the ontologies built on them
- What system binds all together?

SEO-DWARF: How we do it?

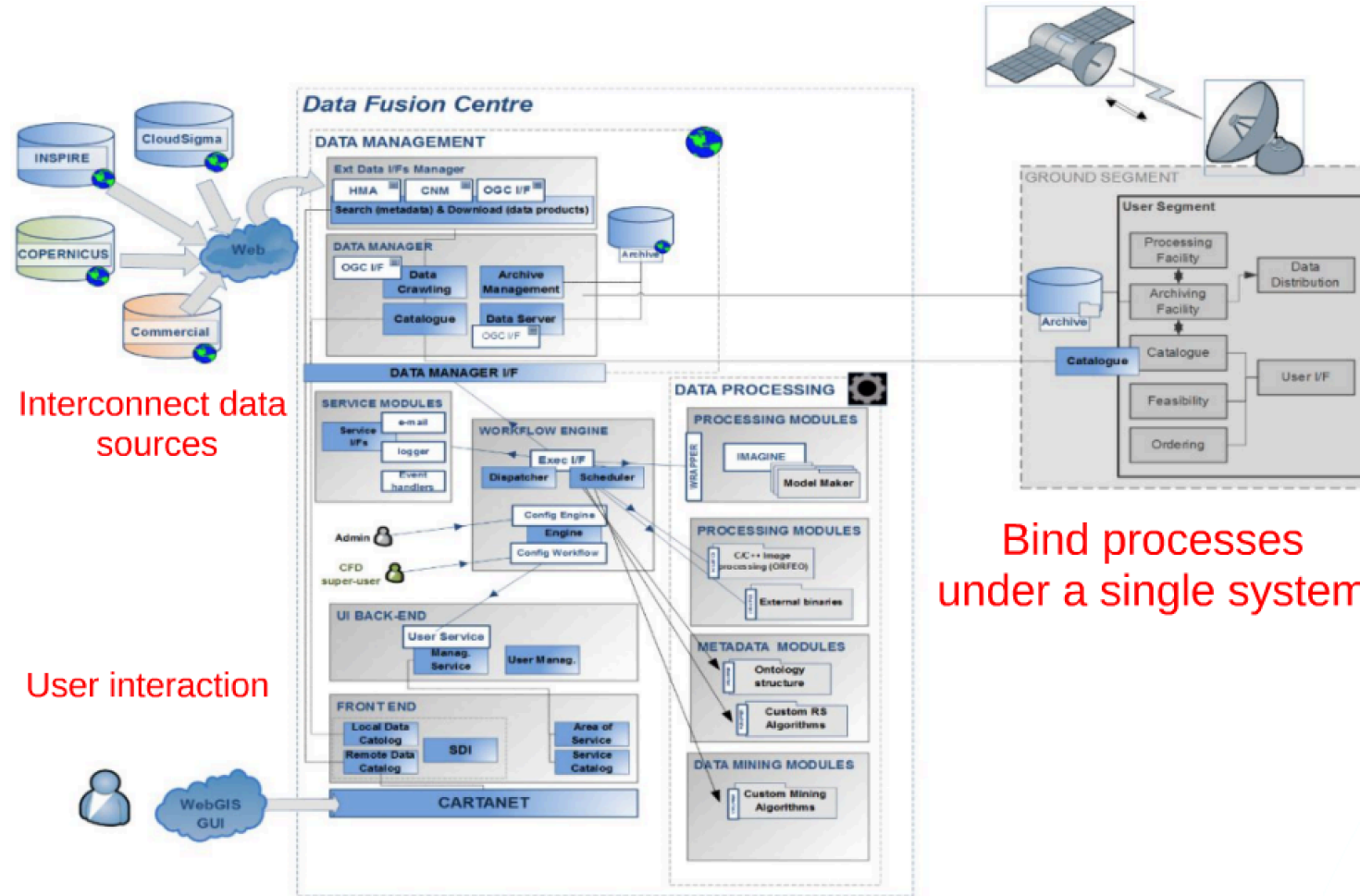


Define and implement ontologies

SEO-DWARF: How we do it?



SEO-DWARF: How we do it?



SEO-DWARF: Conclusions

- Network of people between academia and industry
- Strengthen relations among partners
- Seconded persons carrier advancement
- Bring Research closer to the Market

SEO-DWARF: Next Steps

Among others...

- System Requirements
- Front end Design
- SEO-DWARS Implementation
- Calibration – Validation (system, context)
- Demonstration

Dissemination Actions

- Organize training and workshop events
- Cooperate/Collaborate a diverse and multidisciplinary team of partners

Thank you!