



eoMALL
facilitating the European
marketplace for **eo**services

Editorial

The market for EO data and services is changing rapidly. New satellites are launched seemingly each week, new sources of data become available and new processing technologies are making it ever easier to access this growing mountain of data. In response, services are moving from being a project based market to being on-line and available on subscription; **Information as a Service** is the term being used.

EARSC is planning to put in place some new mechanisms which should help the industry adjust to this new market.

Supported by ESA, EARSC is studying the possible conditions for establishing a **Marketplace Alliance for EO Services (MAEOS)**.

[Keep reading...](#)

Summary

Issue Autumn 2016

EARSC Activities

[EARSC Board decides to move ahead with MAEOS/EOMall](#)

As many of you will know we are studying the possible conditions for establishing a Marketplace Alliance for EO Services (MAEOS).

[EARSC is hiring !](#)

The European Association of Remote Sensing Companies, EARSC is looking for a Market analyst to join its team.

[Follow EARSC on LinkedIn](#)

EARSC is expanding its social media presence with its new [LinkedIn page](#). Follow our page in order to get the latest news about the association, its projects and members.

[OGEOzine Autumn 2016](#)

magazine focus for the oil & gas community

[Satellites benefiting citizens – New portal](#)

EARSC has launched a dedicated web portal showcasing the results of the [Copernicus Sentinels. Products Economic Benefit study](#)

[Session on African Private Sector in EO and GI at AARSE 2016](#)

Results of the inventory of the African private EO and Geospatial industry will be presented at the AARSE2016 Conference on 26 October 2016 during the plenary session focused on Private sector in EO and GI.

[Study to Establish a Marketplace Alliance for EO Services \(MAEOS\)](#)

The MAEOS study is examining the context in which the many EO services companies are operating and the extent to which new trends such as the projected (anticipated) market share increase for geospatial web services can be addressed through a Marketplace.

[Use of Earth Observation Data for Oil and Gas](#)

(Published by GIS Lounge on August 4 by Andrew Cutts, owner of ACGeospatial) It discusses the role of GIS and earth observation data in the oil and gas

industry in this guest article.

[Visualisation of African Earth Observation companies](#)

Last July, [AARSE](#), the African Association of Remote Sensing of the Environment in cooperation with EARSC published an [inventory](#) of African private sectors companies working in the field of Earth Observation

Interview

[Interview with 2016 EARSC Company Award winner, Fabrizio Pirondini, CEO Deimos Imaging](#)

Industry Profile

[PlanetObserver – Your partner for high quality geospatial data](#)

PlanetObserver offers a full range of value-added geospatial products, ready-to-use in any professional solution for visualization, simulation and mapping.

[Release of PlanetSAT 15 L8 imagery basemap of Asia by PlanetObserver](#)

Clermont-Ferrand, 12 October 2016 – The French company PlanetObserver, specialized in imagery basemap production for more than 25 years, announced today the coverage of Asia with PlanetSAT 15 L8 basemap, that covers now 40% of the Earth's land mass.

Member News

[A 360° view of opportunities and issues in the EO sector](#)

Now in its 9th edition, Satellite-Based Earth Observation presents an assessment of the current EO value chain and provides forecasts as to how this may evolve leading to 2025. This report presents Euroconsult's understanding of the various factors that will drive/inhibit the growth in demand for EO satellites and solutions.

[Airbus Defence and Space Invests in Very High-Resolution Satellite Imagery from 2020 Onwards](#)

- Four very high-resolution (VHR) optical Earth observation satellites to be launched in 2020 and 2021 will ensure continuity of Pléiades mission
- Highly responsive dual VHR constellation will offer state-of-the art service to the Airbus Defence and Space imagery user's community for the next decade
- Recognised operational Pléiades system features will be improved to match the market requirements expected to be the norm at the time of launch, and will deliver new applications such as business intelligence and analytics

[Airbus Defence and Space Launches "One Tasking" Defining a New Level of Customer](#)

Airbus Defence and Space launched its latest development in satellite imagery acquisition and distribution, One Tasking. Representing a major step change, One Tasking offers customers the most intuitive and cost-effective way to rapidly task an Airbus Defence and Space's satellite – all from the comfort of their own desk.

[Airbus Defence and Space Selects Google Cloud Platform as Preferred Partner](#)

Airbus Defence and Space has launched One Atlas, a new basemap streaming service delivering access to its satellite imagery over the world, fully refreshed within a 12-month period. It is powered by Google Cloud Platform.

[Airbus Defence and Space, TFT and SarVision to Provide Unprecedented Accuracy for Verification of Zero Deforestation Commitments](#)

New combination of optical and radar satellite technology in operation with Ferrero and Nestlé as pilot customers

[Airbus Defence and Space-built PerúSAT-1 delivers first images](#)

- Peru's first satellite image reveals Cuajone, a large copper mine in the south of the country
- Latin America's most powerful satellite gives 70 cm resolution

[Airbus Defense and Space Provides Managed Hosting, Geospatial Streaming Services and GATOR Device to the State of North Carolina for Hurricane Matthew Support](#)

i-cubed, an Airbus Defense and Space company based in Fort Collins, Colorado, is supplying the State of North Carolina with imagery streaming services to help prepare and respond to Hurricane Matthew. Additionally, a Geospatial Appliance Targeted for Operational Response device, also dubbed GATOR, has been sent to North Carolina state officials to help with emergency response efforts.

[CGG Acquires Saturno Multi-Client Survey](#)

Summary

[over Santos Basin Offshore Brazil Issue Autumn 2016](#)

Paris, France – 5 October 2016. CGG announced today the start of a large broadband 3D multi-client survey in the pre-salt area of the deepwater Santos Basin. Santos VII (Saturno) is the third phase in CGG's most ambitious pre-salt project to date, collectively known as the Santos Basin Trilogy.

[CGG Announces Joint Venture with GOSCO for Seismic Services Offshore Ghana](#)

(Paris, France – August 30, 2016) CGG announced today that it has signed an agreement with GNPC Operating Services Company Ltd (GOSCO), an independent Ghanaian E&P services company, to form a joint-venture company dedicated to conducting high-end 2D, 3D and 4D marine seismic acquisition and related services in the territorial waters of the Republic of Ghana.

[Developing affordable bathymetry data](#)

The European Space Agency (ESA) is backing a DHI and Proteus Geo project to advance satellite-derived bathymetry, reducing the need for costly physical surveys.

[DigitalGlobe to Acquire The Radiant Group, Leading Provider of Advanced Geospatial Solutions to the U.S. Intelligence Community](#)

WESTMINSTER, Colo.—(BUSINESS WIRE)—Oct. 11, 2016— DigitalGlobe, Inc. (NYSE: DGI), the global leader in Earth imagery and information about our changing planet, today announced that it has signed a definitive agreement to acquire privately held The Radiant Group, Inc. ("Radiant") from Aston Capital for \$140 million in cash.

[Earth Observation for Sustainable Development – the water case](#)

DHI GRAS to lead ESA project on large-scale exploitation of satellite data in support of water resource management and sustainable development

[Earth Observation Manufacturing, Data Markets Continue Expansion](#)

(Paris, Washington D.C., Montreal, Yokohama, September 15, 2016) – According to the 9th edition of Euroconsult's report. Satellite-Based Earth

Issue Autumn 2016

Observation Market Prospects to 2025, due to be published in the coming weeks, 163 satellites (>50kg) were launched for civil and commercial Earth observation (excluding meteorology) over 2006-2015. These were launched for entities in 35 countries and generated \$18.4 billion in manufacturing market revenues. Most of these satellites were launched by government operators to support policy objectives spanning climate change, sustainable development and industrial support. In addition, EO remains the primary application for emerging space programs; growing funding into these programs is a key driver for overall investment growth. In 2015 civil government investment topped \$10 billion for the first time.

Earth Observation: critical in an emergency – essential in situational awareness

© by Peter Hausknecht, PhD, Chief Scientist, Earth-i. Earth observation has contributed to the response activities in the recent Canadian wildfires. Aerial imagery and satellite data from sensors of all wavelengths and spatial dimensions were utilised to assess and combat the recent fires – most likely the biggest environmental catastrophe in Canada's recent history. Due to its location near the Fort McMurray shale fields, the oil industry was quickly drawn into the disaster response, needing to demonstrate its readiness to shut down production, secure assets and evacuate people on a large scale.

EGI & Terradue: a better Cloud service for science

The European Grid Infrastructure (EGI) is proud to announce new agreement (SLA) between a group of EGI Resource Centres and Terradue Srl, a leading company in delivering e-Infrastructures for earth sciences. "Teaming up with a major European Cloud Computing provider through our Partner Programme is reinforcing the strategic evolutions of Terradue Cloud Platform" said Hervé Caumont, head of Terradue Platform Operations, "as this new capacity will support our users to run near real-time processing of satellite data acquisitions".

European Space Imaging partner in newly launched MARSAT consortium

(Munich, 15/09/16) MARSAT consortium announced it is ready to provide innovative space-based applications using satellite-derived information for the maritime and coastal industry. MARSAT's main goal is to create integrated satellite-based services to improve safety and efficiency in shipping, offshore industries, emergency response and rescue operations.

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[Eurosense presented a summary of its 33 years of experience in oil spill detection at the first "Black Sea from Space Workshop", Constanta, Romania, 28-30 September, 2016.](#)

Eurosense presented its practical approach to detect and validate oil spills at the sea surface. The first successful test and evaluation of an airborne radar system dates back to 1983. Nowadays, Sentinel-1 and 2 images are used to map oil spills with a very high level of confidence.

[GAF AG looks back at 20 years of handling Indian Earth observation satellite data in Neustrelitz](#)

(Neustrelitz, Germany October 4, 2016) This year marks the 20th anniversary of signing an agreement with Antrix, the commercial arm of the Indian Space Research Organisation (ISRO), to receive and distribute Indian EO satellite data on an exclusive basis for European customers.

[Gisat develops a new processing system for continuous monitoring of terrestrial ecosystem dynamics](#)

The aim of the TED monitoring project is to explore the potential of long time series of high resolution EO imagery (Landsat and Sentinel-2 missions) for terrestrial ecosystem monitoring through the development of a new processing system and demonstration of novel approaches for long-term continuous detection of land cover (use) changes.

[GMV helps to clear up unanswered Earth-observation questions](#)

EarthCARE is an earth-observation mission being carried out by the European Space Agency (ESA) in collaboration with Japan's Space Agency (JAXA) and its National Institute of Information and Communications Technology (NICT); it forms part of an initiative known as Earth Explorers, designed by ESA to address specific areas of public concern as identified by the science community within the field of earth sciences; each of these core missions centers its research on a different aspect of earth science. EarthCARE itself, slated for a 2018 launch, will study clouds, aerosols and their interaction with the sun's radiation.

[IABG develops digital and mobile loa](#)

IABG has developed the WoodCA app for digital and mobile measurement of timber stacks. Using a photo-optical method, the number of logs is determined and the stack volume is automatically calculated.

[Increased use of satellite monitoring on the Norwegian Shelf](#)

NOFO (Norwegian Clean Seas Association for Operating Companies) and **KSAT** (Kongsberg Satellite Services) has signed an extended agreement for satellite-based remote sensing, on the Norwegian Continental Shelf, for detection of acute pollution from petroleum activity.

[Leveraging the value of Copernicus](#)

by Peter Hausknecht, PhD, Chief Scientist, Earth-i. Earth-i provides access to even more very high resolution satellite data sets from UK built satellites – complementing the successful European Sentinel2 mission data.

[New combination of optical and radar satellite technology in operation with Ferrero and Nestlé as pilot customers](#)

Airbus Defence and Space, The Forest Trust (TFT) and SarVision have jointly developed a service enabling companies to provide evidence of how they are implementing their No Deforestation commitments.

[NewSpace To Ground... Kongsbergs Key Solutions](#)

(By Stig-Are-Thrana, US Sales Director, Kongsberg) KSAT adapted ideas and solutions early on to form the KSAT lite network by understanding the mindset of the company's NewSpace customers.

[Planetek Italia and European Space Imaging support earthquake emergency operations with very high-resolution satellite images](#)

(Munich, 26/08/16) European Space Imaging and its long-term partner Planetek Italia sprang into action to support disaster relief efforts by supplying the first available very high-resolution satellite imagery to emergency services and the media just hours after the recent earthquake struck Italy. The imagery was captured by the WorldView-2 satellite over the affected

region showing the extent of the damages caused. The high resolution image was immediately made available to the Italian Emergency Services.

[Potential Benefits of TerraSAR-X and TanDEM-X](#)

The German satellite duo TerraSAR-X and TanDEM-X have consistently delivered one-of-a-kind Earth observation data since 2007 and 2010, hence shaping the international research landscape.

[Reinforcing CAP with remote sensing](#)

As a broad range of modern technological advances that benefit agriculture, satellite technology offers the possibility to reduce the dependence on labour and time-intensive work.

[Research and Innovation in Support to the Earth observation Market](#)

(10/01/2016) On 21 and 22 September, in Brussels, GMV took part in the EU Research and Innovation in Support to the Earth observation Market workshop organized by the Directorate Climate Action and Resource Efficiency of the European Commission's DG Research and Innovation (DG RTD).

[Satellite based Earth monitoring: new resellers for Rheticus® services in Poland, Albania and Central America.](#)

Bari, Italy, October 6th, 2016. Planetek Italia is pleased to announce that The Wroclaw Institute, GeoSolutions Consulting Inc. and Gjeo-Vjosa sh.p.k. have been appointed as Authorized Partners for the reselling of the Earth monitoring services offered by its cloud platform, Rheticus®.

[The Arctic Council and the Italian Perspective](#)

(Monday, 10 October 2016). e-GEOS takes part today in the Conference "The Arctic Council and the Italian Perspective", organised at Palazzo della Farnesina by the Ministry of Foreign Affairs and International Cooperation, jointly with the Institute of International Affairs, the National Research Council (CNR) and the Italian Society for International Organisation (SIOI). The event will focus on the activities of the Arctic Council, which Italy participates in as Observer, and the international cooperation initiatives of interest for Italy from a political, scientific and entrepreneurial standpoint.

[TRE ALTAMIRA provides different kinds of satellite analyses over the Central Italy area struck by the quake of 24 August 2016](#)

Milan, 19 September 2016. TRE ALTAMIRA has mapped ground motion and detected land changes in the Central Italy area struck by the earthquake using different kinds of processing algorithms and radar satellite platforms. This is our contribution to the understanding of what happened before, during and after the catastrophic event.

[Vricon: geo4i partner](#)

Geo4i is pleased to announce that thanks to its partnership with European Space Imaging, we are now able to provide 3D data from Vricon DTM (<http://www.vricon.com/>).

[WorldDEM Now Available Worldwide First truly global elevation dataset completed](#)

October 5, 2016 – Airbus Defence and Space announced that customers can now be served with WorldDEM data for any point on Earth. WorldDEM is a disruptive Digital Elevation Model (DEM), whose accuracy and quality surpass that of any global satellite-based elevation model available today.

[“One Atlas” – Airbus Defence and Space Launches the World’s Freshest Satellite Image Library](#)

Airbus Defence and Space has launched One Atlas, a new satellite image basemap, which covers the earth landmasses with professional grade imagery. Available online 24/7 and refreshed within a 12-month period, One Atlas provides customers with easy access to cost effective, high-quality and homogeneous imagery.

Earth Observation News

[Airbus Defence and Space-built PerúSAT-1 delivers first images](#)

The PerúSAT-1 satellite, designed and built by Airbus Defence and Space, the world’s second largest space company, has delivered its first images after its successful launch on 16 September from Kourou.

[20 years of spatial innovation gives rise to Digital Earth 2.0](#)

[2017 calls for proposals](#)

Space-related R&D

[A Look At "Big Data" In Earth Observations Markets Scrutinized By NSR](#)

Five years ago, when Skybox and Planet announced plans to image the Earth with unprecedented revisits, many observers wondered what data applications would be unlocked by these new platforms.

[After a series of re-orbiting manoeuvres for Jason-2, a dual Jason capability has been established, increasing the data flow for ocean models through enhanced spatial and temporal sampling of the ocean variables.](#)

Friday, 14 October 2016. After the launch of Jason-3 on 17 January 2016, the two satellites flew in a tandem configuration, about 80 seconds or 500km apart from each other. This allowed for a precise comparison and direct cross calibration between the instruments flying on both platforms. During this phase, the instruments aboard Jason-3 were fully calibrated and have demonstrated performances at least equivalent to those of Jason-2. Based on these results, the satellite was deemed ready for operational service.

[Atmospheric Dynamics Mission \(ADM\)- Aeolus Earth Observation Satellite, United Kingdom](#)

Planned to be launched by the end of 2017, the Atmospheric Dynamics Mission (ADM) Aeolus satellite will provide global observations of three-dimensional wind fields, which will help to improve weather forecasting. The satellite will be operated by the European Space Agency (ESA).

[Business in the ever-changing digital globe](#)

(6 October 2016) In an era of profound digital transformation, business leaders and IT experts are convening at ESA's mission control in Darmstadt, Germany, today for the first SAP Digital Leaders' Summit.

[DigitalGlobe to Acquire The Radiant Group,](#)

WESTMINSTER, Colo.—(BUSINESS WIRE)—Oct. 11, 2016— DigitalGlobe, Inc. (NYSE: DGI), the global leader in Earth imagery and information about our changing planet, today announced that it has signed a definitive agreement to acquire privately held The Radiant Group, Inc. (“Radiant”) from Aston Capital for \$140 million in cash.

[DigitalGlobe’s Satellite Imagery for Polio Eradication](#)

(By Rhiannan Price – September 9, 2016)

[Dynamics of human presence on Earth maps by satellite images](#)

The Joint Research Centre of the European Commission presented on 18 October 2016 at the United Nations Conference on Housing and Sustainable Urban Development (Habitat III) a series of numbers extracted from a new global database which tracks human presence on Earth.

[Earth on AWS Call for Proposals](#)

Broadly, the AWS Cloud Credits for Research Program supports researchers who seek to:

[East View Brings Iranian Cartographic Data Online via New Digital Platform](#)

MINNEAPOLIS – East View Geospatial is excited to announce an agreement with the Gitashenasi Geographic and Cartographic Institute to create an online archive of the Iranian mapping agency’s extensive publications.

[EMSA expands use of Radarsat-2 information for maritime applications](#)

(13 July 2016) MacDonald, Dettwiler and Associates (MDA) has signed a four year contract with a ceiling of 31 million euros to provide Radarsat-2 information to the European Maritime Safety Agency (EMSA).

[ESA: Business in the ever-changing digital world](#)

[Esri Launches Global Content Challenge](#)

Smart mapping leader Esri announced it is engaging students all over the world in a new contest called the Global Content Challenge. With the power of Esri content at their disposal, students will tell their own compelling scientific stories using the Esri Story Map Journal app. Entrants will use personal geographic analyses, visualizations, predictive models, and more, to explore a variety of scientific themes.

[exactEarth Announces Small Vessel Tracking Contract with the Government of Ghana](#)

Cambridge, On, Aug. 16, 2016 – exactEarth Ltd. (TSX: XCT), the leading provider of Satellite AIS data services (Joint-venture of Hisdesat and COMDEV) announces that it has been selected by the Fisheries Commission (West Africa Regional Fisheries Programme), an agency of the Ministry of Fisheries and Aquaculture Development (MOFAD) of the Government of Ghana, for the provision of Satellite AIS data services as well as a small vessel tracking solution. The contract value is in a range of \$1.0-\$2.0 million for a 12 month period and will enable Ghana to acquire the technology necessary to monitor its expansive coastlines and deter illegal fishing in its national waters.

[Financing Smallholder Farms with FarmDrive](#)

(13 September 2016) It's an exciting day at Planet—I'm pleased to announce that Planet has struck a deal with the innovative fintech company, FarmDrive. Based in Kenya, FarmDrive parses data from a variety of sources to provide financial services to a traditionally underserved market: smallholder farmers.

[Fine wine app wins top prize at App Camp](#)

An app that uses satellite data to evaluate the quality of wine took home the top prize at this year's Space App Camp at ESA's centre in Frascati, Italy.

[First satellite-based wildlife monitoring tool for airports](#)

Wildlife habitats close to airports pose a serious risk to safety at takeoff and landing. Thanks to ESA, a new service lets airports use satellites to identify and manage these areas.

[GEO Partners with WHO to Support Global Health](#)

A new partnership between the Group on Earth Observations and the World Health Organization seeks to leverage their areas of expertise to promote use of Earth observing technologies in addressing global health challenges.

[GEO-CRADLE PROJECT](#)

Between February and June 2016, Eurisy coordinated an interview based qualitative research as part of the project's mission to set-up a Regional Data Hub uniting the Balkan, Middle-East and North Africa regions.

[Google Cloud offers a quadrillion bytes of Landsat and Sentinel-2 satellite views](#)

(by Alan Boyle on October 4). How do you channel a flood of almost 5 million images into useful applications? Google Cloud is doing it with more than 30 years' worth of satellite imagery from the Landsat and Sentinel-2 missions, for free.

[Government programme awards funding to Rezatec to develop the use of satellite data in evaluating plant health in UK](#)

Harwell, Oxfordshire, 15th September, 2016 Rezatec, leading geospatial data analysts, has recently been awarded Phase II funding for the development of geospatial big data analytics products that can identify and monitor plant health on a large scale. The funding from the Space for Smarter Government Programme (via the UK Space Agency), is the result of a competitive application process through Innovate UK's Small Business Research Initiative (SBRI), following an initial feasibility project (Phase I) to ensure the commercial value of the products and services under development by Rezatec.

[How the EU's Copernicus space programme is starting to pay off](#)

This week's Business Planet come from Rotterdam. The city is buzzing with imaginative entrepreneurs keen to tap the enormous potential Europe's Earth Observation space programme Copernicus offers.

The IEA, based at University of Reading, has been appointed to lead a major project to understand what sort of climate information organisations need to make better decisions. The first step will be to launch a survey in September, across private businesses and public organisations throughout Europe.

[Improving Environmental Debate With Democratized Earth Observation Data](#)

[Landsat and Sentinel-2 data now on Google Cloud](#)

Posted by Alan Boyle on Tuesday, October 4, 2016. Google has [announced the release](#) of Landsat and Sentinel-2 data on the Google Cloud.

[Materials from the H2020 Info Day](#)

Horizon 2020's Societal Challenge "Climate Action, Environment, Resource Efficiency and Raw Materials" Information Day & Brokerage event took place in Brussels on 14 September 2016.

[MDA to deliver advanced space-based synthetic aperture radar capabilities for broad-area maritime surveillance](#)

Vancouver, BC – MacDonald, Dettwiler and Associates Ltd. ("MDA" or the "Company") (TSX: MDA), a global communications and information company, today announced that the Department of National Defence (DND) has exercised an option for a contract announced in June 2016. MDA will provide advanced space-based Synthetic Aperture Radar (SAR) capabilities for the DND Polar Epsilon 2 (PE2) project; a broad-area maritime surveillance system using the Government of Canada's RADARSAT Constellation Mission (RCM). The option is valued at CA\$15 million (including taxes).

[MDA to provide RADARSAT-2 information to Orbital Insight](#)

Richmond, BC – MacDonald, Dettwiler and Associates Ltd. ("MDA" or the "Company") (TSX: MDA), a global communications and information company, today announced that it has signed a contract with Orbital Insight, Inc., a geospatial big data company that provides advanced information solutions obtained by

analyzing millions of satellite images at a time. MDA will provide RADARSAT-2 Synthetic Aperture Radar (SAR) information for integration into Orbital Insight's business intelligence services and products to enhance their analytics. MDA's RADARSAT-2 provides valuable change detection information to enhance pattern-of-life analysis over areas of high activity. In combination with Orbital Insight's data analytics capabilities, the RADARSAT-2 information will be used to monitor a variety of economic and industrial activity around the world.

[New 3D world map – TanDEM-X global elevation model completed](#)

The new three-dimensional map of Earth has been completed. Mountain peaks and valley floors across the globe can now be seen with an accuracy of just one metre. The global elevation model was created as part of the TanDEM-X satellite mission; it offers unprecedented accuracy compared with other global datasets and is based on a uniform database. The approximately 150 million square kilometres of land surface were scanned from space by radar sensors. "TanDEM-X has opened up a whole new chapter in the field of remote sensing. The use of radar technology based on two satellites orbiting in close formation is still unique and was key to the high-precision remapping of Earth. In this way, DLR has demonstrated its pioneering role and satisfied the prerequisites for the next major development step in satellite-based Earth observation – the Tandem-L radar mission," says Pascale Ehrenfreund, Chair of the Executive Board of the German Aerospace Center (Deutsches Zentrum für Luft- und Raumfahrt; DLR).

[New Remote Sensing Satellite For Iran Forthcoming](#)

Russian satellite manufacturers have signed the final agreement for the construction and launch of the National Remote Sensing Satellite for Iran, according to the MEHR News Agency.

[New satellite image database maps the dynamics of human presence on Earth](#)

Built-up areas on the Earth have increased by 2.5 times since 1975. And yet, today 7.3 billion people live and work in only 7.6% of the global land mass. Nine out of the ten most populated urban centres are in Asia, while five out of the ten largest urban centres are in the United States. These are some of the numbers calculated by a new global database which tracks human presence on Earth.

This video explains the challenges faced when managing vast quantities of satellite data, for the benefit of humankind, to address a range of environmental, social and agricultural issues.

[NSR's new Earth Observation \(EO\) Market Report, 8th Edition \(EO8\) report](#)

Starting with data from satellites to value-added services and on to the rapidly expanding EO information and 'big data' analytics segments, NSR's new Earth Observation (EO) Market Report, 8th Edition (EO8) report offers a comprehensive analysis of the fast growth of these markets for each vertical and region.

[Oil Fires Blaze in Iraq's Mosul District](#)

Oil fire smoke billows across Iraq's Mosul District in this dramatic imagery from UrtheCast's Deimos-2 satellite, captured yesterday, Oct. 18.

[Outcome of the ESPI 10th Autumn Conference "Space for Sustainable Development"](#)

The 10th annual Autumn Conference of the European Space Policy Institute was held in ESPI premises from 15th to 16th September. The two-day event brought together professionals from a wide range of sectors to give presentations, present case studies, participate in panel discussions and strengthen their networks in informal talks on the theme of "Space for Sustainable Development".

[Pipeline Integrity Management from Space \(PIMSyS\)](#)

Pipeline operators are responsible for the safe transport of oil and gas through high-pressure transmission pipelines. In the Western world, these transmission pipelines are buried in the public space at a depth of about 1.5 metres. Operators are concerned with monitoring the integrity of their pipelines on a continuous basis, as pipeline failures can cause severe damage to people, infrastructure and the natural and built environment. This article discusses the use of Copernicus Sentinel-1 satellite radar imagery to provide pipeline operators with a continuous source of information for monitoring and managing their assets from space.

The overall objective of this workshop was to explore Research and Innovation (R&I) actions needed for the development of a dynamic Earth observation (EO) market in Europe in relation to the Copernicus and GEO initiatives (Group on Earth Observations).

[Proteus Geo Wins ESA Backing to Advance Bathymetry Data Service](#)

Over the last four years, Proteus Geo has worked in partnership with DHI to provide a vast range of customers with bathymetry data, derived from satellites.

[Rapid Access to Authoritative Maps for Emergency Services Agreed at International Conference](#)

Agreement between EuroGeographics and the European Environment Agency (EEA).

[Registration open for GEO-CRADLE Workshop & Project Meeting in Limassol, Cyprus](#)

The meeting will take place in Limassol, Cyprus , on 16-17 November 2016.

[Rezatec enabling cities to become more resilient to environmental and social changes](#)

Posted by: Philip Briscoe | Posted on Oct 05, 2016.
Rezatec announced the launch process for a new set of geospatial data analytics to improve the resilience of the world's cities to changing environmental, economic and social pressures.

[SatCen and Copernicus - Increased geospatial Support for EU External Action](#)

On the 6th of October 2016, the European Commission entrusted [SatCen](#) with the operations of the Copernicus services in Support to EU External Action (SEA) with the signature of a Delegation Agreement by Lowri EVANS, Director-General DG Internal Market, Industry, Entrepreneurship and SMEs (GROW) and Pascal Legai, SatCen Director.

Eurisy's "Satellites going local" 5th edition – a collection of good practices in preparation

[Significant supply expansion for EO industry](#)

Paris: 163 satellites (>50kg) were launched for civil and commercial Earth observation (excluding meteorology) over 2006-2015, said Euroconsult Managing Director Adam Keith. According to the 9th edition of Euroconsult's report, Satellite-Based Earth Observation: Market Prospects to 2025, which will be released soon these satellites were launched for entities in 35 countries and generated \$18.4 billion in manufacturing market revenues. Most of these satellites were launched by government operators to support policy objectives spanning climate change, sustainable development and industrial support. In addition, EO remains the primary application for emerging space programs; growing funding into these programs is a key driver for overall investment growth. In 2015 civil government investment topped \$10 billion for the first time.

[Superior Precision Agriculture: UrtheCast Elevates High-Tech Farming](#)

With Earth's population growing at an exponential rate, the future of agriculture — in particular precision agriculture — will continue to grow in importance as the world works to support its population.

[Terra Bella & Spaceflight Industries Sign The Big Bird To Launch Small Imaging Satellites](#)

As preparations begin for the launch of Google's Terra Bella's SkySats their launch service company, Spaceflight, signed up with SpaceX's Falcon 9, and already Falcon 9 is 90 percent full even though the launch is set in late 2017.

[The Final Battle To End Polio: A Better Satellite World Perspective](#)

By Robert Bell, Executive Director, SSPI and WTA. In 1988, a meeting of the World Health Assembly set a mind-boggling goal: to eradicate the ancient scourge of polio.

[Training in Earth Observations and Applications Commences in Thailand](#)

The 2016 GOFC-GOLD Data Initiative – Advanced Training in Earth Observations kicked off October 10, 2016 at the Sirindhorn Center for Geo-Informatics (SCGI), Space Krenovation Park (SKP), GISTDA, in Sriracha, Thailand. This training is organized by START, in collaboration with the Thailand Geo-Informatics and Space Technology Development Agency (GISTDA) and the Department of Earth and Environment, Boston University. It is funded by NASA, as part of a 3-year cooperative agreement between NASA and START on Global Observation of Forest Cover and Land Dynamics (GOFC-GOLD).

[Trimble Sells UAS Business to Delair-Tech](#)

Trimble announced that Delair-Tech acquired its Belgium-based Gatewing Unmanned Aircraft System (UAS) engineering and manufacturing business. Delair-Tech intends to grow the acquired business as part of its portfolio. Financial terms were not disclosed. ♦

[UN WORLD DATA FORUM](#)

in Cape Town, South Africa from 16 and 18 January 2017.

[Why hackathons are an effective tool to create valuable applications by using EO data](#)

The first Copernicus open data hackathon is taking place in Austria on the 4th and 5th November 2016 with 7500€ in prizes. We asked the organizers to tell us more about the Copernicus uptake situation in Austria and hackathons.

[WorldCover 2017 Conference.](#)

The event will be hosted in ESA-ESRIN from 14 to 16 March 2017.

[“Internationalisation of European EO companies” workshop](#)

The “Internationalisation of European EO companies” workshop will be held at DG GROW, on 22 November 2016. The event belongs to the “Copernicus User Forum Industry Workshop” series.

On 14 September 2016 in Berlin, the German Aerospace Center (Deutsches Zentrum für Luft- und Raumfahrt; DLR) and the French space agency (Centre national d'études spatiales; CNES) signed a cooperation agreement for the design, construction and operational phases of the Franco-German climate satellite MERLIN in the presence of Brigitte Zypries, Parliamentary State Secretary at the German Federal Ministry for Economic Affairs and Energy (BMWi) and Federal Coordinator of German Aerospace Policy, as well as Thierry Mandon, French Minister of State for Higher Education and Research. The agreement was signed by Gerd Gruppe, DLR Executive Board Member responsible for the DLR Space Administration and Jean-Yves Le Gall, the President of CNES. The small satellite mission MERLIN – Methane Remote Sensing LIDAR Mission – will measure the concentration of methane in the Earth's atmosphere with unprecedented accuracy. The mission will last for three years.

[ECMWF launches new Strategy](#)

ECMWF has launched its new ten-year Strategy, which sets ambitious goals that push the limits of predictability in weather forecasting.

[Estonia signs up to Sentinel agreement](#)

(13 September 2016) ESA and Enterprise Estonia have signed an arrangement that gives one of ESA's newest Member States access to data from the Copernicus Sentinel satellites.

[EUMETSAT and DLR signed a cooperation agreement for the development of the METimage instrument](#)

(Sept 2016) EUMETSAT's Director-General, Alain Ratier, and Dr. Gerd Gruppe, Director of Space Administration at Deutsches Zentrum für Luft- und Raumfahrt (DLR), signed a cooperation agreement for the development of the METimage instrument to be flown on three successive Metop-SG A satellites of the EUMETSAT Polar System Second Generation (EPS-SG) in the 2021-2042 timeframe.

[EUMETSAT and NOAA secure data exchange for Copernicus](#)

EUMETSAT and the US National Oceanic and Atmospheric Administration (NOAA) have signed a Technical Operating Arrangement (TOA) to support the exchange of data related to Copernicus, the Earth Observation Programme of the European Union.

As the result of an agreement signed in late 2015 between the Australian Government and the European Commission, Australian researchers will gain access to the imagery and data generated by the European Union's Copernicus Earth observation programme, delivered by the European Commission with key partners European Space Agency and EUMETSAT. This data will be disseminated via research and education network infrastructure worldwide, initially through GÉANT (the pan-European research and education network) and in Australia by AARNet, in partnership with Geoscience Australia.

[How geospatial technology can help cities plan for a sustainable future](#)

Many urban residents these days will find it hard to imagine a life without mobile apps that help us locate a restaurant, hail a cab, or find a subway station—usually in a matter of seconds. If geospatial technology and data already make our everyday lives this easier, imagine what they can do for our cities: for example, geospatial data on land-use change and built-up land expansion can provide for more responsive urban planning, while information on traffic conditions, road networks, and solid waste sites can help optimize management and enhance the quality of urban living.

[How Satellite Technology Is Helping End Illegal Fishing in Our Oceans](#)

Satellite tracking technology aids analysts to prevent illegal fishing by
By Tony Long The Pew Charitable Trusts

[Iran Signed Deal on Remote Sensing Satellite with Russia](#)

TEHRAN, Oct. 02 (MNA) – ICT minister Mahmoud Vaezi said the final agreement for the construction and launch of the National Remote Sensing Satellite has been signed by the Russian satellite manufacturers.

[Launching New Public-Private Partnership and Announcing Joint Declaration on Leveraging Open Data for Climate Resilience](#)

(©WhiteHouse.gov). Even as the United States and the international community act to curb the carbon pollution that is driving climate change, citizens and communities need to prepare for the current and future

impacts of a changing climate and work with partners around the world to do the same. That is why, over the last seven and a half years, the Obama Administration has worked to advance the development and provision of [data](#), [information](#), [tools](#), and [technical assistance](#) to

support climate preparedness and resilience efforts both domestically and internationally.

[Magnetic oceans and electric Earth](#)

Oceans might not be thought of as magnetic, but they make a tiny contribution to our planet's protective magnetic shield. Remarkably, ESA's Swarm satellites have not only measured this extremely faint field, but have also led to new discoveries about the electrical nature of inner Earth.

[Turkey ready to produce new satellites for Azerbaijan](#)

(7 October 2016, By Nigar Abbasova at [ww.azernews.az](#)) Azerbaijan and Turkey, the two neighboring countries and strategic partners, enjoy opportunities to strengthen their cooperation in the sphere of satellite industry.

[UN-GGIM: Europe Announces Creation of GRF-Europe](#)

Europe is contributing to the UN's Global Geodetic Reference Frame (GGRF) by developing a platform for exchanging information and expertise.

[White House releases \\$50M for smallsats](#)

The United States is thinking big on small satellites. At the White House Frontiers Conference — a national convening to boost innovation — hosted by US President Barack Obama in Pittsburgh this week, \$50 million have been earmarked in federal funds to harness the smallsat revolution.

[World Bank Big Data Innovation Challenge - Rethinking climate resilience through big data solutions.](#)

The WB seek to identify and recognize high potential solutions developed by individuals and organizations in these critical areas of sustainable development. These issues are high priorities in service of the World Bank Group's goals of ending extreme poverty and promoting shared prosperity and are also identified priorities of the [UN Sustainable Development Goals](#).

