

Summary of the bids for 2022

The following clarification is based on information given by the bid documents. Below is a summarized comparison from given bids. All variables were submitted in the original bid for proposals. This document is a summary of each country's bid in spreadsheet format for easier comparison and is meant to be a fact based document.

ITEM and criteria	ORLANDO, FLORIDA - UNITED STATES National Society of Professional Surveyors (NSPS)	CAPE-TOWN – SOUTH AFRICA the South African Geomatics Institute (SAGI)
1. Rotation of the conference - Previous and planned conferences:	Americas (2002 - Congress)	Africa (2021, 2013, 2011, 1999 – Working Weeks)
	<p>Congresses: 2018: Euroasia (Turkey); 2014: Asia and the Pacific (Malaysia); 2010: Asia and the Pacific (Australia); 2006: Europe (Germany), 2002: North America (USA); 1998: Europe (United Kingdom); 1994: Asia and the Pacific (Australia)</p> <p>Working Weeks: 2021: Africa (Ghana) 2020: Europe (The Netherlands); 2019: Asia (Vietnam) 2017: Europe (Finland) 2016: Asia and the Pacific (New Zealand); 2015: Europe (Bulgaria); 2013: Africa (Nigeria); 2012: Europe (Italy); 2011: Africa/Arab countries (Morocco); 2009: Asia/Middle East (Israel); 2008: Europe (Sweden); 2007: Asia (Hong Kong SAR, China); 2005 Africa/Arab countries (Egypt); 2004: Europe (Greece); 2003: Europe (France); 2001: Asia (Republic of Korea); 2000. Europe: Czech Republic.</p>	
2. Country hosting of earlier FIG events and general experience	The last time an FIG annual conference was held in the Western Hemisphere (North/South America) was FIG Congress 2002, in Washington, DC USA. 2022 will be 20 years since the FIG Congress was held there.	Africa has never hosted a FIG Congress. Last Working Week in South Africa was 1999 in Sun City
3. Member association Its activeness, Commitment to FIG and to FIG 2022 Execution ability for local association	The National Society of Professional Surveyors (NSPS) is the United States of America FIG Member Association representing the surveying profession in the United States, having a membership of over 17,000. Established in 1983 and incorporated in 1991 NSPS merged with the American Congress on Surveying and Mapping (ACSM) in 2012. ACSM has been a FIG member since 1959 NSPS is a member in good standing	SAGI is a new member of FIG from SAGI. The other member from South Africa is South African Geomatics Council, SAGC, who is supporting the bid. The FIG Member Associations of the neighbouring countries Botswana and Zimbabwe are also supporting the event and will be involved. SAGI is a member in good standing
4. Supporting organisations Local support to the Congress Governmental support Financial support General support	The bid is submitted by The National Society of Professional Surveyors (NSPS) in corporation with the American Association for Geodetic Surveying (AAGS) Other supporting organizations: The International Right of Way Association (IRWA), the Florida Surveying and Mapping Society (FSMS), the Surveying and Geomatics Educators Society (SaGES), The University of Florida Geomatics Program, the Bureau of Land Management (BLM), the National Oceanic and Atmospheric Administration's National Geodetic Survey (NGS), the National Spatial Reference System (NSRS) and the Division of Realty, National Wildlife Refuge System, U.S. Fish and Wildlife Service (USFWS)	This Bid is not only from SAGI, but is an African Bid and is presented within a wider African context of work undertaken by the FIG African Task Force, remote sensing work done by African Association of Remote 2 Sensing of the Environment (AARSE) and geodetic work done under the African Geodetic Reference Frame (AFREF). Government: Rural Development & Land Reform, Western Cape Government, Western Cape Ntshona Koloni. Associations: South African Geomatics Council (SAGC), Survey Institute of Zimbabwe, Institute of Mine Surveyors, Botswana Institute of Geomatics (BIG), South African Institute of Valuers (SAIV). Universities: University of Cape Town, University of Pretoria, University of

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	Outreach to Young Surveyors, Corporates and to the Latin America region	Kwazulu-Natal, Tshwane University of Technology, Durban University of Technology, Cape Peninsula University of Technology, Mangosuthu University of Technology, BIM institute, University of University
5. Host city	Orlando, Florida.	Cape Town Cape town was voted as the #1 convention City in Africa (ICCA) and Favourite World City (The Daily Telegraph).
6. Venue Price/affordability Location of venue Internet availability Suitability of rooms, size of venue, structure and layout of the venue Catering Value for money Hotels nearby Facilities for exhibition	Swan and Dolphin Resort — Walt Disney World — Lake Buena Vista, Florida. +30,000 square meters, 84 meeting rooms, +10,000 square meters exhibit space, +11,000 square meters outdoor space, +2200 guest rooms, 15,000+ attendees.	The Cape Town International Convention Centre (CTICC). Total of 62 meeting spaces in CTICC 1 // 4 Exhibition Halls in CTICC 1 with a total floor space of 11399m2 // 6 Exhibition Halls in CTICC 2 with a total floor space of 9819m2 // 3000m2 formal and informal meeting space // Auditorium 1 - seating 1500 delegates // Auditorium 2 - seating 612 delegates // Ballroom seating 1980 delegates // 33 meeting rooms in CTICC 1 // 11 meeting rooms in CTICC 2 Full service onsite catering
7. Accessibility Flight connections Several access possibilities Security Visa issues Air fare to destination	Orlando International Airport (MCO) <ul style="list-style-type: none"> - 84 US non-stop destinations - 53 international non-stop destinations - 392 additional one-stop direct international destinations - Special Dolphin transportation nonstop \$33 (€28) per person roundtrip** Other options: Taxi = approximately \$75 (€63) each way, \$150 (€136) roundtrip** Shuttle (direct nonstop) = \$55 (€46) per person each way, \$110 (€92) per person roundtrip**	Cape Town is accessible from many destinations. 3 rd largest airport in Africa Cape Town International Airport is 20 km from the city centre. Costs to city center: Taxi – 23 USD Public transportation – 7 USD Week pass on public transportation 19 USD South Africa does not have any visa exclusions.
8. Safety and security Political stability Airport safety City safety – is it safe to move around? Political stability in country (rating must be 3 or higher)	Currently no special travel warning. Florida, Orlando and Disney World are having numerous tourists every year. Orlando is one of the larger conference cities in the US.	Cape Town has been listed as one of the safest cities in the world by conference organizing associations. Due to focused efforts, crime has been reduced by 85% since 2000.
9. Proposed dates Must meet FIG requirements	29 May - 3 June (preferred) 5 -10 June	14-20 May 2022

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Following FIG statutes Practical dates Availability of venue Other conferences at same time	10 -15 April	Now 4 congresses for 2022
10. Technical programme Coverage of all FIG Commissions, Potential partners Originality Special ideas	The plan is to provide a Spanish language technical program track to attract Spanish-speaking surveyors. Covering all 10 commissions, many partners	Covering all 10 commissions, many partners. The area is obvious for various themes, e.g. preservation and utility of Water
11. Technical tours Coverage of all FIG Commissions Originality Ideas proposed	Kennedy Space Center- home of the American space program, the Walt Disney World surveying and GIS departments highlighting their past accomplishments and current activities, Tour of the Orange County Surveying/GIS Department, Tour of the City of Orlando Surveying/GIS Department, Tour of major private surveying company facilities, Tour of National Oceanic and Atmospheric Administration (NOAA) Aircraft Operations Center, US Interstate 4 Ultimate road construction project, City of Orlando storm water inventory and lidar project showcasing city-wide drainage modeling, Tours of Orlando-headquartered geospatial companies: Certainty 3D, Faro, Riegl USA.	Local tours in the city: National Geospatial Information Department Technical Tour, Visit to NGI and Royal Cape Observatory Historical Tour, Tour to University of Cape Town Geomatics and Construction Studies (Quantity Surveying and Property Valuation) Departments e.a. Tours within South Africa: Tour to Hartebeesthoek Radio Astronomy Telescope and Cradle of Mankind Museum whole day excursion to be arranged from OR Tambo Airport before or after Congress. Tours within Africa: Tour to Uganda to visit new approaches to town planning, conservation and sustainable forestation.
12. Social programme Attractiveness and variety Proposals for dinners Attractiveness of offered dinners Proposals for tours Is the program following the overall FIG concept	Walt Disney World, Orlando Science Center, Gatorland - Alligator Capital of the World, Airboat Tours, Tupperware Museum, Fantasy of Flight, Bok Tower Gardens, Frank Lloyd Wright Sharp Family, Tourism and Education Center, Orlando Premium Outlets, Legoland, SeaWorld, Universal Studios, Wonderworks. Foundation dinner: the Hoop-Dee-Do Musical Revue Western themed vaudeville dinner show. Gala dinner: In Disney World	Dinner in the winelands, Cultural evening (African), Formal colonial gala dinner, rainbow nation street party. Several venues suggested, depending on the amount of attendees. Many possibilities for social tours
13. Attendance Expectation of international, regional and local attendance Realistic number of international and national participants	Budget based on 2500 participants High, but a possibility to reach out to US surveyors who do normally not participate in FIG conference	Project budget based on 2000 delegates + 70 exhibition booths.

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14. Accommodation Hotel costs Value for money Variation in hotel offers Closeness to proposed venue Transportation to venue	The congress is proposed to take place in Walt Disney World, in a combined hotel and conference resort. Therefore only one hotel is suggested. Guaranteed 2022 rates from \$155 to \$215 (€132 to €183) No transportation needed since accommodation and conference is held at the same price	Approximately 4500 hotel bedrooms are available within walking distance with a total of 20 000 available within a 30 minute radius. Cape Town also offers about 10 000 bedrooms via AirBnb. Price for 5* \$284/345 (low season) to 2* \$32/46 (low season) (a lot of variety/options of accommodations in CT.
15. Finances Estimate of surplus and financial risks Realistic fees proposed Fees in an acceptable price range Difference between international and national fees Realistic budget Estimated revenue	Budget based on 2500 participants + 60 exhibition booths Expenses: € 1,686,199.25 Income: € 1,716,680.23 Delegate fee: Early bird: 728\$ / 620 EUR Regular: 820\$ / 700 EUR Late: 940\$ / 800 EUR Daily: 410\$ / 360 EUR YS/students: \$ 300,00 / 250 EUR Acc persons: \$ 360,00 /300 EUR Cultural evening: \$100 / 80 EUR Gala dinner: \$ 125,00 / 100 EUR	Draft budget is based on 2000 delegates + 70 exhibition booths Expenses: € 2,124,660 Income: € 2,125,715 Delegate: 630/680/780 Student: 280/295/315 Accompanying person: 330/330/330 Day registration: 250
16. Sponsorship Estimate sponsorship and exhibition income Proposed income How realistic is proposed income Local sponsor offerings Sponsor interest to conference	Congress Sponsors \$ 120,000.00 Exhibitors: \$ 180,000 Booth fee \$3000/€2500	Sponsorship income € 272 500,00 Exhibition income € 225 000,00 Booth fee (9sqm floor space only) €2,650
17. Why host Reason for hosting	20 years ago was the last time the FIG held a congress in North/South America. Want to attract surveyors from Central and South America. The US National Geodetic Survey will replace/modernize in 2022 the NSRS horizontal and vertical datums.	<ol style="list-style-type: none"> 1. The huge Africa Continent is the major future resource center of the world. 2. Gateway to Africa for Geomatics business. 3. South Africa has well-trained Surveyors and strong Geomatics Professionalism. 4. Close relationship with other African Institutes.

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		<ol style="list-style-type: none"> 5. Strong Industry, Government and Academia support. 6. Active African member of FIG. 7. Good experience in hosting conferences. 8. The City of Cape Town is an attractive and world-renowned tourist destination. 9. A strong Commitment to Driving Geomatics in Africa.
18. Objectives and outcomes Thought through why conference should be held at destination Difference to other destinations Short term outcome Long term outcome	<p>The key outcome will result in more surveying professionals from the Americas becoming knowledgeable about and participating in FIG, especially its technical commssions.</p> <p>In 2022 FIG Affiliate Member US National Geodetic Survey will rollout the modernization of their National Spatial Reference System (NSRS) replacing current horizontal and vertical datums (NAD 83 and NAVD 88) with four plate-based reference frames and a single geopotential datum. The 2022 FIG Congress will be an excellent venue to showcase the international coverage and collaboration of this modernization effort.</p>	<p>Sensing of the Environment (AARSE) and geodetic work done under the African Geodetic Reference Frame (AFREF). All vital to the foundation of Africa’s further development. Initiatives are currently on the go to formalize a Forum of Southern African Geomatics Institutes to create a knowledge sharing platform and to ultimately facilitate in a range of regional matters.</p> <p>The lead up to Congress 2022 gives the Surveying / Geomatics community (through various councils and Institutes in Africa), a Voice to engage Governments and other policy setting groups on the targeted SDGs. Further, this Objective would necessitate action programs to create or revive networks / Institutes of Surveyors in a number of African countries. Hosting an event, drives government focus onto the UN – Sustainable Development Goals, highlights the role of Geomatics and provides the support to member associations in engaging government that Geomatics is a vital component of any economy.</p>
19. Suggested theme Thought of possible theme that fits to local/regional situation	Preserving Our Heritage— Conquering New Frontiers	Technologies and Solutions to achieve the 2030 Sustainable Development Goals. focusing on sub-themes of - Global Professional development: <ul style="list-style-type: none"> Geomatics growth in Institute creation / strengthening in the developing world Knowledge sharing and access. Bring and Showcase world class geomatics solutions and knowledge in Africa. Government Engagements and Solutions_ <ul style="list-style-type: none"> Importance of Geomatics in Governance in the developing world Driving the Sustainable Development Goals with Geomatics Data and Solutions Creation of Developing World Initiatives <ul style="list-style-type: none"> In particular, establish an Africa Wide Director Generals / Institute / Council Forum

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20. Events organized in the past three years How experienced is the host in organizing events	NSPS has organized and hosted surveying and mapping conferences the past three years with programs attracting surveyors, mappers, educators, government agencies, students, related geospatial professionals. Organising committee already in place. Experienced team. Outreach to Young Surveyors, corporates and Latin America region	Cape Town and Western Cape Convention Bureau provides destination expertise and support to associations, corporates, professional conference organisers, destination management companies and event organisers. Organising committee already in place. Experienced team.
21. Major events planned in the proposed city in 2022 Many events might affect the price level	50 th Anniversary celebration of Walt Disney world. The congress will be 8 months into the celebration which means that it will not be as crowded as in the beginning of the celebration	3 congresses, 1 conference in 2022 so far.
22. Initiatives for sustainable conference environment Is host city paying attention to environmental issues Is venue paying attention to environmental issues Is host paying attention to environmental issues	Aware of sustainability and reduction of waste. Environmental protection is key.	Aware of sustainability and reduction of waste and paper used. All kinds of waste generated during the conference will be recycled. The CTICC has a dedicated environmental task team that advises management on trends and issues in environmental management. Savings on water has special focus, and this theme can also be used in the conference as a learning to other countries.
23. New initiatives or activities Originality – but within the overall FIG concept	Spanish language technical program track to attract Spanish-speaking surveyors. Provide interpretation services for the Opening Ceremony and Plenary Sessions to Spanish The venue will be a location where everything can be held under one roof (congress, rooms, hotel(s), activities).	the hosting of such an event, drives government focus onto the UN – Sustainable Development Goals, highlights the role of Geomatics and provides the support to member associations in engaging government that Geomatics is a vital component of any economy
24. What legacy to leave locally from the Congress With host Hosting city For the surveying community	By reaching out to surveyors from Central and South America it is the hope that the connections between FIG and Latin America will be strengthened. Outreach to US Young Surveyors	The lead up to Congress 2022 gives the Surveying / Geomatics community (through various councils and Institutes in Africa), a Voice to engage Governments and other policy setting groups on the targeted SDGs. Further, this Objective would necessitate action programs to create or revive networks / Institutes of Surveyors in a number of African countries. SAGI will work with the FIG African Task Force in achieving this. SAGI is committed to supporting and contributing to the Africa Task Force. Institutes to create a knowledge sharing platform and to ultimately facilitate in a range of regional matters. We wish to facilitate such in other regions of Africa as well as through the FIG African Task Force.

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		Many Geomatics Institutions in Africa have collapsed due to lack of importance placed on Geomatics by their Government – Africa needs FIG. This is just one aspect, a worthy aim that will make for an exciting and relevant Congress.
VALUATION		
Issues supporting destination – subjective rating for Council	<ul style="list-style-type: none"> - Strong bid - Hotels and venue same place – no transportation costs, can give a “camp”-feeling with fellow participants - Already now guaranteed hotel rates - Interesting social programme – several possibilities - Good national support - Inclusion of Young Surveyors - Outreach to Latin America - Close connection between venue area (Disney World) and technical tours and themes - FIG conference has not been in Americas since 2002 - Event linked to the change of the National Geodetic Survey (NGS) replacing the datums of the National Spatial Reference System (NSRS) 	<ul style="list-style-type: none"> - Strong bid - Cooperation with and inclusion of the surrounding countries (Zimbabwe, Botswana) - General price level in Cape Town is reasonable - Easy to get around in Cape Town - Interesting social programme – several possibilities - Strong legacy - Good national and African support - - Strong African agenda - Urgent agenda on e.g. Water
Issues against destination – rating	<ul style="list-style-type: none"> - Budget based on 2,500 participants – fairly high - Large conference city 	<ul style="list-style-type: none"> - Budget – expenses + income expectations in high end – needs adjustments