

eoSCAN (September 2023)

Corporate News ★ Thanks to contributions from ©Terrawatch Space

- Earth-i, a UK-based EO startup is joining hands with Planet to build environmental monitoring solutions for the UK's Rural Payments Agency.
- EO data marketplace SkyWatch partnered with Satellogic to have the data available on their platform, while another EO data marketplace UP42 partnered with SAR data provider Umbra;
- EO satellite provider SATLANTIS is partnering with Dotphoton, a company specialising in building image compression software;
- EO data platform UP42 is teaming up with Israeli EO satellite operator ImageSat International (ISI) to provide access to 30 cm resolution optical imagery from the ISI's EROS NG satellite constellation;
- Esri is integrating its ArcGIS mapping platform with Microsoft Azure Space to enable access to real-time data access and analysis capabilities;
- Estonian startup KappaZeta, which builds agriculture and forestry solutions based on SAR data has raised €480K
- European Space Imaging (EUSI), a satellite imagery provider is partnering with SAR satellite operator Umbra to offer SAR data to EUSI's customers;
- GHGSat Raising US\$44M underscores GHGSat's leading position in greenhouse gas emissions intelligence and demonstrates strong investor confidence in the company.
- Hyperspectral satellite operator Pixxel is partnering with EO marketplace SkyFi to integrate its hyperspectral data into SkyFi's platform;
- Maxar has reorganised into two separate businesses: Maxar Space Infrastructure and Maxar Intelligence, along with some job cuts
- Satellogic has signed an agreement with Skyloom with plans to integrate Skyloom's optical communications terminal onto Satellogic's satellites which will reduce data downlink latency. Satellogic + SkyWatch announce a new EO partnership.
- Pixxel is partnering with geospatial solutions firm Sanborn to provide hyperspectral data from its satellites for developing applications across agriculture, forestry, mining and other verticals
- Satellogic provided financial results for the first half of 2023, in which it reported \$3.2M as revenues, a 33% year-over-year growth along with plans to redomicile the company in the US, from the British Virgin Islands.
- Smallsat manufacturer Open Cosmos raised \$50M in a Series B round to expand its EO satellite business, from investors including technology consulting firm Accenture.
- SynMax, a geospatial intelligence company focused on the energy and maritime sectors, has acquired Gas Vista which offers an energy trade flow analytics & visualisation platform
- SkyWatch is teaming up with SatelliteVu to enable access to the latter's thermal infrared satellite data on its platform;
- VIDA, a German EO analytics startup raised €3M to provide physical climate risk information for infrastructure-related investments
- Wyvern, a hyperspectral imaging startup, has partnered with space infrastructure firm Loft Orbital, securing capacity on a Loft Orbital satellite with a hyperspectral payload.
- AWS is partnering with the Indian space agency ISRO and its commercial space arm IN-SPACE to support EO-related, cloud-based solutions;
- Data from the Sentinel-1 satellite are being used to analyse how the ground has shifted as a result of the earthquake in Morocco.

- Communication on EU Missions two years on: assessment of progress and way forward
- Critical raw materials act
- Egypt will launch MisrSat-2, a land monitoring satellite, built in partnership with China, later this year
- Indian EO firm SatSure is planning to invest \$35M for the launch of four EO satellites by 2025
- EUMETSAT released preliminary data from the MTG-I1 weather satellite, showing combined data from the imager and the lightning imager;
- UAE-based geospatial solution provider Bayanat is partnering with hyperspectral satellite firm HySpecIQ to enable hyperspectral imaging and analysis capabilities in the country;
- Portuguese EO firm GEOSAT has announced that it will be launching 11 high and very high-resolution satellites in 2025
- Revision of the Energy Performance of Buildings Directive: Fit for 55 package
- Spain announced that it will be partnering with ESA to launch the Atlantic Constellation, an EO satellite constellation of 16 satellites, 8 of which will be developed in Spain and the other 8 in Portugal
- UK-South Africa Collaboration in Space & Environment
- UK Government announced plans to join the Copernicus and Horizon Europe programmes through a bespoke agreement with the EU, putting an end to questions about the future of the world's largest EO programme; UK aspires to 'go beyond' EU Earth observation programme

The Strategic Roadmap developed under the FIREFORUM project reflects the research and innovation strategy, with the EC and Member State funding agencies in mind as the prime audience. Download the pdf version of the road map for the following sectors

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AGRICULTURE	INFRASTRUCTURE	MARINE & MARITIME	RAW MATERIALS	URBAN DEVELOPMENT	WIND ENERGY

- California has unveiled regulations that mandate pollution disclosures, including supply chain greenhouse gas emissions for companies with annual revenues over \$1 billion
- EO solution provider GAF and the ESA have started a project to enable long-term preservation and public accessibility to data from Indian EO satellites, IRS-1C and IRS-1D, providing data from the pre-Sentinel era
- ESA article on how the combined capabilities of Sentinel-5P and Sentinel-2 satellites, automatically discover methane super-emitter plumes.
- Flood risk analytics firm Fathom unveiled FABDEM+, a high-resolution, global, digital elevation model
- Maxar, Copernicus Emergency Management Service and UN Disaster Charter among others activated their open data and mapping programs to support damage assessments in the wake of the earthquake in Morocco.
- Major UK Methane Greenhouse Gas Leak Spotted from Space. Read More
- Saudi Green Initiative: satellite monitoring of forest growth in Saudi Arabia. download the press release
- Spiral Blue's Cobalt platform revolutionises flood risk management and bushfire recovery
- Satellite-based Earth Observation Market Is Expected to Boom
- Satellite data has shown that the sea ice surrounding Antarctica is well below any previously recorded winter level, alarming experts
- Satellogic sign multipath optical comms data transmission agreement
- UK major methane leak spotted from space
- UN's Marine Sand Watch, the first-ever global data platform on sand and other sediment extraction in the marine environment, found that about 6 billion tons of sand is extracted annually, impacting marine life;
- Using GHGSat satellite data, the University of Leeds identified an unusually large methane source emitting a rate of over 200 kg/hr.
- This piece on TerraWatch, which discusses the applications of L-band SAR in the mining sector, through case studies from Israeli startup ASTERRA
- This piece from The Guardian showing how satellite imagery was used to identify and track vessels transporting sanctioned oil around the world

- American Airlines, through a collaboration with Breakthrough Energy and Google, demonstrated a method to reduce aircraft contrails 'using data from weather satellites (but scaling this might not be an easy task)
- Delos Insurance, which offers wildfire insurance products based on EO has raised \$7.3M in a seed extension round;
- EO data distributor SkyFi has unveiled geospatial analytics features on its platform, called SkyFi Insights, as well as the availability of open EO data;
- Ground segment provider KSAT is implementing an integrated satellite tasking, data reception and processing platform for near real-time delivery of ship detection services;
- Location platform MapBox has closed \$280M in a Series E funding round, led by SoftBank to expand its map offerings for the automotive industry
- New Partnership To Bring Transparency To Forest Carbon Projects
- Satellogic Selects Skyloom Optimal Terminals for EO Satellites
- Techstars announced the 12 startups joining its Space Accelerator, including EO startups Esper, Little Place Labs and PierSight Space
- These 25 Companies Own Most of the Satellites in Space
- Weather intelligence firm Tomorrow.io is expanding its recent Series E funding round by \$22M (to the \$87M raised in June), including from strategic investors such as the UAE's Strategic Development Fund

- Ball Aerospace was awarded a contract worth \$487M to deliver a hyperspectral infrared sounder for NOAA's GeoXO satellite constellation;
- Greenhouse monitoring EO firm GHGSat closed a Series C1 funding round of US\$44M, which includes strategic investors such as the Japan Energy Fund and the Government of Québec;
- SpaceChain, a Singapore-based startup that has integrated blockchain nodes into satellites, unveiled an AI-based platform called I-Sat, an interactive tool to answer questions with Earth observation data;
- SAR satellite company Icyce was selected by the Government of Australia to supply flood and bushfire hazard data used for disaster response;
- Spire was selected by Estuaire, an aviation data analytics startup to provide satellite and terrestrial ADS-B data;
- Wildfire monitoring EO startup OroraTech, won a contract from the Forestry Corporation of New South Wales, essentially an extension of their current partnership to improve wildfire management in Australia;
- Weather forecasting startup Salient Predictions was awarded a grant from NOAA to advance their AI-driven water availability forecasting system, capable of predictions up to 52 weeks ahead.

- [Earth Observation Satellite Market 2023-2031 Market Insight](#)
 - [GHGsat Access](#) it today, and see our monitoring activity for Q2 2023
 - The [State of the Climate Report](#) a peer-reviewed, international annual review of the world's climate from more than 570 scientists in over 60 countries, was released which showed that greenhouse gas concentrations, global sea level and ocean heat reached record highs in 2022.
 - Planet [reported](#) revenues of \$53.8M for Q2 2023, with major contracts from institutions such as the UK Rural Payments Agency and the US Space Force;
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- [Geospatial World Forum 2024](#) shall host a two-day program on [GEOSPATIAL FOR CLIMATE: ACCELERATING THE TRANSITION TO A SUSTAINABLE GREEN ECONOMY](#).
 - Geospatial Information: Accelerating Implementation of the SDGs (SDG Action Weekend, Side Event)
 - [GeoBuiZ Summit Europe](#)
 - ESA Open Days 2023: connecting space enthusiasts across Europe
 - ©TerraWatch Space [check out](#) the list of all EO-related events, conferences and workshops remaining in 2023 from around the world
 - The research road to net-zero industry

List of capdev meetings at CEOS

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