



The MELODIES project: Exploiting Linked Open Geospatial Data

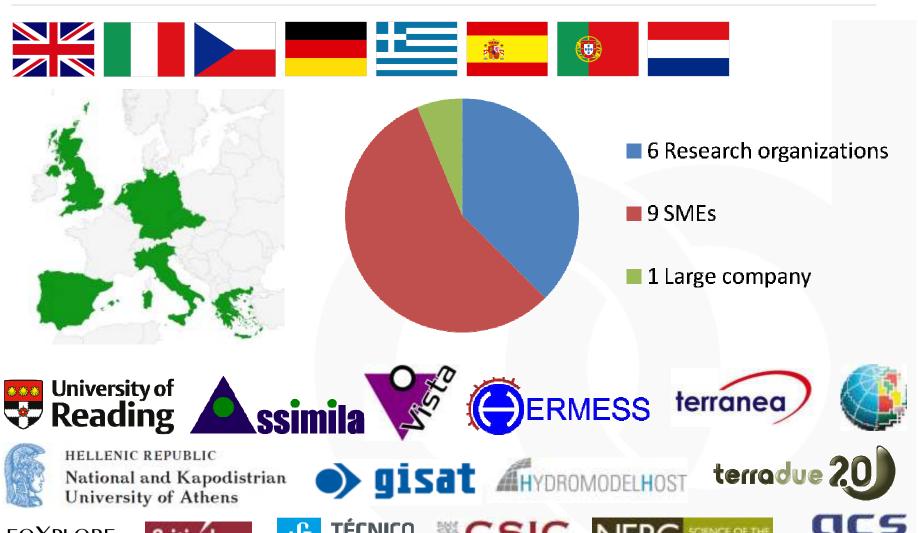
Jon Blower
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on behalf of MELODIES consortium



MELODIES Overview

- Maximizing the Exploitation of Linked Open Data In Enterprise and Science
- 3 years, started 1st November 2013
- 16 partners in 8 EU countries
- €6.7M budget
- Aims to demonstrate the business and scientific benefits of releasing data openly
- Responds to European Open Data Strategy
 - Sister project of SWITCH-ON and SmartOpenData

MELODIES project consortium







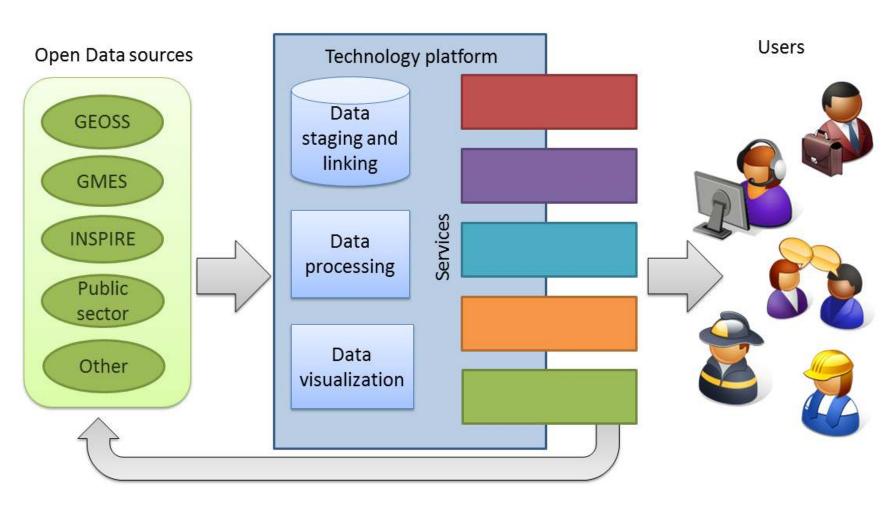








MELODIES Overview



The MELODIES Services



Improving Emission Inventories

Site-specific information for land management



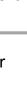
Urban Ecosystem
Accounting

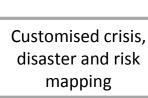
Assessment of Good Environmental Status for oceans



Desertification indicators

Marine transport





Groundwater modelling



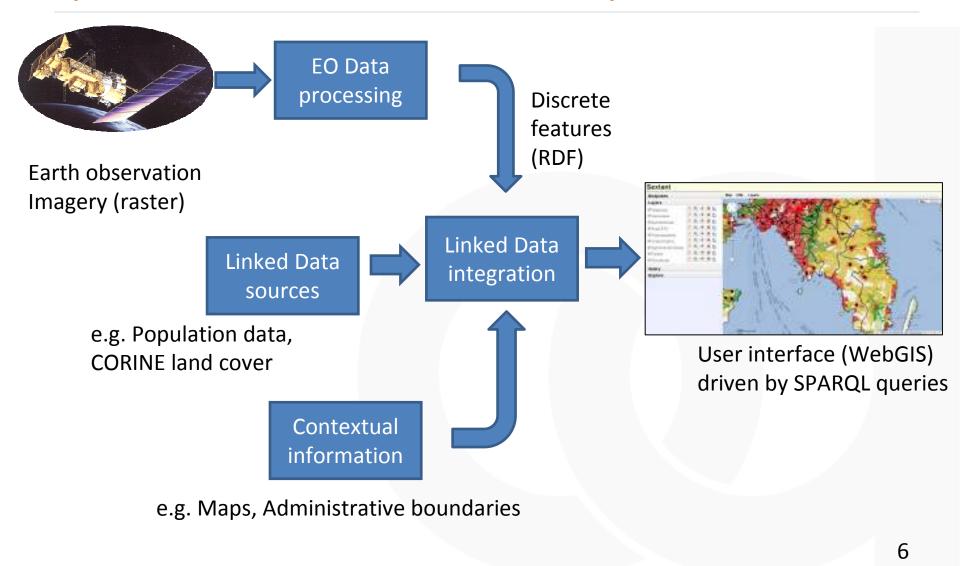






Anatomy of typical MELODIES service

(there is a lot of variation on this theme!)



Some Technologies We Are Using

- Terradue cloud platform and sandbox environment
 - Building on GeoWOW
- Strabon semantic spatiotemporal RDF store
 - University of Athens
 - Building on TELEIOS
- Web Mapping, OGC web services and portal tools
 - Building on MyOcean, GeoViQua, more...

Challenges and questions

- We understand Linked Data from publisher's point of view, what about consumer's?
 - How to join RDF data sources together?
 - Where do I do my analysis?
 - What tools can we use?
- How to handle large raster volumes (e.g. EO data)?
 - Currently we keep images as-is but record metadata and extracted features as Linked Data
- What is best approach for publishing commercial or restricted data?
 - Perhaps publish metadata and provenance?
- How do we handle time-varying data?
 - We will use stRDF and stSPARQL
- Use Linked Data to enable user annotation of datasets?
 - Cf. CHARMe project (http://www.charme.org.uk)





Thank you!

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http://melodiesproject.eu @MelodiesProject



