Lowering the entry barrier for INSPIRE compliant Web Services

Paolo Viskanic
(paolo.viskanic@r3-gis.com)
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• Founded 2003
• Main office in Merano (BZ), second office in Milano
• 12 Collaborators, (6 in software development)
• Quality Certification ISO 9001:2008
• Member of the Open Geospatial Consortium
• Funding member of the Foss Academy
• Operating through partners in Italy, Austria and Germany
Vertical solutions based on open source technology

R3 UrbanTools
A CLEAR VIEW ON YOUR LAND

R3 TREES
MANAGING PUBLIC GREENS EFFICIENTLY

R3 EcoGIS
MONITORING CO2, EMISSIONS AND ENERGY EFFICIENCY

R3 TechNET
MANAGING YOUR PUBLIC SUPPLY NETWORK EASILY

R3 STAT
THE SPATIAL REPRESENTATION OF STATISTICAL DATA

R3 SIGNS
TRAFFIC SIGNS MANAGEMENT MADE EASY

www.r3-gis.com
Open Source Technology

- CentOS or RedHat operating system
- Geodatabase PostgreSQL/PostGIS
- PHP, Java, Javascript, HTML
- UMN Mapserver/GeoServer
- Analysis: Grass, jGrass, gvSIG, uDig, QGis
- WebGIS Client: OpenLayers, GisClient

R3 GIS contributes to most of these Technologies
Our customers

- Public Administrations in Italy and Austria (mainly small local administrations)
- Infrastructure companies
- Private contractors
- Universities and research institutions
FreeGIS.net enables public administrations to effectively publish geo information by providing Free Software applications, open data licenses and open standards.

- **FreeGIS.net for public officials**: Learn how FreeGIS.net can help you implement your publishing obligations in a comprehensive way.
- **FreeGIS.net for GIS specialists**: Start working with the FreeGIS.net Free Software applications and protocols, see examples and get to know the community.
- **FreeGIS.net for project team**: Work on the project status, see current events, share documents and have a look at the newsletter.
FreeGIS.net Partners

Lead Partner: Free Software Center of TIS Technology Park, Bolzano (I)

Supporter: Province of Bolzano (I)

Technology Partner
R3 GIS srl (I)

Swiss Partner:
Kanton Graubünden (CH)
Main activities

The FreeGIS.net Project aims to find Free Open Source solutions to Public Administrations GIS needs. The main activities of the project are:

• Geographical multilingual web services
• FOSS-based Reference Implementation
• FreeGIS data license
• Documentation, dissemination and training

Duration:
02.08.2010 – 02.08.2013 (extended to 31.12.2013)
Multilingual Web Services

Multilingualism is a key aspect of WebGIS services, especially considering the INSPIRE directive. The Work Package included:

• Analysis of OGC and INSPIRE specifications
• Participate to OGC Technical Committee to support and follow-up extension of multilingual aspects
• Support multilingual Services in the reference implementation
• Implement Inspire compliant WMS in Mapserver (subcontracted to EOX)
FOSS-based Reference Implementation

Activities carried out:
• Analysis and selection of software components
• Development of a FreeGIS.Viewer Map Client which communicates to the server only through OGC Services
• Integration of Humboldt Tools for data transformation (Hydrologis)
• Publication of a virtual machine with all components necessary to build an INSPIRE compliant SDI based on Free and Open Source Software
FreeGIS.net Viewer
Open Data Licence

Analysis, discussion, training and promotion of licenses to make data openly available (Simone Aliprandi and Carlo Piana)

Legal Tools for Open Data

- Licenses
  - Requiring attribution and share-alike
    - CC by-sa
    - ODC ODbL
    - IODL 1.0 (it)
  - Requiring attribution only
    - CC by
    - ODC by
    - OGL (uk)
    - IODL 2.0 (it)
    - LIP (fr)

- Public Domain Waivers
  - Creating an "artificial" public domain
    - CC0
    - ODC PDDL

*natural (and real) public domain comes when all exclusive rights are expired

original url for this document: www.aliprandi.org/doc/opendata_graph.pdf
Dissemination

- Participation to +10 international events to promote the Project and its result
- Organisation of training sessions on INSPIRE and OGC standards to PAs and companies in the Province of Bolzano and Kanton Graubünden
- Website and Newsletter
- DVD, final report and a last round of presentations is being organised.
FreeGIS.net

You can find documentation and the reference implementation on the website:

www.freegis.net
Our experience with INSPIRE 1

- The FreeGIS.net project allowed us to study and implement new technologies to meet INSPIRE requirements.
- Through the participation to conferences and OGC we met new partners and created a network to meet changing requirements of market.
- However all this was possible because of the use of open technologies. Through Free and Open Source software we are actors in the application of INSPIRE and not spectators.
Our experience with INSPIRE 2

- We re-engineered our products to use the same stack of applications as the FreeGIS.net reference implementation
- We implemented INSPIRE policies in our application (e.g. management of urban green areas)
- We proposed and implemented SDI based on this technology in many municipalities, provinces and regions in Italy and Austria
- We are constantly extending the stack of applications of the FreeGIS.net project: e.g. mobile offline client
Our experience with INSPIRE 3

- INSPIRE enables **interoperability**
- Interoperability opens new opportunities
- INSPIRE opens new market opportunities
- Through FreeGIS.net we have tried to lower the entry barrier for small administrations to implement iNSPIRE compliant services
- However we miss consciousness about INSPIRE in the local Administrations in Italy and in Austria (our two main markets)
Thank you for your interest