The ENERGIC OD project: Overview

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Rationale

Market opportunities

**Sustainability**

**Job opportunities**

**Who?**

Application developers

**What?**

Creation of innovative Geospatial Applications based on OD

Lower entry barriers for developers (interoperability, complexity)

**How?**

Mediation, simple APIs,…

**Development of Virtual Hubs**

Facilitate the use of OD

**Open Data**

OPEN DATA

ENERGIC

European NEtwork for Redistributing Geospatial Information to user Communities - Open Data

ENERGIC-OD Final Conference, Kehl 4 Sep 2017
Main barriers to the usage of geospatial OD

- Governance: geospatial OD systems have different mandate and will evolve autonomously
  - Multiple data providers
  - Heterogeneous policies

- Interoperability: geo OD are highly heterogeneous
  - Data/metadata model and formats
  - Coordinate Reference Systems
  - Data services specifications
  - Quality and reliability
  - Semantics

- Usability
  - Complex service interfaces
  - Complex metadata/data models/encodings
1. Addressing Governance: System of Systems (SoS)

Virtual Hub

Component systems
2. Addressing Interoperability: brokered SoS

Component systems

brokers

Mediation
Adaptation
Harmonization
Reconciliation
Negotiation
Transformation
3. Addressing usability: portal and APIs

Virtual Hub

VH APIs

/H Portal/Applications

Application developer

End user
Virtual Hub as midstream service providers

Upstream services
Resource provision

Midstream services
Interoperability,
Policy harmonization,
Other VAS

Downstream services
User services

Virtual Hub

Application developer

End user

VH APIs

/H Portal/Applications
Main Project Outcomes

- VH downloadable package
- VH instances – interrelated each other’s
  - One European VH
  - Five National VHs (France, Germany, Italy, Poland, Spain)
  - One metropolitan VH (Berlin)
- One E-OD European portal for Data discovery & Access
  - A personalization of the GEOSS Portal developed by ESA-ESRIN
- VH APIs for application Developers and VH Portal
- Ten (mobile) Application developed on the top of VH services
- Business Model plan for the next years

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Thank you!

www.energic-od.eu/