



Sub-national dimensions of INSPIRE 3 linked workshops



INSPIRE Conference , Florence - Italy
Monday 24 June 2013 - Room 5
14,00 - 15,30

Three workshops are proposed to address the issues of sub-national dimensions of INSPIRE Directive and related topics.

The workshops are coordinated by AMFM GIS Italia, well recognized INSPIRE Italian evangelist and advocate, and leaded among the others by European Commission, EUROGEOGRAPHICS , EUROGI, CISIS-CPSG (Organisation of Italian Regions for Geo-information), IGM (Italian Military Geographic Institute) and others.

WS 3 - SDIs in the evolving EU society: sub-national and national issues

Chair: **Mauro Salvemini**, EUROGI- AMFM GIS Italia

Programme

Emerging future and GI opportunities: outcomes of imaGIne Conference

B. McCormack - EUROGI

GI, SDIs in the evolving EU society - the view of the NMCA's

D. Lovell - EUROGEOGRAPHICS

Business case and drivers for a National Public Map Services Node

R. van de Velde - GEONOVUM

Geo-Prosumerism: consumption, territory and control through the geographic information sharing

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M. Salvemini, R. Paltrinieri, P. Degli Esposti , U. Mezzacapo -
Bologna University , Sapienza Roma University

Emerging future and GI opportunities: outcomes of imaGIne Conference

In March this year EUROGI held its two day imaGIne conference in Dublin. The conference was one of three conferences held in the same venue in the same week. All three conferences had the status of being Irish Presidency associated events. The European Environment Agency held its Eye on Earth First User conference in the early part of the week, followed by the Joint Research Centre's Envirofi conference, with the EUROGI conference taking place on the Thursday and Friday of the week. EUROGI, with strong support from its Irish member, IRLOGI, was the overall conferences manager for all three conferences, and naturally took full responsibility for its own conference. The central theme of the imaGIne conference was unlocking the opportunities inherent in GI for addressing key governance, enterprise and community issues, both today and tomorrow. EUROGI is of the belief that currently only a very small proportion of the potential uses of GI, inclusive of GIS and SDIs, is being exploited. A key question is - what are these potentials and how can they be unlocked? This was the key question on the first day of the conference. EUROGI has in recent years become increasingly interested in getting a grasp on what it terms 'the emerging future'. Technological trends such as cloud computing, big data, linked data, the Internet of Things, 3D/4D, inside/outside positioning etc, as well as economic and social trends will create a significantly different future landscape for GI and its usage. What is the 'shape' of this landscape?, where are the new opportunities?, what do we need to do now to exploit them? are all issues of relevance on the second day of the conference. The presentation will focus on some of the issues which arose at the imaGIne conference and set them within a framework of changing GI paradigms.



Bruce McCormack

Bruce McCormack is president of EUROGI association which stimulates, encourages and supports the development and effective use of GI and relevant technologies and policies, and to act as channel of the voice for the European GI community, private and public sectors alike.

GI, SDIs in the evolving EU society - the view of the NMCAs

The Digital Agenda for Europe requires progress in seven pillars or action lines. Geo-Information is relevant and active in three: creating a digital Single Market; achieving greater interoperability and applying information and communications technologies to address challenges facing society like climate change and the ageing population. The European Mapping, Cadastre and Land Registry Authorities together with a number of commercial and academic partners aim to deliver tangible progress and operational services in these areas by developing the European Location Framework (ELF). The ELF is a technical infrastructure which will deliver authoritative, interoperable, cross-border geospatial reference data for analysing and understanding information connected to places and features. The ELF will build on the European Interoperability Framework and the INSPIRE directive. The concept of the European Location Framework was developed in the ESDIN project (2008-2011) The European Location Framework will be a major component of the European Spatial Data Infrastructure foreseen in

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the INSPIRE directive and will provide access to the national geo-information to support GMES services and innovative re-use of Public Sector Information.



Dave Lovell

Dave Lovell is Secretary General and Executive Director of EuroGeographics, representing 56 national mapping, cadastre and land registry authorities in Europe. He is also a member of the Advisory Committee of the British Geological Survey and President Elect of the Global Spatial Data Infrastructure Association.

Business case and drivers for a National Public Map Services Node

Geonovum, the National Spatial Data Infrastructure (NSDI) executive committee in the Netherlands, is devoted to providing better access to geo-information in the public sector. Geonovum develops and manages the geo-standards necessary to implement this goal. The Dutch National Public Map Services Node is a central facility for unlocking geodatasets of national importance. This is actual and reliable information for both the public and private sectors. It makes digital geospatial data available through the national geo-data catalogue as as data services and datasets. Most services are based on open data and are therefore available to everyone. The services meet national and international standards, including OGC standards, the European [INSPIRE](#) standards the and the national e-government standards. The National Public Map Services Node was created by a collaboration between the Ministries of [Infrastructure and Environment](#), [Economic Affairs](#), the National Mapping agency and Cadastre, [Rijkswaterstaat](#) and [Geonovum](#). Geonovum hosted the programme which realised the National Public Map Services Node. In addition Geonovum runs the INSPIRE implementation programme.

In my talk I will adress the business case of the national public map services node, present the main result and discuss the way open standards, legislation (INSPIRE, National eGov) and drivers for open data influenced the implementation strategy.



Rob van de Velde

Rob van de Velde (1961, The Hague, The Netherlands) is currently director of Geonovum, the Dutch National SDI Executive Committee. Geonovum's mission is to realize better access to geo-information in the public sector and full integration of its services to public and industry.

Geo-Prosumerism: consumption, territory and control through the geographic information sharing

The fast growing process of technological evolution and the widespread dissemination of smart devices facilitate the multiple nature informative assets sharing, ever more enriched by geographical component technologically produced by ordinary users who quickly and

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automatically became spatial survey professionals (M. Goodchild 2012). Nowadays also in the geographic information dominion the prosumer's role, prophesied by Toffler (1980) is institutionalized and turned a profit by corporations into the Web 2.0 framework and that of Social Networking in particular.

The production of geo-information follows a dual nature process, on one hand that typical of the production logic: closed source, induced and efficient (McDonaldized), on the other that of open-source culture (spontaneous, open data): participatory, effective and voluntary (volunteered geography). In this context, the geographic information acquires increasing value both under a social collective perspective (design, planning and policy, land use and control) and from the market's point of view (mapping of land features, networks, nodes, relations and geo-marketing).

Geoservices, making and supporting the use of GI, are worldwide proliferating, partly considered as an intermediate good and useful way to trigger consumers involvement, a typical prosumerism approach, partly seen as contemporary technological frontier meant to ensure the spatial data infrastructure functioning.

Geoservices are filling the gap between producer surplus and consumer surplus that currently tends to the equilibrium point in the GI dominion is also described by Shirky (2012) by means of the cognitive surplus concept that activates spreadable media (Jenkins 2013).

The technological evolution, of which geoservices are part, affects the space concept reshaping, no longer exclusively considerable from a purely physical point of view, but ever more as the result of a social interactions series that can be easily mapped and represented by applications that integrate Social Media functions and Geographic Information Systems. Technological evolution itself has also a direct influence on the geographic data management through the spontaneous prosumer production, the networking process by means of spatial data infrastructures, the management by public cartographic bodies in charge for alternative networked data validation and dissemination. To this regard new activities, initiatives and issues are being disclosed by institutional bodies: the validation of the prosumers-made data, the mapping of conceptual models and VGI data technical specifications according to those recognized as official standards.

In this rapidly evolving framework GIS, other than systems to represent and analyze spatial data and information and fundamental part of spatial data infrastructures, can be metaphorically considered as a useful bearings able to orient in the so-called augmented reality whose Big Data represent its backbone. Moreover, the geo-spatial component of Big Data is growing, thus enabling types of spatial analysis (proximity, connectivity, belonging, spatial filtering, etc.) so far applied only in the GIS.

The social and political participation, the marketing and consumption construct, territories fruition modality, the social control dynamics and tools are the first and most important representations of geo-prosumerism that is emerging in recent years through a series of Web 2.0 applications (google maps, waze, foursquare, instant weather and many others).

The voluntariness/induction mix, the social, economic and cultural capital dynamics, associated with the technical skills that are gradually made it easier, generates a reinterpretation and re-acquisition process that requires a deep research analysis that should start from the redefinition of public and private space (cf. Alexander - Chermahieff) as well as individual and common good.

In near future years there will be a need of governmental initiatives by putting in place appropriate methods by public institutions in order to supply and manage geo-data and geo-services to citizens and to other institutions taking into account the geo-prosumerism. INSPIRE has been the initiator in Europe to orchestrate the present rules, methods specifications to run SDIs and may continue, profiting of geo-prumerism, to play a significant role when the players (users = producers + consumers) will increase in number, in attitudes and in activities.

Mauro Salvemini, Roberta Paltrinieri, Piergiorgio Degli Esposti



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Mauro is distinguished professor at Sapienza Rome University and evangelist and advocate of SDIs .

Roberta, Ph-D, is associate professor at the University of Bologna where she teaches sociology of consumption. She's the scientific director of the Ces.co.com, Study Center on Communication and Sustainable Consumption - Department of Sociology, University of Bologna Alma Mater. Her scientific and empirical interests : responsible and critical consumption practices, sustainable lifestyles; active citizenship, civic engagement processes, participative processes.

Pier Giorgio, Ph.D. studies Market and Consumption Behavior, is Assistant professor at Bologna University. Since 2009 member of the Prosumer Research Group, Maryland University UMD. Since 2012 member of Ces.Co.Com Advanced Study Research Center about Consumption and Communication at Bologna University.

They recently initiated a research agenda item about geo-prosumerism discussing the issue of how the new capabilities offered by digital technologies and geo-services may affect the interactions between consumption, territory and control, especially considering the voluntariness/induction mix, the social, economic and cultural capital dynamics, together with the progressive simplification of technical skills needed.

Workshop outcomes will be published on :

www.amfm.it