

2-5 MAY 2023 • ROTTERDAM, THE NETHERLANDS





Subsurface Infrastructure ality of Amsterdam, Tunnel ring Consultants & Infranea

# CONFERENCE REPORT

STEP

# THE CEOSPATIAL CARAUAN TRIUMPHS AT CWF 2023

Geospatial World Forum 2023, held from 2-5 May in Postillion WTC Rotterdam, closes with a resounding success. Almost 1000 delegates were in attendance throughout the 4-day event, representing 521 organizations from 78 countries. The event was conceived and developed in partnership with 44 organizations and 41 exhibitors comprising of government agencies, private companies, academic institutions and development organizations. More than 300 speakers represented the entire value chain of the geospatial industry. It was a uniquely distinct event, having senior executives from national mapping, technology innovators, public policy, and end-user enterprises present and deliberate on nearly 50 topics under one roof. GWF 2023 represented the ever-growing 'Geospatial Caravan: Embracing One and All', and demonstrated the growing relevance and value of geospatial industry in various walks of life. It was an amazing week of value, relevance, and impact!









**THE FACTS** 

**Organizations** 





Example 2 and a speakers





**By User Segments** 















## MAIN STAGE PROGRAM

GWF 2023 featured **12 impactful plenary** programs that captivated the audience with their diverse and engaging content. These sessions brought together **52 plenary speakers**, consisting of industry veterans, end-user experts, thought leaders and young professionals from various fields, sharing insights that fostered meaningful discussions with the audience.





17%

15%

4%

National Geospatial Agencies

Consultants & Professional Bodies

Multilaterals & Development Sector

**Research Institutions** 

Female

# **PARALLEL TRACKS**



### **SIDE PROGRAMS**

### **PARTNERS WORKSHOPS**



The Use of Geospatial Technologies to Transform Mapping Agencies and Land Administrations



Embracing One and All: Evolving from Geospatial Data to Knowledge Infrastructures





Digital Twins | AI and Geospatial

### ROUNDTABLE

Vision and Strategy for the Long-term Development and Adoption of Geospatial Knowledge Infrastructure: Moving 'geospatial' from data to knowledge

### **BOARD MEETINGS**



**UN-GGIM: Europe** 

United Nations Committee of Experts on Global Geospatial Information Management



GEOSPATIAL KNOWLEDGE INFRASTRUCTURE PROJECT

### **SPEAKERS PROFILE**

By Geography



10 O #GWF2023

### GEOSPATIAL CARAVAN: EMBRACING ONE AND ALL

..... the growing relevance and value of geospatial industry in world economy



"Transition is inevitable and heralded by resilience. Resilience can be built through a system of systems approach. This can be done by adhering to a few important steps like Measuring, Modelling, Monitoring and Managing, which leads to sustainability of everything, with Geospatial being the foundational pillar."

Sanjay Kumar Founder & CEO, Geospatial World, India



"To embrace one and all, we have to embrace progress. We need to constantly adapt new methods and tools to answer the growing demands."

Frank Tierolff CEO, Kadaster, The Netherlands



"Geospatial Technology is important and very necessary in domains like Water & Wastewater management, Energy Utilities, Engineering and Public Works management and Census, Demographics and Political Redistricting."

Dean Angelides, Corporate Director Esri, USA



"The impact of Geospatial Technology is felt far and wide, from the grand pursuit of urban planning to the wise stewardship of natural resources, and even to the swift response to emergencies. With the power to analyze and bring to life geospatial data, it grants researchers and decision-makers the gift of vision into the intricate workings of complex systems."

Scott Crozier Vice President, Survey & Mapping Trimble, USA



"We do much more with geospatial data. When you think about a map and the most geo-granular unit with the various different methods with which you can slice a map, what we put on top of this with payment data modelled, panelled, and then projected out is to put out the economic footprint; what is really happening in the consumer activity."

Marc Carolus SVP, Insights & Analytics Location Products, Mastercard, Germany



"GIS and Mapping have not only enhanced business growth but have also helped in minimizing the wastage of land management, reducing negative environmental impact in return."

Sim Choon Cheak VP II, Agronomy & Precision Agriculture, Sime Darby Plantation Research, Malaysia "The evolution of Swiss Geoinformation Strategy followed three stages namely; easy access to geodata which was achieved by 2001, linking geoinformation by 2021 and a goal of integrating Geoknowledge by 2025."

Christine Najar Co-Head of SGS Office, Federal Office of Topography swisstopo, Switzerland "We use geospatial technology to do our resource estimation. Because of GIS, we are able to model our petroleum system elements for us to predict where matured oil wells are and where to plant a rig and where actually to drill oil. Nobody wants to drill into a dry oil well."

Judith Ampomah Owusu Senior Geoscientist, Ghana National Petroleum Corporation (GNPC), Ghana



"In Saudi Arabia, a ministry for the environment was established a few years ago for agriculture and water. Under this ministry, a new strategy was released for the environment. When this strategy is implemented with the ambition of a mega project called Saudi Green, and Middle East Green, Geospatial Information will be the core."

Dr Bandar Saleh Almuslmani Advisor to the Minister, Ministry of Environment, Water and Agriculture, Saudi Arabia



"To analyze disaster scenarios for an accurate insurance process, we use pre-event satellite imagery coupled with post-event imagery, whether that's from satellite or drones, and then to be able to use computer-driven algorithms to start segmenting the footprints and classifying the damage as well. This helps us understand the damage much quicker than having to send someone onto the site."

Kelvin Wong Divisional Director – Catastrophe Analytics, EMEA West-South, Gallagher Re, UK





"Fields of application for Digital Twin Germany includes agriculture, disaster risk reduction and urban planning solutions. With Digital twin, natural disasters like forest fires can be predicted and different response strategies can be simulated for effective and safe firefighting effort."

Paul Becker, President, Federal Agency for Cartography and Geodesy (BKG), Germany



"As a company, over the last 5-10 years, we have had a very strong commitment to sustainability to ESG goals, and we have been working very closely with governments and partners to develop a multistakeholder model which is now adopted by a number of companies. We have been at the forefront of that movement, and it continues to be a big priority for us."

Akshat Pipersenia Head- Customer Strategy & Planning, Unilever The Netherlands

"Digital Twins up until now were established in only certain industries, those industries that had something to lose, but it is slowly leaking into different industries with a dramatic increase in use cases in the next 10 years."

Nigel Clifford Deputy Chairman, Geospatial Commission, UK





"We were not AI professionals so we teamed with a private firm and we started learning how we can transform knowledge from the past to the future. And we learnt a lot of lessons in identifying measurements – understanding all measurement setups and transforming into a physical reality."

Martin Salzmann Corporate Strategy Advisor, Kadaster, The Netherlands

"Earlier, a lot of discussions were around how difficult it was to use spatial technology because everything had a different system. Over time, a lot of those technologies got integrated and even today the focus is on making all the spatial technology interoperable to different users."

Dr. Siva Ravada Vice President of Development, Oracle, USA



"A really *important thing* about geospatial knowledge creation is that it is not only about humans or user interfaces. A lot of interactions that we will have should be put in place to derive knowledge from data and reduce human intervention as much as we can to catalyse machineto-machine interaction."

Sean Wiid CEO, UP42 Germany



"The great thing about digital expansion is that it makes huge levels of inclusion, but frauds can also explore this at the same speed. This is where geospatial data can be very useful in identifying and preventing frauds."

Jagdish Narayanan CIO, Reliance Jio Payments Bank, India





"The customers now desire customized services. We provide tailored recommendations to each user segment, geo is more than just providing hotel options."

Priyanka Sharma Strategic Lead, Manager – Location Intelligence, Booking.com, The Netherlands

"UAE is planning a geospatial knowledge hub to incentivize various government strategies from academia to major stakeholders. Within the centre we are trying to implement some of the really challenging geospatial knowledge transfer and we are starting from the academia from the students going all the way to stakeholders and to partner around the world."

Brig. Ali Al Shehhi Director, National Space Science & Technology Centre, UAE





"There is a direct connection between users, businesses and industries. All of the data are interconnected. from consumers using geospatial data and mapping to businesses and enterprises to connecting them with cities and governance and enabling a global impact – a positive environmental impact."

Miriam Daniel VP & GM, Google Maps for Consumers, Google, USA "Digital Twins and all of the AEC environments are a 'system of systems'. You can't build a system isolated from the local environment, without understanding how it's connected by roads, rail, waterways, and other utilities. Much of Digital Twins would be driven by technology convergence primarily between BIM and GIS. Digital Twins for AEC need to support analytical use-cases"

#### **Eric DesRoche**

Director, Infrastructure Business Strategy, AEC Design Solutions, Autodesk, USA





"We can visualize and analyze what has been captured, allowing our consumers to take data-backed decisions. With IoT and other myriad of sensors being exponentially placed everywhere, there's a need of high accuracy layers and layers of information on exactly where they have been placed."

Serge Lupas CEO, Cyclomedia, The Netherlands



"For a Digital Twin, data needs to be 'complete, accurate, and up-to-date'. This statement can serve as a fitting coda to the power of real-time data and the mutual reinforcement and complementarity between geospatial visualization and BIM."

Luc De Heyn Chief Commercial Officer, Merkator, Belgium

"It is necessary for the global geospatial enterprise represented at this event to sustain our planet. We must direct virtually unlimited power of geospatial science to restore our planet, sustain the human race, and steer everyone towards a peaceful and prosperous future."

Ronda Schrenk CEO, United States Geospatial Intelligence Foundation (USGIF) USA





"We need to be at least twice as smart as humans. If we start to use all the geospatial data we have, and all the other data in motion that you are part of, smartly, and if we increase the focus on sustainability, I'm confident we are going to save this planet."

Erik Josefsson CEO, R-evolution, Sweden

"Sustainability has taken the centre stage of all of our activities and all that we do. ESG is a big ticket item and an immense agenda as a requirement for all of our developmental activities of governments, corporates and civil societies."

Basanta Shrestha Former Director of Strategic Cooperation, ICIMOD, Nepal



"We have been hearing how important it is to have high quality data. It is obviously the basis of having good quality reporting and analysis. The ultimate aim for our data collection is to make it as simple as possible. How to get your hands on drone data as simple and fast as possible."

Markku Koivisto Chief Business Development Officer, GLOBHE, Sweden





"We use drones for reforesting initiatives in different parts of India and other parts of the world. We have taken great efforts in driving e-mobility and we are also part of this whole EV value chain in more ways than one to encourage sustainable usage."

Saurabh Rai Global Head Analytics, Business Process Services, Tech Mahindra, India

"Being a tropical country, we really need information to drive the solution in our limitation in this country including the disasters. The usage of remote sensing system integrated with geospatial database of our country is really helping us in providing solutions to many issues."

Azlikamil Napiah Director General, Malaysian Space Agency (MYSA), Malaysia





Director of Global National Government, Esri, USA





"Within the geospatial sector, the state of DEI is still not well accepted. We should sit down and think what exactly the problem is and what the solutions are. We need to make clear that an organization should not discriminate against people based on race, gender, sexual orientation, religion, or national origin."

Albert Momo Vice President & Executive Director, Emerging Markets and Funded Projects, Trimble, USA

"Digital divide in the geospatial industry consists of the whole series of gaps that we see between the developed and developing world. Those gaps are inherent to DEI itself, from the perspective of technology adaption, access, value, and use in a digital environment."

Dr. Greg Scott Inter-Regional Advisor, UN-GGIM, United Nations



"In the UAE, 54% of women are working in the geospatial sector in the academic, federal, private/ semi-government sectors as well as in local sectors."

Anwaar Al Shimmari Executive Director, Federal Geographic Information Center, UAE



"In Thailand, we are trying to create and drive our economic goals by upgrading geospatial technology. As part of the Geoinformatics committee in Thailand, we are drafting a master plan to provide direction for our country for the development of geospatial technologies and capabilities."

Kandasri Limpakom Deputy Executive Director, GISTDA, Thailand



"We needed to focus on strategy and customers, so the technology just needed to work out of the box"

Colin Bray, CEO, Ordnance Survey Ireland, President, EuroGeographics "In diversity, equity, and inclusion, accessibility plays an important role."

Sergio Fernandez De Cordova Executive Chairman, PVBLIC Foundation, USA



"It is our responsibility to manage our world, achieve the SDGs, strengthen our institutions, share knowledge, work together, create impact and leave no one behind."

Paula Dijkstra Director, Kadaster International, The Netherlands



"We are focusing on building EO Satellites, as well as, managing missions that are operating in a way that they are in any point of time optimized towards data production, quality, and content."

#### Nicolaus Hanowski

Head, Mission Management & Ground Segments Department, Directorate of Earth Observation Programmes, European Space Agency





"The Australian Space + Spatial Roadmap 2030 has been delivered to the Australian Space Agency as an input to the national blueprint which is the overall document that will drive Australia's space and spatial industry going forward."

Glenn Cockerton Managing Director, Spatial Vision, Australia "What we are currently exploring is actually how we can utilize EO capabilities to help us improve what we are currently doing and grow newer capabilities. We currently update our database completely every 3 years and we think we can improve the overall capabilities from space."

#### Donna Lyndsay Strategic Market Lead – Environment and Sustainability, Ordnance Survey, UK



"In terms of the increasing quantity of space startups, I think there are many opportunities and some overlap, but this overlap translates into competition. It is very interesting and important to stimulate this competition."

Gianluigi Baldesi Senior Commercialisation Officer European Space Agency

"Understanding Space debris problem as a community and then thinking of solutions is really important. This is something we cannot ignore. It can increase the cost of data, it can delay it. It can be a big problem for continuity of service."

Krystal Azelton Director of Space Applications Programs, Secure World Foundation, USA





"There is a concern over lack of transparency and understanding of State's policies and governance measures over Space activities. This is why we are creating a space security portal to house both international and national space policies and governance mechanisms as well as global multistakeholder initiatives."

#### Sarah Erickson Research Assistant – Space Security and WMD Programmes, UN Institute for Disarmament Research (UNIDIR), USA

"The land administration concepts are not new, and the agreements for standards have been slow to develop. The greatest challenge faced by the land administration is the improvement of its processes. When modeling the real world, the priority should always be the needs of real citizens."

Golgi Alvarez Founder & Editor, Geofumadas, Colombia



"The amalgamation of geospatial and BIM data can enhance collaboration among stakeholders and help them make betterinformed judgments, leading to a more sustainable and efficient built environment."

Roeland Allewijn Chief Data Officer, Ministry of Water and Infrastructure (Rijkswaterstaat), The Netherlands



"There is an increasing demand for BIM and GIS interoperability and we are not leveraging readily available potential. With this convergence to GEOBIM, 13 days of an average project cost can be saved, with 90 days of construction time saved."

Marek Suchocki Head of Industry Associations Strategy, Autodesk, UK

"Communities are data co-creators and users, not simply data subjects. This requires a fundamental shift in how we currently think about data for measuring SDG achievement and we need to empower and support this."

Amy Coughenour Betancourt <u>CEO, CADASTA Foundation, USA</u>





*"Climate law of the* EU aims to achieve climate neutrality by 2050. This means a drastic reduction in greenhouse gas emissions, but also *compensating for* residual emissions through carbon removals. Geodata will be required to measure. monitor. report, and verify the carbon removals."

Simon Kay Deputy Head of Land Economy and Carbon Removals Unit, Directorate-General for Climate Action (DG CLIMA), European Commission "The issue of sustainability is often closely connected with the matter of debris. Of course, if you have growing number of debris in outer space it means we will not be able place more objects and the objects that are already there, are in greater danger. This is why we have debris mitigation guidelines."

Dimitra Stefoudi International Institute of Air and Space Law, Leiden University, The Netherlands



"The merging of geospatial and BIM technologies has brought a transformation in our approach towards the planning, building, and maintenance of structures. When geospatial data is combined with BIM, it can lead to the creation of precise and intricate digital models of constructions and their surrounding areas."

Pieter Van Teeffelen Director, digiGO, The Netherlands

"Having reliable database management systems helps with the adequate storage and effective management of geospatial data. The authority aims to regulate, develop, supervise, and monitor the survey, geospatial information, and related imagery sectors in the Kingdom."

Eng. Naif Saeed Al-Juhany Executive Director of Geospatial Products, General Authority for Survey and Geospatial Information, Saudi Arabia



### **OUR EXHIBITORS**



### EXHIBITOR PROFILE By Geography



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### **GEOSPATIAL WORLD LEADERSHIP AWARDS**



Lifetime Achievement Award Hugo de Groof



Geospatial Ambassador of the Year

**Deirdre Dalpiaz Bishop** 



Geospatial DEI Champion of the Year

**Mikko Tamura** 



National Geospatial Agency of the Year

Federal Agency for Cartography and Geodesy (BKG), Germany



Startup Company of the Year **Xona Space Systems** 



Geospatial Innovator of the Year

Maptionnaire



Department of Science and Technology Government of India

Enabling Public Policy Department of Science and Technology, Government of India



Empowering Community Award

**Kadaster International** 



Advancing Sustainability Award

**Beneath The Waves** 



Development Organization of the Year

**PVBLIC FOUNDATION** 



Research, Science & Technology Institution of the Year

VITO Remote Sensing

### **GEOSPATIAL WORLD EXCELLENCE AWARDS**



Asset Management
Housing Development Board
(HDB), Singapore



Agriculture

Malaysian Space Agency (MYSA), Department of Agriculture (DOA), and Malaysian Agricultural Research and Development Institute (MARDI), Malaysia



Geospatial Infrastructure Madinah Region Development Authority, Saudi Arabia



Public Transportation
ProRail, The Netherlands



Public Safety
Devon & Cornwall Police, UK



Knoweldge Platform MapBiomas, Brazil



Environmental, Social, Governance Boliden & GlobalTrust

### **GEOBIM AWARDS**



Innovation in Built Environment

**Recloud**, Spain



Excellence in Subsurface Infrastructure

Municipality of Amsterdam, Tunnel Engineering Consultants & Infranea, The Netherlands

## **PARTICIPATING ORGANIZATIONS**

- 1Spatial
- 3DGIS SRL
- 7 Satya
- ACCA software S.p.A.
- Adama Science and Technology University
- ADAPT AIMapIT
- AECA Solutions Sdn Bhd
- Aerotopia
- Agency for Communication Networks and Services, Slovenia
- Agency for Land Relations and Cadastre, Moldova
- Airbus Defence and Space
- Algerian Space Agency
- Almoaayed Contracting
- Anaximander Ltd
- APGLOS
- ArchiTube
- Arkad E&C Co.
- Aryve by Svarmony
- Asda
- Ashghal Public Works Authority, Qatar
- Asia Digital Lab, Obayashi Corporation
- Association of Authorised Land Surveyors Malaysia
- ASTERRA
- Aulageo Academy
- Australian Geospatial-Intelligence Organisation
- Authority for Consumers and Markets, The Netherlands
- Autodesk
- AWS
- B.O.T Bridge. Outsource.
  Transform
- Bad Elf

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- BAM
- Barjeel Aerial Photography

- Services
- BEANS.AI
- Beneath the Waves
- Bentley Systems
- BIM Academy
- Blue Sky Analytics
- Bluesky International Ltd
- BMDV / D-GEO
- Boliden
- Booking.com
- Boon-landmeten
- Bormap Surveys Sdn Bhd
- Botswana Geoscience
   Intitute
- Bridgestone Mobility Solutions
- Brihanmumbai Municipal Corporation
- British Cartographic Society (BCS)
- British Geological Survey
- Building Digital Twin Association (BDTA)
- buildingSMART International
- BuroHappold
- CADASTA Foundation
- Camptocamp
- Capella Space
- Carmo Energy
- CEDEJ/ CNRS, Egypt
- Center for Policy and Research Analysis, Mongolia
- Central University of Tamil
   Nadu
- Centre for Machine
   Learning and Intelligence,
   India
- Centre for Remote Sensing and Geographic Information Services, Ghana
  - CEPT Research and

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- Development Foundation
- Chartered Institution
- of Civil Engineering Surveyors, UK
- Chatham County Engineering
- Children's National Hospital
- ClearSpace
- Coders Co.
- Compusult Limited
- Conflict Armament Research
- Congress of Local Authorities of Moldova
- constellr GmbH
- ConsultingWhere
- cosine
- cropix
- Cuebiq
- Cyclomedia
- Cyient Limited
- dataplor
- Department of Agriculture, Land Reform and Rural Development, South Africa
- Department of Municipalities and Transport, UAE
- Devon and Cornwall Police, UK
- DG CLIMA, European Commission
- Diccotra
- digiGO BIM Loket
- DLR German Aerospace
   Center
- Dresden University of Technology
- DSM SOFT PVT LTD
- Echo Analytics
- Ecopia AI
- e-GEOS

- Egis Group
- eLEAF
- Elektrobit Automotive GmbH
- Element 84

Euroconsult

EUROGI

- Elsevier
- Erasmus University of Rotterdam

Estrategas de Mexico

EuroGeographics AISBL

**European Association** 

of Aerial Surveying

Industries (EAASI)

European Association

of Remote Sensing

Companies (EARSC)

European Topic Centre

Eurostat, European

**Extinction Resilience** 

Federal Administration

Property Affairs, Bosnia-

for Geodetic and Real

Federal Agency for

Geodesy, Germany

Federal Geographic

Information Center, UAE

Topography swisstopo

Cartography and

Federal Office of

FeHill Ltd

FIDIC

digitalisation

Commission

ExxonMobil

Herzegovina

Eurosense

EVONA

EY LLC

European Space Agency

**European Space Imaging** 

on data integration and

• Esri

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- First National Bank, South Africa
- Flycom Technologies
- Food and Agricultural Organization of United Nations (FAO)
- ForestRe
- Foundation for Ecological Security
- French Geological Survey (BRGM)
- Fressnapf / Maxizoo
- Fugro
- GAF AG
- GalaxEye
- Galilee Surveyors LTD
- Gallagher Re
- General Authority for Survey and Geospatial Information (GEOSA), Saudi Arabia
- Generali
- Geo
- Geo Engine GmbH
- Geo Solutions
- Geoadvisors
- Geochicas
- Geodan
- Geodatum Sdn Bhd
- Geofumadas
- Geographical Institute of Burkina
- Geological Survey of Slovenia
- Geological Survey of the Netherlands
- Geomaat Caribe
- Geomatics Survey Consultants
- Geometius bv
- Geonovum
- GEOSAT
- GeoSolutions Group
- Geospatial Frameworks
- Geoworm
- Ghana National Petroleum

Corporation

- GIM
- GISKernel Technologies
   LLP
- Gisspider B.V.
- GISTDA
- GIZ
- Gleeds.com
- GlobalTrust Ltd
- GLOBHE
- Google
- Greater St. Louis, Inc.
- Griffith University
- Hanzehoge School Groningen
- Haypp Group
- HCP international
- Hexagon
- Hogeschool Gent
- Housing & Development Board (HDB), Singapore
- HSBC
- HSR.health
- Huawei Technologies
   Duesseldorf GmbH
- ICA Sweden
- IDP Ingenieraa y
- Arquitectura Iberia, S.L.U.
- IFPA, Brazil
- IGN France
- IIC Technologies
- Imageo Srl
- Infosys BPM
- Inigo Insurance
- Innovate UK KTN
- INSEAD
- Institute for Positive Health, The Netherlands
- Institute of Oceanology of the Polish Academy of Sciences (IO PAN)
- International Cartographic Association
- International Institute of Air and Space Law, Leiden University

- International Labour Organization
- International Society for Photogrammetry and Remote Sensing (ISPRS)

Lucerne University of

Luxembourg Institute of

Science and Technology

Development Authority

Malaysian Space Agency

Maps and Legends PR

Luciad NV

Mace Group

Magnasoft

(MYSA)

MapBiomas

MapUganda

Mastercard

Meninas da Geo

Metropolitan City of

Ministry of Environment

Ministry of Municipality.

Ministry of the Interior

The Netherlands

Montgomery Asia

Municipality of Delft

Muscat Electricity

Registry, Georgia

Distribution Company

Nagaoka Consultancy

National Agency of Public

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Municipality of Rotterdam

Municipality of The Hague

Municipality of

Amsterdam

and Kingdom Relations,

Water & Agriculture, Saudi

Mattel

Meta

Merkator

Bologna

Microsoft

MindEarth

Mindshare

Arabia

Qatar

MINnD

Mapita Oy

Mapotic

Madinah Region

Applied Sciences and Arts

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- ISpatial Techno Solutions
- Italian Institute for Environmental Protection and Research (ISPRA)
- ITRES Research Limited
- Jagiellonian University
- JAXA
- Jefferson Community and Technical College, GeoTech Center
- Jio Payments Bank
- Jio Platforms Limited
- JNA, Malaysia
- Joint Research Centre, European Commission
- Jurukur Dr Abd Majid
- Jurukur Inovasi Sdn Bhd
- Jurukur Samsudin Hassan
- Jurukur Watan
- Kadaster
- Kane Group
- KEO / InSite
- KERMAP
- Kinetica
- KPMG
  - L&T Construction
  - L3Harris Geospatial Solutions
  - Landmark Solutions
  - Lands Commission, Ghana
- Latvian Geospatial Information Agency
- Leibniz Centre for Tropical Marine Research

Location Based Marketing

Location International

Locator Logic Solutions

LiveEO GmbH

Locana

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• Local Eyes B.V.

Association

- National Center for Vegetation Cover, Saudi Arabia
- National Center of Mapping and Remote Sensing, Tunisia
- National Central University, Taiwan
- National Frequency Agency (ANFR), France
- National Geographic Institute of Belgium
- National Geospatial-Intelligence Agency (NGA), USA
- National Land Survey of
   Finland
- National Space Science Technology Center (NSSTC), UAE
- NATO Communications and Information Agency (NCIA)
- Natural Resources Canada
- NavVis
- NCTech
- Neara
- Netherlands Space Office
- New Changer srl
- New Light Technologies
- NextNav
- Nomoko AG
- Northwestern University
- Norwegian Institute of Bioeconomy Research
- Norwegian Mapping
   Authority
- NVIDIA
- Ocient
- OECD
- Office for National Statistics, UK
- OGB Advisory
- Oman Electricity Transmission Company
- Open Cosmos

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- Open Geospatial
   Consortium
- OPT/NET BV
- Oracle
- Orbica
- Ordnance Survey
- OroraTech GmbH
- OSNI
- Overture Maps Foundation
- Pathway Technologies
- PENTA-B FOR GIS
- Peregrine.Al
- Perunding Ukur Rahman Hamid
- Petrogas E&P
- Petroleum Development
   Oman
- PETRONAS Carigali Sdn. Bhd.
- PHOTOMAP, s.r.o.
- PhotoSat LLC
- Picterra
- Pixxel
- PLACE
- PlanBlue GmbH
- Planet Earth Crew
- Planet soft d.o.o.
- PLUS Department of Geoinformatics, Austria
- Politecnico di Bari
- Pomerleau
- Prague University of Economics and Business
- Prashant Advanced Survey LLP
- Precisely
- ProRail
- Province of Gelderland
- PVBLIC Foundation
- PwC
- Quectel Ltd.
- Ramboll
- RASIKH for Communication and IT
- RB Rail AS

- Recloud
- Reflex Aerospace
- Regional Governance of Crete

Skyline

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Space Agency of the

(Azercosmos)

Space Shift, Inc.

Spatial Vision

and Cadastre

Statistics Poland

Surrey Satellite

Survey of India

Swedish Transport

Swift Geospatial

Syk Ayob bin Saud

Synspective Inc.

SYSTRA USA

Tailte Eireann

**Tallinn Strategy** 

Tagnia ETS

Telespazio

Limited

Tensorflight

Management Office

TATA Consultancy

**Ter Haar Geoinnovation** 

Services Limited

Tech Mahindra

Terra Visus Ltd

TERRASOLID Ltd.

takatoa

Administration

of Slovenia

Swiss Re

Technology Ltd.

Survey Development

Surveying and Mapping

Swedish Armed Forces

Authority of the Republic

Services, Malaysia

Statistics Portugal

Space4Good B.V

Development and

Housing, Germany

Republic of Azerbaijan

SpaceWill Info. Co., Ltd.

State Ministry for Urban

State Service of Ukraine

for Geodesy, Cartography

Sultan Qaboos University

- Reliance Projects & Property Management Services Ltd.
- Republic Geodetic
   Authority, Serbia
- R-evolution
- RIEGL
- Rijkswaterstaat
- RISE3D
- River Rejuvenation, Art of Living
- RMIT University
- RMSI LIMITED
- Roam.ai
- Roshn Real Estate
- Royal HaskoningDHV
- Royal Schiphol Group
- Sabah Lands and Surveys Department
- Sabah State Public
   Service Department
- Sabah Surveyors Board
- Satellite Vu
- Satellogic
- Satlantis
- SatSure
- Saudi Aramco
- Saudi Authority for Industrial Cities and Technology Zones (MODON)
- SDG Netherlands
- Seabed 2030
- Secure World Foundation
- Sensat

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- SI Imaging Services
- Siemens
- Sime Darby Plantation Research
- Simone de Gale Architects
- Sisters of SAR

Skyability GmbH

- **TerraWatch Space** •
- The BIM Engineers •
- The Data Appeal • Company
- The Geospatial Hub
- The Nature Conservancy •
- The Public Authority for • Special Economic Zones and Free Zones, Oman
- The University of Edinburgh
- The University of Strathclyde
- The University of Tokyo •
- The World Bank
- Three UK •
- TM Systems •
- TNO •
- TomTom •
- **Topcon Positioning Group** •
- TopoDOT •
- Trabajos Catastrales, S.A. •
- Transerve •

- TRE ALTAMIRA
- Trimble
- TU Delft
- TUM •
- Twenty First Century Aerospace Technology (Asia) Pte Ltd
- TYPSA
- U.S. Census Bureau •
- U.S. Geological Survey (USGS)
- UK Geospatial Commission
- Ulster University
- UNDP •
- Unilever
- United Nations Department of Political and Peacebuilding Affairs Innovation Cell (UN DPPA IC)
- United Nations Institute for Disarmament Research (UNIDIR)

- United Nations Statistics Division
- United Nations World Food Programme
- Universidad Anahuac Mexico
- Universitat Oberta de Catalunya
- University of Bath •
- University of Bonn
- University of Hull ۲
- University Of Oxford University of Southern
- University of Strathclyde
- University of Tirana
- University of Twente
- Unseenlabs •
- **UP42** •
- Vasco) Bilbao
- Authority of Singapore

- USGIF
- Veitur .
- VeriDaaS
- Verizon •
- Vexcel Imaging
- VIDA
- VisserConsultancy
- VITO Remote Sensing •
- Volker Energy Solutions •
- **VolkerWessels**
- VU Amsterdam ۰.
- Waternet
- Wilkinson Eyre
- Windover Construction
- Wingtra
- Witteveen+Bos
- Women in Geospatial
- Woolpert •
- World Geospatial Industry • Council (WGIC)
- World Resources Institute
- **Xcalibur Multiphysics**













- California

  - UPV (Universidad del País)
  - Urban Redevelopment





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