



## *Invitation*

**Workshop Joint FIG Commissions 3 and 8**  
**PRATO, ITALY 20-21 JULY 2021**

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Please, join us and take part in the joint Workshop of FIG Commissions 3 and 8 on the theme:  
“Spatial Information Management to optimize Spatial Planning and Sustainable Development”



Consiglio Nazionale  
Geometri e Geometri Laureati



The workshop will take place as part of the XII edition of the "International Summer School", organized by Comitato Internazionale di Fotogrammetria Architettonica.

The coronavirus pandemic has put a strain on the world population.

The urgent need to improve the habitat to better protect themselves within cities leads governments to focus on policies to protect the environment and the territory. But what are the planning policies to be implemented to overcome this crisis?

The help that digital and geo-information technologies can provide, in terms of ideas for the future, are essential for restarting development that respects our planet.

The Prato conference, in the context of global environmental policies, can be important to encourage and publicize planning works and proposals based on the management of spatial data as a paradigm of the urban regeneration project and opportunities for sustainable city development.

Practical cases of strategies to transform and improve cities on themselves will be illustrated, avoiding the recourse to the occupation of further green and free land that would otherwise be destined for new urbanization; thus focusing on the regeneration of the existing degraded building heritage and the private and public spaces that fall within the urban perimeter.

Urban regeneration, which aims at a welcoming habitat, climatically neutral and efficient in the use of resources, is affected by the problems related to the rigidity of urban spaces, especially overcrowded ones, and by the need for huge economic resources. Could the enhancement of degraded urban areas be the best way to optimize existing and future cities?

The Workshop will be held both in presence, ensuring compliance with safety, and on line (virtual meeting).

The scientific scope and the papers that will be presented will also give the perception of what it means to be a surveyor in the world.



## Each recovery project starts from the knowledge of the territory

Historically, every pandemic has led to the reconfiguration of urban spaces to reduce the density of bodies: it happened in the seventeenth century with the plague, in the last century with the Spanish flu, today with Covid-19; the need to contain the virus has made physical distancing acceptable, but for a limited period: once the most acute phases of the infection have been overcome, in every age the urban centers have returned to being the epicenter and beating heart of all human activities.

Starting from this reflection, the need shared by urban planners, sociologists and local professionals is first of all to plan urban areas correctly, improving their layout and liveability in the long term by integrating nature into the urban fabric, preserving their biodiversity; recovering the abandoned villages of Italy and, with them, the sense of community; redeveloping the suburbs, also through the enhancement of cultural specificities.

And, above all, creating a healthier and more balanced relationship with the territory.

To do this, it is essential to read it and interpret it with the tools - increasingly advanced, sophisticated and capable of processing large volumes of data - which provide us with an ancient and surprising discipline such as geography: by changing the way we live, produce and consume, the pandemic has also changed the landscapes and everything that surrounds us, and it is only by analyzing this new reality that it will be possible to proceed with planning at the service of sustainable management of the territory, correcting the errors of the past and preventing future problems.

**Maurizio Savoncelli - Italy**

President of the National Council of  
Surveyors and Graduated Surveyors of Italy



Dear Colleagues and friends,

When you read this the workshop on “Spatial information management to optimize Spatial planning and Sustainable development” jointly organized by the FIG-Commissions 3 and 8 and the XII edition of the “International Summer School” are about to start.

As president of the International Federation of Surveyors (FIG) it is a great pleasure and honour to write a few words of welcome.

The times are quite difficult. The entire world is currently threatened by a global disease called COVID 19. We need to act carefully and keep distance. But there is some light at the end of the tunnel. Vaccines from several manufacturers and countries are arriving and we can hopefully get back quite soon to a kind of normal living.

In times of rapid technological changes combined with new challenges like sea level rise or climate change (in addition to the above mentioned COVID19) it is of high importance to organize workshops and summer schools which are giving answers to the questions on the table.

The Prato conference, in the context of global environmental policies will publicize planning works and address the urban regeneration and opportunities for sustainable city development. Practical cases of strategies for the transformation of cities will be shown. The summer schools of Consiglio Nazionale Geometri e Geometri Laureati have a great and long tradition. The curriculum, the concept and the participation of students from almost all over the world is creating a unique adventure of learning, meeting and working together.

I wish you all a safe but interesting workshop and also a fascinating summer school. Stay safe and negative (in terms of the COVID-test) but be positive in all other aspects! With my best regards

**Rudolf Staiger - Germany**

President of the International  
Federation of Surveyors (FIG)

I am honored to host the “Joint Workshop FIG Commissions 3&8 2021” on 20 and 21 July. The Board of Surveyors and Graduated Surveyors of Prato welcomes those who can participate in presence and those who will follow the work via videoconference from their homes. Certain that Prato can welcome the planned seminar activities in the best possible way, I wish everyone good work.

See you soon.



**Alessandro Pieraccini - Italy**  
President of the Provincial Board of  
Surveyors and Graduated Surveyors of Prato

Welcome to the FIG Commission 3 and 8 Joint Workshop: Spatial Information Management to Optimize Spatial Planning and Sustainable Development being held as part of the XII edition of the International Summer School organized by Comitato Internazionale de Fotogrammetria Architettonica (International Committee for Architectural Photogrammetry).

The FIG Foundation was established to raise funds to secure a sustainable future for surveyors with the purpose of funding of educational and capacity building projects and scholarships. Objectives include promoting high standards of education and training for surveyors and facilitating continuing professional development.

This year marks the 20th anniversary of the FIG Foundation. Over these first 20 years the Foundation has awarded 240 grants to recipients in 75 countries, totalling over 350,000 EUR.

Once again, the FIG Foundation is proud to support in the funding of FIG Commission activities and the International Summer School.

I had hoped to be able to attend in person but, unfortunately due to the COVID-19 pandemic, I am unable to do so. I hope to be able to in the future.

I wish you all a very productive and successful workshop and summer school!



**John Hohol - USA**  
President FIG Foundation



Everything happens somewhere, spatial planning aims at making something happen somewhere. Location is a key indicator that links spatial planning to spatial information.

However, the power of spatial information management to support spatial planning is not yet fully exploited. This joint workshop of two FIG commissions, on Spatial Information Management and on Spatial Planning and Development, together with the XII International Training Summer School aims to be a contribution to narrowing this gap.



**Hartmut Müller - Germany**  
Chair of FIG Commission 3  
Spatial Information Management

Again in 2021 a Summer School in Italy will take place, this time in Prato.

As part of the Summer School a workshop organised jointly by FIG Commission 3, Spatial Information Management, and Commission 8, Spatial Planning and Development on “Spatial information management to optimize Spatial planning and Sustainable development” will take place.

GIS tools hold great potential to support spatial planning practice. Ongoing developments in digitalization of data sets and communities further open up possibilities to apply GIS tools in spatial planning processes. The latter typically follow a cyclic pattern: (1) development of spatial policies, (2) policy implementation, and (3) monitoring and evaluation. Spatial policies range from strategic visions to land use plans that at operational level determine and distribute land use types. Together with legislation and rules, these spatial policies constitute the framework for implementation of spatial policies. Programmes, projects, enforcement mechanisms and the like can be used to implement spatial policies, depending on the situational context. Finally, monitoring and evaluation is necessary to measure whether policy aims are met or need to be adapted, which may lead to the development of new spatial policies.



**Ms. Marije Louwsma - The Netherlands**  
Chair of FIG Commission 8  
Spatial planning and development



The techniques for collecting, coordinating and processing the volume of data concerning the territory are constantly expanding with increasingly innovative and economic methodologies. But the speed of their management and the variety of sources raise new challenges. Geographic Information Systems (GIS) are designed to correlate land-related data across the planet; to make this information easy to view, analyze and share.

The use of GIS in this area has become so widespread that it constitutes a science in support of city planning while respecting the ecology and saving of the territory.

To discuss these topics, professionals and university professors will intervene, experts in the field of land registry and data management of the territory, coming from the 5 continents for an approximate number of 30 to 40 delegates, as well as a large number of Italian surveyors who will follow in video-conference.

The topics to be discussed are interesting to all surveyors.



**Enrico Rispoli - Italy**

Chair of joint WG Commissions 3&8

General Secretary of Consiglio Nazionale Geometri e Geometri Laureati

Tuesday July 20

# WORKSHOP PROGRAMME

10:00 - 11:00

## Introduction of the Summer School

Welcome speech by **Pietro Grimaldi** - Politecnico di Bari - Italia Coordinator of "International Training Summer School"  
Students and teachers

14:30 ☞ Welcome coffee

14:30 - 15:30

## Opening Ceremony

Guests, VIPs, Audience

Chair  
**Enrico Rispoli**

**Alessandro Pieraccini**

President Collegio Geometri e Geometri Laureati della provincia di Prato

**Matteo Biffoni**

Mayor of Prato

**Erica Mazzetti**

Camera Deputati - Member of VIII COMMISSIONE (AMBIENTE, TERRITORIO E LAVORI PUBBLICI)

**Maurizio Savoncelli**

President Consiglio Nazionale Geometri e Geometri Laureati

**John Hohol**

President of FIG Foundation

**Vladimir Krupa**

President of the Council of European Geodetic Surveyors - CLGE

**Welcome by**

Hartmut Müller (chair commission 3), Marije Louwsma (chair commission 8)

Enrico Rispoli (Chair Joint Working Group Comm. 3 and 8)

During the participation in presence, the prevention and control rules against the spread of the COVID-19 virus will be respected. For this purpose, only authorized and invited persons will be allowed to participate in presence.

15:30 | Session 1 **The geo-information and spatial planning nexus**  
17:00 |

Chair  
**Markus Schaffert**

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**Marije Louwsma** The role of geo-information in spatial planning  
The Netherlands

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**Hartmut Müller** Spatial information for spatial planning. Data, modelling, analysis  
Germany

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**Ana Cornelia Badea** Aspects about Spatial Information Management to optimize  
Romania  
Spatial Planning and Sustainable Development

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**Maurizio Ambrosanio** Automatic real-time update and dynamic online services  
Italy  
Direzione Centrale Servizi  
Catastali, Cartografici e di  
Pubblicità Immobiliare  
Italian cadastral cartography system

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Tuesday July 20

17:00 | Session 2

18:30 |

## Spatial information management to optimize Spatial planning and Sustainable development

Chair  
**Cromwell Manaloto**

**Jürg Luethy**  
Switzerland

Benefits of a nation-wide multi-purpose  
building data set for land management

**Cornel Paunescu**  
Romania

GIS for local governments

**Hassan Osanloo**  
Iran

The burning earth: the civilization of the desert,  
elements of sustainable architecture

**Cemal Kivilcim**  
Turkey

Young surveyors in geo-information management

**Claire Buxton**  
Canada

The Volunteer Community Surveying Programme

18:30 ☞ Aperitif/Welcome drink - Free time

Wednesday July 21

15:00 | Session 3  
17:00 |

## Spatial information management to optimize Spatial planning and Sustainable development – 2

Welcome Speeches by

Francesco Puggelli - Presidente della Provincia di Prato

Rudolf Staiger - President of International Federation of Surveyors - FIG

Chair  
**Hartmut Müller**

**Chryssy Potsiou**

Greece

COVID-19 Recovery Action Plan for Informal Settlements in the ECE Region - Geospatial Data collection and management: a cross-cutting theme applied across many of the individual Policy Areas

**A. Albino Frezza**

Italy

GISCAD-OV

Project overview - GEOWEB S.p.A - Consultant Project Management Unit

**Roberto Capua**

Italy

GISCAD-OV

Innovative technical aspects and solutions - SOGEI S.p.A. - Strategy, Innovation & Research

**Magdalena Grus**

The Netherlands

Towards Digital Twin of Living Environment

**Cemre Şahinkaya**

Turkey

Urban Regeneration as a part of Spatial Planning and Participation: Cases from Turkey and Germany

**Markus Schaffert**

Germany

Planning for aging neighborhoods. Challenges in (rural) Germany and smart (geospatial) solutions.



## LOCATION


Prato is one of those Tuscan cities that offers countless ideas for a cultural visit, rich as it is in places of interest. Walking through the historic center means admiring a number of precious monuments, statues and the famous Duomo. In fact, the typical environment is characterized by an austere and simple architecture that manages to surprise in some decorative elements; as in the geometric panels of the facade of the Duomo, in the "two-tone arches" and in the Bell Tower. The large portal on the side, with harmonious contrast between medieval and seventeenth-century styles, is the work of the artist Giovanni Pisano.

The Cathedral of Santo Stefano, where Filippo Lippi's frescoes are kept, but also the Church of San Francesco, in the homonymous square, the Basilica of Santa Maria delle Carceri, built on the remains of an ancient prison, or the Church of San Domenico, one of the most important monumental complexes in the city. It is an impressive building, founded in 1200, which offers a magnificent example of beggar architecture. Here austerity and sophistication go hand in hand.

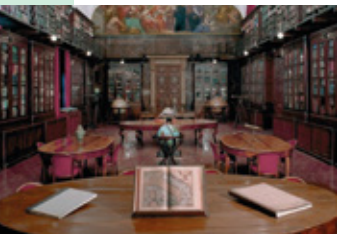
In Prato we find the northernmost of the Swabian Castles. The Emperor's Castle, the only testimony in central northern Italy of architecture from the time of Frederick II., was built after 1240. The entrance portal is particularly striking with references ranging from the typical two-tone Tuscan Romanesque Gothic to Gothic with the capitals surmounted by lions up to the classical culture of the two half-pillars.

Wednesday July 21

# TECHNICAL PROGRAMME

10:00 - 11:00  **Firenze VISIT TO THE I.G.M.** Istituto Geografico Militare/Military Geographic Institute

11:00 - 14:00  **Free Time in Firenze and back to Prato**



## THE MILITARY GEOGRAPHIC INSTITUTE TODAY

Cartographic body of the Armed Force and cartographic body of the state. The Military Geographical Institute preserves a historical cartographic heritage consisting of about 36,000 maps, of which 8,000 pre-unification and 28,000 created starting from 1861. Furthermore, the need to integrate and standardize territorial information with NATO and European partners has placed the IGM at the center of an articulated network of international relations.

Reservations will be made on site at the venue of the event.



## VENUE OF THE WORKSHOP

Palazzo delle Professioni  
Collegio Geometri e Geometri Laureati  
Via Pugliesi, 26, 59100 Prato PO



## HOTEL INFO

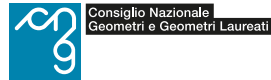


**Art Hotel Milano**, Via Tiziano, 15 Prato  
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+39 0574 23371  
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**Hotel San Marco**, Piazza San Marco, 48 Prato  
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+39 0574 21321  
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## ORGANIZATION AND INFO



**Segreteria Internazionale CNGeGL - Italy**  
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### REGISTRATION LINK

[https://mm-group-it.zoom.us/webinar/register/WN\\_sDZqeJ30Tp-zRcMggh6bAA](https://mm-group-it.zoom.us/webinar/register/WN_sDZqeJ30Tp-zRcMggh6bAA)