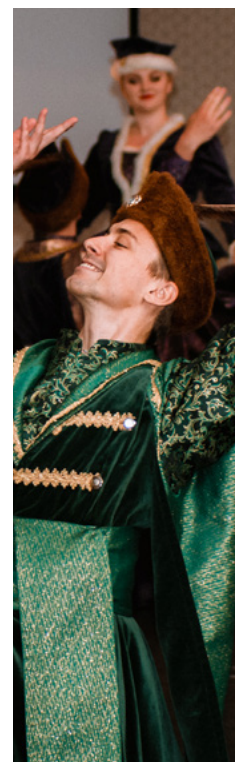
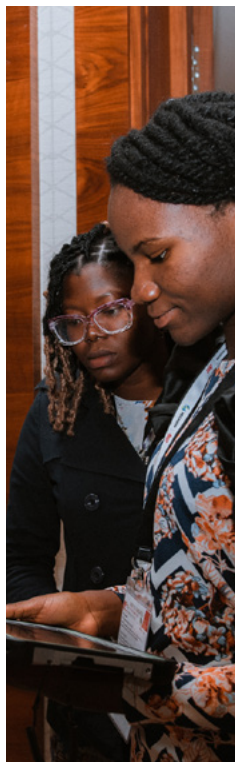
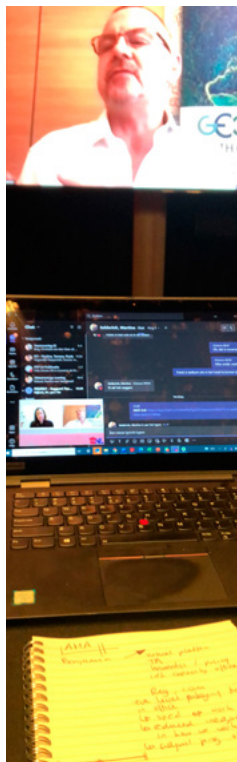




International Federation of Surveyors
Fédération Internationale des Géomètres
Internationale Vereinigung der Vermessungsingenieure

2021-22



ANNUAL
REVIEW

"Volunteering for the future"

Greeting from the President



It is an honour and pleasure for me as new FIG President to write this greeting. The Annual Review you are reading now is covering the two last years (2021 and 2022) of the term of President **Rudolf Staiger**, Germany.

Rudolf used as motto for his term “Volunteering for the Future” and he asked the question Why are we volunteering? At the President’s hand over event in October 2022 he followed up with his own experience, addressing What is his motivation, to...

- participate in 25 FIG events over more than 20 years?
- volunteer in a variety of positions?
- spending 8 hours per week in video conferences for the federation?

A remarkable contribution, and with remarkable outcome, of which just a little is shown in this annual review as there was not space to include all activities and all who contributed to FIG. I do however know that there are many who dedicate numerous hours and work to the agenda of FIG. I personally thank you.

The years 2021 and 2022 turned out to be much different than expected, and marked a watershed moment in society. Despite the difficulties FIG did not stop its activities – they were just carried through in a different way.

Much can be done online, which has now been proven, however it does not always replace the contact and connectivity gained from physical meetings. However, there have been online commission meetings with good representation, regional meetings, expert working group meetings, cooperations with various UN organisations, sister organisations and other stakeholders and many member driven activities have been undertaken during these two years. Maybe in a different form, but still efficient. Many members have been creative, too, and have organised online and hybrid events. FIG also worked hard in this regard.

In 2021 the first FIG e-Working Week was held – fully online and with overwhelming representation.

80 sessions were held, and all agreed that it worked surprisingly well, although there was a clear indication of interest in being able to meet again in person. This was made possible in 2022 with the FIG Congress in Warsaw, Poland where our local organisers from the Polish Association took up the challenge to organise this large congress in less than a year. To gain extra time and make travelling more likely the congress was moved to September 2022.

I was surprised and pleased to discover how much it meant to us all, to be back in person, to be physically connected again and to collaborate. Watching and engaging with eager onsite participants, exhibitors, sponsors, partners, and others was a great joy. I had the extra joy to get elected President for the coming term, and I thank all members for this trust, and I will do my best to serve.

The transition was marked at a nice hand over session in Germany, hosted by the German association DWV.

Rudolf and his council did a remarkable job during their term navigating in this rough and troubled sea, as Rudolf expressed it in his report at the General Assembly 2022. All commissions, network and others involved in FIG managed to get through this term in creative ways and with good results and most of all managed to keep many engaged and involved. To quote Rudolf, it is fair to say that he has been, and most likely will be, “the FIG President leaving the smallest carbon footprint ever!”

Thank you to the past President Rudolf Staiger for his lead during this different and strange term and to his Vice Presidents on Council consisting of Dr **Orhan Ercan** (2017–2020), Mr **Mikael Lilje** (2017–2024), Prof. Dr. **Jixian Zhang** (2019–2022), Mr **Kwame Tenadu** (2021–2024), it was my pleasure to be with you all on Council during my Vice President tenure (2015–2022).

As we move into the next FIG term (2023–2026) we move to the other side of the pandemic watershed, where the rise in prominence of social, environmental, and ultimately governance issues will put people at the heart of our next term of action.

Diane Dumashie, FIG President 2023–2026

FIG VISION

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

ABOUT FIG

FIG is the premier international organization representing the interests of surveyors worldwide. It is a federation of the national member associations and covers the whole range of professional fields within the community, including surveying, cadastre, valuation, mapping, geodesy, geospatial, and quantity surveyors. It provides an international forum for discussion and development aiming to promote professional practice and standards.

FIG was founded in 1878 in Paris and was known as the Fédération Internationale des Géomètres. This has become anglicized to the International Federation of Surveyors. It is a UN-recognized non-government organization (NGO), representing more than 120 countries throughout the world, and its aim is to ensure that the disciplines of surveying and all who practise them meet the needs of the markets and communities that they serve.

FIG Administration



FIG General Assembly 2022 in Warsaw, Poland. Luckily many were able to attend in person. It felt somewhat different after two years in isolation with only few people around, it was however a positive experience to be back to (almost) normal.

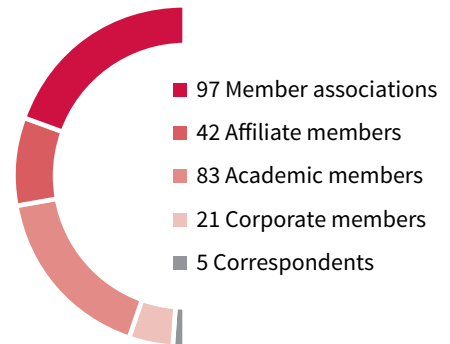
In your hand you are holding an Annual Review for the years 2021 and 2022. Normally FIG produces an annual review each year, but these past years have not been like “normal”. The COVID19 pandemic changed the activities of FIG especially because travelling was not possible in 2021 and limited in 2022. Read more on the following pages how this was solved.

FIG Represents the Interests of Surveyors Worldwide

FIG is a United Nations and World Bank recognized nongovernmental organization of national member associations and other affiliated members from over 120 countries. FIG draws its membership from practitioners working in communities with both the public and private sectors, from the scientific, research and academic community, as well as from the spatial technologies and services community. FIG functions with the goodwill, resources and contribution of its memberships and their corps of volunteers from around the world.

What Does it Mean to Represent the Interests of Surveyors...

Members of FIG have taken the decision that by being member of FIG they want to contribute to the international cooperation. These memberships make it possible for FIG to enhance the international cooperation, bringing the different surveying professions together and through the formalized and informal engagement in UN bodies and the World Bank to give an international perspective on the surveying and geospatial profession. FIG has over the years been involved in the establishment of UNGGIM and the Global Land Tool Network. A surveyor or an organisation covering the surveying field can argue “what is in it for me” but without these undertakings there would not be that much international focus on the importance of e.g. land, on geospatial data, on standards related to (the broadest understanding of) surveying.



So with this FIG appreciates the many who understand the importance of being part of and contribute to this development. There are no quick fixes in this, but a steady long-term commitment and to be part of setting the agenda at an international level which can then also be taken to a national level. The national official delegates appointed by each member are central as are all other individuals who bring on the FIG agenda to the next level.

FIG is encouraging and hoping for a “team-spirit” from all surveying associations and organisations around the world. Read on in this Annual Review on some of the activities that took place in 2021 and 2022.

FIG General Assembly 2021 – First Virtual Ever

The decision to postpone the General Assembly in 2020 had to be made due to the COVID19 pandemic. The pandemic broke out in February 2020 and in March it became clear that it was not possible to meet in Amsterdam as otherwise planned. The General Assembly was postponed until 2021 which meant that the FIG General Assembly 2021 included agenda items from both 2020 and 2021. This event was held online on 20 and 25 June 2021, broadcast from a studio in the Netherlands.

73 member associations were included in the roll call these 73 official delegates represented the member associations in the elections, representing in total 89 votes. The online sessions were open for all.

The General Assembly was divided into four sessions:

1. President's report and general agenda items; hereunder presentation of the financial situation and adoption of three new honorary members:
 - Dr **Robin McLaren**
 - Mr. **Jim Smith**
 - Prof. **Michael Barry**
2. Get to know your candidates – to be elected was the 10 commission chairs and two Vice Presidents for the term 2023–2026
3. Results and FIG Governance
 - a. Result of the elections

For the first time ever, elections were held with an online voting system. This worked very well, and all registered members seemed to be able to use the system. Elected as vice presidents were Mikael Lilje, Sweden and Kwame Tenadu, Ghana.
 - b. FIG Governance; including a presentation of the results made by the Task force on FIG Governance and online discussions in three thematic tracks on
 - Member Benefits: The benefits of being a member of FIG – of the different membership categories

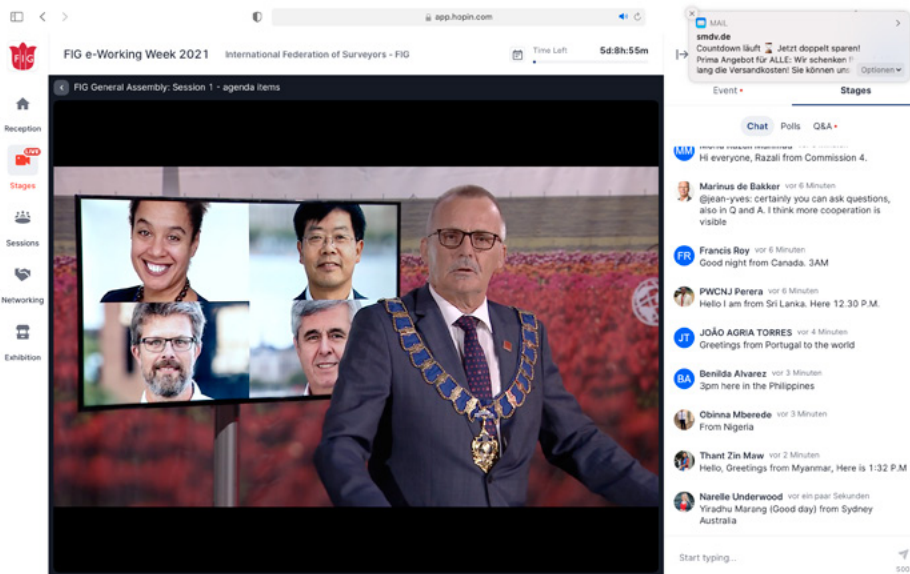


FIG President Rudolf Staiger in the studio in the Netherlands, together with his council who all attended from home.

- Brand: Understanding and defining the FIG brand
- YSN transitioning and integration: Increasing and enabling young surveyors to transition from the Young Surveyors Network
4. The Work of FIG – including some of the highlights of the work of FIG hereunder:
 - Land Administration Domain Model
 - Water Governance Challenges in Africa (publication)
 - International Boundary Making
 - International Boundaries on Unstable Ground
 - FIG Cooperation with UN-Habitat – Global Land Tool Network (GLTN) including two new publications
 - The History of Surveying – Seven books covering three millenniums of measurement of earth
 - The Volunteer Community Surveyor Programme – VCSP
 - 20 years of FIG Foundation

One recommendation of the Task Force on Governance 2 was to establish an informal Engagement Committee to create interest, motivate and encourage qualified people and member associations to apply for volunteer senior posts in FIG. FIG Council suggested to the General Assembly establishing already now an informal Engagement Committee as described in the Council response, Key issue E, for a trial period from now and until 2025.

► fig.net/organisation/general_assembly/



Future FIG Conferences

The COVID19 pandemic situation changed the travel situation, hence FIG Council decided that it would be necessary to make some adjustments for the upcoming conferences. Originally two member associations had submitted bid to host the FIG Working Week 2025, but instead of an election the following changes were suggested to the General Assembly who welcomed the decision with an overwhelming majority:

- **FIG Congress 2022:** Warsaw, Poland (instead of Cape Town South Africa)
- **FIG Working Week 2023:** Orlando, Florida, USA
- **FIG Working Week 2024:** Accra, Ghana (moved from 2021)
- **FIG Working Week 2025:** Brisbane, Australia
- **FIG Congress 2026:** Cape Town, South Africa (instead of 2022)

FIG General Assembly 2022

After longer evaluation, FIG Council decided that it would be possible to carry through the Congress and General Assembly in person in 2022, however the FIG Congress was moved from the first half of 2022 to take place 11–15 September in Warsaw, Poland. Since there were still some who would not be able to travel FIG Council decided that there would be one online session one week before the start of the Congress, on 4 September whereas the two other sessions would take place onsite in Warsaw, Poland on 11 and 15 September with live broadcast.

At the online session all general agenda items were presented in a two-hour online session. FIG President **Rudolf Staiger** presented his report of the past year; again a different year that was overshadowed by the pandemic and no possibility to travel and meet. The pandemic also had an impact on the finances as FIG had given all members a 20% reduction of membership fee. All commission and network chairs presented



At the FIG Congress 2022 the flag was per tradition handed over by the Conference Director Krzysztof Bakuła and President of the Polish Association of Surveyors (SGP) to John Hohol, Co-conference Director of FIG Working Week 2023.

their work during the past year, also looking back on the past four years as this was the last year of their term.

Two honorary members were appointed:

- **Volker Schwieger**, Germany
- **Stephen Djaba**, Ghana.

Election of Vice Presidents and FIG President

The second session took place on 11 September and included presentations of the Vice President candidates as well as an interview round with the President candidates. The election took place online during the Congress. To find the two vice president candidates there were four rounds of voting, and two rounds for the election of President.

Finally elected Vice Presidents were:

- **Daniel Steudler**, Switzerland
- **Winnie Shiu**, United States.

Dr. **Diane Dumashie**, United Kingdom, was elected president of FIG in the second round. A very big thanks to all candidates. It is a pleasure

to see the interest and engagement in FIG and that there is an interest in bringing FIG forward.

Decision on FIG Working Week 2028

FIG was founded in 1878 which means that 2028 will mark the 150th anniversary of FIG. The inauguration of FIG took place in Paris, France, and the two French associations had expressed their interest in hosting the FIG Working Week 2028 so that the celebration of the 150th anniversary could take place in Paris. FIG Council asked the members to give Council authority to select the venue for 2028, which was adopted.

The third General Assembly session presented the winners of the election and other areas that needed to be followed up on from the first two sessions and from the Congress.

► fig.net/news/news_2022/10_congress_report.asp



FIG e-Working Week 2021

Not only the General Assembly was held online, the whole Working Week took place successfully even though it was not possible to travel. A studio in the Netherlands was used for the live broadcast of the Opening Ceremony and keynote sessions. Some of the local organisers were at the studio together with FIG President **Rudolf Staiger** and the co-conference directors **Paula Dijkstra**, the Netherlands and FIG Director **Louise Friis-Hansen**. Other local organisers were placed in a nearby hotel where they were manning a call-centre to help attendees with the online platform and assistance in the technical sessions. Others again were sitting at home supporting the delivery of the e-Working Week. The final tech-hub was the FIG office in Copenhagen. It was a highly efficient and impressive setup, which worked amazingly well. It did however also show how much is needed to carry through an online event. The amount of preparation was just as much – or even more – than for a regular event.

1,301 participants were sitting in front of their computers, tablets, phones – at home, in

their office, outside – a speaker was even talking from her car. All with the common purpose to attend in the over 80 sessions and other activities that took place during these 6 packed days. These 1,301 participants came from in total 110 countries.

Apart from the seven keynote sessions all sessions were online.

It was important for FIG and the Dutch local organisers to not “just” organise some sessions – but instead give a full conference feeling and to feel part of the surveying community. This spirit is however not that easy to create – especially online.

The comments in the chats and also our post survey show clearly that an online event is not the same as to meet in person. There are also many challenges such as time difference (there is no time that is good for all!) and to keep an open calendar and not fill in other activities at the same time. On the other hand, online events also have some opportunities especially for those who are not normally able to travel to a destination.

Various networking opportunities were offered. Many of the attendees managed to find

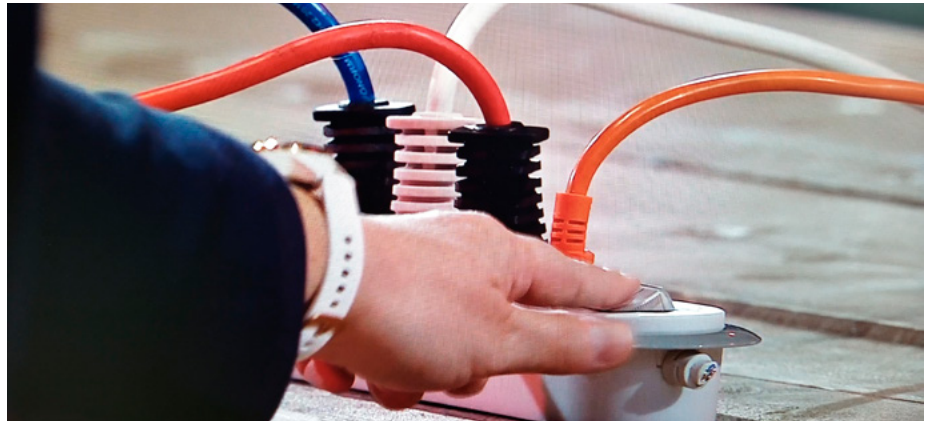
out both how to network randomly and also to organise small meetings with up to 5 in a chat room. The random networking feature was a replace of the “coffee-line chats” – the small-talk that takes place while waiting in line for your coffee/tea. Each participant could enter this networking environment and be randomly brought together with another participant for a 3-minute talk. The system made sure that each time participants would be paired with a new partner. This 3-minute talk could be prolonged if both parties agreed to it. In the breaks there were also different activities to bring attendees together such as “break sessions” with a specific topic, the AMA sessions (Ask-Me-Anything), and the students from ITC had made a quiz – and these quiz sessions were very well attended.

Since time zone differences had to be taken into consideration the seven 1-hour keynote sessions were held at different times over the four conference days.

The seven keynote sessions elaborated on:

- The Impact of COVID 19 on the Profession with **Benjamin Davis**, FAO, **Steven Ramage**, GEO and Léa Bodossian, Eurogeographics, chaired by **Kate Fairlie**.

- The Challenges for Smart Surveyors in a New Reality with Founder and President of Esri – Environmental Systems Research Institute, **Jack Dangermond**, in conversation with FIG President **Rudolf Staiger**.
- Fit-for-Purpose 2021 – Ten years of FFP: lessons learned and what now? with Emmanuel Nkurunziza, RCMRD, **Stig Enemark**, FIG Honorary President, and Professor emeritus, and **Amy Coughenour**, Cadasta Foundation, moderated by **Jaap Zevenbergen** and **Mila Koeva**, ITC.
- Integrated geospatial information for transformational change with **Greg Scott**, UN-GGIM and **Rosamond Carter Bing**, Co-Chair of the Extended Bureau of UN-GGIM and moderator **Anders Sandin**, the Swedish mapping cadastral and mapping authority.
- Making the land and property sector sustainable and resilient: Ensuring Diversity and Inclusion moderated by FIG Vice President **Diane Dumashie** with **Narelle Underwood**, Surveyor General of NSW, Australia, **Chitra Weddikera**, Dean of Colombo School of Construction Technology, **Paul Olomolaiye**,



- Pro Vice-Chancellor University of the West of England and **Victoria Stanley**, Senior Land Administration Specialist.
- Digital Twins | How can DT support legal security? with **Frank Tierolff**, Netherlands Kadaster, **Sisi Zlatanova**, UNSW Sydney, **Noud Hooyman**, Chief Geo-information Officer Directorate for Spatial Planning Ministry of the Interior and Kingdom Relations Netherlands and **Henk Scholten**, Director Research and Innovations Geodan Netherlands.
- Success – a Continuous Journey – how about your journey? Co-conference directors **Paula Dijkstra** and **Louise Friis-Hansen** talked with Chief Success officer at Bentley **Katriona Lord-Levins** on how to tackle your own situation successfully.

Young Surveyors Event 2021

The Young Surveyors event 6YSC took place one month before the e-Working Week, on 15–16 May 2021. The event was held in four regional programmes covering the Africa and European Region, the South American Region, the North American Region, and the Asia and the Pacific Region. Each programme comprised a keynote session, two parallel sessions, which included panel discussions and presentations, as well as a plenary interactive session. In total, the conference brought together about 300 young surveyors from around the world, Two broad streams were in focus sustainability and professional development. The 6YSC provided young surveyors a unique insight into the future of the surveying profession, the future of technology, as well as sustainable development all within the context of the challenges of the current day.



eWORKING WEEK 2021
20-25 JUNE

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

It was a pleasure that both the Young Surveyors event and the Working Week could be converted to online events since travelling was not possible. Both young and seasoned surveyors felt the "FIG spirit" through their screens, and the creativity was astonishing throughout the generations at both events.



Dr Krzysztof Bakuła, FIG Co-Congress Director says: "Preparing the Congress was a huge project and a great challenge. We had to prepare it within one year, which should stop a run of bad luck of not being able to have direct meetings for two years. The Congress undoubtedly engraved in the participants' memory because it was something that the community lost for a short time, what it had long expected. During the Congress, we had the opportunity to meet and show the world that we are one community of surveyors volunteering for the future who can cooperate with each other."

FIG Congress 2022

Everyone was excited to meet again, and some a little overwhelmed by the number of people they were exposed to after having been "grounded" and not together with so many at the same time for 2½ years. And it was overwhelming being back. But a nice overwhelming feeling...

815 attendees found their way to Warsaw, Poland. Several had to stay at home due to Covid19 restrictions, and a few defied the restrictions and came anyway. Including the online participants the total number of attendees was 1,049 from 82 countries. Main focus was deliberately on the on-site event. FIG Council and the local organisers wanted to bring back attendees to all the advantages of an on-site event.

The post evaluation showed that the main reason for attending in person is to network. You cannot get and maintain connections and network in the same way online. It was also clear to see the joy of being together again in the lively discussions and talks both in the sessions and at breaks and social events.

FIG and the local organisers from Poland, SGP, had less than one year for the preparations. It was decided at the e-Working Week 2021 to move the Congress from Cape Town, South Africa, where the Congress should originally have taken place to Poland. It was a good decision because especially in Europe travels were again without restrictions and it was possible to meet onsite.

Even through main emphasis was on the onsite activities there was broadcast live from two session rooms throughout the congress, as well as from the General Assembly and all six Keynote sessions.

The keynote sessions were structured differently from earlier (hence also the change of name from plenary to keynote sessions) and consisted of six one-hour sessions arranged in three two-hour slots. Two slots were placed in the mornings and one in the afternoon, in order to also accommodate on-line participants from various time zones. Having six different themes

made it possible to highlight relevant and current topics that is on top of the agenda in FIG.

- Keynote session 1: Geospatial Excellence for a Better Living – Digitalisation and Modern Surveying and Cadastre in a Post-Covid19 Era.
- Keynote session 2: Urban Rural Partnership – It's a matter of territorial justice and status of mind.
- Keynote session 3: Land Governance in support of the 2030 Global Agenda. Understanding the Role of Responsible Land Governance and Secure Land Rights in Support of the 2030 Global Agenda.
- Keynote session 4: How the Land profession skills may thrive in the post 2020 pandemic world – Insights from across the Generations: Geography, Governance and Volunteering.
- Keynote session 5: Mapping the Plastic – Let's Map Floating Plastic in Waterways Before it Reaches the Ocean! And Mapping Small Pieces of Floating Plastic in Near Real Time.
- Keynote session 6: Technology and Visualisa-

tion for the Future – Surveyor 4.0 and Trends in the development of spatial data visualization methods.

Monument of the European Geodesy

The city of Warsaw had arranged for the restoration of the survey monument of the 52°N parallel geodesic arc in the city center of Warsaw and change it into European Geodesy Monument. This restored monument was opened on Wednesday 14 September with representatives from the City of Warsaw and the national association, SGP. FIG was represented by FIG Honorary President **Stig Enemark** and representative from the FIG Permanent Institution of History IHS&M **John Brock**.



Young Surveyors Conference 2022

The Young Surveyors Conference was held over two days as a pre-event to the FIG Congress 2022 with the theme “Volunteering for the Future: Smart Surveyors for Social Good” to recognise the role of young surveyors in pushing the frontiers of the surveying profession through volunteering, playing a vital role in society. Presentations and discussions focused on the push of smarter technologies continually expands the surveyor’s toolbox allowing for the leveraging of these technologies to meet the challenges of our times. After the conference the Charity Dance introduced both young and seasoned surveyors into the art of polonaise and krakowiak.



FIG Hand-Over Event – “Having Ice in the Stomach” or 22 years of FIG

With this heading a smaller hand-over event was held in Essen Germany in October 2022 to mark the transition from the FIG President 2019–2022 **Rudolf Staiger**, Germany, to the new-elected President for the term 2023–2026, **Diane Dumashie**, UK

Rudolf Staiger talked about his experiences during the past 22 years of FIG, and especially about the different and challenging term as President which especially the pandemic caused.

The four years as President turned out to be quite different than expected. The first year went smoothly and with many visions, ideas and initiatives for the coming term. This was disrupted by the Covid19 pandemic closing down the entire world and not making it possible to travel. This changed especially the situation for the FIG Working Weeks, and much of this term consisted of risk-management and finding out how to deal with this situation. In 2020 it resulted in the cancellation of the Working Week in Amsterdam, converted to 26 articles that were published during the planned

week. And here, the cryptic title of Rudolfs presentation occurred. “Having ice in the stomach” is a Scandinavian expression meaning that it is important to stay calm, stay cool in order to make the right decisions. During these years it was necessary to have ice in the stomach many times – first due to the uncertainty of the development of the Covid 19 pandemic, which led to the decision to organise a fully virtual event in 2021 together with the Dutch local organisers, and a decision to move around some of the future conferences. On top of this the Russia invasion of Ukraine was another challenge, especially because the Congress 2022 was decided to take place in Warsaw, Poland, a neighbouring country to Ukraine.

All these many changes made this term much different from previous. The motto of this term was “Volunteering for the future”, and FIG council kept this focus during the term because of the importance of having dedicated officials that are all volunteers to drive all the development and work of FIG, whether onsite or online.

FIG Meetings and Partnership Around the Globe



FIG and the SDGs

The Sustainable Development Goals (SDGs) and related land indicators will re-shape and influence our profession profoundly in the decade to come. It is of crucial importance that FIG member organisations and surveyors are aware and prepared on how their (daily) work contributes to the achievement of the SDGs and vice versa. What will be your role for the coming 10 years and how can you make the world a better place with your skills?

FIG Council established a Task Force in 2019, led by **Paula Dijkstra**, Netherlands, focusing on FIG and the SDGs.

FIG and its members can contribute to the SDG's in two main ways. On the one hand they can create awareness and contribute to achieving the SDG's and the specific targets. On the other hand they can collect relevant data to contribute to the measurement of the targets by using the indicators.

FIG Task Force on FIG and the Sustainable Development Goals together with the ten Commissions have worked on their role on the sustainable development goals relevant for their Commission and have defined and described the goals that are relevant for their commission and network. The Task Force has run a series in the FIG newsletter on the involvement of each of the commissions and networks.

► See here how the commissions and network work with the SDG's: fig.net/organisation/tf/sdg/sdgsandthecommissions.asp

Commissions and Networks

The 10 FIG commissions and the networks are the backbone of FIG. With their broad spectre and approach to surveying the commissions are involved in and driving a number of activities of the international development on the international surveying arena. One of the strengths of FIG is having all these many approaches to the surveying and geospatial profession under the same roof. FIG interprets the term “surveyor” in its broadest sense including professionals who measure, position, map, locate, appraise

and value, estimate and cost, plan, construct, develop and manage the land, the seas and any man-made structures. The power of FIG is to bring together all these different professionals.

During 2021 and 22 all commissions continued the focus on their work plans. At the General Assembly 2022 they presented their final reports and achievements.

► Read more about Commission activities: fig.net/comm/

FIG and the United Nations and World Bank

FIG continues the close cooperation with the World Bank and various agencies within the United Nations and it is a challenge to include all activities.

Some main activities have been the participation to FAO and the Voluntary Guidelines, VGGT Under a Letter of Agreement, with several sessions were included in the technical programme of FIG e-Working Week 2021 including a keynote presentation. Again in 2022 a letter of Agreement has been signed for FAO activities during the FIG Congress 2022. Included was a session organised in cooperation with FIG Commission 8 on Multi-purpose land consolidation and the Academic Members Forum organised together with FIG Commission 2 on: VGGT & UNCCD COP 14.

Two joint FAO, FIG and UN-ECE-WPLA publications were produced, one of them in the FIG Publication series and the second in the FAO series, Knowledge for Investment which led to a special joint FAO, FIG, UNECE/WPLA session dedicated to these publications Congress 2022 and a keynote session. Participation to Global Land Tool Network GLTN included being co-lead of Global Land Tool Network Professional

Cluster 2021–2022, represented by FIG President Diane Dumashie, together with Arab Union and support of the GLTN strategy phase 3 and the development of phase 4. FIG has been co-Lead on three activities:

- Creating awareness and promoting the adoption of GLTN's manual on valuation of unregistered land in the land sector
- Creating awareness and promoting the development of a Fit-For-Purpose implementation framework in Anambra and Katsina States in Nigeria
- Scaling up in-country deployments of young surveyors through the Volunteer Community Surveyor Program (VCSP).

During 2021 and 2022 FIG held the chairmanship of UN-GGIM Geospatial Societies and participated in the UNWGIC conference in India in October 2022. FIG organised a side event on Digital Transformation. Further participation are on e.g. the work of the International Committee on Global Navigation Satellite Systems (ICG) Participation to UN-OOSA, Co-chairing WG-D.

► More information at: fig.net/partners/



VCSP – Voluntary Community Surveyor Programme

Under the headline “Map the world a better place” FIG Young Surveyors have established the Volunteer Community Surveyor Program (VCSP) which is a collaborative global outreach program for FIG Young Surveyors to volunteer their time and skills to humanitarian and environmental causes. They bring their combined global energy into the fight for two of the most important issues our generation are facing today: climate crises and lack of equal access to land rights. Starting in 2017 with a pilot project together with UN-Habitat GLTN VCSP has now scaled up with several activities such as Wisdom Workshops and several country deployments. Although the Covid19 pandemic slowed down the activities for some time, VCSP still managed to continue its activities and to grow significantly.

► Learn more at: fig.net/vcsp/

FIG and Sister-organisations

FIG remains in close contact with sister organisations – primarily through UN-GGIM Geospatial Societies however also bilateral and appreciates the co-operation both at council and commission level. FIG and several of the sister organisations work under MoUs. In 2022 the latest MoU was signed with “Stand 4 her Land” initiative.



New Publications in 2020–22

Five new Publications have been published:

- No 77: *Good Practice for Resilience Planning to Address Water Governance Challenges in Africa*. FIG Commission 8 – Spatial Planning and Development, Working Group 8.5 on African Water Governance, FIG Report 2021
- No 78: *Geospatial Data in the 2020s – Transformative Power and Pathways to Sustainability*. FIG Commission 3 – Spatial Information Management, FIG Report 2022
- No 79: *Land Consolidation – The Fundamentals to Guide Practice*. FIG Commission 8 – Spatial Planning and Development, FIG Report 2022
- No 80: *Digital transformation and land administration – Sustainable practices from the UNECE region and beyond*. FAO, UN AND FIG, FIG Guide 2022 combined with a FAO Knowledge for Investment Brief: Funding Digital Transformation for Land Administration
- No 81: *Enhancing Surveying Education through Blended Learning*. FIG Commission 2 – Professional Education, FIG Guide 2023

► See all FIG publications at:
fig.net/resources/publications/figpub/



The History of Surveying

**7 VOLUMES COVERING THREE MILLENIUMS OF
MEASUREMENT OF EARTH: 35 YEARS OF RESEARCH –
3,000 PAGES – OVER 350 ILLUSTRATIONS**

These seven books include a life-long research and work of **Jan De Graeve** and now deceased **Jim Smith** on the History of Surveying. Only a 100 Special Edition Sets of the seven volumes have been printed. The printing of these Special Editions has been made possible by Trimble, and all income from the books are donated in full to FIG Foundation.

- **Volume I–V** consist of notes on the estimation of the size and shape of the Earth starting from about 800 BCE until about 1960 CE, a span of over 2,700 years. Jan and Jim take us through the efforts of the early Babylonian, Egyptian, Indian and Greek astronomers and the work of the 3rd century BCE Greek mathematician, Eratosthenes, who estimated the circumference of the Earth with remarkable accuracy using the shadow cast by the sun and known latitudes of places in Egypt. They then come to the arc measurements in Europe, Lapland, Peru, Eastern Europe, India, South Africa and many others and end in the 1950s before the introduction of electronic computers and distance measuring devices and satellite navigation systems.
- **Volume VI**: Meridian Arcs in East & Southern Africa with Emphasis on the Arc of the 30th Meridian
- **Volume VII**: Connection Between the Struve Geodetic Arc and the Arc of the 30th Meridian

Contact FIG Office if you would like to ensure your set of the collection.



Young Surveyors

FIG Young Surveyors have over the years built up a strong and impressive international with a dedicated regional and national engagement.

The network has created an environment for young surveyors from different cultures, with different academic backgrounds and professional experiences from

all over the globe to come together and learn from each other towards the sustenance of the surveying profession. During these two years several online meetings and events have been securing the development and close contact all around the world

► Follow FIG Young Surveyors: fig.net/ys



The FIG Foundation – How Can I Contribute?

Companies, associations, institutions, events, surveyors' groups and individuals may contribute to the Foundation by:

- Donations which will be recognised by a plaque or a certificate of different categories reflecting the sum of donation as follows:
 - platinum plaque 25,000 €
 - gold plaque 10,000 €
 - silver plaque 5,000 €
 - bronze plaque 1,000 €.
- Donations to support specific projects or by offering scholarships. Donors and Benefactors may use the FIG Foundation logo to promote their project donations or scholarships.
- Voluntary donation when registering to FIG events.
- Attending social functions such as the FIG Foundation Dinners held during every FIG Congress and Working Week and other events.



FOUNDATION

FIG Foundation – Building a Sustainable Future

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.

2021 marked the year of the 20th anniversary of FIG Foundation. However due to the Covid-19 pandemic a formal celebration was unable to occur. During these 20 years the FIG Foundation has awarded 242 grants to surveyors in 75 countries, totalling over 352,000 EUR. Congratulations to all recipients of an FIG Founda-

tion grant. Many thousands of people have supported the Foundation through their FIG conference registration fees and attendance at FIG Foundation dinners. Some supporters have also generously donated hundreds and even thousands of euros in additional donations over the years in support of the Foundation and its activities. Thank you to all!



FIG Foundation met again in person at the FIG Congress 2022. From left: William Marbell, Trimble, Jennifer Whittal, FIG Foundation President John Hohol, Maria Scorza, Enrico Rispoli and Winston Ayeni.

► fig.net/figfoundation



Not all commission chairs could attend in Warsaw at the General Assembly, but several could, to present final reports concluding their 4-year term as commission chair.

FIG Networks

FIG Standards Network

Chair: Mr. David Martin, OGE, France

Africa Regional Network

Chair: Ms. Jennifer Whittal, South Africa
Mohammed Mammen Kabir, Nigeria

Asia-Pacific Regional Network

Chair: Mr. Rob Sarib, SSSI, Australia

Young Surveyors Network

Chair: Kwabena Asiama, Ghana
Ms. Ferah Köksal, Türkiye

► fig.net/organisation/networks/

Permanent Institutions

The International Office of Cadastre and Land Records (OICRF)

Director: Dr. Eva-Maria Unger, Austria

The International Institution for the History of Surveying and Measurement

Director: Mr. Jan de Graeve, UBGE, Belgium

► fig.net/organisation/perm/

Task Forces

FIG Task Force on Governance

Chair: Dr. Diane Dumashie (2019–21), RICS, UK

FIG Task Force on FIG and the Sustainable Development Goals

Chair: Ms. Paula Dijkstra, GIN, Netherlands

► fig.net/organisation/tf/

FIG Commissions

Commission 1 – Professional Standards and Practice:

Chair: Ms. Winnie Shiu, CSSMG, China
Mr. Timothy Burch, USA

Commission 2 – Professional Education

Chair: Mr. David Mitchell, SSSI, Australia
Dr. DImo Todorovski, Netherlands

Commission 3 – Spatial Information Management

Chair: Mr. Hartmut Müller, DVW, Germany
Dr. Sagi Dalyot, Israel

Commission 4 – Hydrography

Chair: Prof. Dr. Mahmud Mohd Razali, PEJUTA, Malaysia
Dr. M.D. Eranda K. Gunathilaka, Sri Lanka

Commission 5 – Positioning and Measurement

Chair: Mr. Daniel Roman, NSPS, USA
Dr. Ryan Keenan, Australia

Commission 6 – Engineering Surveys

Chair: Mr. Maria João Henriques, OE-CEG, Portugal
Prof. Dr. Werner Lienhart, Austria

Commission 7 – Cadastre and Land Management

Chair: Mr. Daniel Paez, Colombian Society for Surveyors, Colombia
Dr. Rohan Bennett, Australia

Commission 8 – Spatial Planning and Development

Chair: Ms. Marije Louwsma, GIN, Netherlands
Dr. Kwabena Obeng Asiama, Ghana

Commission 9 – Valuation and the Management of Real Estate

Chair: Mr. Ben Elder, RICS, UK
Mr. Peter Ache, Germany

Commission 10 – Construction Economics and Management

Chair: Mr. Alan Muse, RICS, UK
Ms. Mercy Iortyer, Nigeria

Working Groups under each Commission ensure a focus on current and relevant topics.

► Check all Commission Work Plans for the terms 2019–22 and 2023–26 their Working Groups on fig.net/comm/

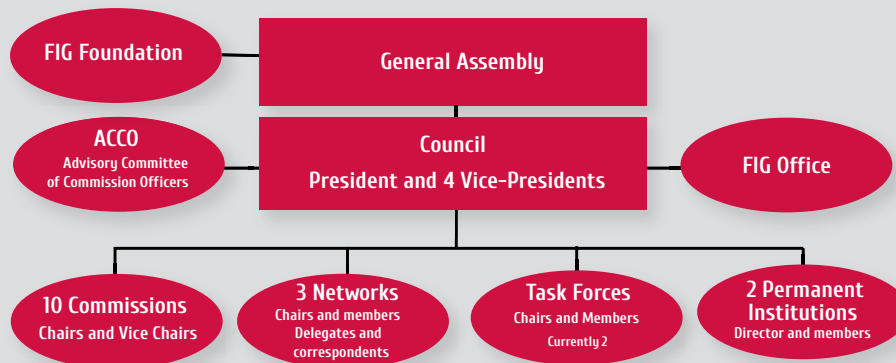


FIG Members

Member Associations (May 2023)

Afghanistan	Afghan Surveyors Association
Algeria	Order of Land Expert Surveyors (OGEF)
Argentina	Federación Argentina de Agrimensores
Australia	Geospatial Council of Australia
Austria	Austrian Society for Surveying and Geoinformation
Bahamas	Bahamas Association of Land Surveyors
Belgium	Union Belge des Géomètres-Experts Immobiliers
Bosnia and Herzegovina	Geodetic Association of Herceg-Bosnia
Botswana	Botswana Institute of Geomatics
Brunei Darussalam	Brunei Institution of Geomatics (B.I.G.)
Bulgaria	Chamber of Graduated Surveyors Union of Surveyors and Land Managers in Bulgaria
Burkina Faso	Association des Géomètres et Topographes du Burkina (AGT-B)
Canada	Canadian Institute of Geomatics
China	China Institute of Real Estate Appraisers and Agents (CIREA) China Land Science Society (CLSS) Chinese Society for Geodesy, Photogrammetry and Cartography (CSGPC)
Congo, D. R.	Federation of Geometers and Surveyors
Côte d'Ivoire	OGECI
Croatia	Croatian Geodetic Society
Cyprus	Cyprus Association of Rural and Surveying Engineers
Czech Republic	Association of Certified Appraisers Czech Union of Surveyors and Cartographers
Denmark	The Danish Association of Land Surveyors
Egypt	Egyptian Committee of Surveying and Mapping
Estonia	Association of Estonian Surveyors
Fiji	Fiji Institute of Surveyors
Finland	Finnish Association of Geodetic and Land Surveyors MIL
France	French Association of Topography (AFT) Ordre des Géomètres-Experts (OGE)
Germany	DVV – German Association for Geodesy, Geoinformation and Land Management
Ghana	Ghana Institution of Surveyors Licensed Surveyors Association of Ghana (LiSAG)
Greece	Technical Chamber of Greece
Haiti	Haitian Association of Geodetic Surveys (HAGS)
Hong Kong SAR, China	The Hong Kong Institution of Engineering Surveyors
Hungary	Hungarian Society of Surveying, Mapping and Remote Sensing
Indonesia	Indonesian Surveyor Association
Iran	Iranian Professional Society of Surveying Engineers (ISS)
Israel	Association of Licensed Surveyors in Israel
Italy	National Council of Italian Surveyors
Jamaica	The Land Surveyors Association of Jamaica (LSAJ)
Japan	Japan Federation of Surveyors
Kenya	Institution of Surveyors of Kenya (ISK)
Korea, Republic of	Korea Confederation of Surveyors
Kosovo	Kosova Association of Surveyors
Latvia	Latvian Association of Surveyors (LMB)
Lebanon	Order of Surveyors
Liberia	Association of Professional Land Surveyors of Liberia
Luxembourg	Ordre Luxembourgeois des Géomètres (OLG)
Malaysia	Association of Authorised Land Surveyors Malaysia
Malta	Malta Institution of Surveyors
Mongolia	Mongolian Association of Geodesy, Photogrammetry and Cartography (MAGPC)
Morocco	National Order of Surveying Engineers and Surveyors
Nepal	Nepal Institution of Chartered Surveyors (NICS)
Netherlands	Geo-Information Netherlands
New Zealand	Survey and Spatial New Zealand
Nigeria	Nigerian Institute of Quantity Surveyors (NIQS) Nigerian Institution of Estate Surveyors and Valuers Nigerian Institution of Surveyors (NIS)
Norway	Norwegian professionals for the built environment – GeoForum
Palestine, State of	Licensed Surveyors Association in Palestine
Papua New Guinea	Association of Surveyors of Papua New Guinea (ASPNG)
Philippines	Geodetic Engineers of the Philippines, Inc.
Poland	Association of Polish Surveyors
Portugal	Order of Engineers – College of Geographical Engineering
Romania	Romanian Association of Private Surveyors Romanian Surveyors Union
Saint Lucia	The Institute of Surveyors (St. Lucia) Inc. (ISSL)
Saudi Arabia	General Authority for Survey and Geospatial Information
Senegal	National Order of Surveyors of Senegal
Serbia	Serbian Union of Surveyors
Slovakia	Chamber of Surveyors and Cartographers (CSC) Slovak Union of Surveyors and Cartographers

Slovenia	Association of Surveyors of Slovenia
Solomon Islands	Association of Surveyors of the Solomon Islands
South Africa	South African Geomatics Council The South African Geomatics Institute (SAGI)
Spain	Colegio Oficial de Ingeniería Geomática y Topográfica
Sri Lanka	Institute of Surveyors Sri Lanka
Sweden	Swedish professionals for the built environment
Switzerland	Swiss Association for Geomatics and Landmanagement
Syrian Arab Republic	Order of Syrian Engineers and Architects (OSEA)
Trinidad and Tobago	Institute of Surveyors of Trinidad and Tobago
Türkiye	Chamber of Surveying and Cadastre Engineers of Türkiye

Uganda	Institution of Surveyors of Uganda
Ukraine	Public Union, Ukrainian Society for Geodesy and Cartography
United Kingdom	Chartered Institution of Civil Engineering Surveyors (ICES) The Royal Institution of Chartered Surveyors (RICS)
United States	American Association for Geodetic Surveying National Society of Professional Surveyors (NSPS)
Uruguay	Surveyors Association of Uruguay
Vietnam	Vietnam Association of Geodesy – Cartography – Remote Sensing
Zimbabwe	Survey Institute of Zimbabwe Zimbabwe Institute of Geomatics

Affiliate Members (May 2023)

Anguilla, British West Indies	Department of Lands and Surveys, Anguilla
Armenia	Cadastre Committee of Republic of Armenia
Azerbaijan	State Committee on Property Issues of the Republic of Azerbaijan
Bhutan	National Land commission Secretariat
Brunei Darussalam	Survey Department
Bulgaria	Geodesy, Cartography and Cadastre Agency of Bulgaria
Chile	Servicio Hidrográfico y Oceanográfico de la Armada de Chile
China	China Land Surveying and Planning Institute, Ministry of Land and Resources
Colombia	Instituto Geográfico Agustín Codazzi
Congo, D. R.	Cadastre of DRC – Ministère des Affaires Foncières
Cyprus	Cyprus Lands and Surveys Department
Denmark	Agency for Data Supply and Efficiency
Denmark	The Danish Geodata Agency
Fiji	iTaukei Land Trust Board
Finland	National Land Survey of Finland
Georgia	National Agency of Public Registry – LEPL
Hungary	Government Office of the Capital City Budapest
Iceland	Registers Iceland
India	Survey of India
Israel	Survey of Israel

Italy	Italian Society of Photogrammetry and Topography (SIFET)
Japan	Geospatial Information Authority of Japan
Jordan	Department of Lands & Survey
Latvia	The State Land Service of Latvia
Lesotho	Land Administration Authority, Lesotho
Mexico	National Institute of Statistics and Geography (INEGI)
Moldova, Republic of	Agency for Land Administration and Cadastre of Rep. of Moldova
Montenegro	Real Estate Administration of Montenegro
Nepal	Survey Department
Netherlands	Cadastre, Land Registry and Mapping Agency
New Zealand	Land Information New Zealand
Nigeria	Surveyors Council Of Nigeria (SURCON)
North Macedonia	The Agency for Real Estate Cadastre (AREC)
Norway	Norwegian Mapping Authority
Philippines	National Mapping and Resource Information Authority
Romania	National Agency for Cadastre and Land Administration
Sri Lanka	Survey Department of Sri Lanka
Sweden	Lantmäteriet – The Swedish mapping, cadastral and land registration authority
Switzerland	Swiss Federal Office of Topography swisstopo
United Kingdom	Ordnance Survey
United States	National Geodetic Survey, National Oceanic and Atmospheric Administration

Academic Members (May 2023)

Armenia	National University of Architecture and Construction of Armenia (NUACA)	Haiti	Queensland University (UQ)	
Australia	RMIT University	Hong Kong SAR, China	The Hong Kong Polytechnic University	
	The University of Melbourne	Hungary	Obuda University, AMK, Institute of Geoinformatics	
	University of New South Wales	Indonesia	Institut Teknologi Sumatera, Geomatics Engineering	
	University of Southern Queensland Australia	Ireland	Dublin Institute of Technology	
Austria	University of Natural Resources and Life Sciences Vienna (BOKU)	Israel	Technion Research & Development Foundation	
Belgium	Antwerp Maritime Academy	Latvia	Riga Technical University	
	Ghent University	Lebanon	Lebanese Canadian University (LCU)	
	Haute Ecole ICHEC-ECAM-ISFSC Institut ECAM		Lebanese International University (LIU)	
	University of Liege	Malaysia	Universiti Teknologi Malaysia	
Bulgaria	University of Architecture, Civil Engineering and Geodesy (UACEG)	Multinational	UNIGIS International Association	
Canada	British Columbia Institute of Technology (BCIT)	Namibia	Namibia University of Science and Technology (NUST)	
	Université Laval	Netherlands	University of Twente – Faculty of Geo-Information Science and Earth Observation (ITC)	
	University of Calgary		New Zealand	University of Otago
	University of New Brunswick		Nigeria	ABIA State Polytechnic, ABA
China	School of Public Administration	University of Benin		
Colombia	Escuela de Ingenieros Militares	University of Nigeria Nsukka Enugu Campus		
	Universidad Distrital Francisco José de Caldas	North Macedonia	South-East European Research Institute on Geo Sciences	
	Universidad Distrital Francisco José de Caldas		Norway	Bergen University College
Croatia	University of Zagreb	Norwegian University of Life Sciences		
Cyprus	Cyprus University of Technology (Civil Engineering and Geomatics)	Papua New Guinea	Papua New Guinea University of Technology	
Czech Republic	Brno University of Technology	Romania	“1 Decembrie 1918” University of Alba Iulia	
Denmark	Aalborg University		Technical University of Civil Engineering Bucharest	
Ethiopia	Bahir Dar University – Institute of Land Administration		University of Life Sciences	
Finland	Aalto University		University of Oradea – Faculty of Construction, Cadastre and Architecture	
	Helsinki Metropolia University of Applied Sciences	Russian Federation	Moscow State University of Geodesy and Cartography	
	Lapland University of Applied Sciences		State University of Land Use Planning	
France	Ecole Supérieure des Géomètres et Topographes (ESGT)	Rwanda	INES-Ruhengeri	
Germany	Anhalt University of Applied Sciences	Scotland	University of Glasgow	
	Berlin Institute of Technology	Serbia	University of Novi Sad	
	Technical University of Munich	Slovenia	University of Ljubljana	
	University of Stuttgart	South Africa	University of Cape Town	
Ghana	Kwame Nkrumah University of Science and Technology	Spain	Universitat Politècnica de València, UPV	
	University of Mines and Technology		University of Jaen Spain	
Greece	School of Rural, Surveying and Geoinformatics Engineering, NTUA	Sri Lanka	Sabaragamuwa University of Sri Lanka	

Sweden	Royal Institute of Technology
	University West
Switzerland	University of Applied Sciences Northwestern Switzerland
Trinidad and Tobago	University of the West Indies
Türkiye	Ankara University Faculty Of Applied Sciences
	Istanbul Technical University
	Technical University of Konya
Ukraine	National University of Life and Environmental Sciences of Ukraine
United Kingdom	Oxford Brookes University

United Kingdom	Real Estate and Planning, Reading University
	Sheffield Hallam University
United States	Texas A&M University – Corpus Christi
	The University Southern Mississippi Hydrographic





In addition, FIG has a correspondent in **Maldives, Pakistan, Rwanda, Tonga and Venezuela.**

Honorary Ambassadors



Clarissa Augustinus (prev. UN-Habitat/GLTN) and Paul Munro-Faure (prev. FAO).

Corporate Members (May 2023)






PLATINUM LEVEL

	Bentley Systems
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	Leica Geosystems AG
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Category G – Other Sponsorship

	The Danish Society of Engineers, IDA
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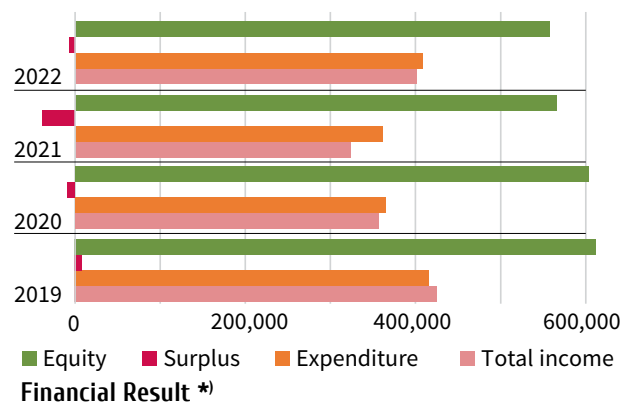
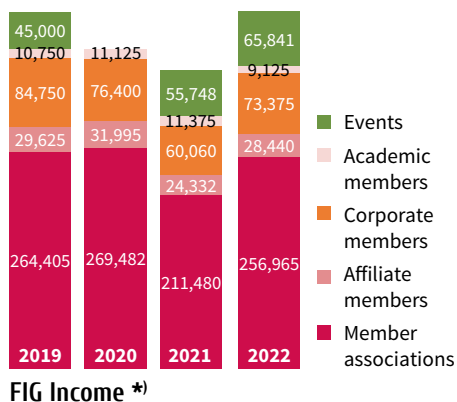
Economy

Income and Expenditure Account 2020–2022

REGULAR INCOME	Result 2022	Budget 2022	Result 2021	Result 2020
Subscriptions	(all figures in Euro)			
Member associations	256,965	255,000	211,480	269,483
Affiliate members	28,440	32,000	24,332	31,995
Corporate members	73,375	75,000	60,060	76,400
Academic members	9,125	12,000	11,375	11,125
Less debts written off	13,878	20,000	37,337	21,365
Less change in provision for doubtful debt	5,000	–	–3,200	–
Total subscription income	349,027	354,000	273,110	367,638
Financial income / expenses				
Financial income	1,834	–2,000	–4,052	463
Less banking costs	464	250	686	386
Unrealised loss on currency diff. and investments	–35,073		–980	–11,607
Advertising income				
Events – fees charged for services	46,239	45,000	45,000	
Total regular income	361,563	396,750	312,392	356,108
REGULAR EXPENDITURE				
Administration	210,101	215,500	205,302	199,386
Marketing and publications	2,138	10,000	3,458	9,417
Council and executive management	137,252	148,000	113,647	111,381
Commission and other groups regular support	39,000	39,000	39,000	39,000
Total regular expenditure	388,491	412,500	361,407	359,184
Surplus/deficit of regular income over regular expenditure	–26,928	–15,750	–49,015	–3,076
PROJECTS AND DEVELOPMENT				
Developmental income	19,602	10,000	10,748	–
Developmental spend	–	5,000	–	5,600
RESULT *)				
Overall surplus/deficit in the year – normal activities	–7,326	–10,750	–38,267	–8,676
Total reserves at year end	559,834	592,569	567,160	605,427
General reserve	459,834	492,569	467,160	505,427
Events reserve	50,000	50,000	50,000	50,000
IT Development Reserve	50,000	50,000	50,000	50,000
General reserve as a % of regular annual exp	118%	119%	129%	141%

Finances 2019–2022

*) FIG Council decided in 2021 to make an extraordinary reduction of all membership fees with 20% for the year 2021 due to the COVID19 pandemic to help our members through this difficult time.



Key Contacts

FIG Council 2019–2022

President



Prof. Dr. **Rudolf Staiger** (2019–2022)
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Vice Presidents



Dr. **Diane Dumashie**
(2019–2022)
RICS, UK
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Dr. **Orhan Ercan** (2017–2020)
Chamber of Surveying Engineers
of Turkey
drorhanercan@yahoo.com



The new FIG Council 2023–2026 met in February 2023 in Copenhagen for their inaugurate meeting. The new council includes President Diane Dumashie, VPs Winnie Shiu, Daniel Steudler, Mikael Lilje and Kwame Tenadu, and ACCO representative Timothy Burch (FIG Commission 1).



Mr. **Mikael Lilje** (2017–2024)
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ACCO Representatives



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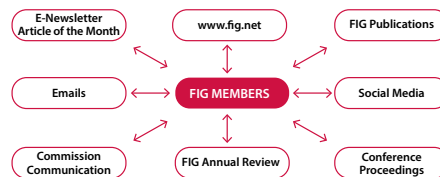
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FIG Communication



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FORTHCOMING MAJOR FIG EVENTS



FIG Working Week 2024

19-24 May **Accra, Ghana**



fig.net/fig2024

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



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



International
Federation of
Surveyors (FIG)

South African
Geomatics
Council
(SAGC)

The South
African
Geomatics
Institute (SAGI)

May 2026

www.fig.net/fig2026



FIG Working Week 2028

Paris, France

Celebrating the 150th Anniversary of FIG



FIG PLATINUM CORPORATE MEMBERS

