



FIG Working Week 2021
Kraków, Poland



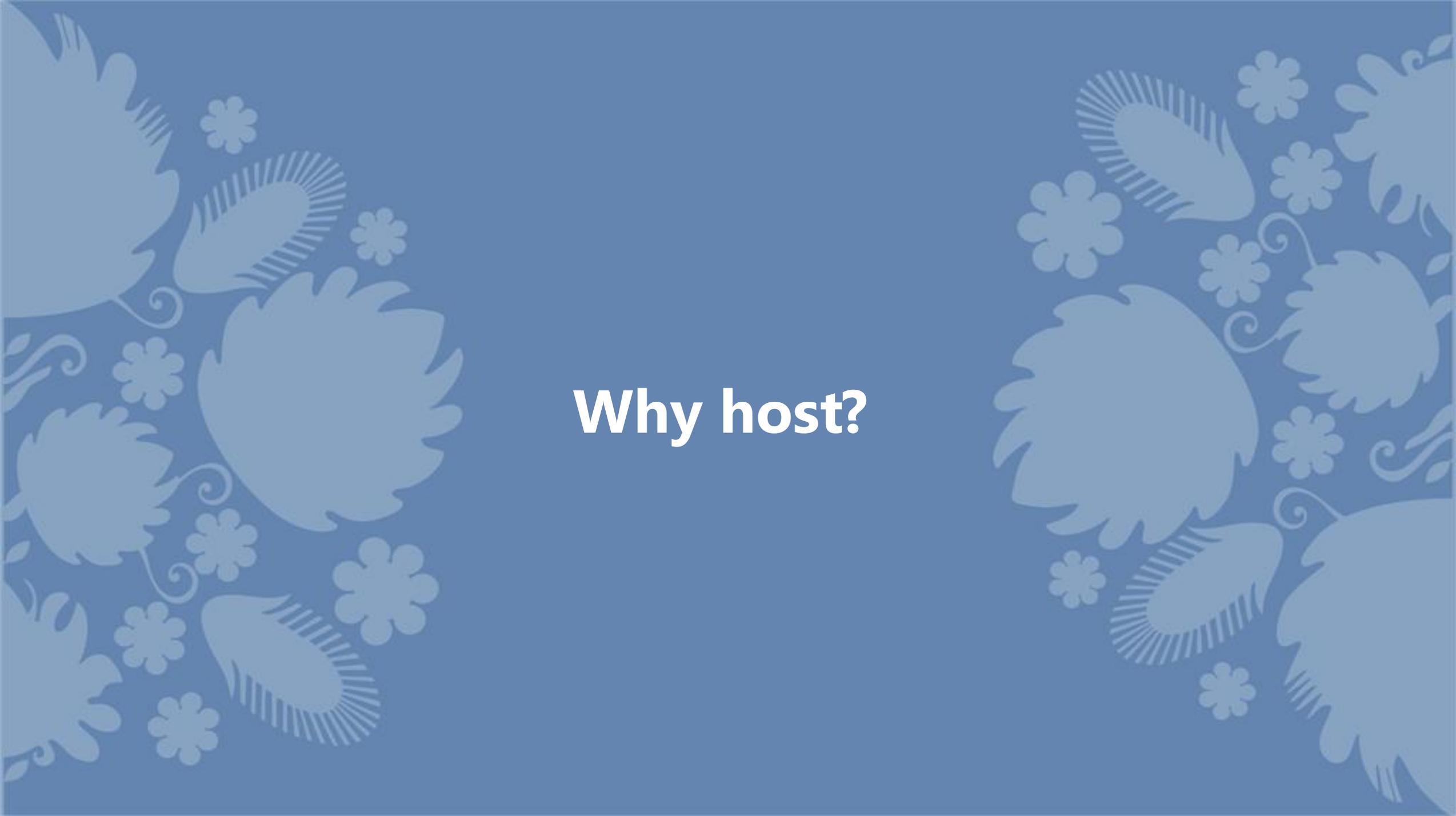
KRAKOW 2021



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Why host?

Reason for hosting

The organization of a unique geodetic event in Poland, namely FIG Working Week 2021 will allow the exchange of experience, for the first time in this part of Europe, in a country of Copernicus, who stopped the Sun and moved the Earth. Poland's convenient location in the center of Europe makes our country an ideal place for investments that have customers on markets in both Western and Eastern Europe.

Objectives and outcomes

We are proud of solutions that facilitate the work of surveyors and allow an easy access to geospatial information. We have a geoportal that enables to browse and search spatial data sets and spatial data services made available in accordance with the INSPIRE directive.

Over the past 15 years, Poland has been working to create a modern Data Base of Topographic Objects. Recently a full coverage of country by data corresponding to the details and accuracy of the classical topographic maps at a scale of 1:10 000 has been obtained. This database is a reference for a different spatial information systems as well as for the development of topographic maps in the full range of scale (from 1:10 000 to 1: 250 000).

Preparations for the development of the topographic resources in 3D format are already underway. A highly accurate digital terrain model (Digital Terrain Model) was also developed on the basis of aerial photographs.

Poland has also a full coverage of the current data obtained through the process of airborne laser scanning (ALS), which, among other things, is used in the flood protection system of our country.



Reason for hosting

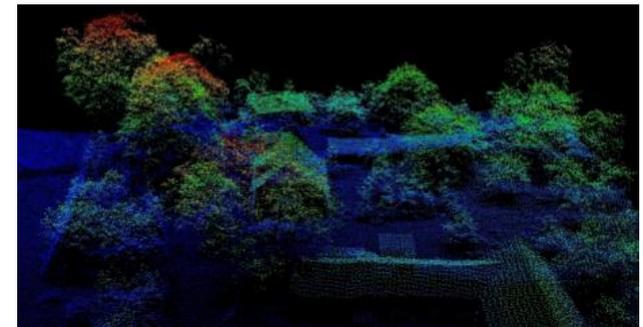
The whole area of our country is covered with a uniform numerical fundamental map, the content of which is probably the most rich in detail compared with other types of such maps in the world. Situational details, land forms, networks of ground utilities, geodetic and cadastral data can be found on one map, in the various thematic layers.

We would like to share our experience in the construction of a uniform cadastre for the whole country, taking into account the difficult historical background of various parts of the country. Works on the creation of the Integrated Information System about Real Properties are now continued. These are just some of the achievements in the creation of a modern infrastructure for spatial information in Poland.

It is worth noting that universities and research institutes run observatories and laboratories as a part of a national, European and global observation system, primarily in creation and maintenance of the reference systems and research infrastructure in the area of broadly defined geodynamics, gravimetry, metrology and meteorology. A permanent cooperation among others with EUREF (Regional Reference Frame Sub-Commission for Europe) and the IGS (International GNSS Service) has been realized since many years.

We would like to host the FIG Working Week in a country, where there probably is the biggest number of surveyors per capita. Polish surveyors have many years of experience in the work carried out in different parts of the world, from the 70s of the last century in Afghanistan, Algeria, Ethiopia, Cameroon, Tunisia, Libya, Egypt, Iraq, Kuwait, the United Arab Emirates, Senegal, Nigeria, Bahrain, Vietnam, Mongolia and many other countries.

For a few years remotely controlled platforms increasingly used for surveying have been the pride of Polish science and industry and our scientists and entrepreneurs constantly improve oneself in the construction of unmanned systems. We have large aircraft factories that belong to large corporations with many private companies alongside that are still small, but very fast developing. Unmanned systems have a chance to become a Polish area of expertise and showcase abroad.



Reason for hosting

Since the entry into the European Union, Poland has been recording an impressive economic growth. It was the only country in the European Union to have avoided a recession during the financial crisis. Poland is the largest country and economic leader in this part of Europe that connects the West with the East.

Poland has been successful in organizing great global events, both in the field of geodesy - "3rd International Cadastral Congress" organized in 2011 by the Association of Polish Surveyors with the participation of the International Federation of Surveyors - as well as in other spheres, for example: "UEFA EURO 2012", "2014 FIVB Volleyball Men's World Championship", "International Summit of the Member States of the Atlantic Alliance (NATO) between 8-9 July 2016 in Warsaw and the World Youth Days - an unprecedented event, which between 26-31 July 2016 gathered in Krakow more than 3 million people from 187 countries.

The organization of these events confirmed the good transportation facilities and confirmed that our country is able to provide full security.

As the organizers of the FIG Working Week 2021 we will be guided by the following objectives:

- ✓ Presentation of the achievements of Polish geodetic and cartographic heritage and achievements of other countries worldwide,
- ✓ Comparison of the solutions used in different countries in the field of modern technology, science and administration.

We are convinced that the FIG Working Week will be a fruitful global meeting of geodetic and cartographic community, which will have the following effects:

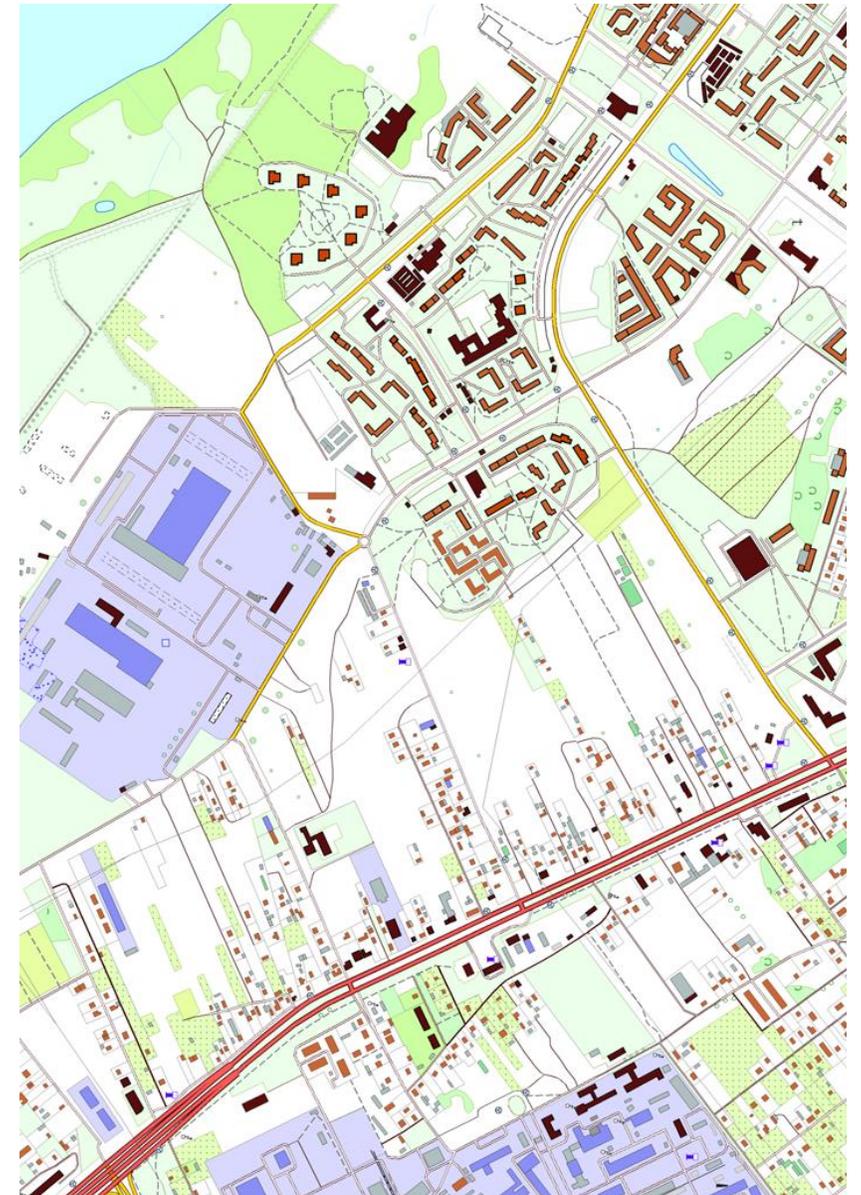
- ✓ Expanding recognition and potential of Polish geodesy and cartography
- ✓ Expanding international cooperation and finding optimal solutions in the field of modern technology, science and administration.



Short-term and long-term effects

By organizing the FIG Working Week 2021 we foresee to obtain the following short-term and long-term effects:

- ✓ The opportunity to exchange experiences in the field that covers all the subject area of all the FIG commissions.
- ✓ The opportunity to establish contacts between representatives of scientific institutions, government administration and professionals dealing with geodesy and real property as well as between all entities that are individuals, companies, etc.
- ✓ The opportunity to establish contacts between students under frames of the Young Surveyors group.
- ✓ The popularisation of knowledge in the field covering the subject area of all the FIG commissions worldwide as FIG is a global organisation.
- ✓ The promotion of FIG in Poland as well as the promotion of our local associations abroad.
- ✓ The promotion of academies, which will support the organisation of FIG – the presentation of scientific and educational offer (establishing cooperation, exchanging staff and students).
- ✓ The promotion of periodicals including 'Przegląd Geodezyjny', which will support the organization of the FIG (media partner) - strengthening of the journal by establishing contacts between foreign representatives of the editorial board and the Program Council. The potential interest of the international community in publishing in our journals, which in long term will allow a better evaluation of journals and indexing them in international databases.



Initiatives for sustainable conference environment

Initiatives, which organizers plan to realize in respect of sustainable conference environment are based on the three mutually connected pillars: **KNOWLEDGE, EXPERIENCE, COMMUNITY.**

FIG Working Week is a great opportunity for presenting knowledge especially in the field of surveying techniques in a variety of applications. This know-how should be propagated to the widest possible circle, not limited only to the participants but also to the local communities of surveyors, which builds community promoting the brand and the idea of FIG industry associations.

While building community involved in the organization of FIG we wish to activate young inexperienced volunteers from universities studying geodesy, ie. The University of Science and Technology and the University of Agriculture located in Krakow and other domestic universities will help to secure a wide access to information. It will also help in building experience, full and comprehensive service and spreading knowledge about the conference and accompanying events in the academic and local communities.

The organizers pledge to hold the conference with the maximum reduction of environmental impact. Among the key initiatives which are planned we can find: the minimalization of the paper-based materials into favour of digital documentation transmitted for mobile devices. The organizers want to involve the mass media to create newsletters for the conference participants, also using the social media.

As it is in FIG Working Week tradition, organizers plan to hold exhibition including sponsors' participation as well as a variety of events accompanying the conference which is expected to expand the impact of the conference on the local community and to integrate participants with the place and culture of the region.

The organizers wish to point out that all kinds of wastes generated during the conference will be recycled. Because of its geographical location the city of Krakow especially cares about the environment .



Initiatives for sustainable conference environment

New initiatives or activities

The organizers propose some new initiatives and activities which include:

- ✓ Post-conference seminars to popularize the effects of a conference in the local environment – associated surveyors and non-members of societies – promotion of FIG activities.
- ✓ Promotion of FIG Working Week effects among students - sharing experience related to the work of surveyors presented during the conference.
- ✓ Post-conference publications in journals at regional and national level with regard to the translation of selected works that are to popularize the solutions worked out during the FIG Working Week.
- ✓ The organizers propose not only to reward the best of the publications, but also to help young scientists in appreciation of their work by awarding the young scientists.



What legacy to leave locally from the FIG Working Week

The aforementioned initiatives are designed to leave a legacy that will remain in the country and region of the organizers of the FIG Working Week. The organizers particularly indicate the effects that will definitely affect the local sector and these are:

KNOWLEDGE:

- ✓ The exchange of knowledge between participants, among which quite a large number will be participants from Poland and Central and Eastern Europe.
- ✓ Post-conference publications in journals at regional and national level with regard to the translation of selected works that are to popularize the solutions worked out during the FIG Working Week.
- ✓ Post-conference seminars to popularize the effects of a conference in the local environment – associated surveyors and non-members of societies – promotion of FIG activities.

EXPERIENCE:

- ✓ Exchange of experience between participants
- ✓ Awards for young scientists and students for the best speech and poster allowing to gain experience on the international level for early-stage researchers
- ✓ Promotion of FIG Working Week effects among students - sharing experience related to the work of surveyors presented during the conference.

COMMUNITY:

- ✓ Active participation of pupils, students, academia, representatives of geodetic companies will enable broadening and strengthening of the community related to surveying, as well as it will enable, especially young people, to establish new contacts
- ✓ Increased awareness of the FIG brand, as well as of the associations cooperating with FIG
- ✓ Drawing the attention of local authorities to the role and work of the surveyor, which is essential and sometimes underestimated in various types of investment processes, through the organization of thematic exhibitions related to the industry
- ✓ Brand building of the region and culture of Malopolska - the southern region of Poland



Expected number of international and national participants

Estimated number of participants: between 1000 – 1400 participants.

General Assembly: 400 pax

Conference:

- ✓ paying participants – international: 1000-1400 pax
- ✓ paying participants – national: 200 pax

Students: 120 pax

Accompanying persons: 150 pax





Member association

Member association - **Association of Polish Surveyors (SGP)**

Historical background

The first surveyor's organization was established at the Polish territory in 1916 under the name "The Union of Surveyors". At that time Poland did not exist on the map of Europe as an independent country, but the course of The 1st World War slackened occupation regimes so that it was possible to establish professional organization of Polish surveyors. Several regional surveyor's societies were set up. Since then Polish surveyor's association has been existing continually excluding the period of The 2nd World War. The name of association was transformed to the "Union of Polish Surveying Associations" (1925), "Union of Licensed Surveyors" (1926), "Surveyor's Union of Republic of Poland" (1945) and Association of Polish Surveyors", SGP (1953). Professional Organization of Polish Surveyors joined International Federation of Surveyors (FIG) in 1926. Polish surveyors hosted the FIG Permanent Committee Meetings three times: in 1932 in Warsaw, in 1959 in Kraków and in 1985 in Katowice. Association of Polish Surveyors organized under FIG frames "The 1st International Cadastral Congress" in 1998 in Warsaw. Polish colleagues chaired FIG Technical Commissions (Commission 2, 6, 7, 8). Association of Polish Surveyors is a member of International Society of Photogrammetry and Remote Sensing as the Polish Society of Photogrammetry and Remote Sensing acts as a scientific Section of the SGP. Polish Society of Photogrammetry joined the International Society of Photogrammetry in 1930.

Organization

Association of Polish Surveyors SGP acts as a voluntary organization of individuals being professional surveyors due to the diploma certifying education in land surveying. Legal basis of SGP results from Polish Parliament Law on Associations. SGP has its own "Statute" and "Code of Ethics". SGP has regional branches coinciding generally with provinces of the country. SGP Convention takes place every three years. Convention gathers ca 100 delegates elected proportionally in regional SGP branches. Convention's duty is to elect SGP President, SGP Head Board, Auditor's Commission and Disciplinary Commission. Convention resolves SGP organizational and professional policy for the three-year term of office of elected bodies. The Head Board of SGP meets at least three times a year. Head Board elects Executive Board of 5 persons (three Vice-Presidents, Treasurer and Secretary General). Executive Board meets if necessary, usually every two weeks. SGP President acts as a chairperson of the Head Board and Executive Board. Association's activities are organized by the Technical Commissions and Technical Sections.



Member association - **Association of Polish Surveyors (SGP)**

Activities

SGP activities concern the following three fields: professional, scientific and social.

SGP professional activities comprise mainly the following items:

- ✓ Running the procedure of recognition the professional qualification of surveyors and licensing
- ✓ Professional qualification is certified by Association's degree of professional specialization for individuals and Association's recommendation for surveying companies
- ✓ License in surveying is granted by the Surveyor General according to the qualification and examination procedure; SGP organizes the proper training courses and SGP's representatives are nominated by Surveyor General as members of the Examination Commission for licensing
- ✓ Consulting the legal acts when they concern the field of broadly understood surveying (law on surveying, cadastre, LIS/GIS, construction etc.)
- ✓ Organizing professional contests concerning the quality of surveying projects, e.g.: contest of quality of the land consolidation projects
- ✓ Running Association's self-help system aimed at financial subsidies granted for those who find themselves in difficult living conditions

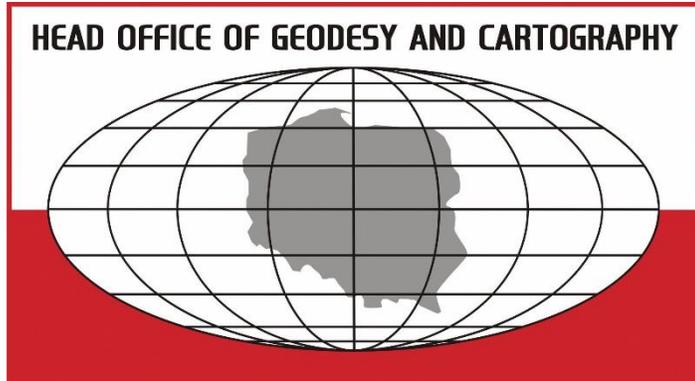
SGP scientific activities are focused on organization of symposia and technical conferences:

- ✓ Three domestic conferences or symposia are organized yearly (on an average); each gathers ca 200 participants (with singular international participation),
- ✓ Organization/co-organization of the Polish-Czech-Slovak "International Geodetic Days" - every year in one of the countries
- ✓ Symposia co-organized with the Committee for Geodesy, Polish Academy of Sciences
- ✓ Local workshops and trainings.

SGP social actions comprise sports and leisure functions:

- ✓ Surveyors' championships in the following disciplines: tennis, bridge, chess, down-hill-skiing, sailing and tramping.
- ✓ Club-meetings
- ✓ Surveyors' carnival-balls etc.

Supporting organization



The Head Office of Geodesy and Cartography is an office operating under the direct patronage of the Surveyor General of Poland. The Surveyor General of Poland performs tasks specified in the Surveying and Cartographic Act, particularly:

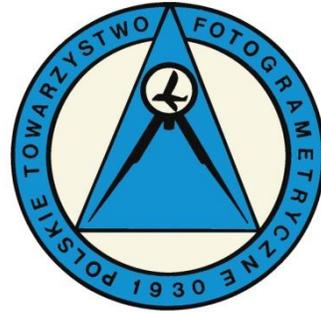
- ✓ Supervising realisation of the state policy in the scope of land surveying and cartography.
- ✓ Playing a function of a higher level body, as understood pursuant to the Code of administrative conduct in relation to voivodeship inspectorates of land surveying and cartographic supervision, and supervises and controls their actions.
- ✓ Maintaining the national surveying and cartographic centre, and allocating funds from the Surveying and Cartographic Centre Fund.

- ✓ Maintaining records in the systems of information on lands with general state importance, and cooperating with other resorts in establishment and management of the geographic information systems.
- ✓ Cooperating with international and regional organisations as well as bodies and offices of other countries, specialised in the area of land surveying and cartography.
- ✓ Initiating scientific and R&D works in the scope of organisational and technical standards, as well as application of IT, photogrammetric and satellite solutions in the field of land surveying and cartography, and within the state land information system.
- ✓ Granting professional qualifications in the area of land surveying and cartography, keeping the register of qualified persons, and cooperating with local governments and professional organisations associating land surveyors and cartographers.
- ✓ Implementing tasks in the scope of defence matters, crisis management and protection of confidential information pertaining to land surveying and cartographic activity, ensuring that the legal provisions related to personal details protection are followed, and monitoring operation of the data security management system.
- ✓ Developing guidelines related to common taxation of real property, and supervising the procedure.
- ✓ Developing principles regarding agreements on location of the designed infrastructural network systems.
- ✓ Creating and maintaining the geoportal of spatial information, as the central access point for services (such as searching, reviewing, downloading, transforming) within a full thematic and territorial range of infrastructure.
- ✓ Keeping publicly available records of spatial data collections and services covered by the infrastructure, and providing them with uniform identification
- ✓ Being responsible for contacts with the European Commission, in relation to cases specified in the Spatial Information Infrastructure Act.

Supporting organizations - others



Polish Federation of Engineering Associations



*Polish Society for
Photogrammetry and Remote Sensing.*



**Geodezyjna
Izba Gospodarcza
od 1994 roku**

Geodetic Chamber of Commerce



*Polish Association for
Spatial Information*



Polska Geodezja Komercyjna
Krajowy Związek Pracodawców Firm
Geodezyjno-Kartograficznych

*National Union of Employers of
Geodesy and Cartographic Companies*



*Warsaw University of Technology Faculty of
Geodesy and Cartography*



*University of Warmia Mazury in Olsztyn
Faculty of Geodesy, Geospatial and Civil Engineering*



WGGiŚ

*AGH University of Science and Technology
Faculty of Mining Surveying and
Environmental Engineering*



*Local journal of geodesy science.
The owner is Association of Polish Surveyors*



Events organized in the past

Events organized in the past

FIG meetings in Poland:

- 6th FIG Permanent Committee Meeting 1932
2 - 3 Sep. 1932, Warsaw, Poland
- 26th FIG Permanent Committee Meeting 1959
4 - 7 Sep. 1959, Krakow, Poland
- 52nd FIG Permanent Committee Meeting 1985
9 - 16 June 1985, Katowice, Poland

Cadastral congresses in Poland:

- 1st International Cadastral Congress, 17-20 Nov. 1998, Warsaw, Poland
- 2nd International Cadastral Congress, 19-21 Dec. 2003, Cracow, Poland
„Reliable cadastre in the service of citizens and institutions”
- 3rd International Cadastral Congress, 23-25 Nov. 2011, Warsaw, Poland
„Cadastre in sustainable spatial management”

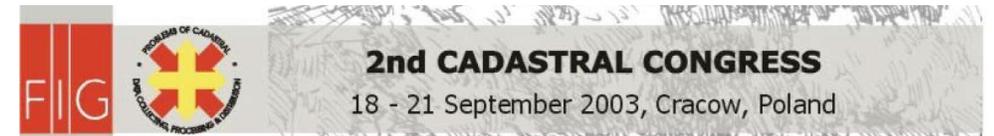
The International Polish-Czech-Slovak Geodetic Days

The aim of the International Polish-Czech-Slovak Geodetic Days is to integrate professional and cultural surveyors from neighboring countries. Surveying days are held every year in a different country. First *Geodetic Days* took place in Zilina in Slovakia on 16-19.05.1995.

XXIII the International Polish-Czech-Slovak Geodetic Days will be organized in Poland (Warsaw, 18-20 May 2017).

This meeting is organized by professional associations of neighboring Slavic countries: Association of Polish Surveyors (SGP), Český Svaz Geodetů a Kartografů (CSGK) and Slovenská spoločnosť 'Geodetov a Kartografov (SSGK).

Between 2013 and 2016 the Association of Polish Surveyors organised 47 local events including conferences, seminars and competitions.



Events organized in the past

Selected conferences, seminars, competitions organised by the Association of Polish Surveyors in the period 2013-2016:

- 10th Podlasie GIS Forum "Is it possible to implement GIS painlessly?", Serwy near Augustów, June 13-15, 2013.
- 16th Research and Technological Conference on "Legal and implementation aspects of modernisation of the cadastre versus new legal regulations", Kalisz, September 19-20, 2013.
- 2nd Forum on "Education and professional development of surveyors and cartographers ", Warszawa, October 17, 2013.
- Research and Technological Conference "Geodetic measuring systems for building industry", Warszawa Serock, June 26-28, 2014.
- 17th Research and Technological Conference "Real Estate Cadastre" on "assessment of changes introduced by new legal regulations", Kalisz, September, 2014.
- Polish Research Symposium "Remote Imaging Methods for 3D Modelling", Poznań-Wąsowo, 18-20 September, 2014.
- 20th International Polish-Czech-Slovak Geodesy Days, Germany, Berlin, 6-9 October, 2014.
- The central stage of the 37th Contest of the Geodetic and Cartographic Knowledge, Bydgoszcz, 9-11 April, 2015.
- 8th Polish Geoinformation Symposium on "Modern Geoinformation Technologies in Spatial Modelling", Warszawa Serock, 17-18 September, 2015.
- 12th Research and Technological Conference on the Current Issues of Engineering Geodesy, Warszawa Serock, 22-23 October, 2015.
- The central stage of the 38th Contest of the Geodetic and Cartographic Knowledge in the academic year 2015/2016, Opole, 31 March - 2 April, 2016.
- 13th Podlasie GIS Forum, Białystok, 23 - 25 June, 2016.
- 19th Kalisz Research and Technological conference on: "Modernisation of the cadastre, computerisation of the National Geodetic and Cartographic Resources, data interoperability with respect to creation of the Real Estate Integrated Information System and utilisation of the EU funds and funds from Regional Development Programmes in the period 2016-2020", Kalisz, 15 - 16 September, 2016.
- 20th National Photogrammetric Symposium "Photogrammetry for Geoinformation", Wrocław, 19 - 21 September, 2016.
- 11th Technological Conference on coordination of locating designed technical infrastructure networks, Legnica, 20 - 21 October, 2016.



Organizing Committee

Organizing Committee

MSc. Stanisław Cegielski – President of Polish Association of Surveyors

Prof. Andrzej Hopfer

Prof. Krystian Pyka

PhD. Paweł Hanus

PhD. Janusz Walo

PhD. Andrzej Pachuta

PhD. Ludmiła Pietrzak

PhD. Małgorzata Buśko

PhD. Krzysztof Bakuła

PhD. Dominik Próchniewicz

MSc. Włodzimierz Kędziora - General Secretary of Polish Association of Surveyors

MSc. Jarosław Wysocki

Elżbieta Biel - President of Kraków Association of Surveyors





Suggested theme

Suggested theme

„Towards excellence in measurements“



The background is a solid blue color with a repeating pattern of light blue, stylized floral and feather motifs. The motifs include various flower shapes, some with multiple petals, and several feathers with distinct barbs. The pattern is dense and covers the entire background.

Proposed Dates

Proposed Dates



For the FIG Working Week we propose 3 skilfully picked options.

OPTION 1: STARTING FROM FRIDAY AS DAY #1
25.06-1.07.2021

OPTION 2: STARTING FROM MONDAY AS DAY #1
31.05-6.06.2021

OPTION 3: STARTING FROM FRIDAY AS DAY #1
02-08.07.2021

Krakow ICE Congress Centre is very popular place for business meetings. It's modern interior imparadises the most demanding customer. The proposal od dates is mostly depends on ICE Congress Centre aviability. Also, in the end of May Krakow becomes a beautiful and hospitable city for tourists. You can do there a lot of outdoor activities. For example, go on the foot guided tour or track in the mountains. Warm weather and sunny days will make your stay in Krakow unforgettable!

The background is a solid blue color with a repeating pattern of stylized white floral and leaf motifs. The motifs include large, rounded leaves with serrated edges, smaller five-petaled flowers, and elongated, ribbed leaf-like shapes. The pattern is dense and covers the entire background.

Host Country

Host Country - Poland



Why should Poland be your next destination?

Poland – situated in „the heart of Europe“, is a country of rich history and cultural heritage, beautiful nature with Europe’s oldest primeval forest and exciting atmosphere of the present day.

The most recognizable Polish great personalities are: Pope John Paul II, Lech Walesa, Maria Skłodowska-Curie, Fryderyk Chopin, Nicolaus Copernicus. Access to Poland is easy and relatively inexpensive.

There are a lot of reasons to visit Poland:

- Perspective country with rapidly growing economy
- Plentiful flying connections
- Safety. Poland is one of the safest countries in Europe
- High standard of services
- 100 % Polish Hospitality
- Stable currency course and affordable prices.... We guarantee, that in Poland you will be afforded not only for a cup of coffee!

Why Krakow?



Krakow values:

- Great location and accessibility
- Perfect accommodation, large number of hotels in various standards
- Affordable place to visit
- Rich history; historic buildings and museums
- Top meeting industry facilities

It's hard to think of a better place to learn Polish culture than Cracow. The city combines impressive cultural heritage with a unique **vibrant atmosphere**.

Krakow is a cradle of Polish culture and history. Often referred to „Little Rome" or „Florence of the north”.

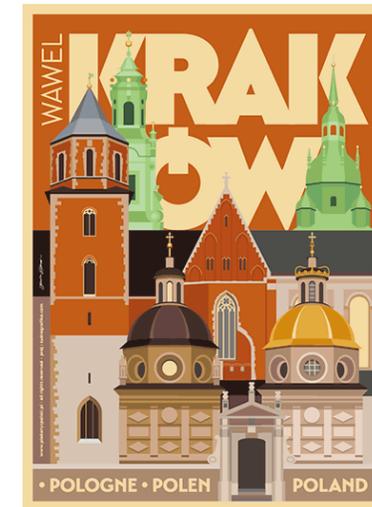
For many years Krakow has been the main destination for foreign tourists and the **most recognisable** Polish city abroad.

Krakow is a former capital of Poland, which has **rich past**. City wrapped in legend, where time flows differently, and where every moment becomes a moment of history.

Krakow is an interesting **place for shopping** - especially regarding art, glass and design jewelery, all at reasonable prices. In Czartoryski Museum you can see Leonardo da Vinci's *The Lady with an Ermine*.

Krakow has a **great number of restaurants** with Polish and International food (some of them are on Michelin list).

Krakow's unique meeting of cultures means that **everyone feels good here!**



Krakow Accessibility



Travel To Kraków

There are several possibilities to visit Kraków.

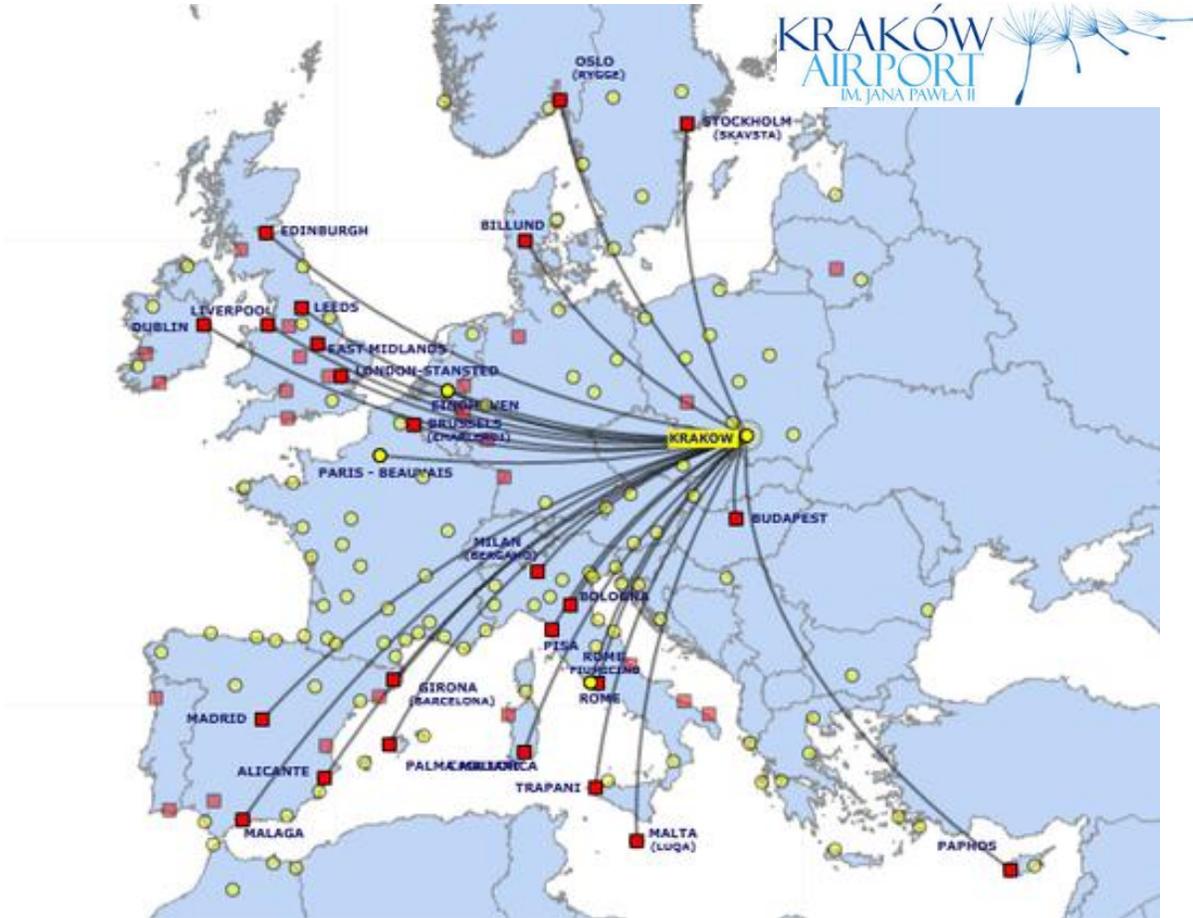
You can easily get there by:

- Plane – there is modern Balice Airport with regular connections to over 50 airports around Europe
- Train – there are numerous connections to cities in Poland and Europe
- Car – Kraków is conveniently situated so it can be also easily reached by car
- Other possibility to reach the city is to travel by bus.

Travel Documents

In most cases a valid passport is sufficient for travelling to Poland. In some cases you will need to apply for a visa. For more information you should contact Polish Embassy.

Krakow Accessibility



Arriving By Air

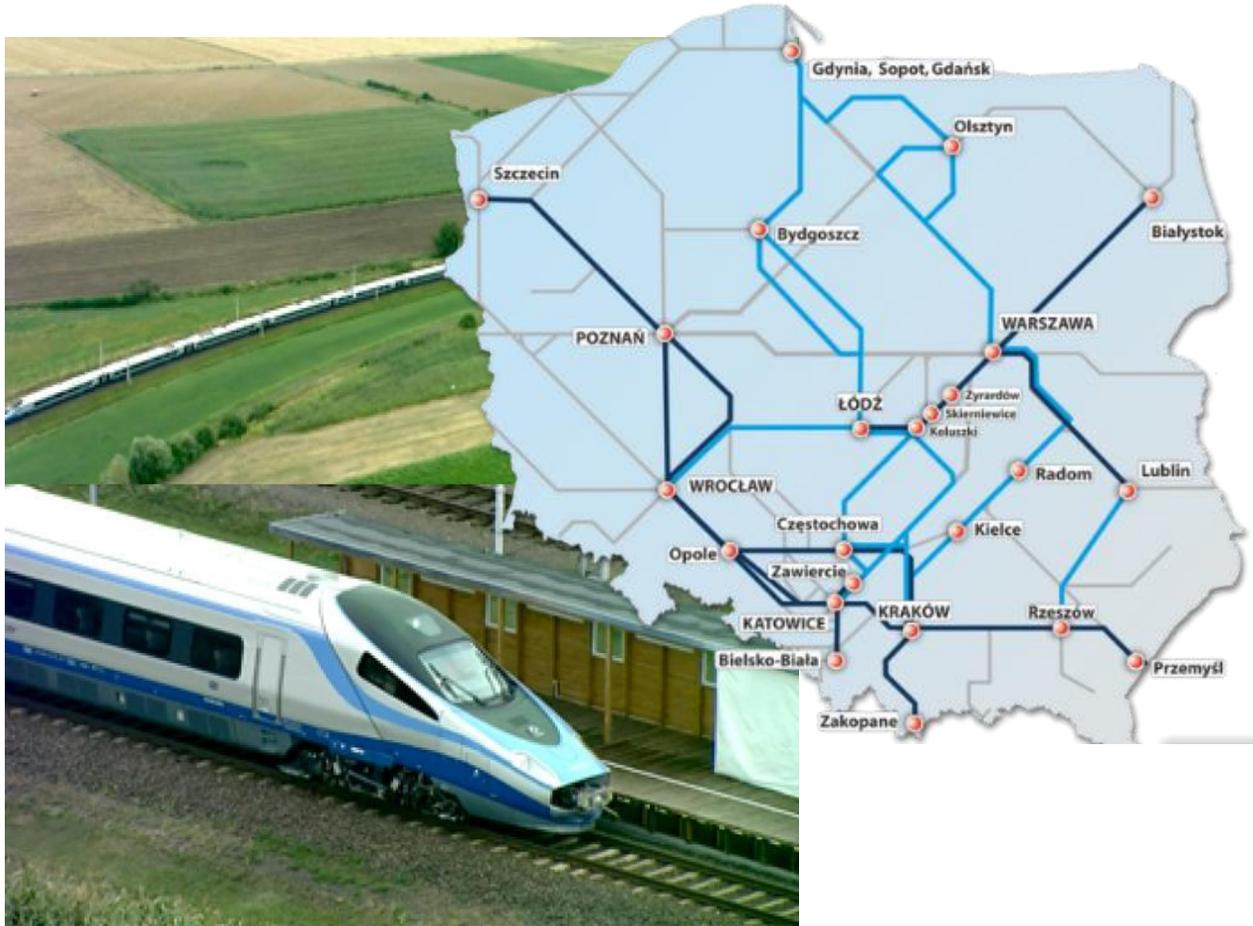
Kraków Airport is a modern object located just 17 km west of the city centre. Also, it's the largest regional airport in Poland which serves regular flights to 80 destinations, such as Amsterdam, Berlin, Brussels, Frankfurt, London, Munich, Paris, Rome, Vienna and Zurich. It takes no longer than 20 minutes to arrive at the ICE Krakow by taxi from the airport.

Balice is conveniently designed so that travellers have easy access to the train station and parking garage.

Krakow city is intersected by the A4 highway (a section of the European route E40) and the S7 road.

Alternatively, you can travel to Krakow via two other airports: Katowice Airport (1h) and Rzeszow – Jasionka (1.5h).

Travel around Poland



Train Connections

Other convenient way to visit Kraków is by train. In fact it is probably the best way to travel around Poland if You plan to visit some other cities. Thanks to track modernization and new high-speed Italian Pendolino trains it has never been more convenient. By train, you can travel from Warsaw to Krakow in 2.5 hours.

Railway connection is the quickest way to get to the city centre from Balice Airport. Journey time is 18 minutes and trains are leaving every 30 minutes.

It is no problem to obtain reduced prize tickets, they are available via ticket machines on platform or on-board the train.

Kraków Główny, main station is situated in the city centre. It is connected with the Galeria Krakowska shopping mall. There are also all kind of modern conveniences for the travelers like waiting rooms, escalators or additional consumer opportunities such as cafes, supermarkets, souvenir or book stores.



Key cultural events in Krakow

The biggest cultural events in Kraków



International Festival of Independent Cinema Off Plus Camera - The great event of world cinema.

**NET I A
OFF CAMERA**
INTERNATIONAL FESTIVAL
OF INDEPENDENT CINEMA



Sacrum Profanum - One of the most interesting European music events.



The biggest cultural events in Kraków

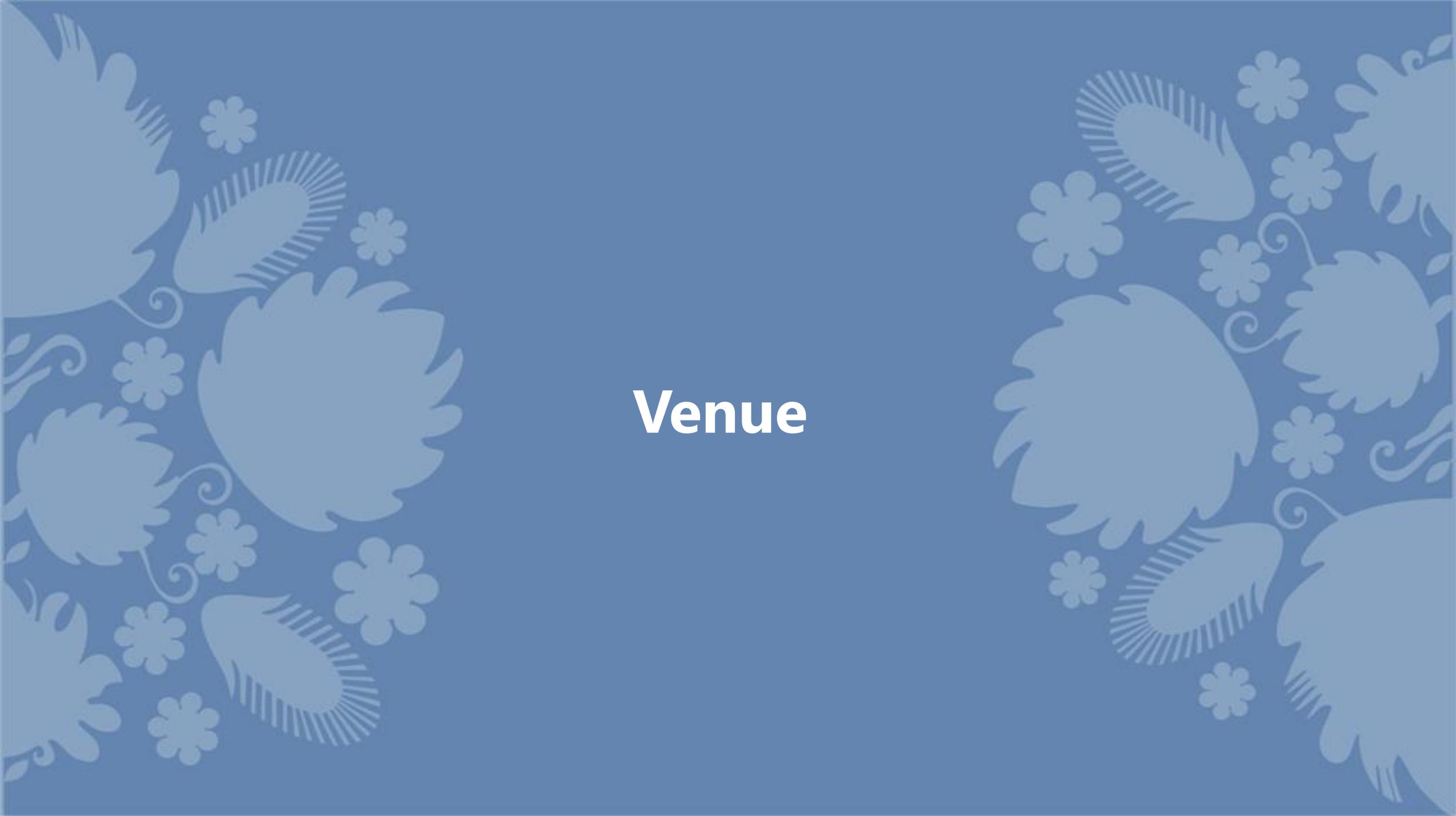


Jewish Culture Festival - One of the oldest and largest Jewish Culture festivals in the world



World Youth Days – The biggest event in Poland.



The image features a solid blue background with decorative floral and feather motifs in a lighter shade of blue. These motifs are positioned in the corners, creating a symmetrical, ornate border. The central focus is the word "Venue" in a bold, white, sans-serif font.

Venue

Venue For FIG Working Week 2021



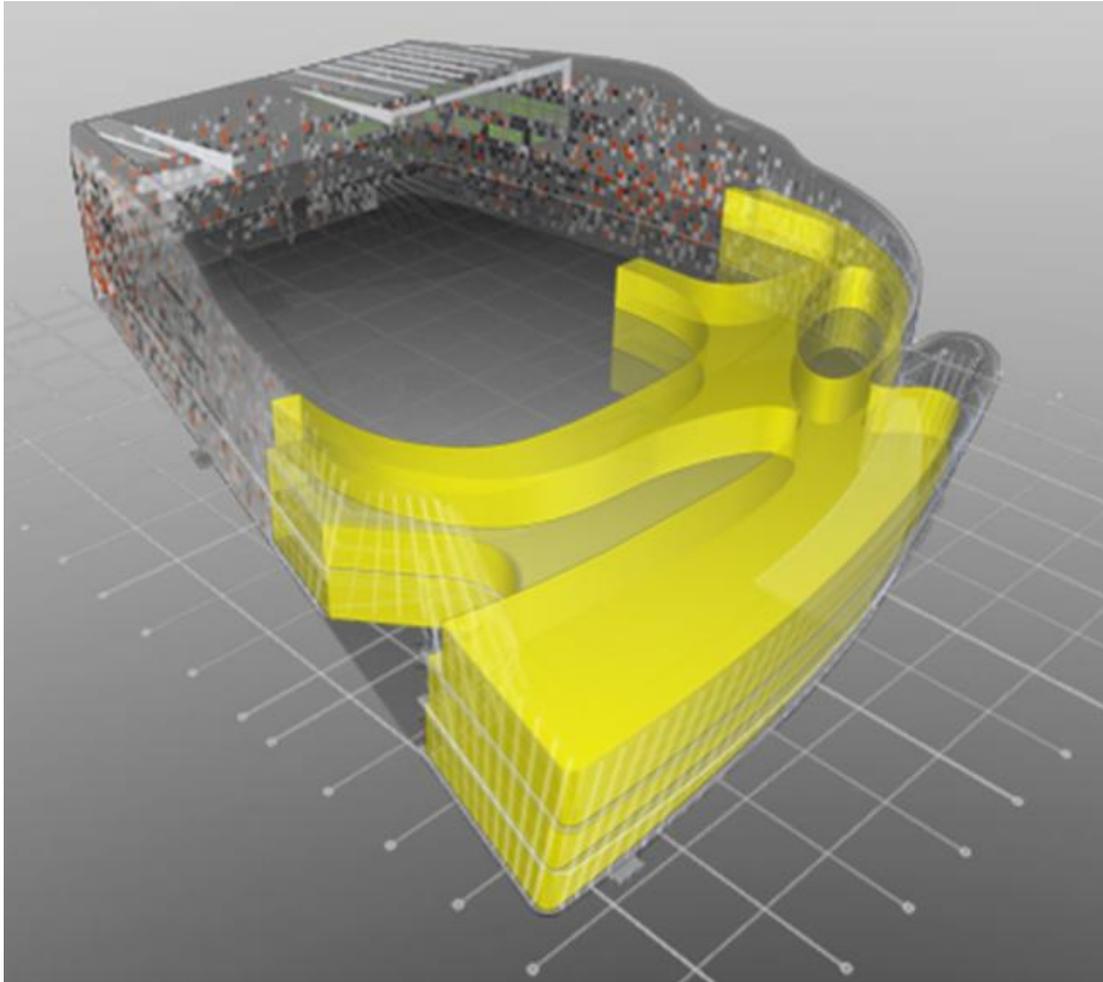
ICE CRACOW IN NUMBERS

- 37 000 sqm of surface
- 3 main halls
- 2100 pax in the Auditorium Hall
- 600 pax in the Theatre Hall
- 300 (2x150) pax in the Chamber Hall
- 500 sqm in the Conference Halls Complex
- 3 levels of futuristic Foyer
- 347 parking places

MAIN ENTRANCE TO ICE CRACOW CONGRESS CENTRE



Venue - floorplans: FOYER (Levels F0, F1, F2)

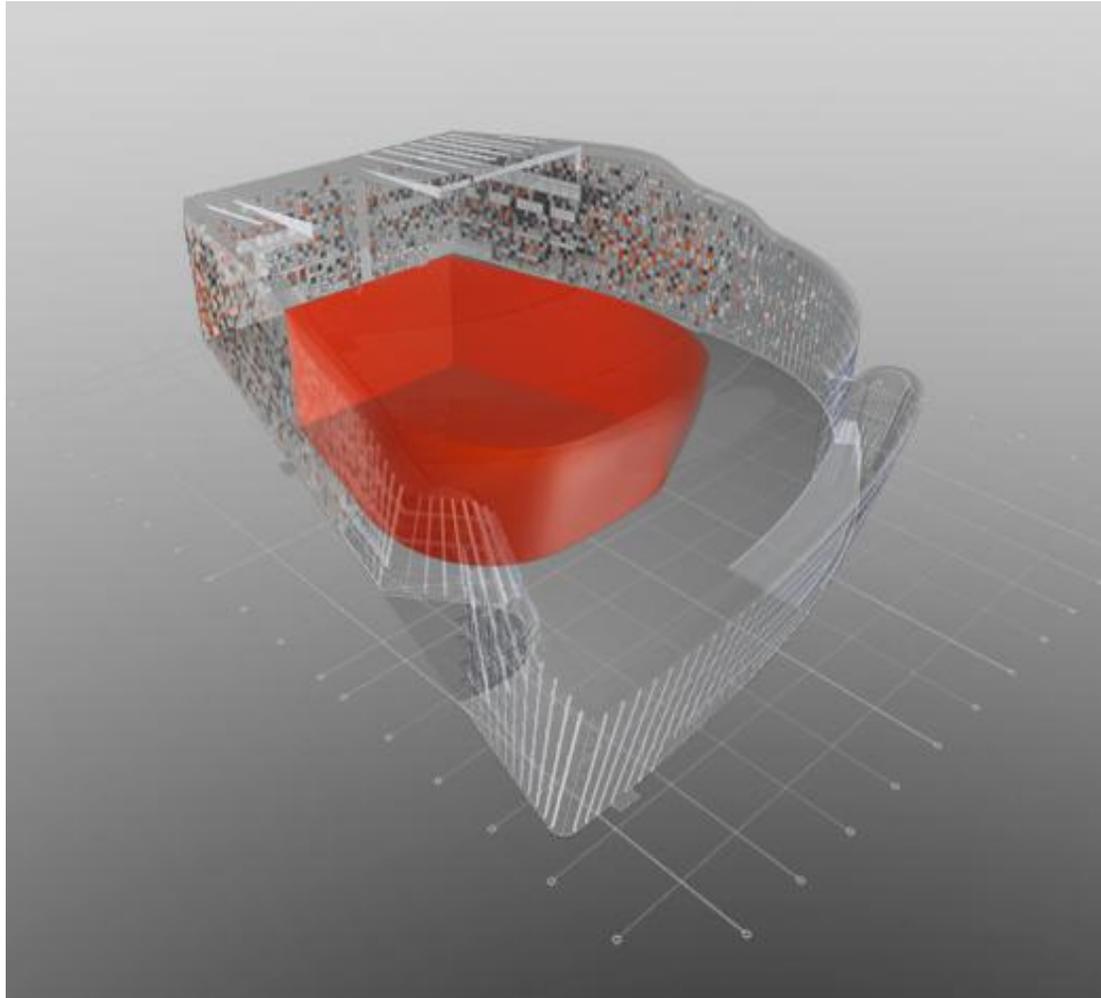


Function for FIG WW: Registration, Exhibition + Catering area

Foyer located on three floors: F0 – 1800 m² (including the Theatre Hall), F1 – 1000 m² and F2 – 650 m²



Venue – floorplans: AUDITORIUM HALL

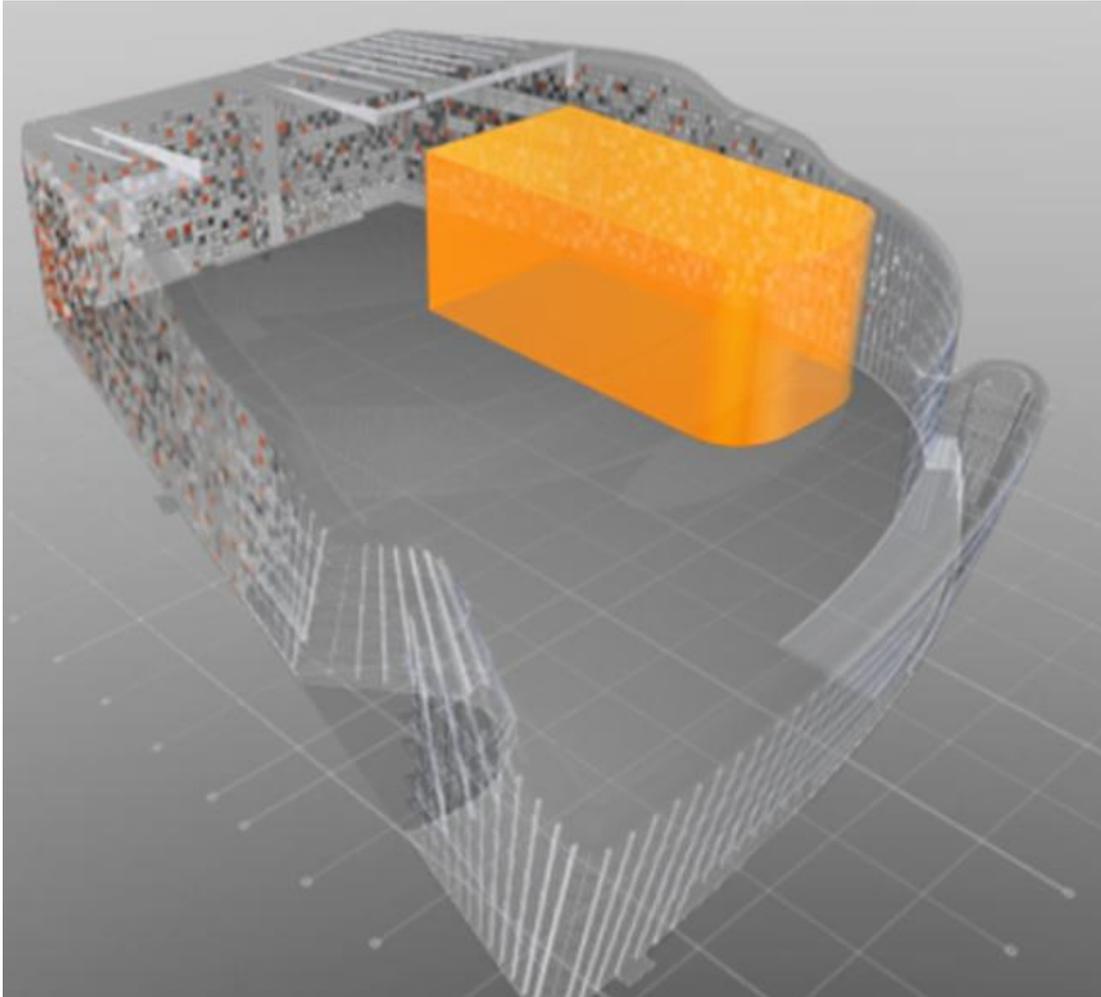


Function for FIG WW: Opening Ceremony & Plenary Sessions

Max theatre capacity: 2100 pax

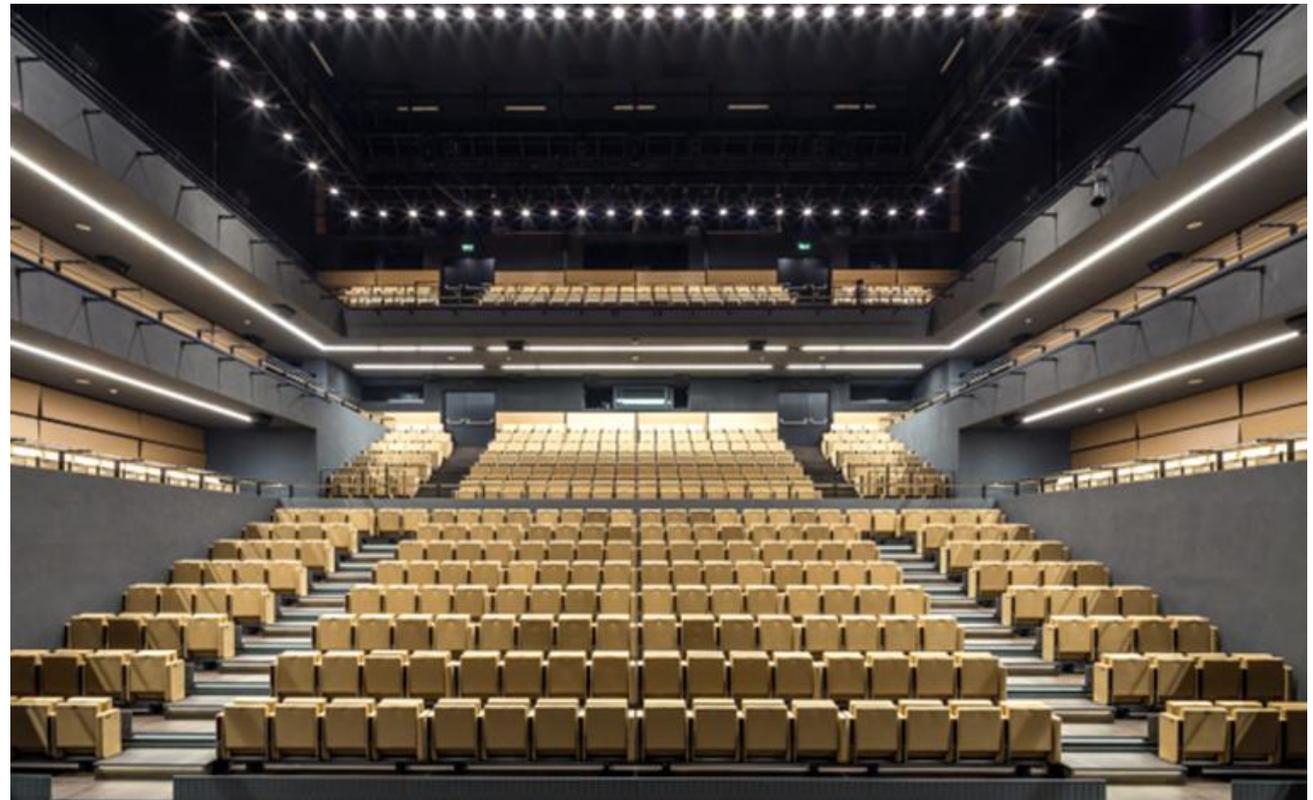


Venue – floorplans: THEATRE HALL

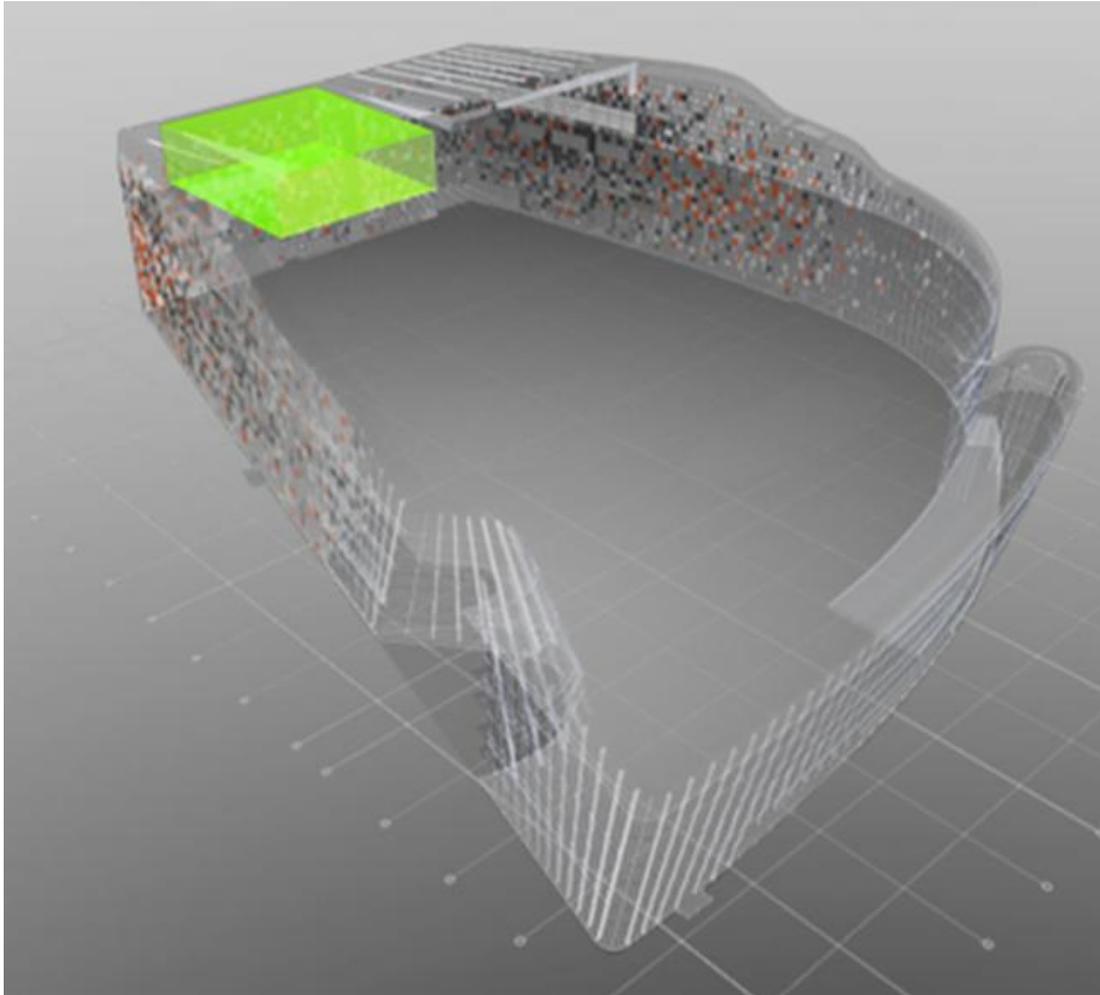


Function for FIG WW: Technical Session 1

Maximum theatre capacity: 600 pax



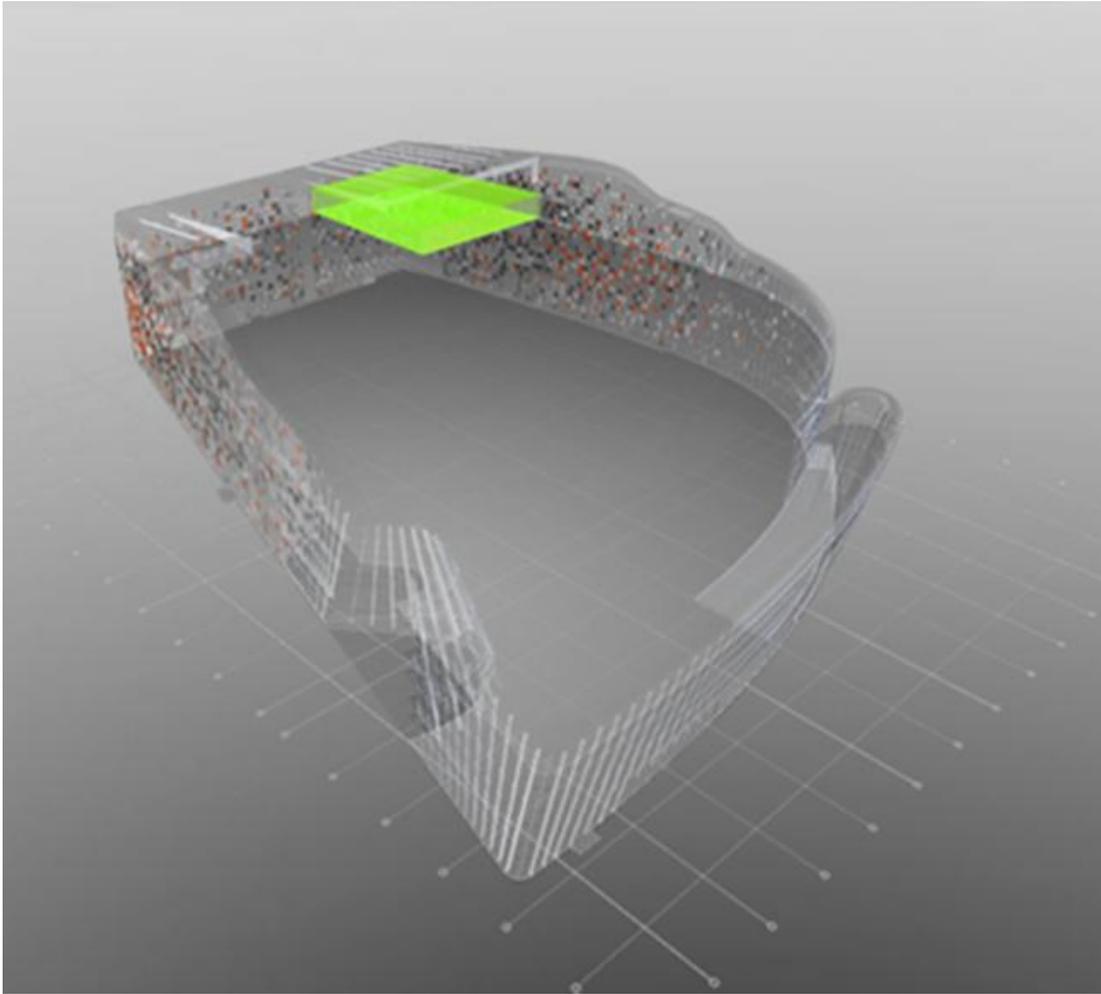
Venue – floorplans: CHAMBER HALL



Function for FIG WW: General Assembly & Technical Session 2
Max theatre capacity: 300 pax or 2 x 150 pax



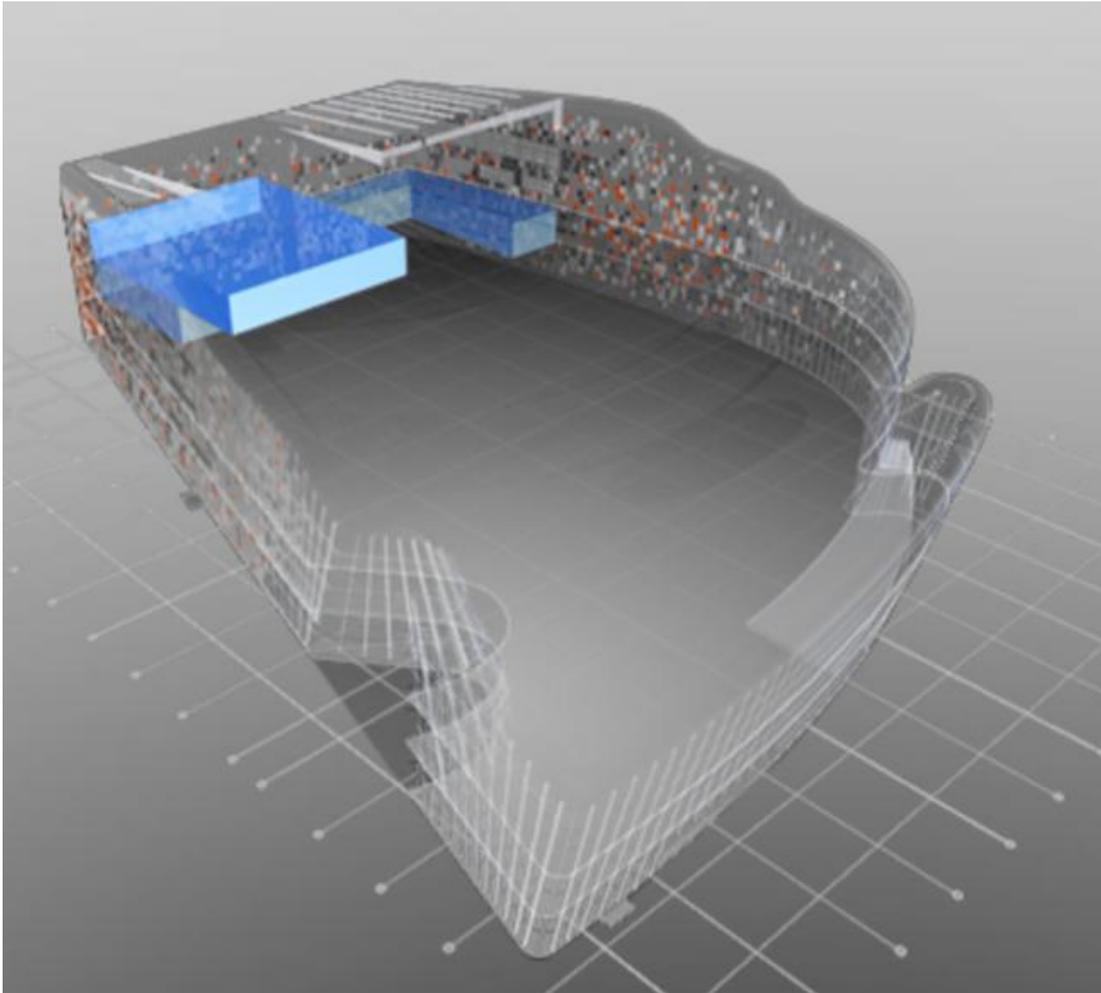
Venue – floorplans: CONFERENCE HALL COMPLEX



Function for FIG WW: Technical Sessions 3, 4, 5, 6, 7, 8, 9, 10
300 pax, 2 x 150 pax, 3 x 100 pax, 4 x 80 pax or 11 x 30 pax



Venue – floorplans: MULTI-FUNCTIONAL ROOMS



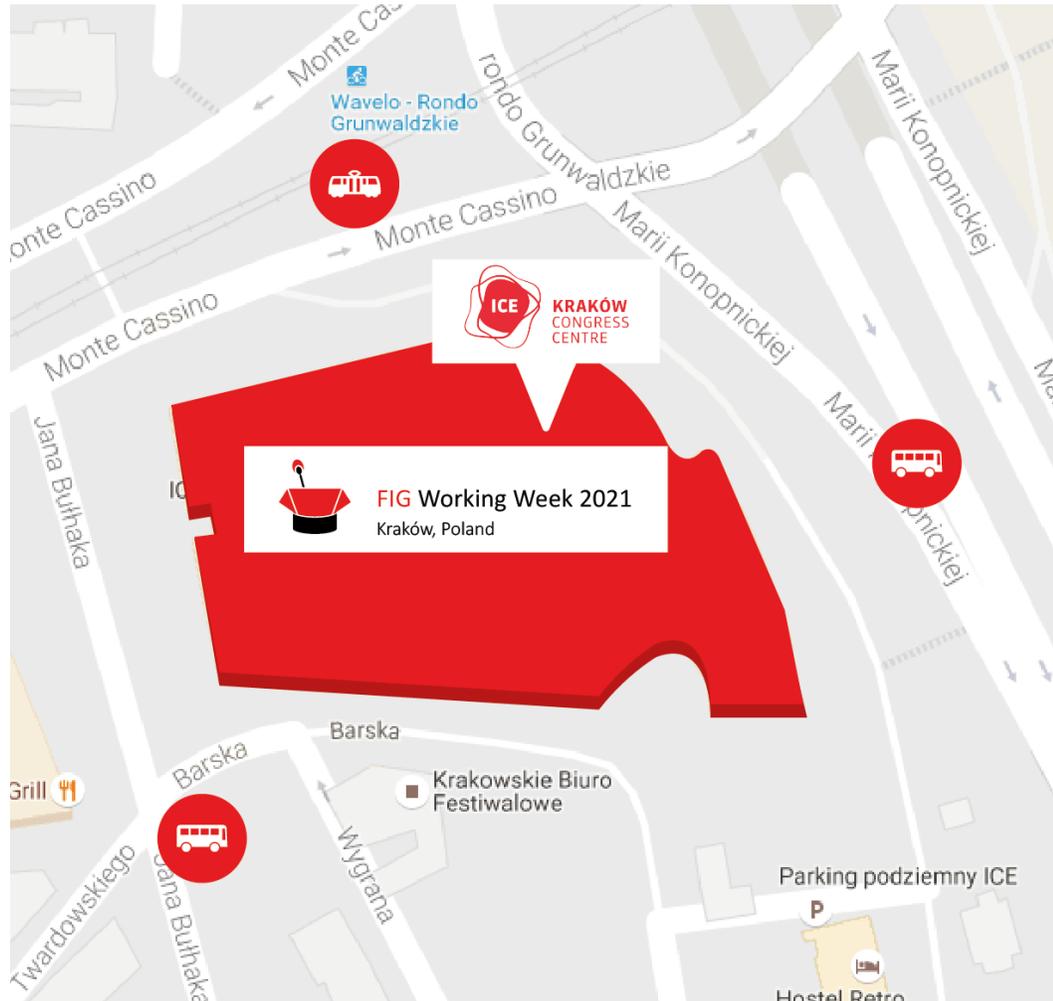
Function for FIG WW: Council Meeting + Commission Annual Meetings



Conference Venue. Previous Events



Venue Accessibility



ICE Access

ICE Congress Centre in Kraków is located in the heart of former Polish capital, in the vicinity of Vistula river just within 1 kilometer distance to the Wawel Hill.

The ICE Krakow is located conveniently in the city centre, near a large transportation hub. You can reach it by foot from the Old Town within 15 minutes or get there by public transport from any point of the city.

By tram:

Centrum Kongresowe tram stop, tram routes: 11, 18, 22, 52, 62, 72

By car:

ICE Kraków in Congress Centre is situated by Monte Cassino street (on the north), Jana Bułhaka street (on the west), Marii Konopnickiej street (on the east side) and Wierzbowa and Barska streets (on the south). On site there is a two-level underground parking lot (capacity for up to 350 vehicles).

By bus:

Centrum Kongresowe bus stop, bus routes: 101, 112, 124, 144, 162, 164, 169, 173, 179, 184, 194, 412, 424, 503, 608, 610

Political stability & safety in Poland

According to the new OECD ranking Poland is currently the safest country in Europe and 2nd safest country worldwide.

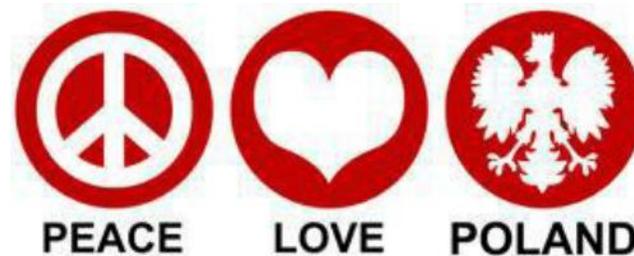
In times of global economic crisis Poland has strengthened its position, not only in the region of Central and Eastern Europe but also across the continent. Foreign investors willingly invest their capital in Poland, treating it as a safe haven in times of economic instability.

All places of interest or where people congregate, tourists or business people, such as airports, railway stations or the more important museums and places of interest are well policed or have private security agents present. There is in fact a large police presence with many foot patrols or police cars. The patrols are very visible in their black and pistachio day glow uniforms (uniforms much like in other countries in the EU). This presence is proof that the Polish state takes the security of its citizens and visitors very seriously.

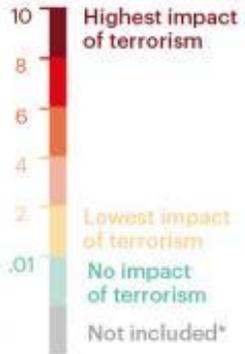
In 2016 there were two big worldwide range events in Poland:

- **NATO Summit with the many presidents and heads of Governments**
- **World Youth Days (2 mln young people came to Cracow for meeting with Pope Francis)**

The organization of these events confirmed the good transportation facilities and confirmed that our country is able to provide full security.



**THE IMPACT
OF TERRORISM**

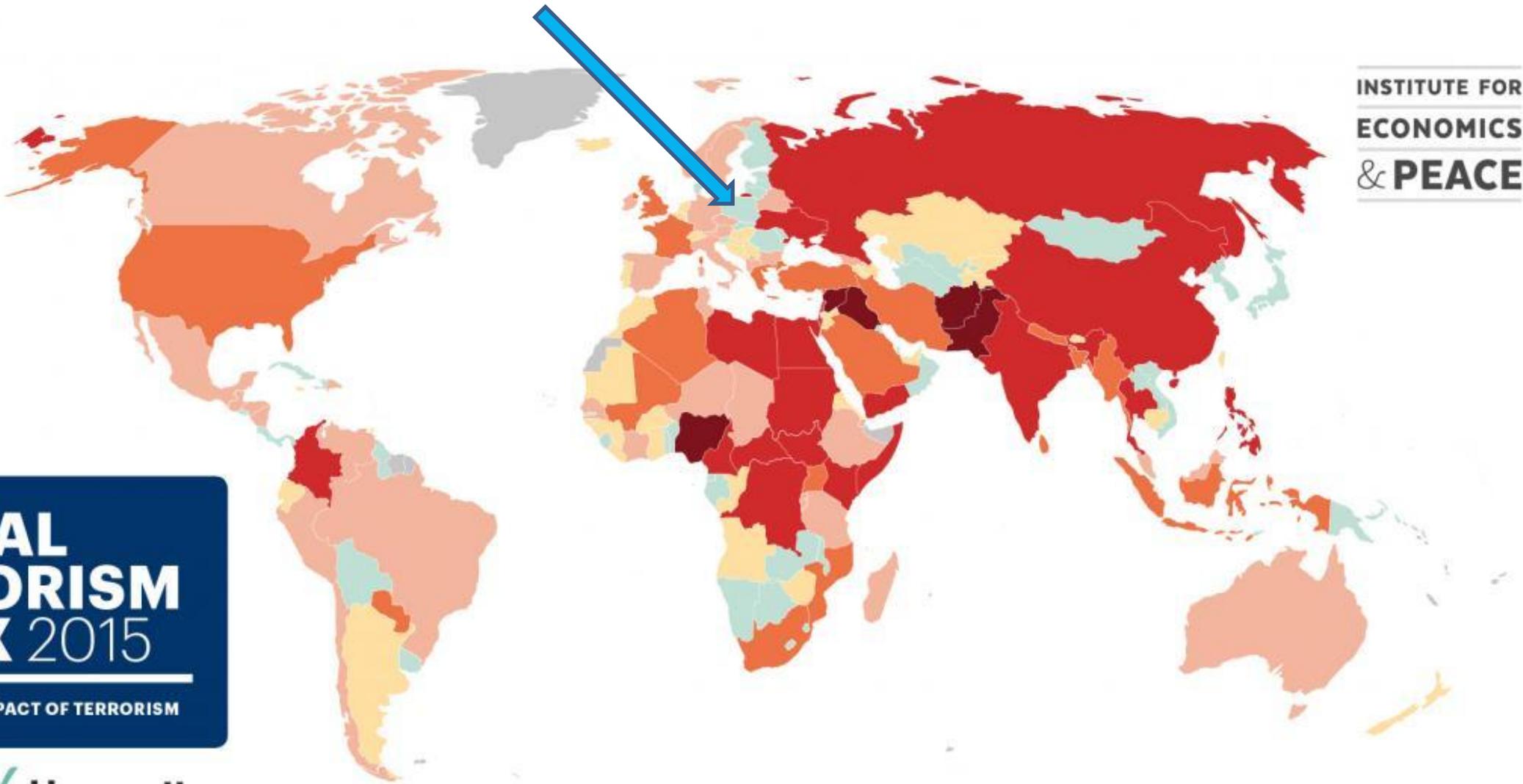


INSTITUTE FOR
ECONOMICS
& PEACE

**GLOBAL
TERRORISM
INDEX 2015**

CAPTURING THE IMPACT OF TERRORISM

Vision *of* Humanity.org





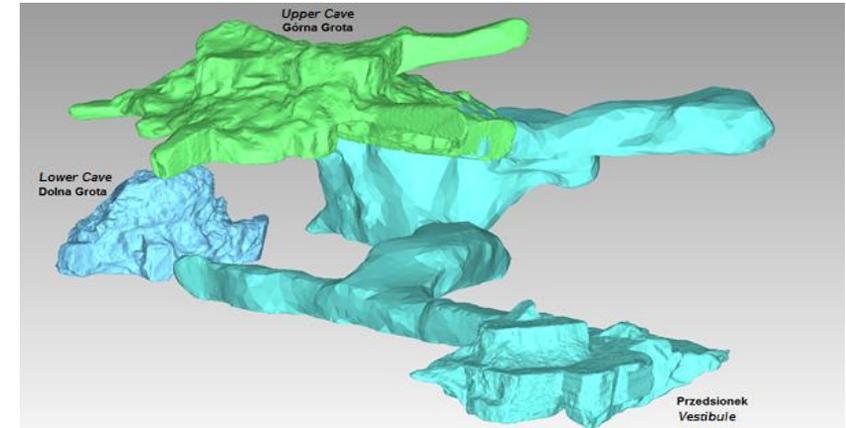
Technical tours

Technical tours

Option 1 - Wieliczka Salt Mine

The "Wieliczka" Salt Mine is the most famous mine in Poland. It owes its uniqueness in the world to its original geological structure and over 700 years of operation and mining tradition. The history of the "Wieliczka" Salt Mine is inextricably linked with the history of Poland; the mine is a monument of material and natural values. One of the natural reasons for protection of the mine is the great geological diversity within and its differences compared to other salt deposits. The Wieliczka deposit is located in the western part of the saliferous formation, at the head of the Carpathian overthrust. Its latitudinal extent is approximately 10km, and the width is in the range of 0.5 to 1.5 km. Deposit formations belong to a substage of Wielician - the middle part of the Badenian stage - and are referred to as the Wieliczka formation.

An inventory of the mining object was carried out using the 3D laser scanner. Scans were performed in the angular resolution of 4mgon, which gives a density of measurement points of 3mm/5m. The value of this error is of the order of 5-10 mm for areas not occupied by crystals (sidewalls, footwall, part of the ceiling).



Model of Crystal Caves from laser scanning



Technical tours

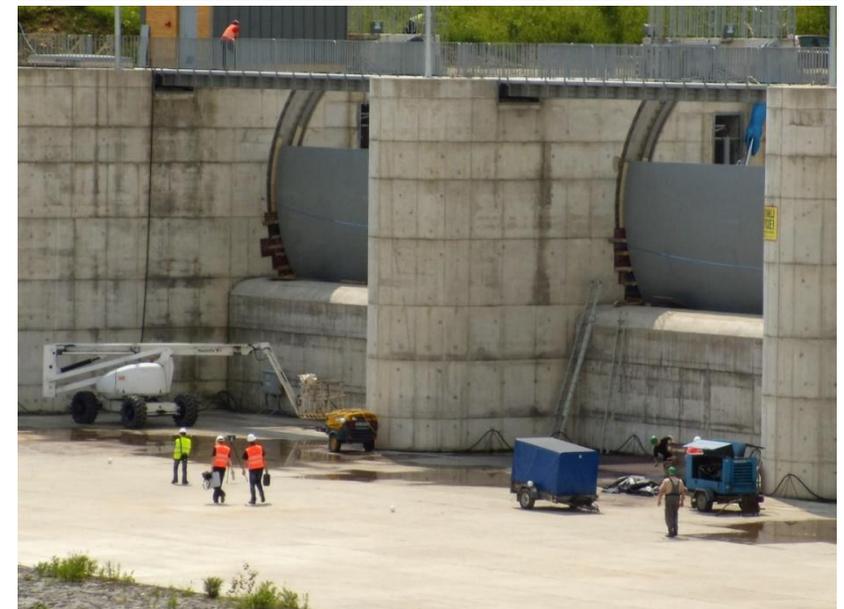
Option 2 - Swinna Poreba Reservoir on the Skawa River

The reservoir is being constructed in Mucharz, Stryszów and Zembrzyce municipalities and the dam - on the 26.6 km of the Skawa River course. The capacity of the reservoir will achieve 161 million cubic metres and its maximum size will equal 1035 hectares.

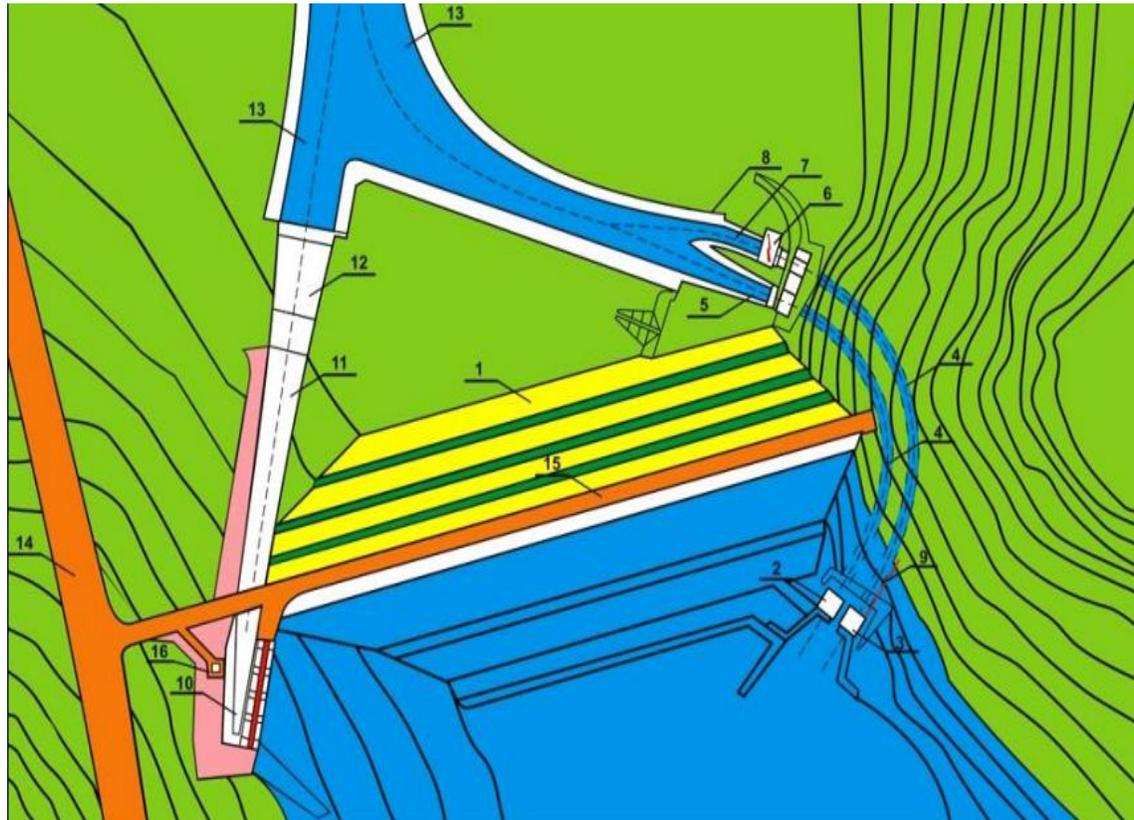
It was designed as a multi-purpose reservoir which performs the following functions:

- Flood protection of the Skawa River Valley downstream the reservoir, the Vistula River Valley, and of the City of Cracow
- Drought protection - increasing the minimum outflow from the reservoir from - 0.77 m³ /s to 6.4 m³ /s
- Generation of renewable energy at estimated 14.8 GWh per year
- Water supply for Silesia and in emergency (in the case of the Tresna Reservoir failure) for the City of Cracow,
- Enriching the landscape and the ecosystem in the areas surrounding the reservoir,
- Enhancing tourism and recreation potential in the areas adjacent to the reservoir.

The earth dam (54 m high and 640 m long) with the tight core has been constructed since 1986, with some breaks. It is planned to fill the reservoir in 2017. The dam system consists of the main dam, the power plant and the restocking centre. The visit will start from the intake heck and its controlling station. Then the visitors will walk on the dam crown to closing towers of the outflow and power towers. The main attraction may be to visit the gallery inside the dam. One of its task is to control the construction stability and o check permeability of the tight core of the dam. Then, other elements, the power plant and the restocking centre may be visited when passing by the stilling basin.



Technical tours



Technical tours

Option 3 - AGH University of Science and Technology

The AGH Cracow University of Science and Technology is one of the best and most renowned modern Polish universities. For many years it has been ranked in the top of the list of institutions of higher education. AGH UST is a leading Polish university in modern technologies, and belongs to a group of prestigious international educational centres.

The AGH University of Science and Technology, established on 20th October, 1919, until 1949 known as the Academy of Mining, founded after long-lasting endeavours which had started in 1782, the date when the Ore Commission was established, has been continuing the traditions of the Academy of Mining in Kielce (1816-1827), inaugurated by Stanisław Staszic. The university, being a technical school, serves science and industry through educating students, the development of academic staff, as well as research and development. The university cherishes its traditions and educates students to be honest, responsible people both at work and as the members of the society, according to its motto: "Labore creata, labori et scientiae servio" (Created in labour, I serve labour and science).

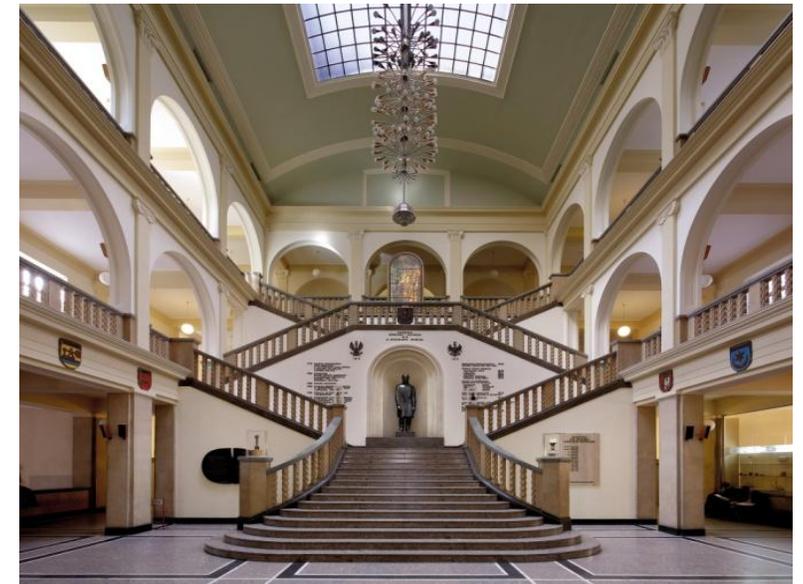
Faculty of Mining Surveying was established October 1, 1951. But its traditions (particularly associated with surveying mining) date back to the 1920s. In 1990 the name had been changed to the **Faculty of Mining Surveying and Environmental Engineering**.

The current structure of the Faculty consists of the following units:

Department of Engineering Surveying and Civil Engineering, Department of Geoinformation, Photogrammetry and Remote Sensing of Environment, Department of Geomatics, Department of Mining Areas Protection, Geoinformatics and Mining Surveying, Department of Environmental Management and Protection,

The above division of the departments is closely linked with the issue of research, which also is represented by the fields of study conducted at the Departments of Surveying and Cartography. The training is conducted in 1st, 2nd and 3rd level and postgraduate studies.

The Faculty has a large scientific and research that allows for the implementation of projects related to many areas of science. In particular: - very well equipped instrument warehouse for students (and in departments) with a variety of measuring equipment, stations for photogrammetric measurements, GPS permanent station (which is a part of the national and European system of reference stations ASG-EUPOS). At the Faculty are also Geodetic Metrological Laboratory, Laboratory of Telemetry, training shaft and many of computer labs.



Technical tours

One of the basic directions of scientific and research activities of the Faculty, continued from its inception and having all the characteristics of a scientific school is a field of research related to the prediction and evaluation of effects of mining on the rock mass, surface area and built environment and engineering. The faculty is basically the only one in the country and one of the few in the developing world research in the field of mine surveying. It is also the initiator of the implementation of new measurement techniques, with particular emphasis on methods of information and telemetry.

They are also being developed works on the field of satellite geodesy and GNSS techniques, especially regarding the use of geodetic satellite observation to solve problems occurring during the implementation of the investment and in the assessment of movement and technogenic geodynamic. A very important element of research and education is the use of air and ground-based laser scanning to analyze the geometry of spatial objects (also in the ground – e.g. mine shafts, creating a 3D maps. Also more intensive research is being conducted with the use of unmanned aerial vehicles (UAV), and integration of sensors measurement within the built systems for monitoring phenomena of spatial and time-varying.

Looking to the future, the Faculty does not forget also about the origins of geodesy, which measurements were associated with the real estate cadastre. All the time studies are related to land records and wider real estate management.

The research on the field of digital photogrammetry and remote sensing, have reached a world level. They are dedicated to the techniques of providing information about the area for the construction of geographic information systems (GIS). They are specially aimed at the needs of engineering and environmental protection.

For decades, the Faculty has been developing the issue of environment protection and development. Our Faculty was one of the forerunners of this discipline in the country, reaching the reputation of the world. Developing these issues in cooperation with other disciplines both our Faculty and other Faculties of AGH, it gives strong grounds to conclude that in that field it has been established a scientific school of international importance. In particular, they have developed the study on the state of pollution of industrial districts and urban areas with particular emphasis on areas of mining. The research activities of our faculty are financed from: European framework programs grants, funds allocated to their own research and statutory grants and National Science Centre.

For many years the Faculty has been cooperating with many foreign units through the interchange of staff and students, cooperation in the implementation of research, participation of employees of the Faculty of symposia and conferences, and participation in the governing bodies of international and foreign scientific associations, research fellowships in foreign centers, consultation and exchange of experiences of teaching.

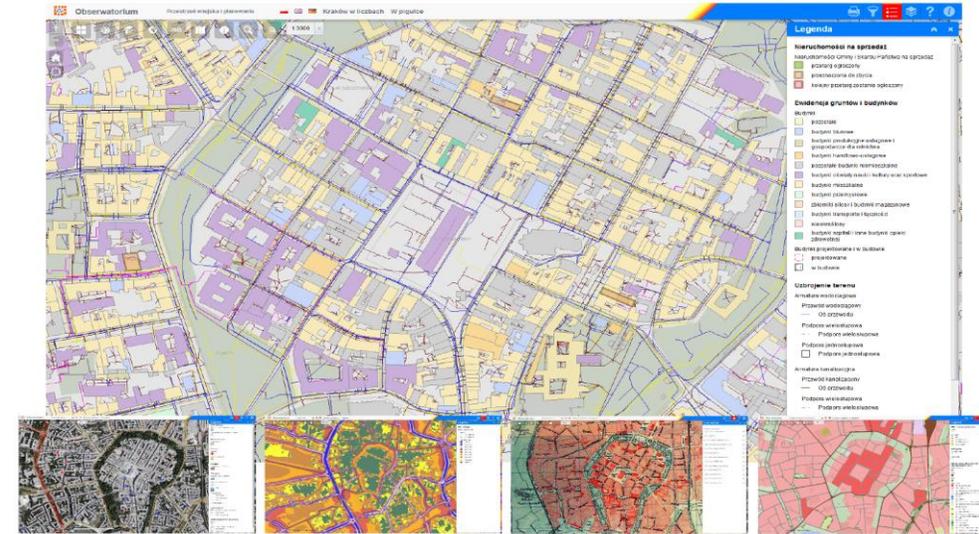


Technical tours

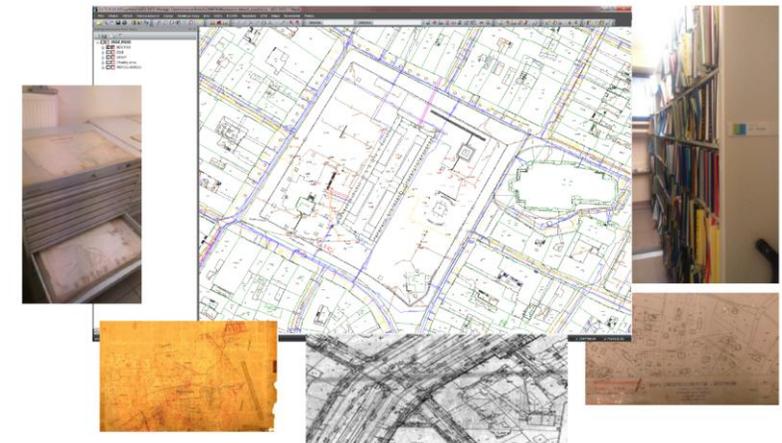
Option 4 - Centre for Geodetic and Cartographic Documentation in Kraków

One of the key tasks performed by the Department of Geodesy of the Krakow City Office is to maintain and update data from the National Geodetic and Cartographic Resources (PZGiK). Data stored in these resources, as well as technology of data collection, processing and updating have been highly modified within recent years. At present these data create the basic reference layer for the Krakow City Information System (MSIP). Graphical information about lands and buildings was gathered from archival map of the Austrian cadastre at the scales of 1:2880 and 1:1440, field sketches and analogue cadastral maps, developed at the scale of 1:1000. Until 2011 geodetic and cartographic resources were maintained in Krakow in the analogue form with digital map data concerning land and buildings registration and technical facilities.

Until 2005 digital resources were maintained as 13 different, non integrated applications. The analogue map was maintained as base manuscripts and matrices on film at the scales of 1:500 (the majority of the city area) and 1:1000 (the city edges), in the old map division system. The basic information source has been technical documentation, transferred by surveying units which includes, among others, results of surveys (more than 11000 sets of documentation with changes of data are delivered to the Voivodship Centre for Geodetic and Cartographic Documentation (WODGiK) every year). Computerisation of the National Geodetic and Cartographic Resources was performed in stages and it was completed in 2011. About 10000 sections of analogue maps were covered by the computerisation process; they were maintained as thematic overlays at different scales and reference systems. Initial works of the digital evolution comprised processing technical documentation and map resources to the raster form; their calibration and screen digitisation. Further works concerning the PZGiK comprised the accuracy and the quality improvements of digital data. Due to financial limitations, works aiming at modernisation of data for selected parts of the city were also performed in stages; their assumption was to amend databases with information stored in other registers. As a result, auxiliary surveys were also performed, which met the requirements of contemporary standards of accuracy.



Przykładowe widoki z portalu MSIP (teren Ryku Głównego)



Nowy system do prowadzenia PZGiK w postaci baz danych w zestawieniu z źródłowymi danymi analogowymi

Technical tours

At present the Department of Geodesy of the Krakow City Office is making another quantum leap towards evolution and development of maintenance of the PZGiK. The new IT system which is currently in the implementation phase is to ensure the maintenance of integrated, object-oriented databases and the development of the electronic customer service office (ECO) in the form of portals, mainly dedicated for surveyors, experts and debt collectors.

They were largely adapted to existing data models, defined for GML standards in binding legislation. At present, the PZGiK databases for Krakow are one of the largest bases of geodetic data in Poland. They are still the basic source of information for the City Spatial Information System (MSIP), which is amended with new reference layers, as well as other information supplied by other sections of the City Office and by the society. The portal "MSIP Observatory" is a spatial information window for its users. Every user has the access to the large database and may use information from archive maps, maps of noise, reach information collected in the portal for the local society, the portal for investors, as well as information from the PZGiK and data related to local spatial management plans, digital terrain models and multitemporal orthophotomaps. The final closure of the analogue epoch in collecting the PZGiK data in Krakow initiated the City Spatial Information System, contributing to implementation of objectives resulting from the European INSPIRE directive. At present it is a powerful tool used by the public administration, by the local society, investors and many tourist who visit Krakow, being one of the most beautiful cities in Europe. It should be stressed that many works were performed with the use of the EU funds, within the MRPO 2007-2014 and 2014-2020 Projects.





Tours

Tours – half day

SIGHTSEEING TOUR OF CRACOW



- See all the highlights of the Old Town area that made Cracow so famous - UNESCO site.
- The spectacular Main Market Square with the Renaissance Cloth Hall.
- Don't miss the buildings of Poland's oldest university, Jagiellonian University, where Nicolaus Copernicus studied.
- In the extended variant the group will also explore Wawel Hill that is dominated by the Cathedral, the Castle and the defense towers.
- Wawel Cathedral used to be the scene of coronations and is the eternal resting place of the kings of Poland.

WIELICZKA SALT MINE



- Visit Wieliczka Salt Mine – a world class tourist attraction and UNESCO site.
- Over 700-year-old, this monument of history has been created by many generations of Polish miners.
- We can see up to 20 excavated chambers on 3 levels: the main one is located 130 meters below the ground level.
- Exceptional in its beauty, with the rich interior decoration of the chapels – including the most beautiful of Blessed Kinga, the original linings of the galleries and workings, and the underground salt lakes.

AUSCHWITZ-BIRKENAU STATE MUSEUM VISIT



- The death camp at Oświęcim, known as Konzentrationslager Auschwitz, was in fact a complex of camps, the largest Nazi death factory, where more than two million people, mostly Jews, perished.
- The Auschwitz camp consisted of several units, including the largest one at Brzezinka (Birkenau).
- Of the millions of people brought there in the period between 1940 and 1944, only 60 to 70 thousand utterly emaciated victims were alive at the time of liberation of the camp - at present, the National Museum of Oświęcim is situated on the site of the former camp.

Tours – half day

VISIT IN STAINED-GLASS ATELIER



- In the stained-glass museum located in a townhouse constructed especially for the purposes of Kraków Stained Glass Company S.G. Żeleński, exhibition areas blend together with the premises of the atelier, which has been operating here since 1902.
- The Living Museum: this is where the atelier/workshop and the permanent exhibition with the historical collection are located. This section of the Museum can only be visited if booked in advance.

JOURNEY INTO THE PAST: JEWISH DISTRICT



- In the past, Kazimierz was a distinct town with its own Market Square and Town Hall, as well as thriving culture, which blossomed in the 16th century.
- Nowadays, Kazimierz with its authentic architecture and unique atmosphere was a setting of Steven Spielberg's movie "Schindler's List".
- That period witnessed the foundation of Poland's oldest Judaic shrine, the Old Synagogue, now with the exhibition that shows the history of the Jewish community of Cracow, and then the Remuh Synagogue with the adjoining cemetery.

WAWEL HILL TOUR



- Wawel Castle is the most popular and the richest museum in Poland. Through a tall vaulted gate we enter the Renaissance arcades of the castle courtyard.
- The most valuable of all the works of art in the Wawel collection are the Arras tapestries and world famous „Lady with an Ermine” by Leonardo da Vinci. Wawel Cathedral used to be the scene of coronations and is the eternal resting place of the kings of Poland.
- Wawel hill is dominated by the Cathedral, the Castle and the defense towers. In the Sigismund Tower hangs the largest bell in Poland, called "Zygmunt".

Tours – full day

POLAND'S WINTER CAPITAL: ZAKOPANE



- Discover the marvelous landscape of Tatra Mountains: limestone rocks, fantastic microclimate and a wide variety of flora and fauna.
- This is where Zakopane, the mountain capital of Poland with its splendid scenery, is located.
- Make yourself familiar with highland folklore, monuments of old wooden architecture built in a very special regional style and local specialties such as highlander's delicacy a soup – "Kwaśnica" (sour soup) or famous sheep cheese "Oscypek".
- Have a ride by a cable car to the top of Gubałówka mountain to admire the breathtaking panorama of the Tatras.

RAFT RUN DOWN THE DUNAJEC RIVER



- The most pleasant way of visiting Pieniny National Park is the Dunajec River Gorge rafting. The tradition of this special tourist attraction goes back to the early 20th century.
- Rafting down the Dunajec river through the Pieniny Gorge on highlanders' raft, is believed to be one of the greatest attractions of Poland. While on a raft navigated by two highlanders, you admire one of the most beautiful river gorges in Europe. Length of the shortest route: app. 18 km, the time of the rafting route.

CRUISE TO BENEDICTINE ABBEY IN TYNIEC



- Tyniec Abbey – spectacular Benedictine abbey upon the riverbank, 12 km upstream from the Wawel Royal Castle. The picturesque region, hills, forest and the river attracts a number of visitors who wish to relax and get in some fresh air.
- Nine centuries ago Benedictines arrived at this place. On the rock by the Vistula river they built a monastery - abbacy, which emerges from the trees and reflects in the river. The monks from Tyniec were always famous for their own-made products, including different kind of liquors, marmalades and herbs.



Social Programme

WELCOME RECEPTION



Option 1 ICE Krakow Congress Centre

The spacious foyer of the ICE Congress Centre is situated on the eastern side of the building (with a view of the Old City and Kazimierz) on three floors: F0 – 1800 m² (including the Theatre Hall), F1 – 1000 m² and F2 – 650 m².

With impressive illumination it can perfectly play the function of an elegant public space with nice viewing area for standing cocktails.

WELCOME RECEPTION



Option 2 Sukiennice Cloth Hall

Sukiennice - market hall built in 13th century, now one of the landmarks of Rynek Główny (Main Square) and Cracow Royal City.

On the first floor of Sukiennice there is National Art Museum located with exceptional paintings on the walls.

The cocktail is to be organized within the premises of this museum.

CULTURAL EVENING



Option 1 Zalesie Manor

Completely different world, located in Beskidy Mountains just 25 km away from the Main Market in Krakow.

The buildings of the complex are surrounded by forests, fields and meadows. The Zalesie Manor has 200 year long history and is a place where buildings were erected subsequently to form interesting rural architecture. The halls combined on one level can accommodate 700 persons in a sit down style, with a free dance room.

CULTURAL EVENING / GALA DINNER



Option 2 **Stara Zajezdnia**

This unique place is a former tram depot, established in 1913 with the launch in Kraków broad-gauge tram line.

It belongs to the group of architectural objects which is lawfully secured and in 1985 inscribed to the book of records of stunning monuments of the UNESCO list.

GALA DINNER



Option 1 Niepołomice Royal Castle

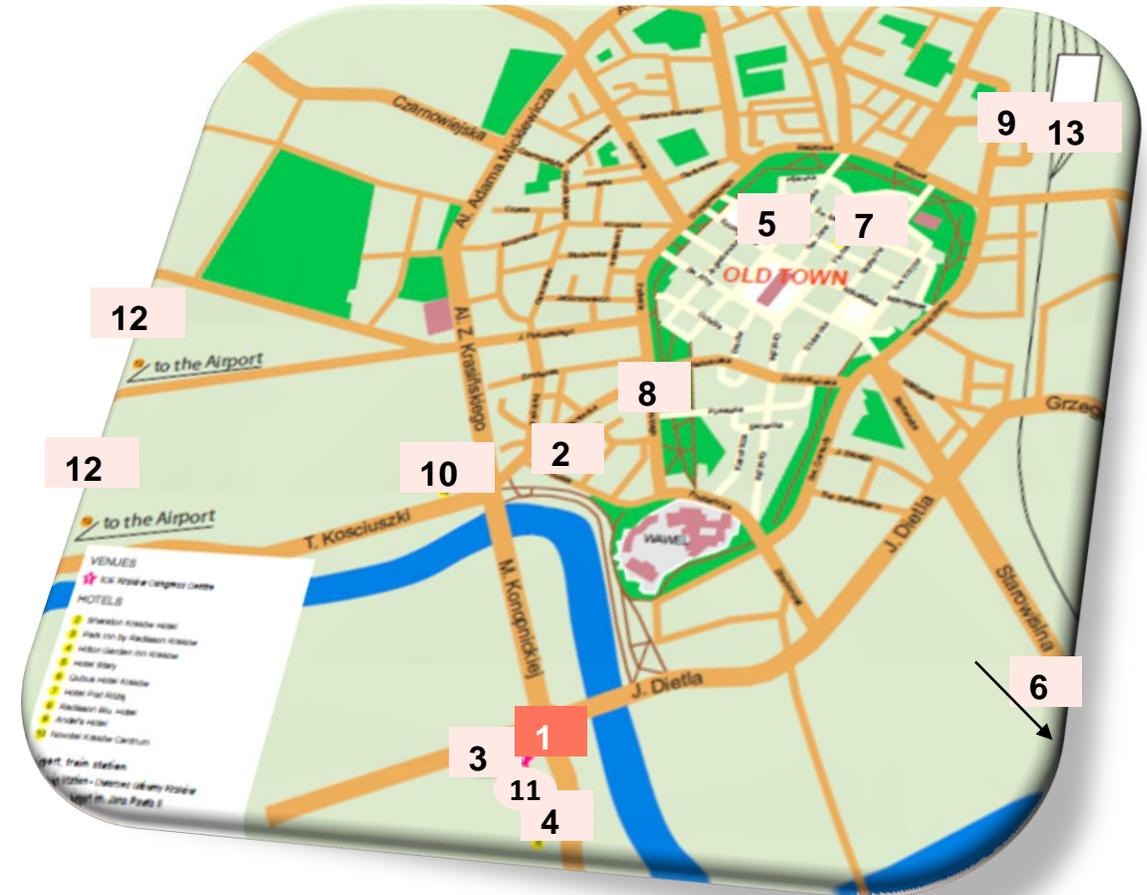
The Royal Castle Niepołomice is located 25 km out of Cracow city centre. For centuries the castle was a royal residence. Beautifully restored is the real jewel of Renaissance architecture with beautiful cortyard that is usually a place for splendid and unforgettable galas.

The background is a solid blue color with a repeating pattern of light blue, stylized floral and feather motifs. The motifs include various flower shapes, some with multiple petals, and several feathers with distinct barbs. The patterns are arranged in a way that they appear to be scattered across the background, creating a decorative and textured effect.

Accommodation

Accommodation

HOTELS NEAREST TO THE CONFERENCE VENUE	Location on the map	AVERAGE PRICE
Park Inn by Radisson Kraków ****	3	95 EUR
Best Western Q Plus ****	11	95 EUR
Hilton Garden Inn Krakow ****	4	95 EUR
THE MOST LUXURIOUS HOTELS		
Sheraton *****	2	150 EUR
Radisson Blu *****	8	150 EUR
BOUTIQUE STYLE HOTELS		
Sary Hotel *****	5	190 EUR
Pod Różą ****	7	190 EUR
OTHER HOTELS		
andel's ****	9	95 EUR
Novotel Centrum ****	10	95 EUR
Qubus ****	6	95 EUR
VENUE – ICE Kraków Congress Centre		
	1	
KRAKÓW AIRPORT		
	12	
KRAKÓW TRAIN STATION		
	13	



Distance from VENUE to AIRPORT: 30-40 minutes

Accommodation



Finances/Budget

BUDGET FOR FIG WORKING WEEK 2021

Conference date: 2021

City: Krakow

Venue: ICE Kraków Congress Center

INCOME	EUR	NO	Total EUR	NO	Total EUR	NO	Total EUR
1 Registration Fees:							
Delegates: Early/Normal/Daily	570	750	427500	900	513000	1100	627000
Delegates: Young Geo/Students	220	25	5500	50	11000	50	11000
Accompanying persons	150	25	3750	50	7500	50	7500
		800		1000		1200	
2 Social events (Gala: 120 EUR x 400 pax/500 pax/600 pax; Cultural Evening: 90 EUR x 400 pax/500 pax/600 pax)			84000		105000		126000
3 Technical Tours (3 x 100 pax x 30 EUR)			9000		9000		9000
4 Sponsors/Exhibition income			100000		100000		100000
5 Partners/Sponsors							
6 Programme Book/Conference Bag		Advertisement Partner	25000		25000		25000
Income total			654750		770500		905500
EXPENDITURE	Total EUR	Total EUR	Total EUR				
1 Printed Matters	13100	15500	17900				
2 Marketing	9250	15500	17900				
3 Site Visit	12000	12000	12000				
4 Conference Venue	174500	174500	174500				
5 Opening and Hosted Welcome Reception	23000	26000	29000				
6 Participant's Kit	8000	10000	12000				
7 Participant's Cost	124800	148200	171600				
8 Social Events	80790	92926	104150				
9 Tours	22500	22500	22500				
10 Invited Guests	22625	22625	22625				
11 Conference Management	80000	90000	100000				
12 Secretariat; Communication	3520	3520	3520				
13 FIG Foundation Fee	13530	16530	19530				
14 Various	45000	45000	45000				
Expenditure total	632615	694801	752225				
SUMMARY							
	Income total	654750	770500				
	Expenditure total	632615	694801				
Result	22135	75699	153275				





Letters of support

Letters of Support



RZECZPOSPOLITA POLSKA
GŁÓWNY GEODETA KRAJU

Warsaw, 30th November 2016 r.

Ms Louis Friss-Hansen
Director of FIG Office
International Federation of Surveyors - FIG

Szanowna Pani Dyrektor,

Ma'am Director,

Wiedząc, że wśród lokalizacji branych pod uwagę jako miejsce organizacji Tygodnia Roboczego oraz Zgromadzenia Generalnego Międzynarodowej Federacji Geodetów w 2021 roku znalazł się Kraków, w pełni popieram starania Stowarzyszenia Geodetów Polskich.

O tym, że Kraków to wyjątkowe miejsce mogli przekonać się uczestnicy Konferencji INSPIRE w 2010 roku. Conra kongresowe o wysokim standardzie, liczne atrakcje turystyczne, i wydarzenia kulturalne na długo zapisały się w pamięci osób goszczących w Krakowie. To lokalizacja, która nie tylko spełnia wymagania stawione międzynarodowym konferencjom, to miejsce które warto odwiedzić by poznać polską kulturę i historię.

Możliwość organizacji tak ważnego spotkania w Polsce byłaby wielkim wyróżnieniem zarówno dla administracji, organizacji zrzeszających geodetów oraz całej branży. Już dziś zapraszam do odwiedzenia naszego kraju.

Jestem przekonana, że Polska gościnność i klimat Krakowa pozytywnie wpłyną na ocenę ofert Stowarzyszenia Geodetów Polskich.

Knowing that among other locations taken under consideration as a venue for the Working Week and the General Assembly of the International Federation of Surveyors in the year 2021 there is also the city of Krakow, I fully support the efforts of the Association of Polish Surveyors in this respect.

Krakow has proven its unique character and logistical capabilities hosting successfully many geospatial events including European Commission's INSPIRE Conference in 2010. Convention centers with a high standard, numerous tourist attractions and cultural events for a long time engrave in the memory of the participants.

This location, meets not only the requirements of international congresses but also is also the best place to visit to familiarize know Polish culture and history.

The possibility of organizing such an important meeting in Poland would be a great honor for both public administration, professional organizations and surveyors across the industry. It is my great pleasure inviting you to visit our country.

I am convinced that Polish hospitality and atmosphere of Krakow will positively affect the evaluation of the proposal folded by the Association of Polish Surveyors.

Yours sincerely,

p.o. GŁÓWNY GEODETA KRAJU

Marta
Aleksandra Jabłońska

Pismo podpisane elektronicznie



REPUBLIC OF POLAND
MINISTRY OF DIGITAL AFFAIRS

SECRETARY OF STATE
Marek Zagórski

Warsaw, 6 December, 2016

Mrs. Dr Chryssy A Patsiou
President of International Federation
of Surveyors FIG

Your Excellency,

As of January 2017 it will be the Ministry of Digital Affairs that shall be responsible for further operation of the geoportals - *Geoportals.gov.pl*. This project brings official registers' spatial data close to Polish citizens, businesses and public administration and makes sure that this information is up to date and reliable and of high quality. Now it will be the Ministry's task to ensure that the geoportals further develops towards new services and becoming an important element of the Digital Poland.

We also find it important that Kraków, Poland shall host the FIG Working Week in 2021. Kraków is a beautiful and hospitable place and in its centuries-old tradition has been grouping together people from numerous countries for innumerable meetings, including those biggets in size. As recently as during the last summer Kraków had 3 mln pilgrims who made their way to attend the XXXI World Youth Day.

Additionally, the Association of Polish Surveyors (SGP) with its long-lasting tradition and extensive experience spanning several decades will be the guarantor of success of the FIG Working Week 2021.

It is then with great pleasure that I give my support to this initiative especially that the Week's main topic, is to be, as suggested by the SGP, *Towards excellence in measurements*.

Yours faithfully,



Letters of Support



POLISH FEDERATION OF ENGINEERING ASSOCIATIONS

PRESIDENT
EWA MAŃKIEWICZ-CUDNY

Warszawa, 7 December 2016

Mrs. Dr Chryssy A Potsion
President
International Federation of Surveyors

International Federation of Surveyors, FIG
Kalvebod Brygge 31-33
DK-1780 Copenhagen V
Denmark

Dear President,

On behalf of the Polish Federation of Engineering Associations FSNT-NOT of the Central Technical Organisation I would like to kindly recommend the intention of the Association of Polish Surveyors to organise the FIG 2021 Working Week in Poland, in Krakow.

The Polish Federation of Engineering Associations FSNT-NOT of the Central Technical Organisation is the organisation with 180 years of traditions (since 1835 when The Polish Technical Association was established in Paris). At present it 39 Polish Associations of Science and Technology representing engineers and technicians from many disciplines are the members of this Federation.

The Association of Polish Surveyors is the member of the FSNT-NOT Federation from its establishment, being one of the most active members in our community. Every year it organises many conferences, training courses, as well as sport and cultural events for engineers and technicians - surveyors and cartographers. Events organised by the Association of Polish Surveyors are always highly appreciated and enjoyed by their participants.

The community of Polish engineers and technicians, being the members of the FSNT-NOT firmly supports the idea of the Association of Polish Surveyors.

Sincerely yours,

00-043 Warszawa, ul. Czackiego 3/5, tel. 22 336 12 51, fax 22 336 14 50,
e-mail: sekretariat.prace@not.org.pl



SLOVENSKÁ SPOLOČNOSŤ GEODETOV A KARTOGRAFOV
ČLEN ZVÄZU SLOVENSKÝCH VEDECKOTECHNICKÝCH SPOLOČNOSTÍ
Kocel'ova 15
815 94 BRATISLAVA

Zarząd Główny Stowarzyszenia
Geodetów Polskich

ul. Czackiego 3/5
00-043 Warszawa

Dear Stanislaw Cegielski – President of Association of Polish Surveyors,

Slovak Union of Surveyors and Cartographers (SUSC) is pleased to accept information about upcoming candidacy of Association of Polish Surveyors (APS) to host the FIG working week 2021 (WW FIG21) in historic city of Krakow.

APS have rich experience in organizing conferences, seminars, including 23 years of International Czech-Slovakia-Polish Geodetic Days; high quality arrangement of worldwide event (WW FIG 21 in Krakow) is guaranteed. FIG WW was mostly organized outside Europe which made Slovak surveyors financially disadvantaged. The proximity of Slovak border and the airports in Kosice and Poprad would make participation on FIG WW for many Slovak surveyors easier.

SUSC fully supports the decision of SGP to organize WW 2021 in Krakow. Krakow is the preferred venue for SUSC, therefore you have our vote.

Best regards

Bratislava, 28.11.2016

Ing. Dušan Fejdiac, EUR ING
President of SUSC

SLOVENSKÁ SPOLOČNOSŤ
GEODETOV A KARTOGRAFOV
Kocel'ova 15, 815 94 Bratislava
IČO: 173 4453 DIČ: 2120435740

E-mail: ssgk@ssgk.sk IČO: 17314453 DIČ: 2020835740



Letters of Support

Warsaw, 8 December 2016

International Federation of Surveyors

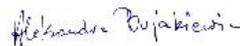
RECOMMENDATION LETTER

Dear Sirs,

As scientific organization, Polish Society for Photogrammetry and Remote Sensing, strongly supports Association of Polish Surveyors in their application for organizing FIG Working Week in Cracow in 2021. The Polish surveyors have had the opportunity to show great organizational skills during international events that they prepared so far. We still remember 7th International Symposium on "Mobile Mapping Technology" which was held in Cracow from June 13 to 16, 2011. It was organized by the Association of Polish Surveyors and Polish Society for Photogrammetry and Remote Sensing and was held under the auspices of International Federation of Surveyors (FIG), International Society for Photogrammetry and Remote Sensing (ISPRS), Institute of Navigation (ION) and International Association of Geodesy (IAG). About 150 participants from over 30 countries from around the world attended in this Symposium and experienced Polish hospitality.

We believe that the proposal for the organization of this event in such a beautiful, historically and culturally rich location would find favor among the FIG delegates and this conference in 2021 can be realized in Poland. As photogrammetrists, who are always part of surveyors' society, we declare to support organization of this event and we will participate in it with our partner societies from abroad.

Yours faithfully,



Prof. Aleksandra Bujakiewicz

*President of
Polish Society for Photogrammetry
and Remote Sensing*



GEODEZYJNA IZBA GOSPODARCZA

00-043 Warszawa, ul. Czackiego 3/5

tel./fax /22/ 827-38-43, e-mail: biuro@gig.org.pl

Sąd Rejonowy dla m. st. Warszawy w Warszawie,

XII Wydział Gospodarczy Krajowego Rejestru Sądowego

KRS: 0000090356, NIP 525-20-34-024, REGON: 010753536

Warszawa, 7 December 2016

Mrs. Dr Chryssy A Potsiou
President
International Federation of Surveyors

International Federation of Surveyors, FIG
Kalvebod Brygge 31-33
DK-1780 Copenhagen V
Denmark

Dear President,

On behalf of the Geodesy Chamber of Commerce I wish to recommend the proposal of the Association of Polish Surveyors to organise the FIG 2021 Working Week in Poland, in Krakow.

The Geodesy Chamber of Commerce is the largest, non-governmental organisation of entrepreneurs in geodesy in Poland. It was established in September 1994 and more than 160 entrepreneurs are its members.

The Association of Polish Surveyors is the organisation which before 1994 supported entrepreneurs in geodesy in their efforts to establish this organisation and highly contributed to establishment of the Geodesy Chamber of Commerce.

Basing on the multi-year cooperation with the Association of Polish Surveyors, the Geodesy Chamber of Commerce may recommend the Association as the organiser of the FIG 2021 Working Week in Poland.

Sincerely yours,



Letters of Support



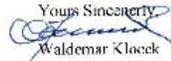
Polska Geodezja Komercyjna
Krajowy Związek Pracodawców Firm
Geodezyjno-Kartograficznych

Dr Chryssy A Potsiou
President of FIG
International Federation of Surveyors - FIG
Kalvebod Brygge 31-33
DK-1780 Copenhagen V
DENMARK

Warsaw 30th of November 2016

Dear Mrs Chryssy A Potsiou

National Union of Employers of Geodesy and Cartography Enterprises was founded at the Founding Assembly on 11th of August 1992, by 14 geodesy and cartography Companies. During The Inaugural General Meeting held on 15th of February 1993, first Board for 3-year term was selected, and 10 new members were adopted; moreover Union accepted long term program of action mainly focused on the issues of Privatization and cooperation with Government Administration. In 2003 the name changed to the Poland Commercial Geodesy - National Union of Employers of Geodesy and Cartography Enterprises. Since 2000, together with Geodesy Chamber of Commerce we are the partner of the Comité de Liaison des Géomètres Européens. Knowing that the organization of the Working Week & General Assembly of the international Federation of Surveyors - FIG in 2021 is currently being discussed We would like to recommend Poland as localization with the support of the Association of Polish Surveyors for the event in 2021. Having in mind the strong position of Association of Polish Surveyors and dynamical development of surveying technology in last few years in Poland we are sure that Poland will be excellent location for the FIG working week in 2021.

Yours Sincerely

Waldemar Kłoczek
President of the Board

00-511 Warszawa ul. Nowogrodzka 31 pok. 201, tel. 695 252 943 e-mail: kzpfgk@geodezja-komerc.com.pl



POLISH ASSOCIATION FOR SPATIAL INFORMATION

ul. rtm. W. Pileckiego 112/5, 02-781 Warszawa
tel. +48 22 409-43-87 e-mail: ptip@ptip.org.pl www.ptip.org.pl

Warsaw, 30 November 2016

International Federation of Surveyors

Dear Sirs,

I have a pleasure to strongly support the proposal of the Association of Polish Surveyors (SGP) to organise the FIG 2021 Working Week in Krakow, Poland.

Our SGP is the largest and most important non-governmental organisation in the field of geodesy and cartography in Poland. It is widely experienced in all activities related to large conferences. Moreover, it is capable to cooperate smoothly and efficiently with appropriate governmental agencies and other non-governmental organisations.

In my view, the selection of the venue is perfect. The Royal Capital City of Krakow is one of the Europe's most beautiful cities. UNESCO placed Krakow Old Town on the first-ever list of World Heritage Sites. It is easily accessible by air, train and road.

This letter of support I write also as the president of the governmental Council for Spatial Information Infrastructure. Therefore, my opinions are based on the experiences we gained organising together with the European Commission the successful international 4th INSPIRE Conference in Krakow.

Sincerely yours,

Jerzy Gazdzicki

President, Polish Association for Spatial Information



Letters of Support



WARSAW UNIVERSITY OF TECHNOLOGY
VICE-RECTOR FOR RESEARCH

Plac Politechniki 1, 00-661 Warszawa, Poland

phones: (+48 22) 629 26 32, (+48 22) 234 74 24, fax: (+48 22) 234 71 40, e-mail: prorektor.nauka@rekt.pw.edu.pl

Warsaw, 28 November 2016

RN-8/21/849/16

International Federation of Surveyors

LETTER OF SUPPORT

Dear Sirs,

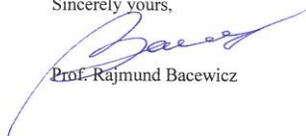
On behalf of the Warsaw University of Technology I have a great pleasure to support the proposal of the Association of Polish Surveyors (SGP) to organise the FIG 2021 Working Week in Krakow, Poland.

The Association of Polish Surveyors is a very important, non-governmental organisation of the Polish surveyors; it is widely recognised in the world as the organisation of professionals. Our University strongly supports the proposal to organise the FIG Working Week in Poland as a very good opportunity to promote international cooperation in the field of geodesy, cartography and related disciplines, as well as to get familiarised with the Polish achievements in this field. This meeting will also be a good place to exchange experiences, to discuss current issues and to present possible solutions.

This meeting is to be held in Krakow. This town, as a former capital of Poland, is very well known in the world. It is one of the most beautiful and most interesting cities in Europe. It will offer many opportunities to spend interesting moments after debates, to widen the knowledge of the Polish history and relations with the East and with the West. Krakow is also known as a place where many important international events were organised in the past; they were always highly appreciated by the participants.

As the Vice-Rector for Research of the Warsaw University of Technology that boasts of many years of experience in education and technological development in various disciplines, I strongly support the idea to organise the FIG Working Week in Krakow in 2021.

Sincerely yours,


Prof. Ryszard Bacewicz



WARSAW UNIVERSITY OF TECHNOLOGY
DEAN OF THE FACULTY
OF GEODESY AND CARTOGRAPHY



Plac Politechniki 1, room 301, 00-661 Warsaw, www.gjk.pw.edu.pl
tel. 48 (22) 234 72 23, e-mail: dziekan@gjk.pw.edu.pl

Warsaw, November 28, 2016

GiK/1849/2016

International Federation of Surveyors

Dear Sirs,

As a Dean of the Faculty of Geodesy and Cartography, Warsaw University of Technology, I would like to express my great pleasure to support the idea to organise the FIG 2021 Working Week in Poland, in the city of Krakow.

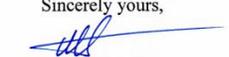
This meeting is to be organised by the Association of Polish Surveyors (SGP) which is a very important organisation of the Polish surveyors. It is well recognised in Poland and in the world as the organisation of professionals representing geodesy, cartography, as well as other, related disciplines. Our Faculty often cooperates with the Association in organisation of many events aiming at the development of professional knowledge, skills and experiences of the current and future professionals.

We do realise how important is the opportunity to exchange experiences, ideas and solutions in the world of rapidly developing technologies. We face such development in geodesy and cartography, as well as in the field of geoinformation, which integrates conventional techniques, solutions, data and allows to better know our world. We do believe that the FIG Working Week in Krakow will become the opportunity to discuss those issues and to better face arising problems.

Krakow was the capital of Poland in the past. It is a beautiful, historical city, well known in the world as a place where many historical buildings may be seen and visited and where it is possible to spend interesting time after the meeting. In Krakow many international events take place very often; they are always highly appreciated by the participants.

On behalf of the Faculty of Geodesy and Cartography I strongly support the idea to organise the FIG Working Week in Krakow in 2021.

Sincerely yours,


Prof. dr hab. Alina Maciejewska, prof. zw. PW



Letters of Support



UNIWERSYTET WARMIŃSKO-MAZURSKI W OLSZTYNIE
WYDZIAŁ GEODEZJI, INŻYNIERII PRZESTRZENNEJ I BUDOWNICTWA
UL. PRAWOCHEŃSKIEGO 15, 10-720 OLSZTYN

WGIPR-Dz.064.7.2016

Olsztyn, 02 grudnia 2016 roku

Sz. P.

Stanisław CEGIELSKI

Prezes Stowarzyszenia Geodetów Polskich
ul. Czackiego 3/5, p. 416
00-043 Warszawa

W związku z podjęciem, przez Stowarzyszenie Geodetów Polskich, inicjatywy organizacji w Polsce, w roku 2021, **FIG Working Week** chciałbym poprzeć przedmiotową inicjatywę.

Coroczne robocze spotkania organizowane przez FIG są ważnym elementem rozwoju działalności zawodowej geodetów, kartografów i geoinformatyków.

Ze swej strony chciałbym zadeklarować wsparcie polegające na oddelegowaniu dwóch osób, które uczestniczyłyby w pracach organizacyjnych. Ponadto moi koledzy, posiadający odpowiednie doświadczenie, mogą aktywnie uczestniczyć w prowadzeniu sesji i spotkań roboczych. Pracownicy Wydziału wezmą również aktywny udział merytoryczny w trakcie FIG Working Week 2021.

Z poważaniem

DZIEKAN
WYDZIAŁU GEODEZJI, INŻYNIERII PRZESTRZENNEJ I BUDOWNICTWA
[Signature]
mgr inż. Stanisław Cegielski, prof. dr hab.

tel. 89 523 35 77, 89 523 42 45, 89 523 45 04
fax. 89 523 34 77

www.wgipb.uwm.edu.pl
e-mail: wgipb@uwm.edu.pl



AKADEMIA GÓRNICZO-HUTNICZA
IM. STANISŁAWA STASZICA W KRAKOWIE

Wydział Geodezji Górniczej i Inżynierii Środowiska

DZIEKAN
PROF. DR HAB. INŻ. STANISŁAW GRUSZCZYŃSKI

WGGIŚ-49/2016

Kraków, dn. 08.12.2016

Stanisław Cegielski
Prezes Stowarzyszenia Geodetów Polskich
ul. Czackiego 3/5
00-043 Warszawa

Szanowny Panie Prezesie,

Z wielką przyjemnością przekazuję na Pana ręce wyrazy uznania i wsparcia związane z chęcią organizacji Tygodnia Roboczego FIG w 2021 roku. Każda inicjatywa, która ma na celu zaprezentowanie polskiego zaangażowania w międzynarodową działalność stowarzyszeń geodezyjnych jest przede mną i pracowników mojego Wydziału mocno popierana.

Wydział Geodezji Górniczej i Inżynierii Środowiska Akademii Górniczo-Hutniczej im. Stanisława Staszica jest jedną z wiodących jednostek naukowo-badawczych i dydaktycznych w dziedzinie geodezji. Nasi pracownicy są uczestnikami cyklicznych spotkań i konferencji organizowanych między innymi przez Międzynarodową Federację Geodetów (FIG). Z ogromną satysfakcją przyjmuję deklarację, że Stowarzyszenie Geodetów Polskich proponuje organizację Tygodnia Roboczego w Krakowie. Serdecznie zapraszamy uczestników konferencji do odwiedzenia naszego Wydziału oraz deklarujemy pomoc w jej organizacji, jak również w propagowaniu spotkania w środowisku geodezyjnym oraz naukowym.

Z wyrazami szacunku,

[Signature]

Akademia Górniczo-Hutnicza
Wydział Geodezji Górniczej i Inżynierii Środowiska
al. A. Mickiewicza 30, 30-059 Kraków, tel. +48 12 617 22 08, fax. +48 12 617 30 70
e-mail: sgit@agh.edu.pl, www.ghc.agh.edu.pl



Letters of Support



PREZYDENT MIASTA KRAKOWA
JACEK MAJCHROWSKI

Ms Louise Friis-Hansen
Director of FIG Office
International Federation of Surveyors - FIG

Dear Ms Friis-Hansen,

Knowing that the location for the Working Week & General Assembly of the International Federation of Surveyors – FIG in 2021 is currently being discussed I would like to encourage you to choose Krakow.

Our City enjoys status of a centre of international culture, art and science, earned after centuries served as the capital of Poland and the seat of Polish Kings. It is a place where numerous, invaluable historical buildings stand beside jewels of modern architecture. Considering this symbolic coexistence, we are willing not only to reflect on Krakow's splendid past but also to look forward to any upcoming challenges. Each year our City hosts important cultural and academic events as well as business meetings.

Krakow can offer to the events industry not only the inspiring atmosphere but also an impressive venue. The ICE Krakow Conference and Congress Centre, opened in 2014, is a modern facility meeting the highest standards required for holding such events as congresses, conferences, business meetings, exhibitions, concerts, performances, shows and other cultural activities. Located in the heart of the city, overlooking the Royal Wawel Castle, the ICE Conference and Congress Centre has already won worldwide popularity and trust of events business representatives.

Having in mind the above mentioned strong points of Krakow as well as the fact that our city provides most favorable conditions for both work and leisure, I am deeply convinced that our city will win your heart as a perfect place for such an important event as the FIG Working Week 2021. Highly appreciating the significance of this meeting, bringing together international community of surveying and spatial professionals, we will be honoured if this event would be organized in Krakow.

With best regards,

Jacek Majchrowski
Mayor of Krakow

Krakow, 30 September 2016

URZĄD MIASTA KRAKOWA
Wydział Promocji i Turystyki



31-004 Kraków, Pl. Wszystkich Świętych 3-4, tel. 12 616 60 52, fax 12 616 60 56; e-mail: pt.umk@um.krakow.pl

Kraków, 15. 11. 2016

Ms Louise Friis-Hansen
Director of FIG Office
International Federation of Surveyors – FIG

As a head of Krakow Convention Bureau, I would like to extend my most cordial invitation to the International Federation of Surveyors to hold the Working Week & General Assembly of the International Federation of Surveyors – FIG 2021 here in Krakow.

I am convinced, that Krakow meets all the requirements of the Congress' Organizing Committee, offering many modern conference facilities, in particular the multi-functional ICE Kraków Congress Centre. Our airport is situated only 12 minutes away from the city center as well as the selection of hotel accommodation available in Krakow makes the city the perfect business and tourist destination.

I have no doubt that Krakow could become an ideal host for the annual Working Week & General Assembly of the International Federation of Surveyors – FIG in 2021. I would cordially encourage you to consider the possibility of using Krakow's inspiring atmosphere to make the meeting in Krakow in 2017 a significant exchange of knowledge and experience among experts, thus fostering the development of this vital discipline.

With best regards,



FORMER CAPITAL OF POLAND



CULTURAL HERITAGE





Krakow is one of just six places in the world that can boast a painting by Leonardo da Vinci

COLOURS OF FOLKLORE



Welcome to Kraków!



FIG Working Week 2021

Kraków, Poland