



World Geospatial Industry Council

ANNUAL REPORT 2019

The Year of Collaboration

ABOUT WGIC

The World Geospatial Industry Council is a registered (not for profit) trade association of companies representing the entire ecosystem of the geospatial industry. WGIC endeavors to:

- 1 **Enhance the role of the geospatial industry and strengthen its contribution in global economy and society.**
- 2 **Facilitate exchange of knowledge within the geospatial industry and co-creation of larger business opportunities for the geospatial industry.**
- 3 **Represent business interest, share perspectives of the geospatial industry and undertake policy advocacy and dialogue with public authorities, multilateral agencies and other relevant bodies.**

VISION & MISSION

VISION

To be a collaborative platform to advance role of geospatial industry and strengthen its contribution in world economy and society.

MISSION

To be a catalyst for intra and inter industry knowledge exchange and co-creation of larger business opportunities for the geospatial industry enhancing its value impact through policy advocacy, business development and collaborative programs.

VALUES & GUIDING PRINCIPLES

RESPONSIBILITY

Clearly communicate industry's perspectives to all internal and external industry stakeholders.

EXCELLENCE

Committed to help its member organizations excel and become recognized world leaders and innovations in offering geospatial technologies & services.

INTEGRITY

Committed to deliver its services reliably and ethically.

TRANSPARENCY

A transparent organization that will work with industry, government and multilaterals - to build partnerships based on trust and mutual benefits.

EQUALITY

Committed to provide an unbiased platform and enabling environment to offer equal importance to the members irrespective of size of the organization or country of its origin.

DIVERSITY AND INCLUSION

Always stand for non-discriminatory practices in its operations.

FINANCIAL STABILITY

Be a self-sufficient industry council efficiently working on revenue from memberships and programs.

MEMBERSHIP

Look at increased number of members as well as innovate continuously to retain the interest of the existing members.

COLLABORATION

Ensure that the WGIC functions as the voice of the geospatial industry and shines as a platform for knowledge exchange & collaboration among all stakeholders.

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WE ARE ON A QUEST TO CREATE AN IMPACT

Jack Dangermond
Chair
WGIC

Dear Colleagues,

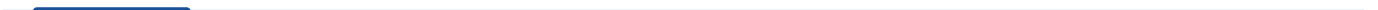
As the world is undergoing the COVID-19 crisis, the UN Secretary-General António Guterres said, "What the world needs now is solidarity. With solidarity, we can defeat the virus and build a better world." We, as a community of geospatial professionals, have made a significant contribution to our fight against COVID-19 worldwide. Moreover, we have acted together and demonstrated solidarity with world society. I applaud geospatial champions for their heroic contributions amidst these challenging times and acknowledge their fantastic work in our noble fight against the pandemic.

WGIC has been founded on these very principles of collaboration and comprehension of the integrated value of geospatial knowledge while enhancing its role and utility in the global economy, society, and environment. WGIC is based on principles of solidarity, and our collective efforts accelerate our quest to make incremental value and impact.

I am pleased to note that WGIC has been gaining overwhelming recognition globally. In a short span of our existence, we have established a working relationship with reputed and credible institutions such as United Nations Statistics Division, World Federation of Engineering Organizations, International Telecommunication Union, European GNSS Agency, as well as professional bodies like Open Geospatial Consortium, buildingSMART International, and International Organization for Standardization.

Moving forward, WGIC shall continue to strengthen its efficient and effective platform for geospatial leadership to collaborate and facilitate the exchange of knowledge and experiences towards co-creating values and opportunities for the global geospatial industry.

I welcome you all to collaborate and work together to make a better world.





AGILITY AND COLLABORATION WILL BE THE KEY TO THE SUCCESS OF OUR INDUSTRY

Ronald Bisio
President
WGIC

Dear Colleagues,

In the annual report of 2018, Jack Dangermond, Chair - WGIC, stated in the opening lines of his message that “While our global society is increasingly challenged, the combined forces of the geospatial industry promise to deliver solutions which can address many of these issues.”

Today, every one of us is going through a very critical phase due to COVID-19, and humanity’s health and economic well-being are being put under stress.

In these challenging times, several of our member companies are making a real impact by working very closely with hundreds of organizations and governments in the fight against the COVID-19 pandemic. We very much thank those members and applaud their efforts, which have helped us to prove the potential of geospatial technology and to provide value.

In this context, I would like to quote Mother Teresa, a great humanitarian who cared for the world. In her words, “None of us, including me, ever do great things.

But we can all do small things, with great love, and together we can do something wonderful”. Here I re-emphasize the need for a more collaborative effort in such times of need, where each of us with our unique capabilities and strengths can multiply our impact by collaborating and acting together.

So, I believe it is crucial for us in the geospatial industry to strengthen our collaboration and engagement, be more agile in our approaches, and think of new ways for cross-industry collaboration. This mindset will be the way forward for the geospatial sector to get much-needed recognition as one of the key stakeholders in the global economy and society.

Here, I re-emphasize the need for a platform like WGIC in our industry to make us much more relevant for today and tomorrow, and I look forward to more active engagement from you all for a collaborative tomorrow.

Take care, stay safe, and let us all stand firm.





2020 SHALL BE THE YEAR OF EXPANDING OUTREACH AND SCALING IMPACT

Sanjay Kumar

Secretary-General & CEO

WGIC

'The Geospatial Way' is very much here. Even in this grim situation when the world is united in battling this pandemic, it is heartening to be part of the geospatial industry. COVID-19 has pushed us all to embrace digital transformation and evidence-based decision making. And, therefore, as geospatial tools are being used in the form of location powered apps by billions to comprehend and understand the spread and impact of the pandemic, it has also been empowering decision-makers to develop integrated information systems and models. Dashboards and tracing apps have become the norm of the day, making geospatial knowledge a commodity.

Combined vision of the industry leaders facilitated formation of WGIC in 2018 with an objective to co-create geospatial marketplace and enhance its collective knowledge, capability, value, and impact in the world economy and society. As we entered 2019, we began the process to establish WGIC as an institution supporting and advancing collaborative engagement within geospatial industry leadership, as well as between geospatial industry and other mainstream industries.

Based on its visionary foundation laid in 2018, WGIC took its journey towards the next level of its existential purpose of thought leadership and industry engagement through well-defined committees. WGIC Secretariat has been working in close coordination with Board Members

and Committees to develop reports and documents showcasing geospatial value, relevance and impact on mainstream industries. We have established significant partnerships and began to collaborate with organizations and professionals institutions of global relevance. Undoubtedly, 2019 has been 'The Year of Collaboration.'

Today, COVID-19 has disrupted every walk of life. And like every industry geospatial too would be massively impacted. At the same time, the recovery will be faster for our industry as its relevance and utility has been duly recognized across industries touching fundamentals of economy and society. Inspirational leadership and valuable relevance would continue to drive WGIC towards its mission of 'Co-creating Geospatial Economy in a Digital World'.

Year 2020 will be the year of 'Expanding Outreach and Scaling Impact' through existing as well new set of partnerships and collaborations. We will continue to recruit members and strengthen engagement with larger number of commercial geospatial companies worldwide. Moving forward, Secretariat establishment and capacity development driven by engaging workflows and processes would be at highest priority, while consistently improving our value proposition and member services.

I hope you continue to stay safe and I sincerely hope that we will see each other in person very soon.





KEY
OUTCOMES
2019



FOSTAERING COLLABORATIVE PARTNERSHIPS

During the last year, our Industry Engagement Committee identified few objectives, mainly - identifying collaborative opportunities, proactively engaging with trade bodies and associations, set-up common goals, and identify initiatives for cross-industry collaboration. WGIC found success in building partnerships and engagements with mainstream end-user sectors through these organizational partnerships.

During the year, we entered into agreements with buildingSMART International, United Nations Statistics Department (UNSD), International Telecommunication Union (ITU) and, the European GNSS Agency (GSA). Additionally, WGIC has joined the World Federation of Engineering Organizations (WFEO) as an Associate Member and ISO/TC 211 as the geospatial industry liaison. Numerous discussions have happened with these organizations in taking our partnerships forward, and few initiatives are already delivering success.



buildingSMART International

A collaboration to enhance the usage of BIM standards in civil infrastructure and to link it to location-based technologies has taken concrete shape with the signing of the MoU between WGIC and buildingSMART International. Both organizations will work together towards developing a collective initiative in the use of standards, best practices, and geospatial information for demonstrating value and broad applicability of standards.



The primary aim of this collaboration is to spread awareness around GIS and BIM technologies to improve understanding, support and application of jointly addressed best practices, standard areas and projects and to encourage involvement of industry professionals with BSI and WGIC.

United Nations Statistics Division (UNSD)

Collaboration between WGIC and UNSD marks a new milestone for strengthening the global geospatial information ecosystem. The synergies between WGIC and UNSD are anchored in the vision and mandates of both organizations, which is to create an enabling environment for the advancement of geospatial information and technologies and amplify its contribution in the implementation and monitoring of the SDG's and to address critical global challenges.



Representation at UN-GGIM

The WGIC Policy Committee conducted a Roundtable discussion at the August 2019 meeting of the United Nations Global Geospatial Information Management (UN-GGIM) to brief country delegates and seek feedback on the status of the protection of personal privacy information legislation and regulations globally. UN Delegates welcomed the effort and asked to keep them informed of the progress.

Dr. Derek Clarke, Advisor, WGIC, is the representative at UN-GGIM and has made contributions to the development of Integrated Geospatial Information Frameworks and offered consultation on Strategic Pathways (SP – 6) for Standards.



ITU International Telecommunication Union (ITU)

WGIC and ITU have undertaken a partnership to leverage geospatial knowledge for a better-connected world. Through various initiatives, this partnership aims to co-create more significant business opportunities for the geospatial industry in the telecom sector.



WGIC is working with Study Group 3 at ITU R on Radio-wave Propagation Modeling, ITU – D for Emergency Response Location Tracking Systems and, ITU, OGC & WGIC are exploring to work together on IoT, Smart Cities & Geo-AI standards.



World Federation of Engineering Organization (WFEO)

WGIC received accession as an Associate at WFEO & a formal announcement was made during the World Engineers' Convention (WEC 2019) at Melbourne during November 2019. During the WFEO General Assembly in 2019, WGIC presented its perspectives and vision to actively work with WFEO on the development of joint programs and papers on the integration of geospatial know-how in advancing AEC.

WGIC is ready with a joint white paper with WFEO on 'Value of Integrated Geospatial and building information modelling (BIM) Solutions to advance UN Sustainable Development Goals' to help larger AEC community benefit from the body of knowledge that WFEO & WGIC would like to create together through such association. The white paper will be released at an upcoming WFEO conference during July 2020.



European GNSS Agency (GSA)

WGIC and GSA signed a memorandum to collectively work towards bringing forward composite value and utility of geospatial technology and satellite navigation systems across a wide range of activities. Areas identified include sustainable development to innovative opportunities that benefit citizens and enterprises.

Both the organizations will be closely working to develop joint programs and knowledge summits to facilitate strategic dialogues on development of distinct frameworks on harnessing collective technical capabilities of GNSS and geospatial.



ISO/TC 211

WGIC is nominated as an industry liaison and will be working with Committee Chair & Outreach Convener at ISO/TC 211. The work to be undertaken will be towards the identified objectives of facilitating communications aimed at improving the geospatial industry's understanding of standards and work on the creation of publications aimed at demonstrating global best practices.

Industry Engagements



Industry Partners' Program April 1, 2019 - Panel I on Extending partnership with global economy



Industry Partners' Program April 1, 2019 - Panel II Collaborative framework for Geospatial Information Infrastructure



Johnson Malcolm, Deputy Secretary General, ITU at GWF 2019



Mohamed Mezghani, Secretary-General, International Association of Public Transport, Belgium, at the Geospatial World Forum 2019



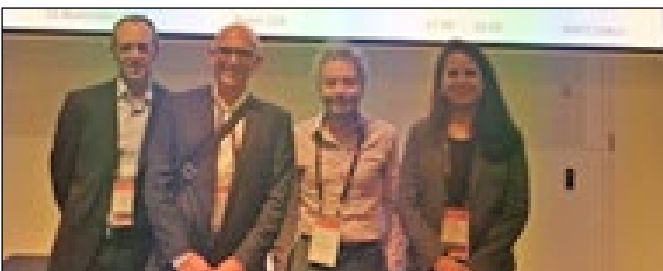
WGIC Round table on 'Technology Convergence and Collaborations for Shaping a New World'



WGIC at UN-GGIM International Seminar, Malaysia represented by Sanjay, Dr. Derek from WGIC secretariat along with Dr. Zaffar, Spatial Vision



WGIC at 134th Indian Engineering Congress, participated through WFEO



WGIC representatives at World Engineers Convention 2019, Australia



WGIC represented by Andrea Bersan, Maxar Technologies at AI for Good Global Summit at International Telecommunication Union

Driving Industry Impact Through Working Groups

For constructive and mutually rewarding proactive engagement and knowledge exchange opportunities with the trade bodies/associations / professional forums of key user industries, WGIC has constituted the Working Groups in the following areas of Telecom, Energy, Engineering & Infrastructure, Intelligent Transport & Logistics, Urban Development & Smart Cities, and, Agriculture.

During the year 2019, the activities related to the constituting the working groups, guidelines, and recruiting representatives from WGIC member organizations were under core focus.

Further, some of the working groups got activated and aligned their work with existing industry partnerships. The activities and engagements undertaken by the working groups during the year 2019 are summarized below.

Engineering & Infrastructure	World Federation of Engineering Organizations (WFEO)	Released a joint white paper on 'Value of Integrated Geospatial and Building Information Modelling Solutions to advance UN SDGs.'
Telecom	International Telecommunication Union (ITU)	<ul style="list-style-type: none"> Working with Study Group 3 at ITU R on Radio-wave Propagation Modeling ITU – D: Discussion initiated on Emergency Response Location Tracking Systems and ITU – T SG20: Joint Coordination Activity on Internet of Things and Smart Cities and Communities ITU, OGC & WGIC are exploring to work together on IoT, Smart Cities & Geo-AI standards.
Intelligent Transport and Logistics	International Road Transport Union	The group had started engagement with key organisations such as International Road Transport Union on IRU' framework on Mobility and data Forum

DRIVING POLICY INITIATIVES

In line with the endeavors of WGIC to undertake policy advocacy and facilitate knowledge exchange, we are actively moving forward through our activities in the form of developing reports and position papers on various policy issues of relevance to the geospatial and location technologies. As a part of this, we have undertaken two critical engagements during this year. One is the active engagement we have initiated through the Policy Committee on the analysis of personal privacy legislation and regulations. The second is the engagement with the US Govt. on Export Control and the National Geospatial Advisory Committee (NGAC). Further, the secretariat continued our emphasis on providing regular updates to our members on global policy aspects through the 'Policy Watch' newsletter. A new addition we made was the annual edition of the policy watch that offers a yearly update about policy affairs that have significance to the geospatial industry.

Report on Policy Imperatives for a Data Economy



WGIC has embarked on a collective journey to support data policy development and play its constructive role in shaping the data economy of tomorrow. This report focuses on the substantial economic

benefits that integrated geospatial policies generate.

Report on Geospatial Information and Policy



This report from WGIC is an effort from the policy committee in coordination with a Special Interest Group (SIG) with public- and private- sector national representatives and Considerati - a legal and public affairs consultancy, based in the Netherlands. To our knowledge, such a global assessment

of this nature is done for the first time.

Response to US Govt. on Export Control

The WGIC Secretariat, in consultation with interested Members, prepared a formal response to the U.S. Department of Commerce Interim Ruling on, "The Addition of Software Specially Designed to Automate the Analysis of Geospatial Imagery to the Export Control." While recognizing the importance of protecting national security interests, the position presented in the WGIC response was that, in general, the geospatial industry, and particularly U.S. companies, are more apt to be negatively impacted by this ruling. The full WGIC response is available at [regulations.gov](https://www.regulations.gov)

Contributing to the NGAC, USA

WGIC was invited to represent the global geospatial industry as a member of the National Geospatial Advisory Committee of the United States, Department of Interior. During its engagement, WGIC has motivated NGAC to set up a Sub-Committee focusing on 'Defining the scope and business models of public-private partnerships.' WGIC has facilitated discussions and supported the documentation process, which is currently under development and is likely to be completed by October 2020.

Policy Watch Newsletters

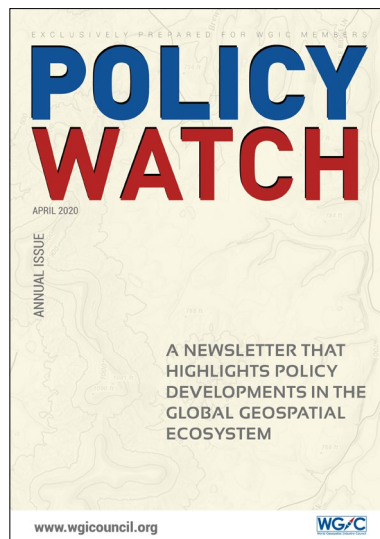
Policy Watch - Monthly

The WGIC Secretariat continued publishing the monthly Policy Watch. This newsletter focuses on geospatial and related technology policies, programs, and initiatives that are being undertaken by governments around the world. While primarily intended for WGIC Members, these newsletters are now being released to the public in hopes of furthering the exchange of information within the global geospatial ecosystem.



Policy Watch – Annual Edition

WGIC Secretariat has brought out an annual edition of several critical developments in the field of public policy associated with the geospatial industry. This report includes several aspects of policy development covering global geographies.



UPDATES FROM OTHER COMMITTEES



Expanding Member Base

Dean Angelides leads the membership committee. During 2019, WGIC added twenty new members – two corporate members and eighteen associate members. The committee also undertook deliberations on making the membership onboarding process more efficient, and the new approach is ready for implementation for the year 2020.



Strengthening Financial Resources and Practices

The committee lead by John Renard is continuing its efforts in ensuring good financial practices are in place, and the organization stays financially healthy and sustainable. During this year, efforts are put in place to streamline the invoicing and payment collection processes and systems. Additionally, a new digital invoicing system is in place, and the payment cycles are now monitored more effectively.



Engaging through Marketing and Communications

WGIC has undertaken a series of successful marketing activities throughout the year. It supported the national mapping agencies through its social networking platforms during UNGGIM Plenary. The event was a great success, and over 400 participants from worldwide mapping agencies attended the same. Besides, we organized social receptions with our extended group of partners and prospective members on the side-lines of all the board meetings and significant global events.

Appointment of a New Marketing Chair

Following the resignation of Theo Angelopoulos, Pier Francesco Cardillo, representing e-GEOS, has been appointed as new Chair of Marketing and Communications Committee.



Working for Industry Academia Collaboration

WGIC constituted a ten-member Industry-Academia Engagement Committee lead by Ron Bisio. At the end of 2019, the committee had the first meeting to define the scope of partnerships and models of engagement. The committee now plans to make it a more coordinated process throughout the year 2020 and propose to come up Report on education strategy for the geospatial industry.

NETWORKING EVENTS & SOCIALS

List of concluded Events & Socials with Photos and briefs

August 7, 2019

Welcome Reception at United Nations Headquarters, New York hosted by WGIC



September 19, 2019

WGIC Networking Reception at Stuttgart, Germany hosted by Cyient

December 2, 2019

WGIC Networking Reception at Hyderabad, India hosted by WGIC



January 12, 2020

WGIC Networking Reception at Monterey Bay, US, hosted by WGIC

WAY FORWARD

The year 2019 has seen substantial progress in demonstrating our policy work, in building new working relationships and expanding our reach. As we move forward into 2020 and beyond, WGIC wants to bring more value to its purpose of thinking laterally, positioning consciously, and growing collectively. The following activities from various committees are aligned with our mission.



Partnerships & Industry Engagement

During 2019, WGIC has demonstrated established working relationships with reputed and credible organizations. These partnerships emphasize the importance and critical role geospatial information and knowledge play across numerous sectors. During 2020, WGIC will be closely working with these organizations to demonstrate the importance of geospatial data in these sectors of global priorities. The new secretariat lead for partnerships and industry engagement with the support of the committee will be working on delivery partnership commitments and finding new engagement opportunities in line with our values and mission.

Key aims:

- Deliver impact through existing partners
- Engage with larger UN entities
- Collaborate with industries of relevance

Sectoral Focus

ENERGY

Engage with the International Energy Agency and the World Energy Council. Emphasize the geospatial connections between Smart Cities, City Planning and the Energy Transition

ENGINEERING & INFRASTRUCTURE

Release white paper, engage with WFEO members, work towards version two of resilient infrastructure report. Strengthen geospatial industry connections with building practices and standards

URBAN DEVELOPMENT AND SMART CITIES

Explore strategic partnerships with adjacent industry trade bodies, United Cities and Local Governments (UCLG). Innovation platforms in health care should be in here as well (!)

INDUSTRY/ACADEMIA

Strengthening alliances with academia and polytechnic education to raise awareness for geospatial applications and studies in today's students.



United Nations and Allied Organizations

UN-GGIM:

WGIC will continue its efforts in supporting UN-GGIM by participating in their meetings and activities, making informed, constructive interventions as appropriate.

During this year, WGIC is planning to arrange a workshop on data privacy and protection, as a side-event at UN-GGIM. Further, it will be contributing to the Integrated Geospatial Information Framework (IGIF), including providing the informed comment, and advice on implementation requirements for developing countries.

ITU:

WGIC is participating in the ITU-R (SG3) radio-wave propagation project along with the Telecom working group is contributing geospatial data for test areas. We will also identify further areas of common interest.

Other UN entities

For 2020, we aim to identify and establish contact with five other UN entities involved with geospatial information. We will develop a collaborative relationship with these UN entities.



Policy & Outreach

The Policy engagements from WGIC will be strengthened through new studies of relevance and through socializing of the work. Some of the scheduled activities include - a report on Public-Private Partnerships (PPPs), research studies on AI/ML, and open data. We are also finding more opportunities to support public policy initiatives and provide necessary interventions from time to time. We will also continue our monthly effort, Policy Watch.

Key aims:

- **New Reports:** Undertake an analysis of Artificial Intelligence and Machine Learning (AI/ML) & Public-Private Partnerships (PPPs).
- **Outreach:** We will continue to socialize on the privacy policy report among government & policy agencies so that more considerable attention can be brought to both the topic.



Marketing & Communications

We have also recognized the need for more strategic outreach and engagement with our members, industry, and allied stakeholders and partners. So, we have initiated new marketing and communication activities with a quarterly plan aimed at informing, educating, and enabling our key stakeholders.

Key aims:

- Showcase geospatial industry and its impact in areas of relevance in the global context
- Provide a voice to WGIC's activities
- Drive member-only campaigns aimed at providing value to members

Planned marketing activities for the year:

- Planned marketing activities for the year:
- Member initiative - WGICafé
- Brand upliftment - Website updates
- Report promotions - through public webinars and engagement with policy makers
- Proactive communications - with media firms
- Lead generation - Creation of prospect member database of 1000+ companies



Memberships

Memberships are vital for WGIC, which we aim to strengthen during the year 2020. A membership drive will be in place during this year, to increase the membership significantly that will help us expand our reach in the core geospatial industry.

Key aims:

- Provide value to existing members
- Increase membership base to 90+ members
- Improve member onboarding processes



MEMBER COMPANIES

Patron Members

Corporate Members

Associate Members

Affiliate Members

PATRONS

Chair

JACK DANGERMOND

Founder & President, Esri

Vice Chair

ALAIN DE TAEYE

Member of Management Board,
TomTom

B.V.R. MOHAN REDDY

Founder & Executive Chairman,
Cyient Ltd

DANIEL JABLONSKY

President and CEO
Maxar Technologies
(Parent company of DigitalGlobe)

EDUARDO FALCON

Executive Vice President &
Group General Manager
Topcon Positioning Systems

JUERGEN DOLD

President, GSI
Hexagon AB

STEVEN HAGAN

Vice President, Oracle

JAMES VAN RENS

Senior Vice President
Riegl International

K.K. SINGH

Founder & CEO, Rolta Ltd

LISA CAMPBELL

CMO & SVP, Business
Strategy & Marketing, Autodesk
and Chairman Of The Board
Autodesk Foundation

RAJESH ALLA

Chairman & Managing Director
IIC Technologies Ltd

STEVEN W. BERGLUND

Executive Chairman
Board of Directors
Trimble

SUNIL KUMAR

CEO, GroundTruth

EXECUTIVE BOARD

President

RONALD BISIO

Senior Vice President, Trimble

Secretary General & ceo

SANJAY KUMAR

CEO, Geospatial Media and
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Treasurer

JOHN RENARD

President
Utilities and Geospatial BU,
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ANDREAS GERSTER

Vice President – Construction - BIM,
FARO

ANDREA BERSAN

VP Global Industry
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Maxar Technologies

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Vice President – Maps, TomTom

DEAN ANGELIDES

Corporate Director – International/
Alliances/Partners, Esri

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Oracle Corporation

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EVP, Hexagon Geosystems

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President, International Operations
Rolta International

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President, Association of Geospatial
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Systems

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Executive Director
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Policy Development & Advocacy

Chair

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Vice President – Maps, TomTom

JAMES STEINER

Vice President
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Industry/Academia**Chair****RONALD BISIO**

Senior Vice President, Trimble

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CHRISTIAN SEVCIK

Manager Strategic Software Alliances, Riegl

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Global Product Manager, FUGRO

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SARAH HISHAM

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STEPHANIE LEONARD

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