Draft agenda Geospatial IG

- Introduction and welcome to new members
- Updates on current status of Geospatial IG & joint paper on Geospatial Data Science - Suchith Anand (University of Nottingham)
- Updates on Joint W3C/OGC Spatial Data on the Web WG - Phil Archer (W3C)
- Updates on Urban Quality of Life Indicators - Chris Pettit (University of Melbourne)
- Spatial ontology design patterns - Gary Berg-Cross
- Updates on INSPIRE and geospatial data in the EU - Andrea Perego (European Commission - Joint Research Centre)
- OGC Big Data standards - Peter Baumann (Jacobs University)
- Semantic Pathways for Building a Spatially Thinking Society: GEOTHNK - Suchith Anand (University of Nottingham)
- Ideas for WGs for specific actions in Geospatial IG - All
Why is it important - Location is a key integrator for helping bring together data from different sources for helping solve global societal challenges

What is the economic impact of GEO SERVICES

Geo services are:

- Satellite receivers and manufacturing
- Satellite imagery
- Location-based search

Geo services global revenues are $150–$270 billion per year

- Video games industry $25 billion
- Geo services $150–$270 billion
- Airline industry $594 billion

Geo services global added value is around $100 billion per year

Geo services save:

- 1.1 billion hours of travel time per year globally
- 0.5–2.8 billion
- $8–$22 billion

Geo services facilitate competition, leading to savings from reduced prices among infrequently bought goods and services of up to:

- 3% Students educated using Geo services can expect
- Higher average wages five years after graduation than those who weren’t


Big Picture - Open Geospatial Science is key for innovation in GIS

Ability for showing the operation of general laws is fundamental for scientific research

Geospatial Standards (for ex. OGC spec.)

Open Data

Maturity of open source software (for ex. OSGeo stack)
Some background

Mission - "Making geospatial education and opportunities accessible to all"

The motto of ICA-OSGeo Labs initiative is "Geo For All." The creativity, dynamism and high-profile success stories of the Free and Open Source Software for Geospatial applications (FOSS4G) movement are attracting increasing attention from end users, developers, businesses, governments, educators and researchers around the world. The goal of the initiative is to promote and enhance education, research and service activities carried out by these stakeholders in the area of Open Geospatial Science & Applications all over the world. By combining the potential of free and open GI software, open data, open standards, open access to research publications, open education resources in Geospatial education and research will enable creation of sustainable...
How we started

- The BoF session on Geospatial Information, held on 26th March 2014 at the RDA 3rd Plenary in Dublin recognized the importance of addressing issues related to the interoperability and re-use of geospatial information in the framework of RDA.

The Geospatial Interest Group is a domain oriented interest group to coordinate and build synergies on topics related to geospatial data. Though there has been lot of developments and advances in geo data collection through mobile communications, sensor platforms, spatial search, and pervasive computing but still, the inter-disciplinary research needed to transform raw data into useful intelligence, to improve the planet's environmental, economic and societal well being, remains constrained by a range of barriers - disciplinary, organisational, historical, and a non-existent or non-rigorous approach to quantifying uncertainty in collected datasets.

**Status:** Pending action

**Chair(s):** Suchith Anand, Peter Baumann, Luciene Delazari, Andrea Perego (tbc)

**Group Email:** rda-geospatial-ig@rda-groups.org

**Case Statement:**

**Recent Activity**

Filter the group's recent activity based on content type or author
The Geospatial Interest Group will help to coordinate activities and promote good practices in areas including:

- geospatial data sharing policies;
- policies for documenting and sharing geospatial analytical models
- geospatial data management plans;
- quantify uncertainty in datasets;
- geospatial data re-use across domains, and cross-domain interoperability of location and place information.
RDA groups which have synergies

- Metadata IG
- Metadata Standards Directory WG
- Data in Context IG
- Big Data Analytics IG
- Agriculture IG
- Urban Quality of Life Indicators WG
- Defining Urban Data Exchange for Science IG
- Publishing Data IG
- Data Citation WG
Where are we now?

• Will be updating our Case statement following review by TAB

• We have over 50 members

• Working on joint paper on Geospatial Data Science

• Working with WG on Urban QoL indicators (Chris, Max et.al)

We welcome ideas/inputs for collaborations
Future of Geo Data?

How do we combine data from authoritative data sets with feature-rich, informal data, recognizing the variable coverage of informal data while capturing the best of both worlds?

Research based on study funded by Ordnance Survey
Fully build on Open Source

Joint paper on Geospatial Data Science

Why – to bring together perspectives in geo data from different themes (hydrology, earth sciences, transport, environment...)

What is the key geodata issues in your research
What are the solutions
What are the challenges (not just technical)
Why Geospatial Data important for Geoeducation

GEOTHINK brings together many different organisations who have decided to join forces in a European effort to propose a scientifically grounded, technologically sustainable, and organisationally disruptive framework to meet the challenge for the development of.....

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<td>Dr. Tabitha van den Ende</td>
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GEOTHNK Target audience

STUDENTS
For students, GEOTHNK offers the opportunity to be involved in innovative learning activities in pedagogically structured and scaffolded learning spaces that are extended with social communication facilities.

TEACHERS
For teachers, teachers trainers and university students, GEOTHNK offers pedagogical “plug, share, and play” through a Web-based interface and a community framework to disseminate best practices and find mutual support. A modular approach and innovative pathways that crosscut the boundaries between formal and informal learning settings promote a seamless incorporation of numerous open educational resources into the classroom.

SCIENCE CENTER EDUCATORS
For science center educators, GEOTHNK provides open interfacing solutions to easily prepare learning pathways for their communities, construct their virtual didactic counterparts, and share them with teachers and researchers in the field.

ADULT LEARNERS
For adult learners (e.g. science centres visitors), GEOTHNK offers the opportunity to be involved in innovative learning activities that builds on the strengths of both formal and informal learning that are extended with social communication facilities.
GEOTHIINK Community

The aim of this Community is to support educators to develop innovative pathways that will demonstrate learners innovative ways to associate geospatial concepts with concepts from other domains (e.g. Environment, Earth Sciences, Social Sciences, etc.) and infer and associate knowledge.

With the support of the Lifelong Learning Programme of the European Union Pr. no 543451-LLP-1-2013-1-GR-KA3-KA3MP

Tags
- geospatial
- geography

Resources

Search in the Community

Share to the Community

Educational Content
Learning Pathways
Reasoning Tool

Build your Community

GROUPS
There are no available groups.

ACTIVITIES
There is no content.

EVENTS
From Geospatial Thinking to Teaching...
2014.03.04
The Summer School is a course centered on the...
Meeting Agenda @RDA4

Date & Time: BREAKOUT2 Monday 22 Sept 2014, 13.30 – 15.00

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