



### **JOINT WORKSHOP** FIG COMMISSION 3 & COMMISSION 7 AND ANNUAL MEETING

> CROWDSOURCING OF LAND INFORMATION

> THE ROLE OF CITIZENS AND EXPERTS IN SENSING GEOGRAPHICAL INFORMATION

MALTA 16-20 NOVEMBRE 2015





### WORKSHOP OBJECTIVES

Citizens, through crowdsourcing / Volunteered Geographic Information (VGI), are increasingly volunteering their knowledge, personal time and energy using the Internet and on-line tools to get work done, to obtain input and to stimulate action. Current applications include counting birds, checking water quality and creating new base mapping for developing countries - OpenStreetMap is the best example. Crowdsourcing has only recently been directly applied to the capture and management of land rights within the land administration sector. Is it feasible and can it help to rapidly shrink the security of tenure chasm? This workshop will explore how we can engage citizens through crowdsourcing within a new citizen collaborative model for land administration that would be much more inclusive for the disadvantaged and vulnerable, increase access to land markets and help support poverty reduction. The workshop will also investigate new exploitation, development and use methodologies of VGI derived information to various geographic and social scientific disciplines that make use of mapping, GIS, SIM and SDI systems and procedures. The aspiration is that these will give rise to the examination and legalisation of the legitimacy of big geodata and related processes and management procedures as a reliable spatial, environmental and sustainable infrastructure on local, as well as on global, scales.

### TOPICS

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 SDI, SIM, VGI and crowdsourcing will be discussed. Topics include but are not limited to:

- » National Mapping Agencies (NMAs): practices with VGI and managing of spatial information; theory, applications and best practice studies
- » Land management tools and innovative spatial information solutions addressing global and national challenges
- » Utilization of VGI and crowdsourcing with SDI and SIM on collection, dissemination, analysis, maintenance, and visualization
- » Applications of VGI in managing the built environment, legalization monitoring, property registration, planning reforms
- » Early warning systems, climate change, natural disasters and environmental protection: adapting working paradigms; case studies and possibilities
- » Tackling VGI and PM credibility issues: interoperability, uncertainty, quality, authenticity, validity
- » PM and Citizens Science case studies and processes

# 16NOVEMBER MONDAY

#### 19:00 - 20:00

WELCOME RECEPTION COMMISSION 3 AND COMMISSION 7

Venue Kudeta Hotel Bar Le Méridien



Le Méridien St. Julians Hotel & Spa 39 Main Street, Balluta Bay · St. Julians, STJ1017 · Malta

20:30 - 23:00 Piccolo Padre Restaurant

# 17NOVEMBER TUESDAY

#### **08:45 - 12:30 MEET AT LEVEL 0 LE MÉRIDIEN** VALLETTA WALKING TOUR AND LUNCH AT UBISTRO RESTAURANT FOR ACCOMPANYNG PERSONS

#### 08:30 - 09:30 [THE GALLERY] REGISTRATION

**09:30 - 10:30 [ STUDIO 2 ]** FIG COM 3 / COM 7 INTERNATIONAL WORKSHOP "CROWDSOURCING OF LAND INFORMATION" *Opening Session -Introduction of the event Chair: Randolph Camilleri* 

## > Welcome

Randolph CAMILLERI, Local Organiser

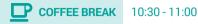
#### > Introduction

Enrico RISPOLI, Chair Commission 3 Spatial Information Management Gerda SCHENNACH, Chair Commission 7 Cadastre & Land Management

> Welcome address Chryssy POTSIOU, President of FIG

> Illustration of the Scene for Commission 7 part of event / Robin McLaren, UK

> Illustration of the Scene for Commission 3 part of event / Sagi Dalyot, Israel



### 11:00 - 12:30 [STUDIO 2]

FIG COM 3 / COM 7 JOINT TECHNICAL SESSIONS - CROWDSOURCING -CADASTRE (PART 1) Chair: Yerach Doytsher

#### **Keynote Speeches**

> Keynote speaker Commission 7 Jeff Ploetz, Cloudburst/USAID

> Keynote speaker Commission 3 Maria Attard, Malta

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Discussion

# 17NOVEMBER TUESDAY

### LUNCH BREAK

12:30 - 14:00 The Gallery

#### 14:00 - 15:30 [STUDIO 2] FIG COM 3 TECHNICAL SESSION 3.2 -SDI/SIM (PART 1) Chair: Hartmut Müller

 A Research on Maps Published on Turkish Newspapers and Experiences
Pinar Sarin - Necla Ulugtekin, Turkey

 Quality of Spatial Planning Documents published on the Internet – the Case of Poland

Agnieszka Bieda - Jaroslaw Bydlosz -Piotr Parzych, Poland

Facilitate Spatial Data Access
Christian Hickel – Maximilian Guntrum,
Germany



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COFFEE BREAK 15.30 - 16.00 The Gallery 16:00 - 17:30 [STUDIO 2] FIG COM 3 TECHNICAL SESSION 3.3 - CROWDSOURCING/VGI (PART 1) *Chair: Daniele Brancato* 

 > Person, Parcel, Power towards an extended Model for Land Registration
Peter Laarakker – Jaap Zevenbergen – Yola Zevenbergen, The Netherlands

> GIS 3D: serracapriola.net Pietro Grimaldi, Italy

 Innovative Cartographic Displays on Mobile Devices to facilitate Crowdsourcing and Operations Management Activities
Panos Lolonis, Greece

Discussion

17:45 - 18:45 COMMISSION 3 ANNUAL MEETING

> DINNER BIANCO'S 20 RESTAURANT 20

s 20:15 - 23:00 Commission 3

# 18NOVEMBER wednesday

08:45 - 12:30 MEET AT LEVEL 0 LE MÉRIDIEN CRAFTS VILLAGE AND MOSTA AND LUNCH AT UBISTRO RESTAURANT FOR ACCOMPANYNG PERSONS

09:00 - 09:45 [ STUDIO 1 ] FIG COM 3 KEYNOTE SPEECH Chair: Charalabos Ioannidis

> Keynote speaker Claire Ellul, UK Discussion

### 09:45 - 10:30 [STUDIO 1]

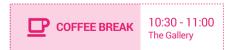
FIG COM 3 TECHNICAL SESSION 3.4 -GIS

 > Quantitative Model for Three-Dimensional Analysis of Urban Environments Indicating Qualitative Aspects
Diane Golub – Yerach Dovtsher – Dafna

Fisher-Gewirtzman, Israel

> Spatial Analysis to Evaluate the Quality of Life for Senior Citizens Ulrike Klein – Hartmut Müller, Germany

#### Discussion



# 18NOVEMBER wednesday

11:00 - 12:30 [STUDIO 1]

FIG COM 3 TECHNICAL SESSION 3.5 -CROWDSOURCING / VGI (PART 2) *Chair: Enrico Rispoli* 

 How to utilize the Citizens to gather VGI as a Support for 3D Cadastre Transition
Nikola Vučić – Vlado Cetl – Miodrag Roić, Croatia

#### A Comparison of address Geocoding Techniques – Case Study city of Zagreb, Croatia

Vlado Cetl – Tomas Kliment – Tomislav Jogun, Croatia

#### A New Model for Cadastral Surveying using Crowdsourcing

Konstantinos Apostolopoulos – Maria Geli – Poli Petrelli – Chryssy Potsiou – Charalabos Ioannidis, Greece

 Addressing Legal-Institutional ICZM implementation Barriers through the Use of Public Participatory GIS (PPGIS) – A Case Study: Safeguarding Open Spaces in Malta's Grand Harbour / Dirk de Ketelaere – Anna Spiteri, Malta





12:30 - 14:00 The Gallery

#### 14:00 - 15:30 [STUDIO 1]

FIG COM 3 / COM 7 JOINT TECHNICAL SESSIONS - INNOVATIONS IN BUILDING LAND INFORMATION SYSTEMS (PART 2) *Chair: Robert Foster* 

> Open Tenure, Flossola.Paul Munro faure, UN-FAO

JUSAID MAST Project Tanzania.
Jeff Euwema, Cloudburst

#### › User-Generated Data for Analyzing Road-Type Use of Cyclists

Jody Sultan, Israel – Gev Ben-Haim, Israel – Jan-Henrik Haunert, Germany – Sagi Dalyot, Israel

A Multi-Dimensional Land Information
System for upgrading Urban Settlements
Chryssy Potsiou – Charalabos Ioannidis,
Greece

#### Discussion



#### 16:00 - 17:30 [STUDIO 1] FIG COM 3 TECHNICAL SESSION 3.6 -SDI/SIM (PART 2) Chair: Cromwell Manaloto

 Mapping Development of two Countries: Italy and Turkey
Gianrico Baldini, Italy – Pinar Sarin, Turkey

#### Integration of Energy Data in a City GML Model

Tassos Labropoulos – Dimitra Manta – Katerina Tsangouri – Efi Dimopoulou, Greece

#### Post Disaster Crack Assessment of Building Parts using Terrestrial Data and Building Information Models

Reem Zeibak, Sagi Filin – Rafael Sack, Israel

C Discussion

# CINNER BIANCO'S RESTAURANT

20:15 - 23:00 Commission 3 Commission 7

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# 19NOVEMBER THURSDAY

08:45 - 12:30 MEET AT LEVEL 0 LE MÉRIDIEN HARBOUR CRUISE AND SLIENA AND LUNCH AT UBISTRO RESTAURANT FOR ACCOMPANYNG PERSONS

09:00 - 11:00 [STUDIO 2]

FIG COM 3 / COM 7 JOINT TECHNICAL SESSIONS - MANAGING THE PRIVACY AND SECURITY OF LANDS RIGHTS INFORMATION (PART 3) Chair: Gerda Schennach

> Should Volunteered Geographic Information on Land Parcels be Formalized or coexist with the Formal Land Administration Systems? David Siriba. Kenva – Sagi Dalvot, Israel

#### Crowdsourcing: Privacy and Protection of Personal Data, the Italian Declaration of Internet Rights

Alessandro Dalmasso - Daniele Brancato -Luca Dal Buono – Cromwell Manaloto, Italy

#### > 3d Cadastre Modelling of Customary Real Property Rights

Efi Dimopoulou - Dimitrios Kitsakis - Christos Apostolou, Greece

#### > Panel discussion

#### Discussion

### **COFFEE BREAK**

11:00 - 11:30 The Gallery

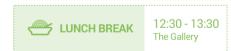
11:30 - 12:30 [STUDIO 2] FIG COM 3 / COM 7 JOINT CLOSING SESSIONS - HIGHLIGHTS OF THE CONFERENCE AND CLOSING (PART 4)

› Proclamation of the best paper of Commission 3

#### > Summary - Conclusions

Enrico RISPOLI, Chair Commission 3 Spatial Information Management Gerda SCHENNACH, Chair Commission 7 Cadastre & Land Management

#### > Thanks



### 14:00 - 17:00

TECHNICAL EXCURSION TO HAGA QIM TEMPLES Chair: Randolph Camilleri

Haga Qim Temples Triq Hagar Qim, Il-Qrendi QRD 2501, Malta



18:15 - 23:00 MDINA TOUR PLUS FAREWELL DINNER

> Departure from Le Méridien 18.15

# 20NOVEMBER FRIDAY

08:00 - 17:00 POST SEMINAR TOUR TO THE ISLAND OF GOZO

> Departure from Le Méridien 8.00 hrs



Island of Gozo / Malta



19:30 - 21:30

# SCIENTIFIC COMMITTEE

Sagi Dalyot	Technion - Israel Institute of Technology	Israel	Chair
Klaus Boehm	University of Applied Sciences Mainz	Germany	PC Member
Hartmut Müller	HS Mainz University of Applied Sciences	Germany	PC Member
Vyron Antoniou	HMGS	Greece	PC Member
Kai-Christian Bruhn	University of Applied Sciences Mainz	Germany	PC Member
Yerach Doytsher	Technion - Israel Institute of Technology	Israel	PC Member
Charalabos Ioannidis	National Technical University of Athens	Greece	PC Member
Joep Crompvoets	KU Leuven - Public Management Institute	Belgium	PC Member
Gev Ben-Haim	Technion - Israel Institute of Technology	Israel	PC Member
Rahmi Nurhan Çelik	İstanbul Technical University	Turkey	PC Member
Danny Vandenbroucke	SADL/KU Leuven	Belgium	PC Member
Jan-Henrik Haunert	Universität Osnabrück	Germany	PC Member
Robert Seuss	FH Frankfurt	Germany	PC Member
Efi Dimopoulou	National Technical University of Athens	Greece	PC Member
Izabela Karsznia	Warsaw University	Poland	PC Member
Laszlo Zentai	Eötvös University	Hungary	PC Member
Bela Markus	UWH GEO - Institute of Land Development	Hungary	PC Member
Peter Van Oosterom	Delft University of Technology	The Netherlands	PC Member
Hardly Lehmkuehler	HFT Stuttgart	Germany	PC Member
Bashkim Idrizi	Geo-SEE	FYROM	PC Member
Chryssy Potsiou	National Technical University of Athens	Greece	PC Member
Enrico Rispoli	Consiglio Nazionale Geometri e Geometri Laureati	Italy	PC Member
Frances Plimmer	FIG	Kenya	PC Member
David Siriba	Department of Geospatial and Space technology, University of Nairobi	Kenya	PC Member
Lijuan Zhang	Technion - Israel Institute of Technology	Israel	PC Member



### CONTACTS

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