



InGeoCloudS Experts Workshop

Moving Geodata and services to the cloud: exchanges about use cases and challenges

Welcome !

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www.akka.eu, www.ingeoclouds.eu



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Inspired GEOdata CLOUD Services

Agenda Day 1

1st session – Presentation of the project

- 10:30 – 11:00 Welcome and presentation of the InGeoCloudS project (Benoit Baurens, AKKA Technologies, InGeoCloudS project coordinator)

2nd session – About the Workshop

- 11:00 – 11:30 Workshop Roadmap (members of consortium)

3rd session – Presentations on Cloud Computing and Data Management

- 11:30 – 12h15 Cloud Computing in a nutshell
- 13:30 – 14:00 Semantics of Data and the LinkedData Approach



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Agenda Day 1 (end)

4th Session: Cloud Computing: a solution to the INSPIRE Directive?

- 14:00 – 14:30 INSPIRE Directive: summary and foreseen impact in relationship with cloud computing paradigm
- 15:00 – 16:30 Roundtable: Cloud Computing and INSPIRE
- 16:30 – 17:00 Presentation of a geo-platform for NSPIRE



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1st Session



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1st Session

Presentation of the project

- InGeoCloudS
 - Main objectives
 - Partners
- Presentation of Workshop participants
- About the InGeoCloudS project
- Cloud Computing / INSPIRE
- Project Schedule



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1st Session

Few words about the project

The Project aims at demonstrating that a **cloud** infrastructure can be used by public organisations to provide more efficient, scalable, flexible **services** for creating, sharing and disseminating **spatial environmental data** in innovative but also **standardised** ways.

- INspired
- GEOdata
- CLOUD
- Services



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1st Session

Few words about the project

The project is partially funded under the ICT Policy Support Programme (ICT PSP) as part of the Competitiveness and Innovation Framework Programme of the EC.



30 months duration

February 2012 → July 2014



1st Session

InGeoCloudS Partnership

- **AKKA** Informatique et Systèmes (France)
- **BRGM** (France)
- Foundation for Research and Technology Hellas (**FORTH**, Greece)
- Geolosoki Zavod Slovenije (**GeoZS**, Slovenia)
- The Geological Survey of Denmark and Greenland (**GEUS**, Denmark)
- Instituto Geologikon Kai Metalleytikon Ereynon (**IGME**, Greece)
- Consiglio Nazionale delle Ricerche (**CNR**, Italy)
- OASP Earthquake Planning and Protection Organization (**EPPO**, Greece)



1st Session

Workshop Attendees

- The Danish nature and Environmental Portal
- Istituto Nazionale di Geofisica e Vulcanologia (INGV), Italy
- The Attica Region, Greece
- Ministry of Environment, Geographic Information Division, F
- The EC – Joint Research Centre/INSPIRE & Digital Earth and Reference Data Unit
- Terradue (Italy) (ESA spin-off)
- EMSC (IT Team)
- Geological Survey of Ireland
- Geological Survey of Norway
- British Geological Survey



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1st Session

Main Objectives of the project

- Move from a traditional IT infrastructure to a Cloud-based one
- Implement a range of services around the publication and sharing of geo-environmental information
- Demonstrate the use of an « Environmental geodata cloud »
- Produce Guidelines and operational methods for adapting existing services but also creating new services.



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Perspectives for analysing the InGeoCloudS experience

- Technical,
- Scientific,
- Administrative,
- Legal and regulative,
- Quality of Service for end-users



Cloud Computing

Pay by usage
Self-service
Elasticity

Costs Optimisation and Control
Infrastructure « on-demand » versus traditional provisioning and maintenance processes
No limit (BigData, CPU-intensive applications...)
Improved quality of service
Development facilities for new applications
Etc.



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Project's schedule

- August 2012 : Data and services elicited and qualified
 - November 2012: documented interfaces of Web Services and data models
- January 2013: 1st operational Pilot
 - Until July 2013: 1st reflection on pilots/1st version of blueprints
 - September 2013: final operational pilot
 - December 2013: InGeoCloudS Event
- Pilot and infrastructure maintenance,
 - finalizing publication and linking of RDF-described data in the cloud
 - July 2014: Final version of Blueprints and of the InGeoCloudS Pilot services



Questions ?