

EO data for ecosystem modelling and monitoring

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**47 partners,
17 countries EU and outside EU
2 IO (UNEP, UNESCO)
Starting date: 1 June 2015**



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3rd EU BON Stakeholder Roundtable
10th – 11th December 2015, Granada, Spain

Answer to **CALL SC5-16-2014**: *Making Earth Observation and Monitoring Data usable for ecosystem modelling and services*

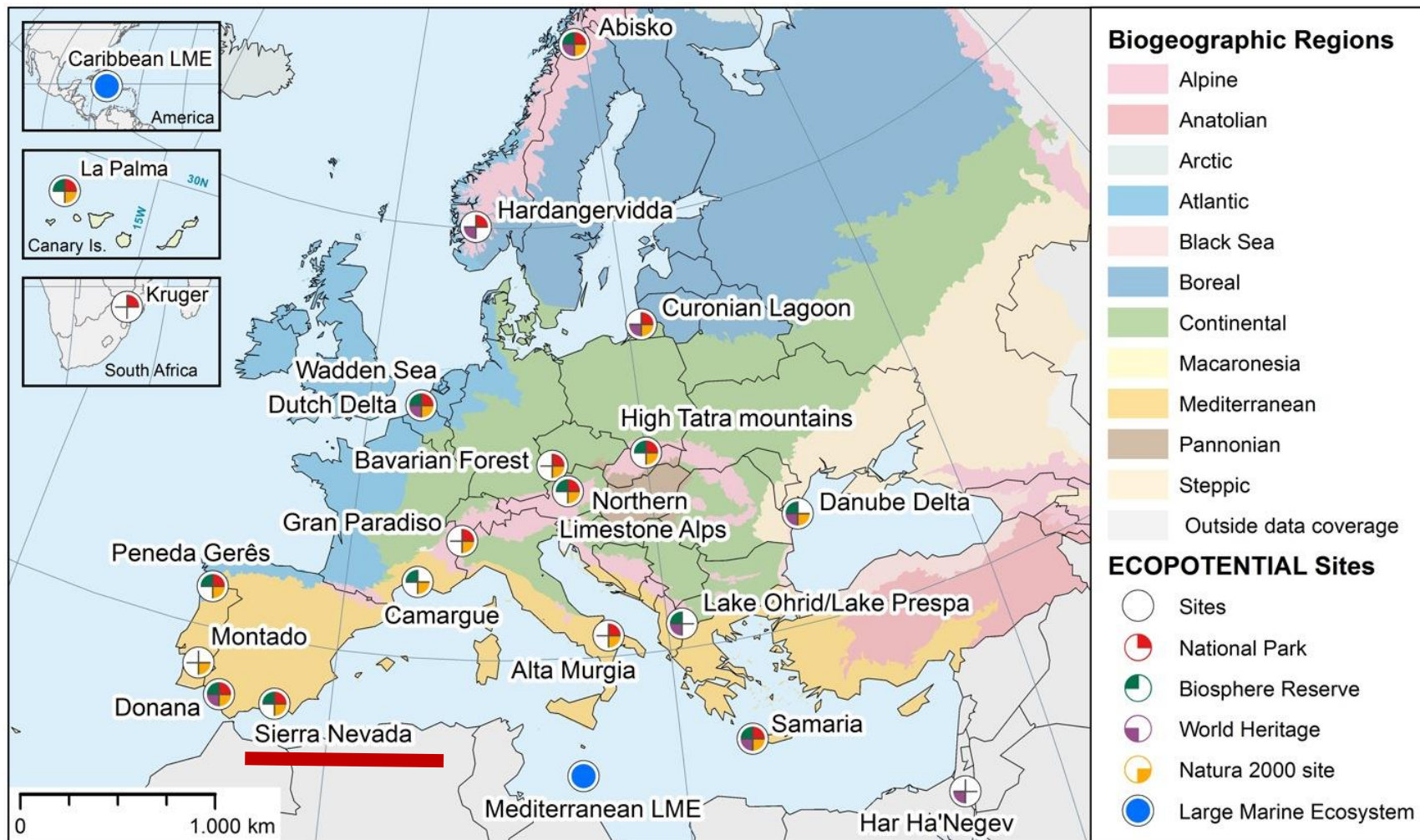
Almost **50% of the project resources deals with Interoperability and Data/Services sharing**

The good

- Focusing on PAs
- Data availability
- Link to projects/infrastructures

The bad

- Data heterogeneity
- Big Data issues
- Data quality, uncertainty, lack of standards



ECOPOTENTIAL objectives:

- Make **extensive use of Earth Observation data** (existing and new, i.e. Sentinel, VENmS) in combination with *in situ* monitoring (LTER, GEO BON, GBIF, OBIS)
- Create an **Ecosystem Data Service** related to the Copernicus space component (ECOPERNICUS)
- Develop a conceptual framework guiding the **integration of data**, models and scenarios towards a new vision of ecosystem structure, change and services. Refine the concept of Essential Variables (EBV, EOVS, ECV, EWS, EGV, ESEVs).

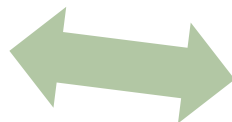


Quantify ecosystem services, taking into account social demand
Develop a list of requirements of future PAs
Improve evidence-based environmental policy making

In situ data

WP5, EAA, J.Peterseil

- Collecting data, metadata, vocabulary needs
- Inventory of existing cross PAs data portals
- Providing (data) services mainly to the scientific community
- Linking to other projects, infrastructures, initiatives, datasets (EU BON, e-LTER, OBIS, GBIF, LifeWatch, etc.)



Satellite data

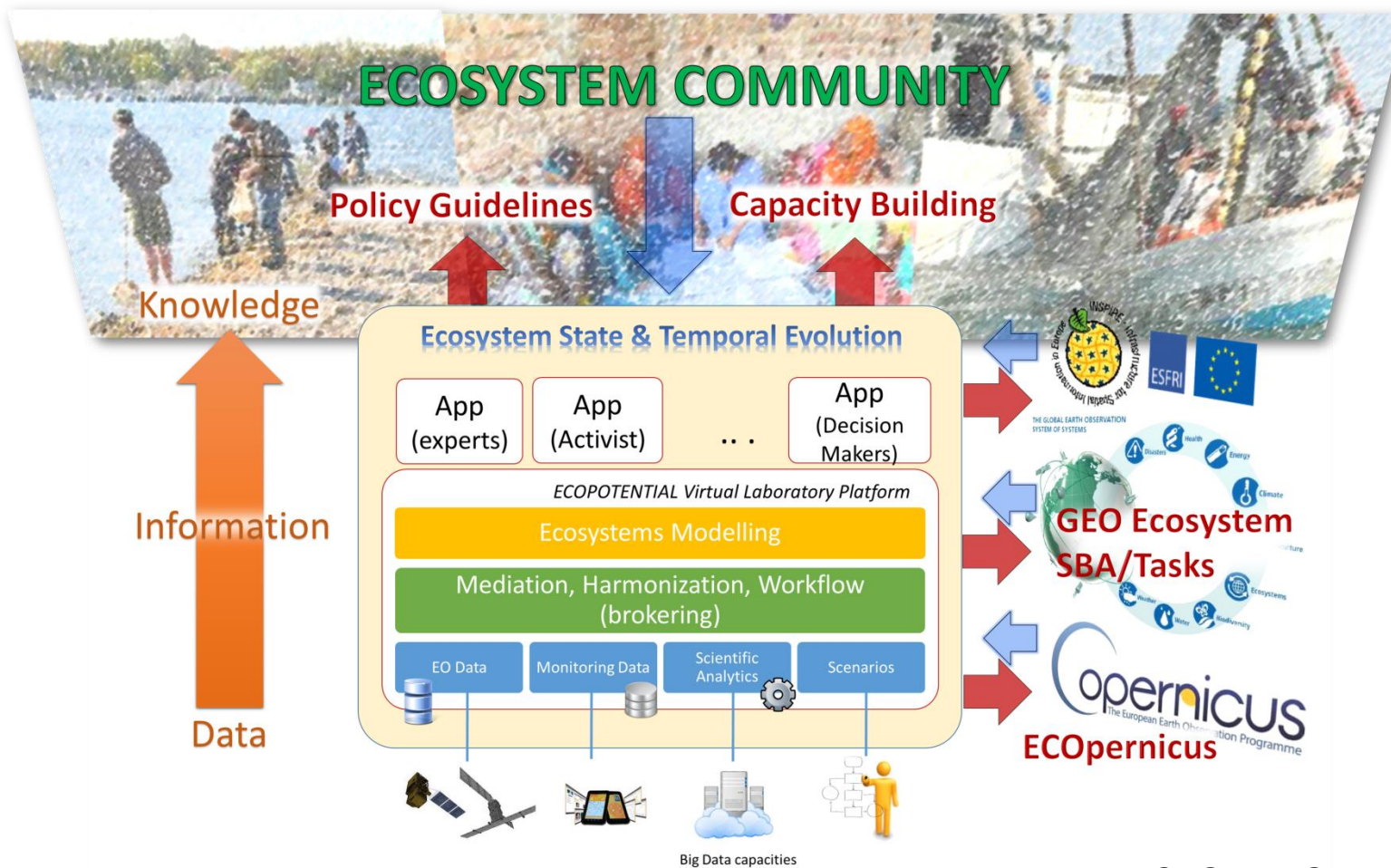
WP3, Terradue, F. Brito

WP4, CREAM, J. Masò

- Collecting data needs
- Inventory of RS products and proxies for Essential Variables
- Providing (data and processing) services mainly to the internal scientific community
- Linking to other projects, infrastructures (EU BON, GEOWOW, ConnectingGeo, BIO_SOS, etc.)

ECOPOTENTIAL -> EC H2020 OPEN DATA ACCESS

Platform/VRE to generate, discover, access, and use Ecosystem Services contributing to GEOSS and Copernicus



WP10, CNR, S. Nativi

- 1 To build on ECO POTENTIAL existing and under development digital systems
- 2 Not to impose any “common solution/specification” but advocate the use of open (international and Community) standards and interoperability APIs.
- 3 To provide a common, consistent, and “high-level” entry point ECO POTENTIAL platform for discovering, accessing, and using ECO POTENTIAL ecosystem services –for interoperability to GEOSS, Copernicus, and other EC-funded programmes.
- 4 To comply with the GEOSS Architecture Principles.
- 5 To comply with the GEOSS “resource sharing” and “resource management” principles –including quality and preservation.
- 6 To comply with the EC Open Data Access principles



Website: www.ecopotential-project.eu



Consiglio Nazionale



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ECOPOTENTIAL: improving future ecosystem benefits through earth observations

MISSION

Terrestrial and marine ecosystems provide essential goods and services to human societies. [Continue...](#)



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**Not an easy ground....
Moving slowly....**