



FIG Working Week 2024

19-24 May

Accra, Ghana

Your World, Our World:
Resilient Environment
and Sustainable
Resource Management
for All

Presented at the FIG Working Week 2024,
19-24 May 2024 in Accra, Ghana

The Role of Geodetic Surveyors in Disaster Management

Duncan MOSS (United Kingdom), Vladimir KRUPA (Croatia) and Michalis KALOGIANNAKIS (Greece)

Council of European Geodetic Surveyors (CLGE)

Technical Programme TS03E: Geo-Spatial Intelligence for Smart and Sustainable Settlements

Monday, 20 May 2024 - 14:30 to 16:00 - Odwira, La Palm

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IX CLGE CONFERENCE OF EUROPEAN SURVEYOR THE ROLE OF GEODETIC SURVEYORS IN DISASTER MANAGEMENT

9^e CONFÉRENCE CLGE DU GÉOMÈTRE EUROPÉEN LE RÔLE DU GÉOMÈTRE DANS LA GESTION DES CATASTROPHES

PARIS, THURSDAY 9 NOVEMBER 2023
PARIS, JEUDI 9 NOVEMBRE 2023



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Activities of Geodetic Surveyors in Disaster Management in France



L'auscultation thermique aéroportée

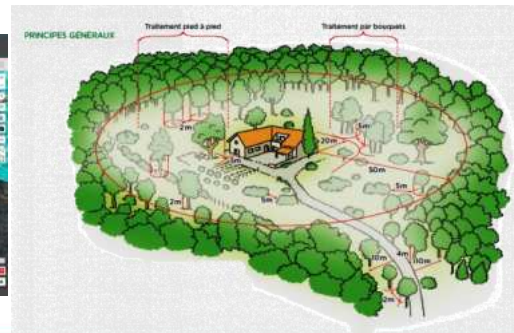
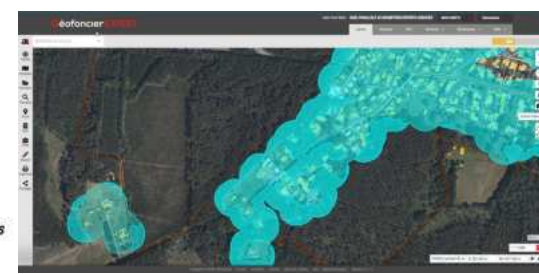
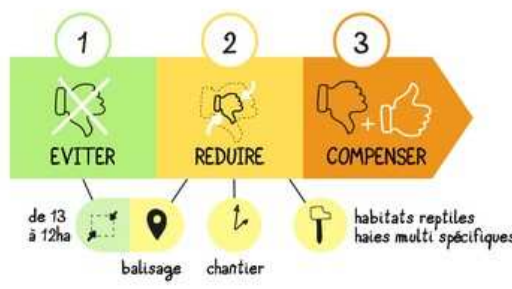




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The Role of the Surveyor in Disaster Preparedness

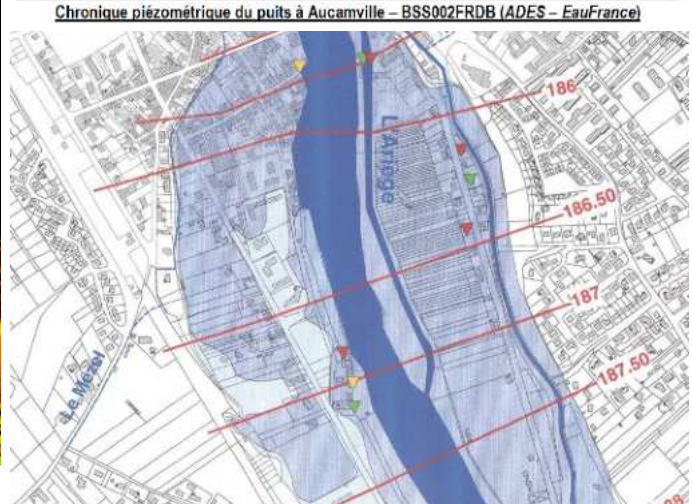
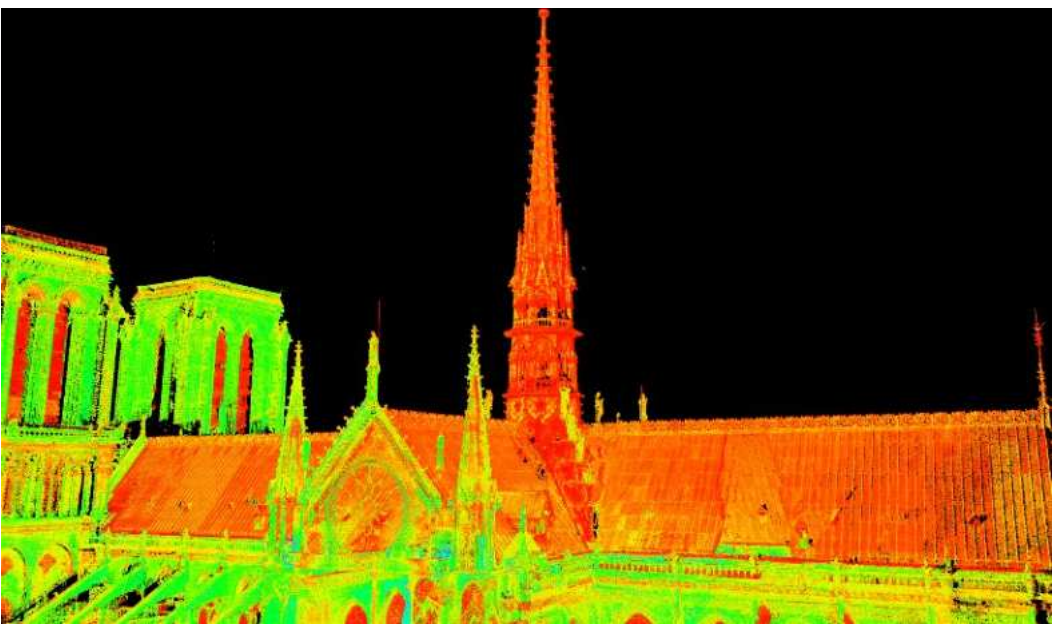
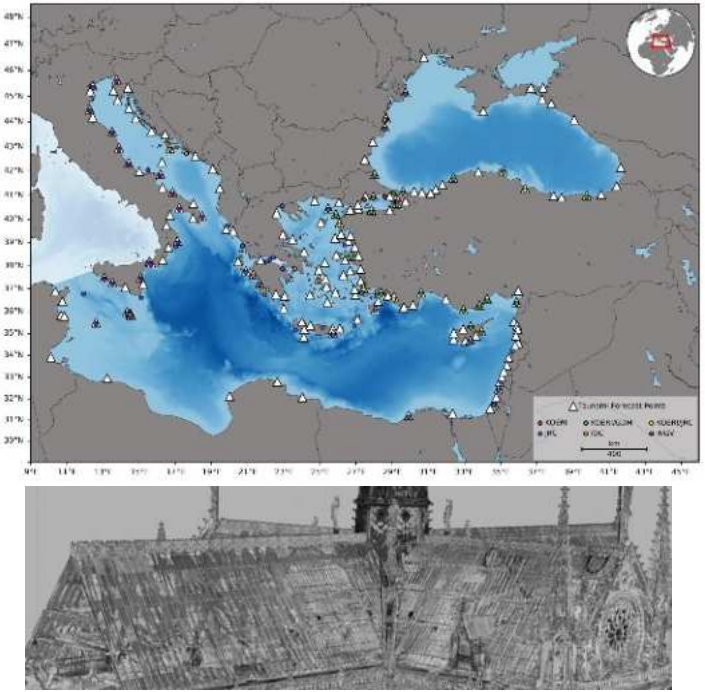




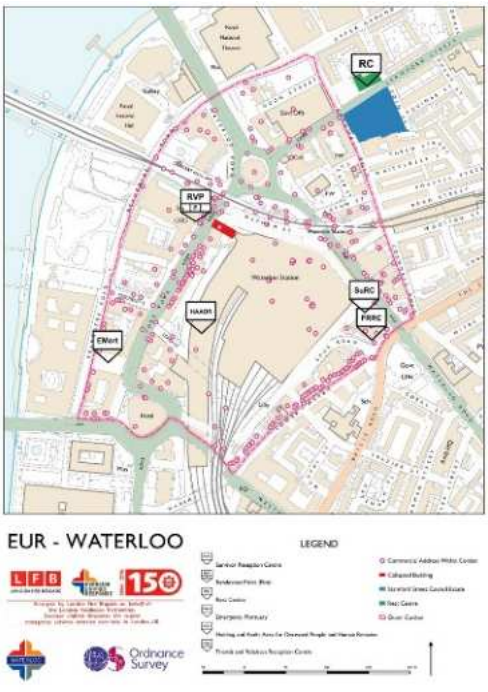
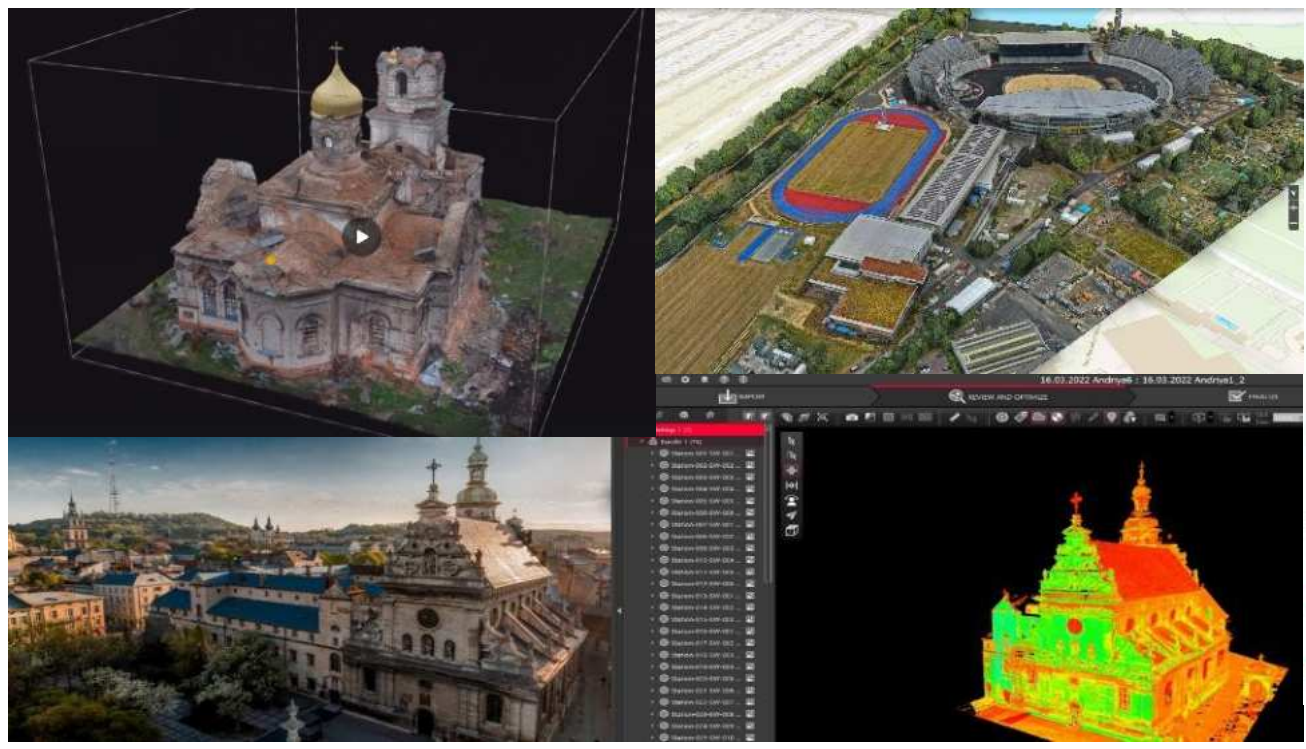
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The Role of the Surveyor in Disaster Response



Copernicus
Europe's eyes on Earth

Rapid mapping and SAR activities

Fast provision to understand the extension and context of the damage from the event



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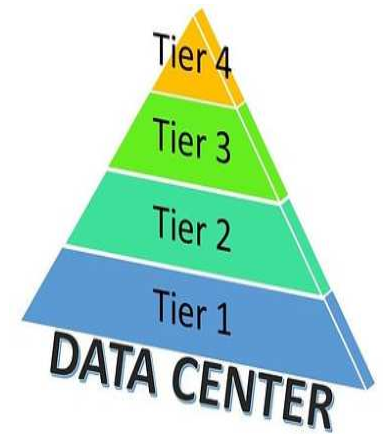
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The Role of the Surveyor in Disaster Recovery



Surveying Office at Kahramanmaraş-Elbistan



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Moderated Panel Discussion



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**THE ROLE OF GEODETIC SURVEYORS
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PARIS, THURSDAY 9 NOVEMBER 2023
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Paris Declaration

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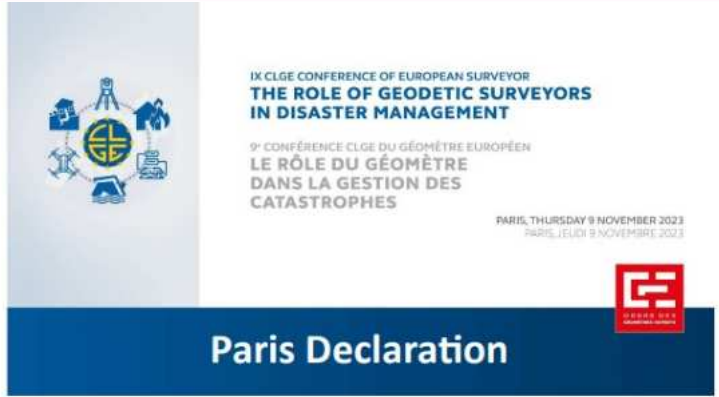


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as prepared during the IX CLGE Conference of the European Surveyor 'The Role of the Geodetic Surveyor in Disaster Management' and CLGE General Assembly from 9th to 11th November 2023.

The report '2022 Disasters in Numbers' released by the Centre for Research on the Epidemiology of Disasters highlights the huge challenges and threats that we all face. The Emergency Event Database EM-DAT recorded 387 catastrophic events and disasters worldwide in 2022 resulting in the loss of 30,704 lives and affecting 185 million individuals with economic losses totalled around US\$ 223.8 billion. Furthermore, in February 2023 the earthquake in south-eastern Türkiye caused a loss of more than 50,000 lives and an economic loss of US\$109 billion.

As a result, developing the data, tools, processes, frameworks, and best practice to manage natural disasters more effectively is becoming an increasingly urgent global priority. The geodetic profession provides knowledge and skills that can certainly contribute disaster prevention and remediation.

To be useful and effective, we need to adapt our knowledge and skills to the requirements of the disaster management process and to prepare 'disaster management ready' solutions and ways of working.

The Conference and General Assembly brought together surveyors, geospatial experts, and subject matter experts from across the public, private, and academic sectors to share experience and best practice and to consider the

increasingly important role that geodetic surveyors should play both now and in the future in the field of disaster management.

This Conference concludes and acknowledges that:

- Disasters, whether natural or man-made, have become more frequent, more severe, and more widespread in recent years, affecting more people than ever before.
- The reasons can vary, and include climate change, population pressure, and direct or indirect human action.
- The range of threats and disasters is constantly evolving and increasing for example the increasing range of technological risks.
- That we are now experiencing a permacrisis.
- Disaster management is a multi-disciplinary activity involving a variety of actors and professions from the public, private, voluntary, and academic sectors.
- Geodetic surveying, geospatial data, and applications are increasingly critical to disaster preparedness, response, recovery, and reconstruction.
- What our profession can offer in this field needs to be more widely understood.

Members of the Council of European Geodetic Surveyors (Comité de Liaison des Géomètres Européens) who gathered in Paris (FR) from 9th to 11th November 2023, during the IX CLGE Conference of the European Surveyor - 'The Role of Geodetic Surveyors in Disaster Management' and the CLGE Autumn General Assembly do hereby approve and proclaim this 'Paris Declaration' and the commitment of our profession to make a positive difference to disaster management across Europe.

We commit ourselves to:

- Continue to support our members in disaster response and reconstruction across Europe.
- Showcase how our profession can help to solve real-world problems.
- Promote the role of surveyors in the acquisition and management of high-resolution spatial data relating to cultural heritage to support preservation and reconstruction.
- Support continuing professional development relating to the application of our profession to disaster management.
- Encourage all European surveyors, especially young surveyors, to develop skills, domain expertise, and tradecraft to support effective disaster management.

- Embrace innovation and technological developments to improve disaster management.
- Invite law and decision makers to enact legislation that promotes and enforces the use of geospatial data, products, and services for disaster prevention and disaster management.
- Cooperate with kindred surveying bodies such as FIG and the Forum of Regional Bodies.
- Monitor the actions of intergovernmental bodies to understand how we can contribute to and align with their initiatives.
- Act in the public interest, to promote resilience for all European citizens and continue to support the UN-Sustainable Development Goals.

Signatories

Vladimir Krupa
CLGE President

Duncan Moss
Conference Director

Joseph Pascual
OGE President

Adopted by the CLGE General Assembly and signed in Paris on this day Saturday, 11th November 2023.

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In Memoriam – Joseph Pascual

We dedicate this paper to the memory of Mr Joseph Pascual, President of l'Ordre des Géomètres-Experts, who died suddenly on 28 February 2024. Joseph opened our Conference in Paris in November 2023. He was a signatory to the CLGE Paris Declaration and was instrumental in drafting the text for example contributing the key phrase 'That we are now experiencing a permacrisis'. Joseph Pascual devoted his entire career to promoting our profession. We remember him with appreciation and fondness and will always be grateful for his support and friendship.

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SUSTAINABLE DEVELOPMENT GOALS

International Federation of Surveyors supports the Sustainable Development Goals

Commission #3 and 8

'Spatial Information Management' and 'Spatial planning and development'

Serving Society for the Benefit of People and Planet



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