



Geospatial Crowdsourcing and VGI:
Establishment of SDI & SIM
4-7 November 2014 Bologna - Italy



With the scientific cooperation of SIFET 

Introduction

Dear Colleague,
it is my pleasure to invite you to the Workshop and Annual Meeting of FIG Commission III that will be held in Bologna (Italy) from 4th till 7th November 2014.

Bologna, ancient city of art and culture, is lively and cheerful for the freshness brought by the thousands of students who attend the prestigious Alma Mater, the University founded in 1088 and the oldest one in the world. The arcades, which are widespread in the historical center, are slated to be recognized "world heritage" by UNESCO and make the city unique in the world.

The event, that will be held in English, is part of FIG activities and is organized by FIG Commission III with the Consiglio Nazionale Geometri e Geometri Laureati and in cooperation with the Provincial Colleges of Surveyors in Bologna and with the scientific support of SIFET (Italian Society of Topography and Photogrammetry).

Participants from all over the world are expected to take part in this international event.

The mission of FIG Commission III is to study the impact of Spatial Information Management (SIM), Spatial Data Infrastructures (SDIs), and spatial planning tools on economic, social and environmental aspects of local authorities in general, and on the empowerment of local authorities in particular. Investigating the international knowledge and practice on how surveyors may assist real estate markets, good governance, environmental management and planning initiatives by providing reliable spatial and relevant infrastructures.

The past five years have witnessed an overwhelming transformation in the way that geographic data, information, and knowledge are produced and disseminated. The term Volunteered Geographic Information (VGI) encapsulates the idea of using the internet to

create, share, visualize, and analyze geographic information and knowledge, envisioned via the use of numerous users, computing devices and platforms. A neogeography revolution that have started to fundamentally transform how geographic data are acquired, maintained, analyzed, visualized, and consequently – used, encompassing new services to take place, and applications and processes to be developed.

The aim of this workshop is to study the impact of volunteered and crowdsourced geospatial data and information in terms of SDIs and SIM. Among others, managing the built environment, monitoring the legalization process and progress of land, property registration, planning reforms. Emphasize will be given to the understanding and assessment of the authenticity, validity, and uncertainty of VGI and crowdsourced procedures, in transforming it to a valuable, trustworthy, and usable component for SDI and SIM that are related to practical applications with the appropriate reference frameworks,

standards, models and analytical approaches. In addition, the aim is to investigate the international knowledge and experience on how such working methodologies in the hand of citizens and the surveyors assist good governance, efficient operations of property markets, affordable planning, affordable housing, and appropriate environmental management - by providing innovative and reliable land tools and spatial information solutions addressing global challenges.

This workshop will provide an opportunity to discuss acquisition, synthesis, integration, use, archiving, and the place of VGI and crowdsourcing in SDI and SIM workflows.

The technical program will be carefully prepared and will consist of presentations by international professionals and academics in all disciplines within the profession, having high-profile technical and scientific international level and specifically selected.

While the workshop focus is on effective utilization of VGI within the framework of SDI and SIM, a larger number of topics of interest related to VGI and crowdsourcing will be discussed. Topics include but are not limited to:

- › Utilization of VGI and crowdsourcing with SDI, SIM and environmental information
- › VGI collection, dissemination, analysis, maintenance, and visualization
- › Land management tools and innovative spatial information solutions addressing global and national challenges
- › E-government and SDIs: managing information spatially; theory, applications and best practice studies
- › The significance of reliable SDIs necessary tool for managing authorities' services settings, establishing the basis for vitality and "openness to change"
- › VGI interoperability standards, uncertainty, authenticity, validity
- › Applications of VGI in managing the built environment, legalization monitoring, property registration, planning reforms
- › Participatory mapping and citizens science – case studies and processes
- › Case studies in Italy, e.g. "Arcades of Bologna" – World Heritage (UNESCO)

As Italian case-studies some papers will be presented on:

- 1) The GIS of Emilia Romagna with particular focus to the issues of territory and seismic emergency and hydrogeological risk;
- 2) "Arcades" in Bologna, and crowdsourcing project to document the request for recognition as a World Heritage (UNESCO).

More information on participation and submission of papers can be found at the following link:

<http://com3fig.wix.com/fig-commission3-2014>

Hoping to meet you in Bologna this November, I give you my best regards.

Maurizio Savoncelli
CNGeGL President

Summary of the programme

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Keynote speakers,
among them the incoming FIG President Prof. Chryssy Potsiou
and Prof. Piero Boccardo, Professor of the University
Politecnico in Torino and responsible of Ithaca Project

Scientific papers presented
by keynote speakers and
delegates of FIG Commission III

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3

Working sessions with the participation of representatives of SIFET
(Italian Society of Topography and Photogrammetry), of the Emilia
Romagna Region and of the Municipality of Bologna about: Topography,
GIS in Emilia Romagna with particular focus on territory and seismic
emergency and hydrogeological risk and "Arcades" in Bologna, and crowdsourcing
project to document the request for recognition as a World Heritage (UNESCO)



Paper Submission

It is very important that all submitted papers focus on the workshop theme and topics. All papers submitted through the Easychair system via: <https://www.easychair.org/conferences/?conf=fig32014>

Two channels for submitting papers are available

Full paper refereed channel

▲ 1 October 2014

Full paper submission deadline

▲ 13 October 2014

Notification of acceptance through the peer review

▲ 5 October 2014

Notification of acceptance for presentation

▲ 20 October 2014

Final revised paper submission deadline



Papers submitted in this channel (approximately 6000 words in English) must present significant scientific results. Manuscripts must describe original work that has neither been published before, nor is currently under review elsewhere. High-quality submissions will be published in an international scientific journal.

Extended abstract refereed channel

▲ 1 October 2014

Extended abstract submission deadline

▲ 5 October 2014

Notification of acceptance for presentation

▲ 20 October 2014

Full paper submission deadline

The extended abstract should be 350 to 500 words in length (in English) describing the objectives, results, conclusions and significance of your work (relevant artwork can be embedded). Please note that full paper is to be submitted after acceptance for presentation.

Registration Fees

Registration fees include welcome cocktail, lunches and coffee breaks during the four days of technical sessions – 4-7 November 2014

Early bird
registration fees
ends 1 October 2014

250€

Full
registration

300€

Student
registration

125€

Hotel Registration

NH | HOTEL GROUP NH Bologna de la Gare
Piazza XX Settembre, 2
40121, Bologna, Italy

Special Offer

Special offer for commission's delegates until 3/10/2014
use the following link to register <http://goo.gl/fu8v7W>



Consiglio Nazionale
Geometri e Geometri Laureati



International Federation of Surveyors
Fédération Internationale des Géomètres
Internationale Vereinigung der Vermessungsingenieure
FIG COMMISSION 3
Spatial Information Management

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