



FIG COMMISSION 3
WORKSHOP & ANNUAL MEETING



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



With the scientific cooperation of **SIFET**



Dear Colleagues and friends,

FIG Commission 3 on Spatial Information Management is one of the most active commissions within FIG (International Federation of Surveyors). In addition to the annual FIG conferences

and congresses, we are organizing each year a workshop and an annual meeting which covers topics of interest for our mapping, surveying, planning and engineering communities.

The theme of 2014 FIG Commission 3 workshop and meeting is "Geospatial Crowdsourcing and VGI: Establishment of Spatial Data Infrastructure & Spatial Information Management". My colleagues in the commission and I think that Crowdsourcing in general and Geospatial Crowdsourcing and VGI in particular have a great importance nowadays with the improved technical capabilities and technologies, huge volumes of geospatial information and the growing demand for geospatial products.

The aim of the 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.

During the three days of the workshop lectures will be given by researchers and professionals from around the world, including 3 keynote speeches by key personnel in the field.

It is an honor and great pleasure for me on behalf of FIG Commission 3 to welcome and invite you to the 2014 FIG Commission 3 workshop and annual meeting in Bologna, Italy. I encourage all who have an interest in surveying and mapping to attend the workshop as I am sure that this event will prove to be highly successful and rewarding for all. With great enthusiasm I look forward to welcoming you in Bologna.

Prof. Dr. Yerach Doytsher
FIG commission 3, Chair



Dear Colleagues,

it's my pleasure to welcome and thank you for your participation in the Meeting of FIG Commission 3 in Bologna.

Considering the registrations I can note that a lot of colleagues, academics and cadaster representatives are present coming from all over the world.

That means that the topic of the workshop of Commission 3 this time "Geospatial Crowdsourcing and VGI: establishment of SDI & SJM" is of great interest and calls the attention of several important experts. Bologna, ancient city of art and culture, has demonstrated its appeal.

The Consiglio Nazionale Geometri e Geometri Laureati, as host association, has done its best to make cozy and comfortable your staying during the working sessions. The papers present in the program are all very interesting and are about the actuality and the future of the Spatial Information Management, and I really hope that such working methodologies in the hand of citizens and the surveyors assist good governance, efficient opera-

tions 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.

I also hope that the project regarding the recognition of the Arcades of Bologna by UNESCO as World Heritage will be of your interest during the specific session on 6th November.

Please allow me to thank the FIG Foundation for the support given to the Young Surveyors to participate in this event.

I look forward to welcoming you in Italy.

Maurizio Savoncelli
President of CNGeGL

4 November

WELCOME
RECEPTION
19:00

Welcome Reception
NH Bologna de la Gare
Piazza XX Settembre, 2
40121, Bologna, Italy

NH
HOTELS



5 November

REGISTRATION
9:00 - 10:00

OPENING SESSION

10:00 - 10:30

Yerach Doytsher
Enrico Rispoli

KEYNOTE SPEECH

10:30 - 11:30

Chair Sagi Dalyot

"Open Geospatial Science and its role in
Surveying education"
Suchith Anand / UK



COFFEE BREAK 11:30 - 12:00

SESSION 1 / CADASTER 1

12:00 - 13:30

Chair Alessandro Dalmasso

Integrated access to geospatial data in
terms of correct functioning of real
estate management

Ewelina Wójciak and Agnieszka Bieda /
Poland

A proposed semi-automated approach
for updating street addresses of real
property parcels using SOA-based
services

Anthony Braun and Steinar Høseggen /
Israel - Norway

Enchaining Cadastral Survey by
Facilitating Owners Participation

George Mourafetis, Konstantinos
Apostolopoulos, Chryssy Potsiou and
Charalabos Ioannidis / Greece



LUNCH 13:30 - 15:00

5 November

6 November

VENUE
Servizio Geologico, Sismico e dei
Suoli della Regione Emilia-Romagna

Address
Viale della Fiera, 8 - Bologna
Meeting Room
Sala 20 Maggio 2012

SESSION 2 / SDI 1

15:00 - 16:30

Chair Yerach Doytsher

"E- learning a functional model of learning in Geography and Physics subject in high schools"

Zamira Gjeleshi and Etleva Miftari / Albania

Environmental Urban Sustainability in medium sized coastal cities. Environmental Indicators Approach

Akrivi Leka, Angelos Siolas and Costas Cassios / Greece

Stereovision Drone

Pietro Grimaldi / Italy



COFFEE BREAK 16:30 - 17:00

FIG3 ANNUAL MEETING

17:00 - 18:00

WELCOME SPEECH

9:00 - 9:30

Authorities

Maurizio Savoncelli / CNGeGL President

KEYNOTE SESSION / ARCADES OF BOLOGNA

9:30 - 11:00

Chair Yerach Doytsher,

Chair of FIG Commission III

Rapporteur Enrico Rispoli,

board member of CNGeGL and incoming chair

FIG Commission III

The restoration of the Arcade of St. Luca in Bologna

Renato Sabbi, Chairman of the Committee for the restoration of the Arcade of St. Luca / Italy

Presentation of the initiative of the Municipality of Bologna "recognition of the Arcades of Bologna as a World Heritage Site"

Luigi Virgolin, Official of the Department of

Economics and Promotion of the City, and

Matteo Lepore, Councillor / Italy

Bologna, Arcades, Surveyors.

"Transactions of topographicstructural Monitoring – Arcades project - Bologna - Sections II - Mystery III and VI - Mystery VII - arcades of Saint Luca"

Gualtiero Parmeggiani- Board Member of the College of Surveyors of Bologna and Secretary of the Foundation of Surveyors of the Emilia Romagna Region / Italy

World Heritage Designation: identifying the Outstanding Universal Value

Giorgio Andrian, UNESCO International

Consultant / Italy



PRESS CONFERENCE
COFFEE BREAK 11:00 - 11:30

6 November

SESSION 3 / SDI 2

11:30 - 13:00

Chair Yerach Doytsher,
Chair of FIG Commission III
Rapporteur Enrico Rispoli,
board member of CNGeGL and incoming chair
FIG Commission III

The Spatial Data Infrastructure of the
Emilia-Romagna regional administration -
Giovanni Ciardi and Stefano Olivucci,
Officials of the Emilia Romagna Region / Italy

Geodetical infrastructures on Emilia
Romagna territory
**Stefano Gandolfi, Professor of the University
of Bologna, Department of Civil Engineering,
Chemistry, Environment and Materials / Italy**

Geomatics and Emergency Management
**Piero Boccoardo, Andrea Ajamar, Fabio Giulio
Tonolo – Ithaca/University Politecnico of
Torino / Italy**



LUNCH 13:00 - 14:30

SESSION 4 / GEOSPATIAL DATA

14:30 - 15:30

Chair Charalabos Ioannidis

GIS on Natural Risks and Resources
developed by regional geological, seismic
and soil survey

**Alberto Martini, Official of the Emilia
Romagna Region / Italy**

"The 3D inventory register in Italy and
abroad, viewed as a guarantee of the
protection of rights, fair taxation and
better knowledge of the area"

**Bruno Razza, Vice President of the Interna-
tional Federation of Surveyors / Italy**

Dissemination of scientific data: crowd-
sourcing in the field of slope failure
assessment

**Francesco Mancini, Alessandro Capra DIFEF
Dept. – University of Modena and Reggio
Emilia - SIFET / Italy**



COFFEE BREAK 15:30 - 16:00

SESSION 5 / CROWDSOURCING 1

16:00 - 17:30

Chair Hartmut Müller

"Standardizing Participatory Mapping of
Indigenous Community Area in Indone-
sia"

**Rizqi Abdulharis, Andri Hernandi, Asep Yusup
Saptari and Alfita Puspa Handayani /
Indonesia**

"Potential of VGI - Case study Croatia" -
**Baldo Stancić, Vlado Cetl and Hrvoje Tomić /
Croatia**

"SDI and Crowdsourced Spatial Informa-
tion Management Automation for
Disaster Management"

**Saman Koswatte, Kevin Mcdougall and
Xiaoye Liu / Australia**

7 November

KEYNOTE SPEECH
9:00 - 10:00

Chair Robert Foster

Chryssy Potsiou - FIG President Elect
2015-2018 / Greece

SESSION 6 / CROWDSOURCING 2
10:00 - 11:30

Towards the Production of Digital Terrain
Models from Volunteered GPS Trajectories
Ido Massad and Sagi Dalyot / Israel

Crowdsourcing and Wisdom of the
Crowd: the Location Based Services
Perspective

**Talia Dror, Sagi Dalyot and
Yerach Doytsher / Israel**

KuLIS, a Tool Designed for Integrated
Geospatial Management of Volunteered
Cultural Landscape Information
**Hartmut Müller and Falk Würriehausen /
Germany**

COFFEE BREAK 11:30 - 12:00



SESSION 7 / CADASTER 2
12:00 - 13:00

Chair Daniele Brancato

Social mutation and lost neighborhoods
in Athens, Greece
**Efthimios Bakogiannis, Charalambos
Kyriakidis, Maria Siti, Angelos Siolas and Avgi
Vassi / Greece**

The OpenStreetMap for cadastral
purposes: An application using VGI for
official processes in urban areas
**Sofia Basiouka, Chryssy Potsiou and
Efthimios Bakogiannis / Greece**

Participatory Mapping in Support of
Improved Land Administration and
Management of Natural Resources
**Bozena Lipej and Janaq Male / Slovenia -
Albania**



LUNCH 13:00 - 14:30

CLOSING SESSION
14:30 - 15:30

Best article & Closing remarks



COFFEE BREAK 15:30 - 16:00

PREPARATION FOR SOCIAL PROGRAM
16:00 - 17:00

SOCIAL PROGRAM (UNTIL NIGHT)
17:00

Visit Arcades of San Luca
Tour of the city of Bologna
Conference dinner



LUNSSADU

Bologna, the 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, is the oldest in the world.

The arcades are widespread in the historical center, are slated to be recognized "World Heritage" by UNESCO and make the city unique.



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