



International Federation of Surveyors  
Fédération Internationale des Géomètres  
Internationale Vereinigung der Vermessungsingenieure

Welcome  
Velkommen

# What does **FIG** actually mean?

FIG is an *acronym* and stands for

## Fédération Internationale des Géomètres

International Federation of Surveyors (English)

Fédération Internationale des Géomètres (French)

Internationale Vereinigung der Vermessungsingenieure (German)

Very important: do not say “**fig**” say

“**eff\_aiii\_dschi**” instead



WHAT

FIG represents the  
interests of surveyors  
worldwide

# WHAT



## Who is FIG?

- Established in 1878 in Paris by 7 national member associations (Belgium, France, Germany, Italy, Spain, Switzerland and UK)
- Federation of national associations and organisation
- Only international body representing all surveying disciplines
- UN-recognised Non-Governmental organisation (NGO) and non-profit organisation



*FIG – a global umbrella organisation*

# Why all this *french* in **FIG** ?

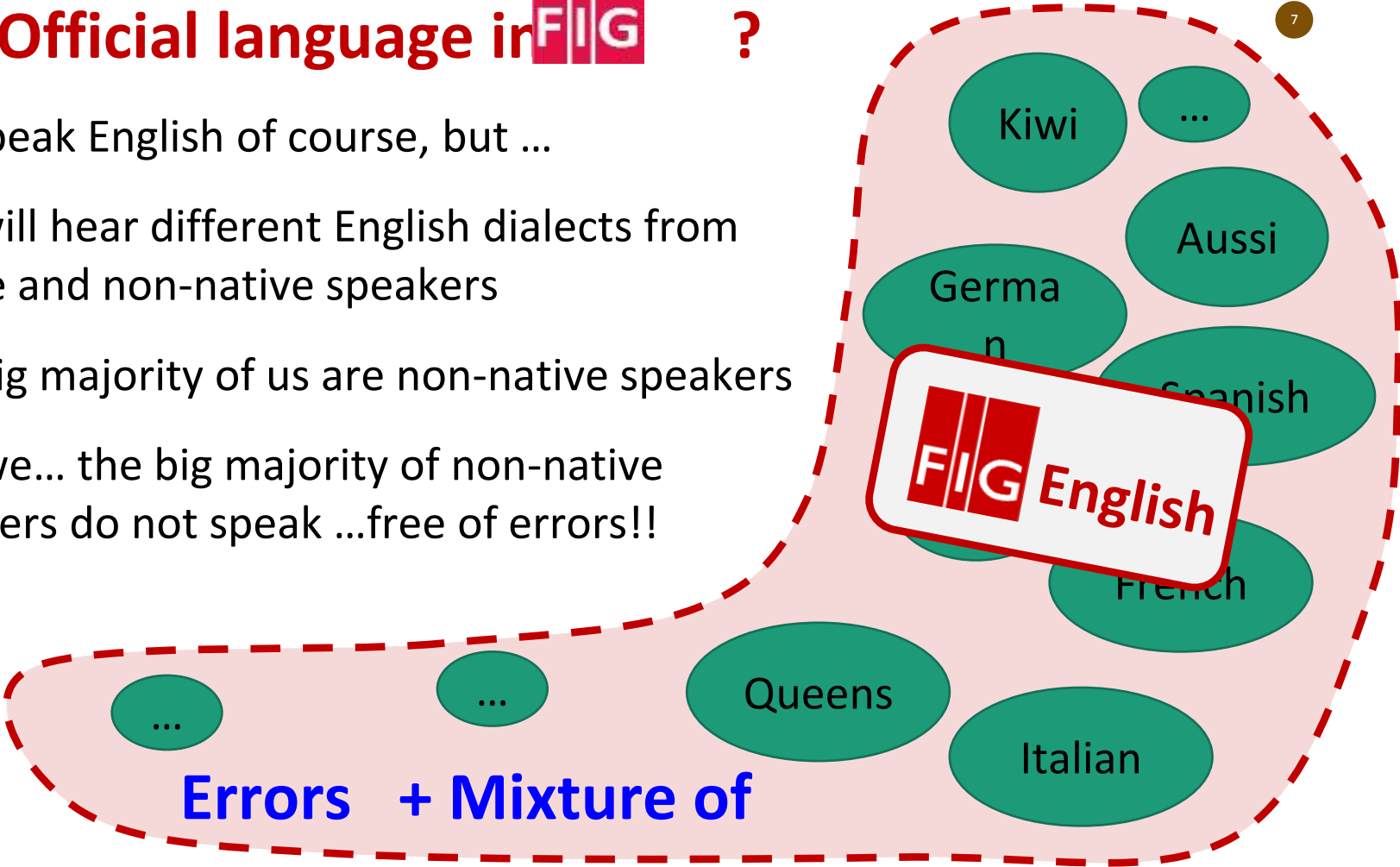
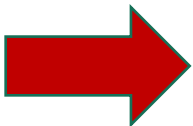
- When FIG was founded ...  
.....FRENCH was **the** language of Science, Art and diplomacy!
  - *Until 1998* FIG had 3 official languages:  
***English, French and German***
- Since 1998 ***English*** is the only official language in FIG.

# WHAT

# Official language in **FIG** ?

We speak English of course, but ...

- You will hear different English dialects from native and non-native speakers
- The big majority of us are non-native speakers
- And we... the big majority of non-native speakers do not speak ...free of errors!!



**Errors + Mixture of**

# Mission of FIG

The Mission of the International Federation of Surveyors is to ensure that the disciplines of surveying and all who practice them meet the needs of the markets and communities that they serve.





# FIG Council 2019-2022



**President  
2019-2022**

**Rudolf Staiger  
Germany**

**Vice President  
2019-2022**

**Diane  
Dumashie  
United  
Kingdom**

**Vice President  
2019-2022**

**Jixian Zhang  
China**

**Vice President  
2021-2024**

**Kwame  
Tenadu  
Ghana**

**Vice President  
2021-2024**

**Mikael Lilje  
Sweden**

**Vice President  
2017-2020**

**Orhan Ercan  
Turkey**

# FIG Council 2023-2024



**President  
2023-2026**

**Diane Dumashie  
United Kingdom**



**Vice President  
2021-2024**

**Kwame Tenadu  
Ghana**



**Vice President  
2021-2024**

**Mikael Lilje  
Sweden**



**Vice President  
2023-2026**

**Daniel Steudler  
Switzerland**



**Vice President  
2023-2026**

**Winnie Shiu,  
USA**

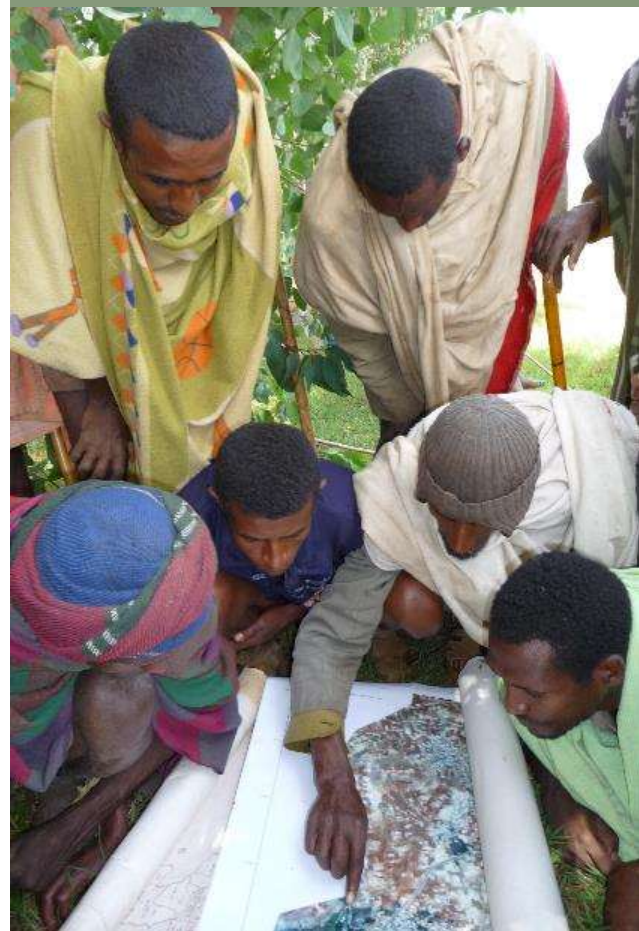
WHY

# Council Work Plan

## The FIG vision (2019-2022)

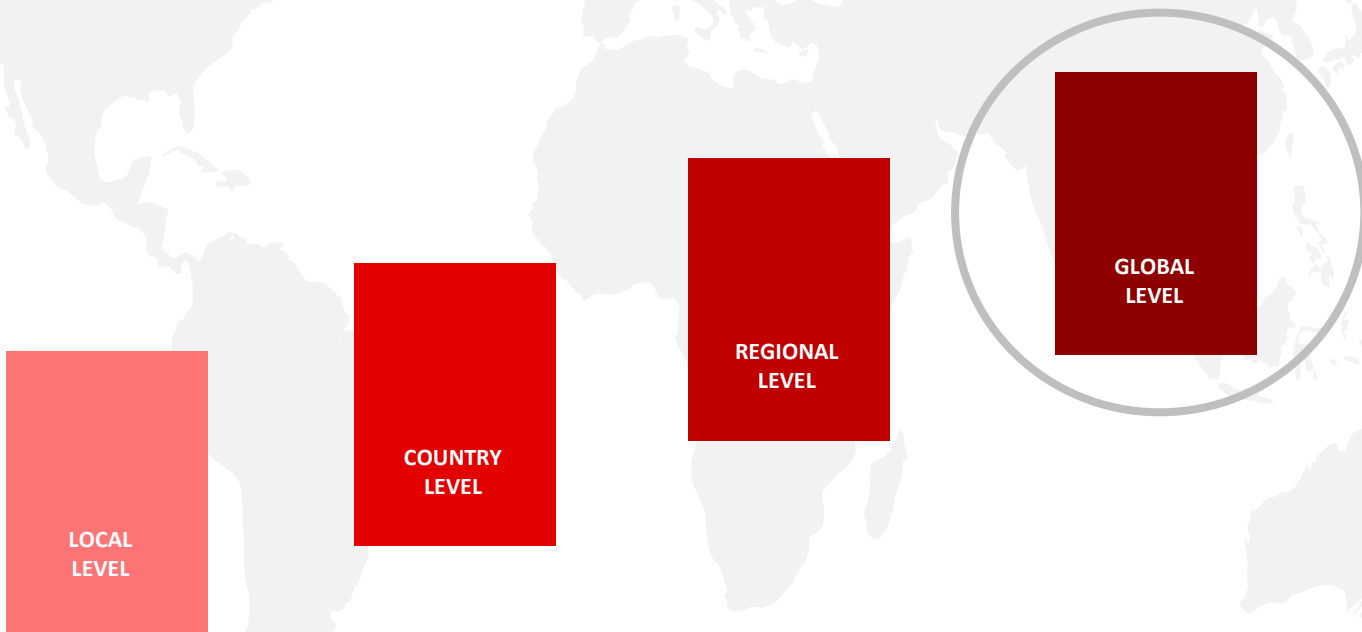
Surveying is a modern profession acting worldwide for a better infrastructure for our society and planet earth. FIG wants to keep, and even improve, its role as the premier non-governmental organisation that represents the interests of surveyors worldwide.

***"Volunteering for the Future"***



WHY

# FIG aims at addressing land issues at:



WHY

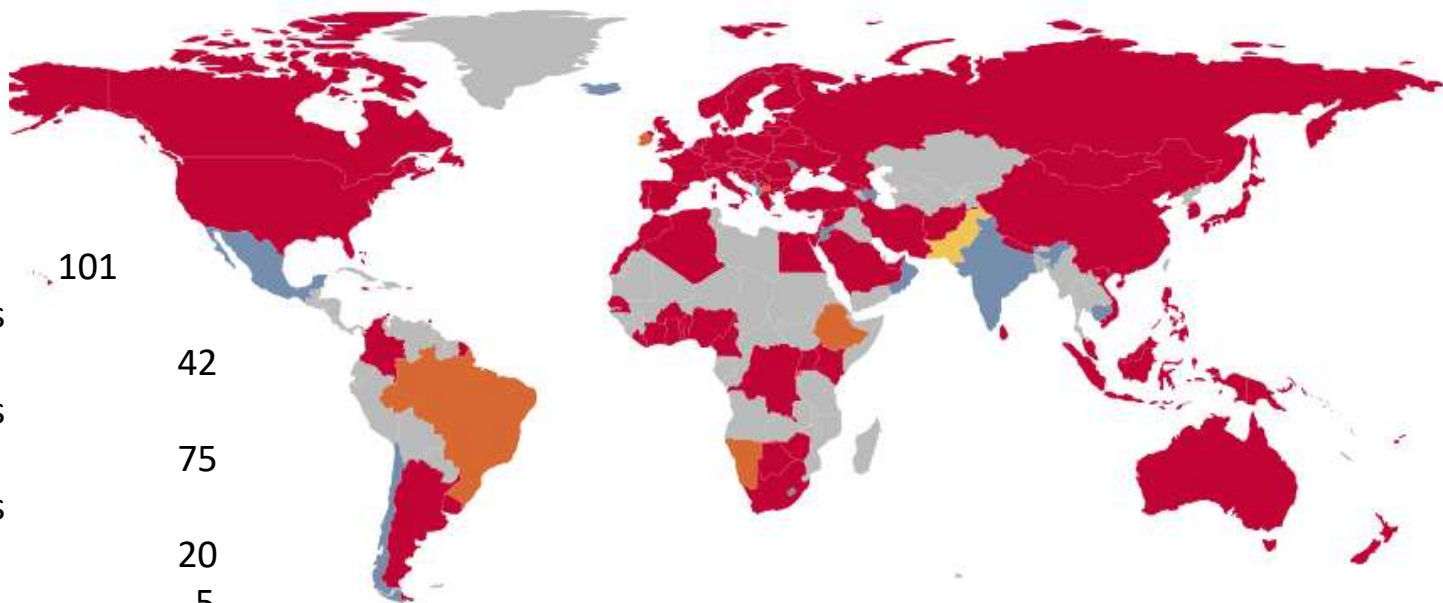
# The 2030 AGENDA

17 Goals  
169 Targets and  
230 Indicators



# Who are the members of ?

Over 120 countries represented in 2022 – more than 300,000 individuals



## Membership categories:

- Member associations from 87 countries 101
- Affiliate members from 41 countries 42
- Academic members from 49 countries 75
- Corporate members 20
- Correspondents 5
- Honorary presidents 8
- Honorary members 31
- Honorary ambassadors 2

WHO

# FIG Office – Copenhagen Since 1999 (General Assembly Decision 1998)

*Behind this  
window is the  
FIG office!*



Evelien Hertz – van  
Gelder  
Conference and  
Support Assistant



Louise Friis-  
Hansen  
Director

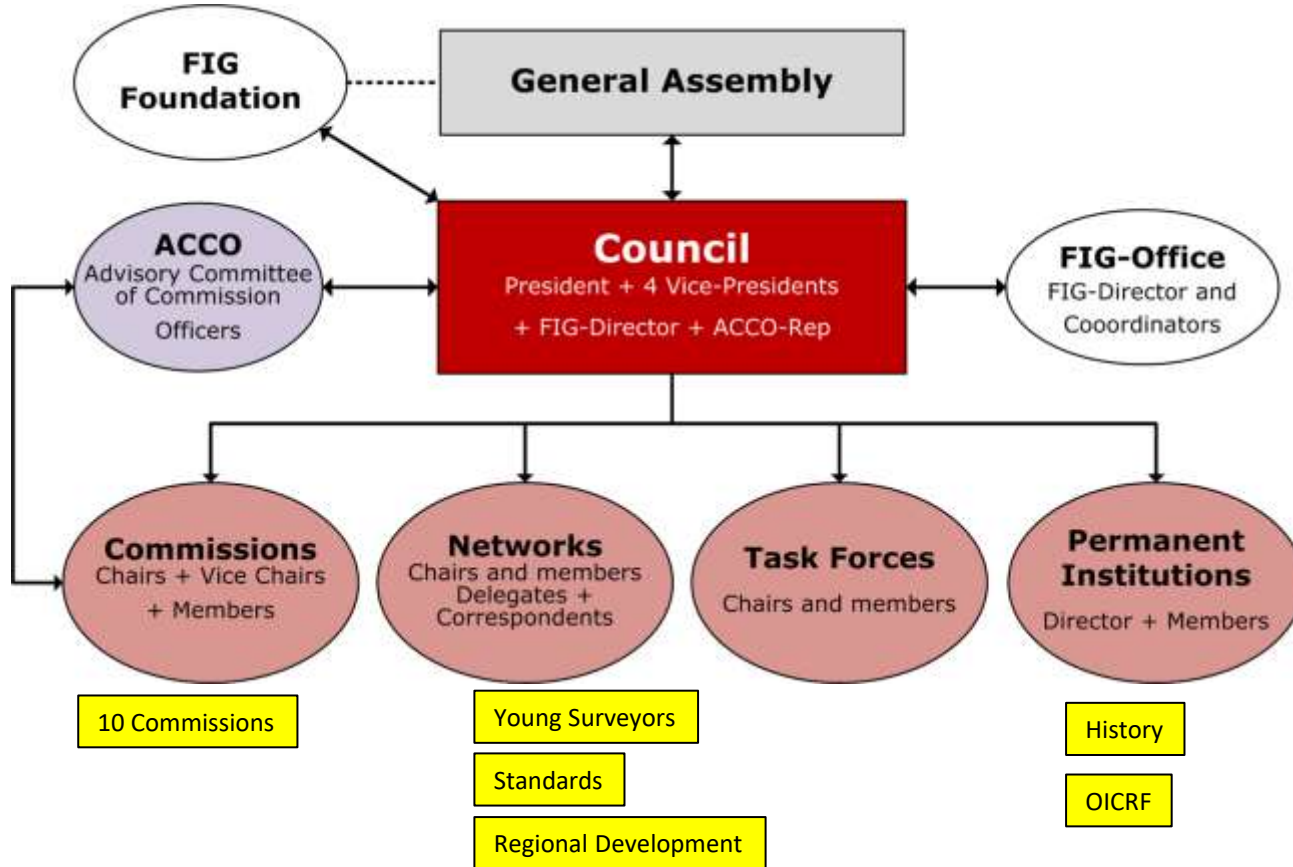


Maria Bargholz  
Finance and  
Administration



Claudia Stormoen  
Conference and  
Support Manager  
(maternity leave)

# 4- How is **FIG** organized ?





## Commission 1: Professional Practice

- International Ethics Standards (WG 1.1)
- Women in Surveying (WG 1.2)
- International Boundary Settlement and Demarcation (WG 1.3)

## Commission 2: Professional Education

- Developing academic networks for knowledge sharing (WG 1.1)
- Curriculum on the Move (WG 2.2)
- Learning styles in surveying education (Joint WG with YSN)

## Commission 3: Spatial Information Management

- Geospatial Information Infrastructure for Smart Cities (WG 3.1)
- Geospatial Big Data: collection, processing, and presentation (WG 3.2)
- User-Generated Spatial Content Empowering Communities (WG 3.3)
- 3D Cadastres (WG 3.4)
- GIS Tools for Spatial Planning (WG 3.5)
- Geospatial Next (WG 3.6)



## Commission 4: Hydrography

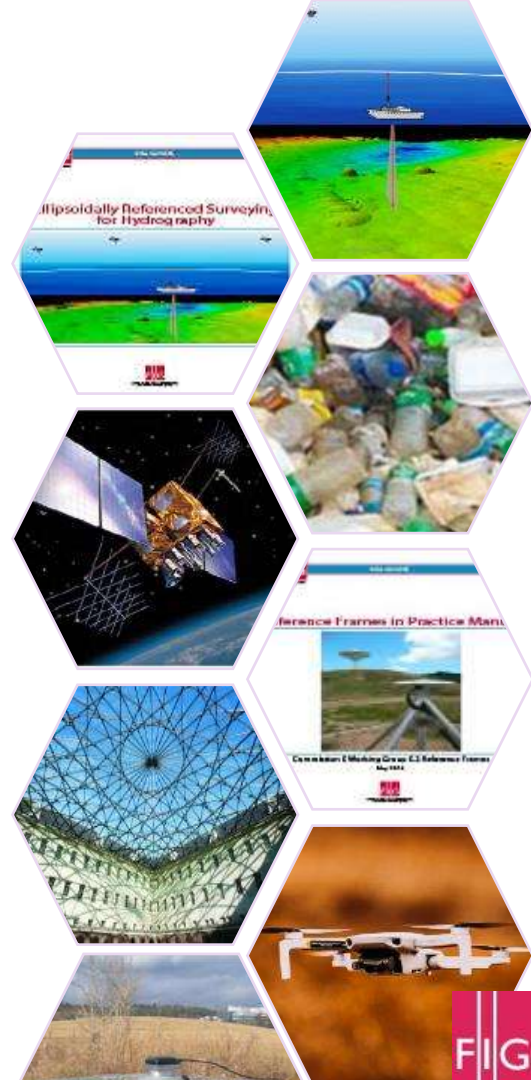
- Standards and Guidelines for Hydrography (WG 4.1)
- Blue Growth & UN Sustainable Development Goal 14 (WG 4.2)
- Mapping the Plastic (WG 4.3)
- Marine Development and Administration (WG 4.4)

## Commission 5: Positioning and Measurement

- Standards, Quality Assurance and Calibration (WG 5.1)
- 3D Reference Frames (WG 5.2)
- Vertical Reference Frames (WG 5.3)
- GNSS (WG 5.4)
- Multi-Sensor-Systems (WG 5.5)
- Cost Effective Positioning (WG5.6)

## Commission 6: Engineering Surveys

- Deformation Monitoring and Analysis (WG 6.1)
- Landslides Monitoring (WG 6.2)
- UAV in Surveying (WG 6.3)



## Commission 7:

### Cadastral and Land Management

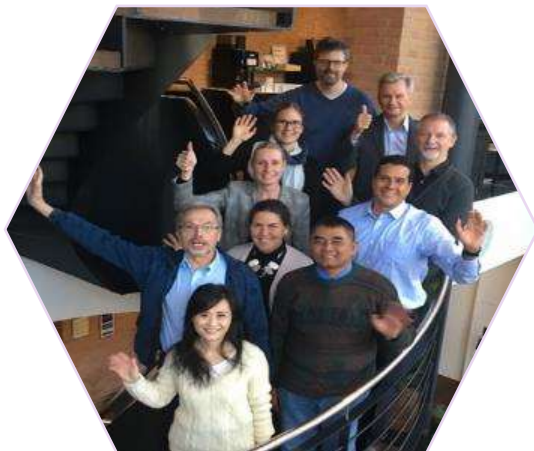
- Cadastre Technologies and Smart City (WG 7.1)
- Fit-for-purpose (FFP) implementation (WG 7.2)
- Cadastral Template 2.0 and the SDGs (WG 7.3)
- Urban Challenges (Joint WG)

## Commission 8:

### Spatial Planning and Development

- Rural – urban dependency (WG 8.1)
- GIS tools for spatial planning (WG 8.2)
- Urban Challenges (Joint WG)
- Land policy instruments for spatial development (WG 8.4)
- African Water Governance (WG 8.5)





## Commission 9: Valuation and the Management of Real Estate

- Manual and due diligence protocol for the 'Valuation of Unregistered Lands and informal property' (WG 1.1)
- Blockchain (WG 1.2)
- Urban Challenges (Joint WG)

## Commission 10: Construction Economics and Management

- International Construction Measurement Standards (WG 10.1)
- Digital Construction (WG 10.2)
- Education and Research (WG 1.3)



# FIG International Cooperation

## With **United Nations agencies**

e.g. UN Office for Outer Space Affairs (UN OOSA);

*in particular the ICG – International Committee on GNSS*

*and UN Global Geospatial Information Management (UN GGIM)*

*in particular UN Subcommittee on Geodesy WG ETCB as well as GRF WG's in regional committees*

## With **international professional organisations** in surveying disciplines as:

International Association of Geodesy (IAG);

International GNSS Service (IGS);

International Society for Photogrammetry and Remote Sensing (ISPRS) and

The Institution of Navigation (ION)

## Mission Statement:

- **Focus** on modern technologies, and technical developments and **assist** individual surveyors, engineers and GIS/LIS professionals through guidelines and recommendations, to choose and utilise those methods, technologies and instruments that are most appropriate to different applications
- Follow **technical developments** through **collaboration** with other FIG Commissions and other international organisations; participation in appropriate meetings; and the preparation of appropriate publications.
- **Support research and development** and **stimulate** new ideas in the fields of expertise represented within the commission
- **Collaborate** with manufacturers on the **improvement** of instrumentation and associated software.
- **Present** and **promote** the work of the Commission and its working groups on an on- going basis at FIG Congresses, FIG Working Weeks, FIG Regional Conferences and other relevant technical meetings and in appropriate FIG and other media.



# FIG Commission 5

-

## Positioning and Measurement

### 2019-2022



Chair: **Daniel Roman**, USA

Vice-Chair of Administration: **Kevin Ahlgren**, USA

Working Group	Chair	Co-Chair
WG 5.1: Standards, Quality Assurance and Calibration	David Martin, France	
WG 5.2: 3D Reference Frames	Nic Donnely, New Zealand	
WG 5.3: Vertical Reference Frames	David Avalos, Mexico	
WG 5.4: GNSS	Suelynn Choy, Australia	Ryan Keenan, Australia
WG 5.5: Multi-Sensor Systems (Joint w/ IAG / Com. 6)	Allison Kealy, Australia	Günther Retscher, Austria
WG 5.6: Cost Effective Positioning	Leonid A. Lipatnikov, Russia	Li Zhang, Germany

# Technical Program in Warsaw

Session:	Title:	Date-Time-Room:	Chair:	Rapporteur:	Number of Papers:
TS01C	Providing a Reference Frame for Geospatial Products	Monday, 11:30 - 13:00 Walnut + Acacia Room	Dr. Kevin Ahlgren		12 Papers
TS03B	Coordination of Global Capacity Development	Monday, 16:30 - 18:00 – Ballroom 2	Dr. Daniel Roman	Dr. Kevin Ahlgren	Panel
TS04G	Efficient GNSS Integration with Other Sensors	Tuesday, 9:00 - 11:00 – Poplar + Alder Room	Prof. Dr. Günther Retscher		13 Papers
TS06D	United Nations Committee of Experts on Global Geospatial Information Management (UN-GGIM) – an update and priorities	Tuesday, 14:30 - 15:30 – Willow Room	Mr. Mikael Lilje		Panel
TS06G	Providing Vertical Control for Hydrographers, Coastal Managers and other Disciplines	Tuesday, 14:30 - 15:30 – Poplar + Alder Room	Mr. David Avalos		4 Papers
TS08C	Ubiquitous GNSS	Wednesday, 14:30 – 16:00 Walnut + Acacia Room	Dr. Ryan Keenan		13 Papers

Regional Bodies Meeting	Tuesday, 9:00–11:00 - Rowan Room
FIG Standards Meeting (TS05F)	Tuesday, 11:30–13:00 – Sycamore + Magnolia + Cedar Room



# NETWORKS

- Standards Network
- Regional Capacity Network
  - Africa ARN
  - Asia/Pacific AP-CDN
  - (building up Latin America)
- Young Surveyors Network

# HOW

## FIG YOUNG SURVEYORS NETWORK

- To **improve** the number of young professionals participating within FIG.
- To **help** young professionals in the beginning of their careers with contacts.
- To **increase** co-operation between the commissions and the students and young professionals network.





HOW



*Map the world  
a better place*

# HOW

# Volunteer Community Surveyor Programme



### in-Country Deployments

2015 - 2021 (green)	2022-2023 (red)
6 Countries	9 Countries
2 Opportunity Partners	2 Opportunity Partners
7 OLTN Partners	8 OLTN Partners
20 VCSs	15 more VCSs
7 VCS Mentors	15 VCS Mentors

### VCSP Wisdom Workshop

3 separate workshops and MOOCs with over 260 participants from over 40 countries globally

### Knowledge Portal

Comprehensive and ambitious structure  
Technical development well underway  
On track for 2024 delivery



### VCSP e-Volunteering

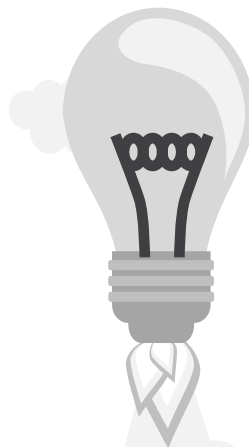
3 Mapiathons  
2 Countries, 1 global  
140+ Mappers (45+ countries)  
3 Opportunity Partners  
37,000+ Features Mapped

# Task Forces

Current topics that need research and to advise on matters of an administrative or of a general policy nature.

## Recent Task Forces:

- FIG and the SDG's (current)
- FIG Governance (internal – finalized 2021)
- Real Estate Market Study
- Surveyors and the Climate Change
- Spatially Enabled Societies



Spatially Enabled Society



The Surveyor's Role in Monitoring, Mitigating, and Adapting to Climate Change



FIG Task Force on Surveyors and Climate Change



HOW

# FIG FOUNDATION

## - Building a Sustainable Future



THE FIG  
FOUNDATION

The FIG Foundation raises funds to secure a sustainable future for surveyors. Donations finance educational and capacity building projects and scholarships, especially in developing countries and countries in transition, and encourage research into all disciplines of surveying and help disseminate the results of that research.



## Where Do Donations Go?

During the period 2002-2019 the FIG Foundation has donated a total 163 grants to surveyors from 70 countries.



**Mr. Habtemicael Weldegiorgis**  
Eritrea

"The opportunity of participating at a FIG Conference was an eye-opener and changed my world. I was exposed to world class experts where valuable experiences and best practices were learnt. The interactions with such an august body of experts enabled me to initiate revisions into the arbitrary service charge regime... and ensuring modernisation and self-sustainability of the Eritrean Cadastral Office."



**Ms. Melissa Robert**  
Uruguay

The Foundation has supported her efficient attendance at various conferences in which she has promoted and informed about FIG and FIG Young Surveyors.



**Mr. Wallace Mukupa**  
Zambia

"I think my progression over the past months has been tremendous in part because of the peace of mind afforded by the FIG Foundation scholarship that I was awarded; I could focus on being the best researcher I could be without worrying about finances."



**Mr. Bruno Lot Tanko**  
Nigeria

"The FIG Foundation scholarship made me to have more time for studying and learning which led to the completion of my PhD programme within three years. Earning this prestigious scholarship also made me stand out and become an attractive job candidate as I immediately secured a job with the University of Reading UK (Malaysia campus), helping me to accomplish my dream."

# International partners

## International bodies



## Sister Organisations



## Other International Organisations

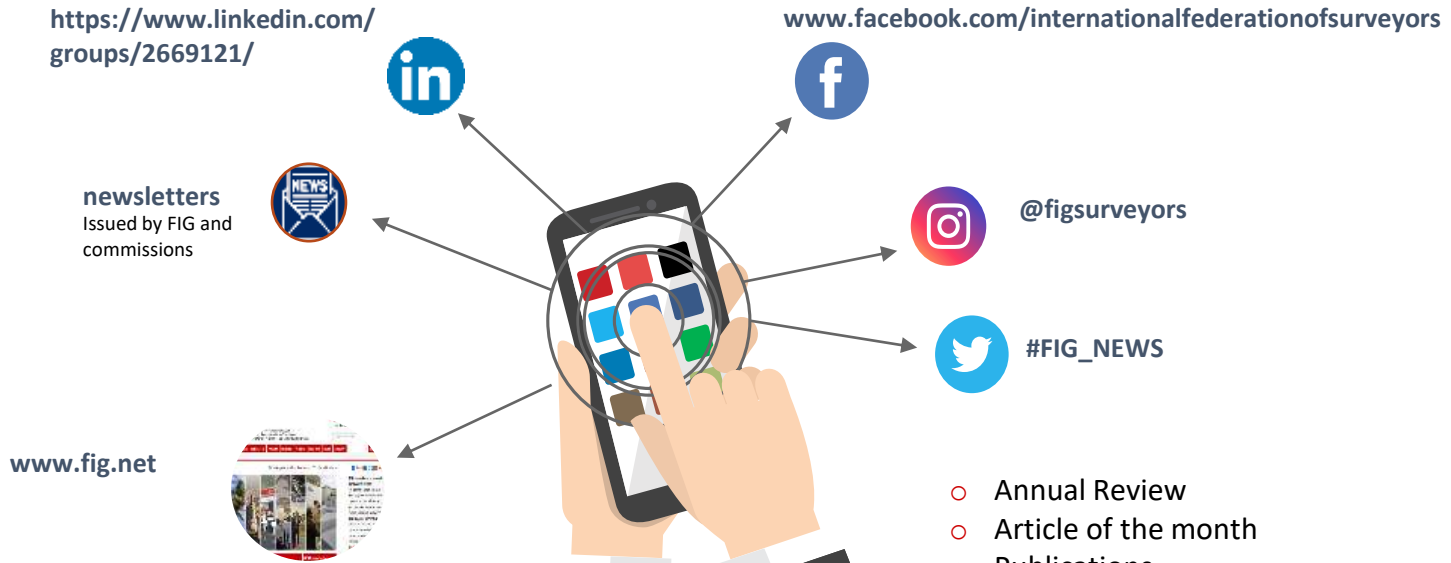






# WHAT

# COMMUNICATION



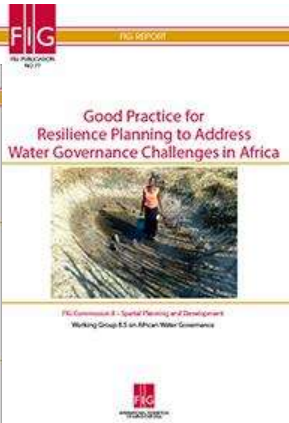
- Annual Review
- Article of the month
- Publications
- Congress and working week proceedings
- Surveyors Reference Library

# WHAT

# PUBLICATION



FIG Publication Series – 78 Publications



Conference Proceedings



Annual Review



Three milleniums of Measurement of Earth – Special edition  
35 years of research – 3,000 pages – over 350 illustrations



## FIG Peer Review Journal

ISSN No 2412-916X

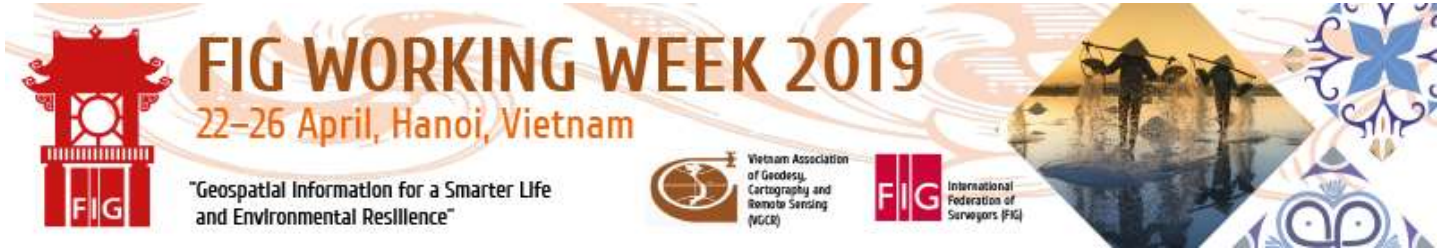
In 2018, FIG introduced a double blinded Peer-Review Process for papers with an outstanding academic level or best practice. Since then, there has been an option to submit a paper for peer review each year at FIG Congresses and Working Weeks. Approximately 10 per cent of all presented papers at FIG Conference are

## FIG Peer review Journal



Web site

# FIG EVENTS



**FIG WORKING WEEK 2019**  
22–26 April, Hanoi, Vietnam

"Geospatial Information for a Smarter Life and Environmental Resilience"

Vietnam Association of Geodesy, Cartography and Remote Sensing (VAGCR)

International Federation of Surveyors (FIG)

The banner features a red pagoda icon on the left, a central image of two people carrying loads on a path, and a blue floral pattern on the right.



**amsterdam**  
**FIG** WORKING WEEK 2020  
10 – 14 MAY

SMART SURVEYORS FOR  
LAND AND WATERMANAGEMENT

The logo features the word 'amsterdam' in a stylized font with three red crowns above it, and the FIG logo below it.

WHERE



**e** WORKING WEEK 2021  
**20-25 JUNE**

SMART SURVEYORS FOR LAND  
AND WATER MANAGEMENT  
**CHALLENGES IN A NEW REALITY**

[www.fig.net/fig2021](http://www.fig.net/fig2021)

- 1300 participants
- Over 300 abstracts
- 80 Sessions
  - ✓ Key note and Technical sessions
  - ✓ FIG sessions
  - ✓ Partner Sessions (World Bank, UN-Habitat/GLTN, FAO)
- Exhibition
- Networking activities



## WHERE

1,050 participants (815 onsite)

360 abstracts

67 sessions

- ✓ Key note and Technical sessions
- ✓ FIG sessions
- ✓ Partner Sessions (FAO, UN-Habitat/GLTN, EuroSDR)

Exhibition

Social and networking events

[www.fig.net/fig2022](http://www.fig.net/fig2022)



# XXVII FIG Congress

11-15 SEPTEMBER 2022 WARSAW POLAND

"Volunteering for the Future –  
Geospatial Excellence for a Better Living"



Patrons



Organised by



Platinum Sponsors



## Why attend?

- Relations
- Network
  - Professional
  - Social
  - Personal
- Contacts
- Learn
- Time for reflection
- Academic requirements
- Explore national/regional area

## What to bring home

- Inspiration
  - Ideas
  - Contacts
  - Energy
  - New knowledge
  - Certificate (bag!!)
  - Community feeling
  - Story
  - Understanding of yourself and others
  - An international context
- Job
  - Studies
  - Employer
  - Personally



WHERE



# FIG Working Week 2023

Orlando, Florida USA 28 May – 1 June

*Protecting our World, Conquering New Frontiers*



NSPS

At: Signia by Hilton Orlando Bonnet Creek & Waldorf Astoria Orlando

- ✓ **Everything under one roof**  
- sleeping rooms, convention center
- ✓ Complimentary WiFi throughout entire venue
- ✓ **Guaranteed hotel room rates for 2023 with no Resort Fee**
- ✓ Discounted theme park tickets for FIG attendees staying at hotel
- ✓ Complimentary transportation throughout Walt Disney World

Expected 2,000 participants from 90-100 countries  
 Sessions, pre-events, workshops, meetings  
 Possibility for continuing education credits for US participants  
**Special Spanish speaking sessions/translation options**  
 Large exhibition  
 Social events and networking opportunities

FRIDAY/SATURDAY PRE-EVENTS	Keynote session	Technical Sessions	Keynote session	FIG General Assembly
	Break	Break	Break	
FIG General Assembly	Technical Sessions	Technical Sessions	Technical Sessions	Farewell Reception
		Lunch		
FIG General Assembly	Technical Sessions	Debate Sessions	Technical Sessions	
		Break		
	Break	Keynote session	Break	
	Technical Sessions		Technical Sessions	
<b>Half day Technical -and Social Tours</b>				
<b>EXHIBITION 11:00-18.00</b>				
Welcome Reception (Incl in reg. fee)	Cultural Evening/ FIG Foundation dinner		FIG Gala Dinner	

# HOW



- Technical Seminar on Reference Frames in Practice Workshop at IGM Chile in Santiago, Chile 2022
- **FIG Working Week 2023, May, Orlando, USA**

Coming events

Sunday 28 May 2023	Monday 29 May 2023	Tuesday 30 May 2023	Wednesday 31 May 2023	Thursday 1 June 2023
	Newcomers Session			
FRIDAY/SATURDAY PRE-EVENTS	Keynote session	Technical Sessions	Keynote session	FIG General Assembly
	Break	Break	Break	
FIG General Assembly	Technical Sessions	Technical Sessions	Technical Sessions	
		Lunch		Farewell Reception
FIG General Assembly	Technical Sessions	Debate Sessions	Technical Sessions	
		Break		
	Break	Keynote session	Break	
	Technical Sessions		Technical Sessions	
	Half day Technical -and Social Tours			
	EXHIBITION 11:00-18.00			
Welcome Reception (Incl in reg. fee)	Cultural Evening/ FIG Foundation dinner		FIG Gala Dinner	



WHERE



**FIG Working Week 2024**  
Accra, Ghana | MAY, 2024

**BUILDING RESILIENT ENVIRONMENT:  
SURVEYORS INNOVATION FIT FOR FUTURE**



[fig.net/fig2024](http://fig.net/fig2024)



**FIG Working Week 2025**  
Brisbane, Australia | 1-5 June



**COLLABORATION, INNOVATION AND RESILIENCE;  
CHAMPIONING A DIGITAL GENERATION**



**FIG XXVIII Congress 2026**  
Cape Town, South Africa



May 2026



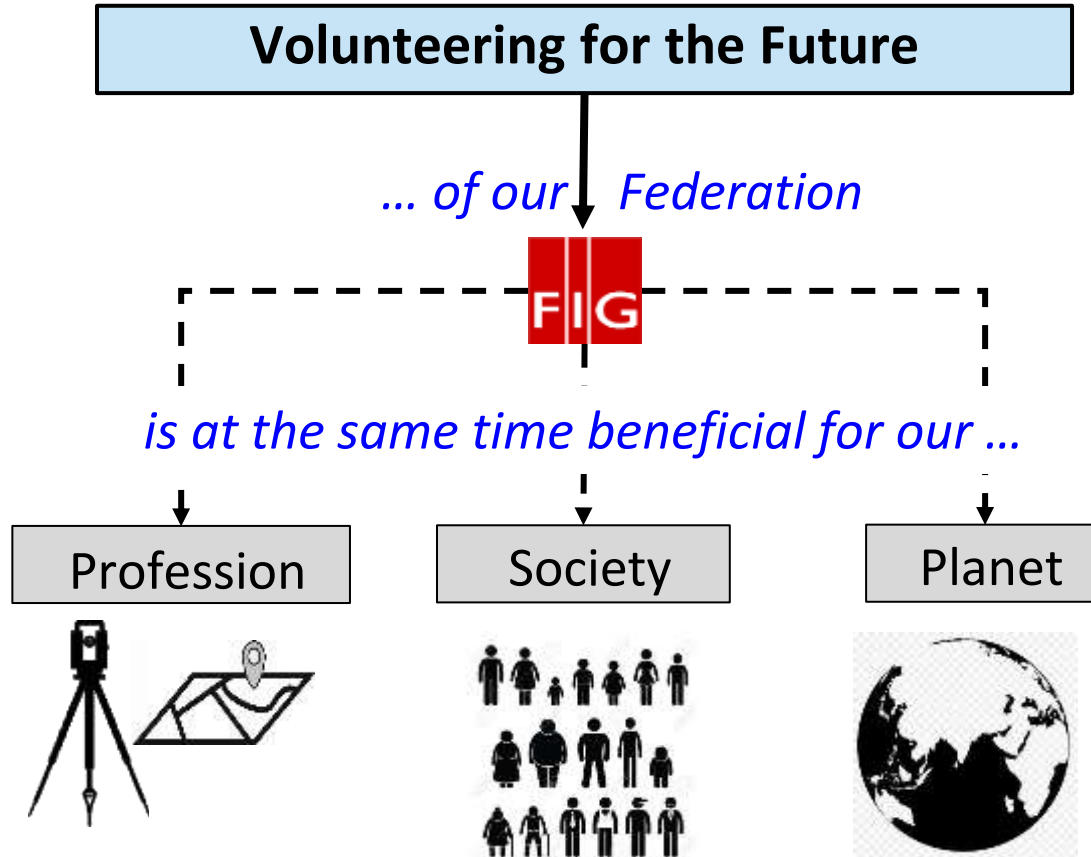
[www.fig.net/fig2026](http://www.fig.net/fig2026)



**FIG Working Week 2028**  
Paris, France  
Celebrating the 150th Anniversary of FIG



# The Motto of the current presidency



**THANK YOU**

