

**WE
CONNECT
SPACE
AND
EARTH**

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As the leading provider of Ground Network Services and Earth Observation Services, **we know what it takes to operate and deliver fast and reliable services – every day.**

Our extensive network of more than 200 antennas across the globe is constantly expanding. KSAT is positioned to support any mission from LEO to the Moon.

KSAT also delivers Earth Observation (EO) services derived from a large portfolio of satellites, including both Synthetic Aperture Radar (SAR) and high-resolution optical imagery.



Ground Network Services

From LEOP to Lunar and beyond

– the KSAT Global Ground Station Network provides access to your spacecraft. Anywhere, anytime.



KSATmax

KSAT offers exceptional reliability tailored to meet your data acquisition and TT&C requirements.



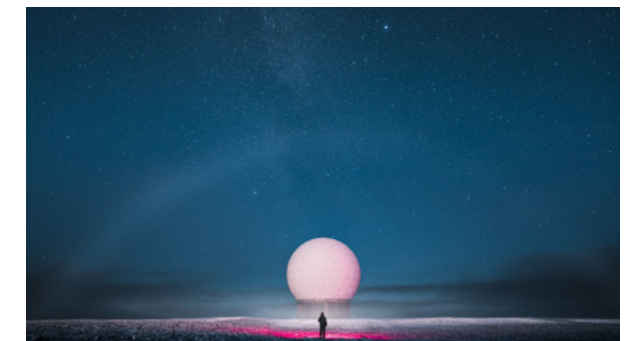
KSATlite

A reliable and fully automated service that connects Space and Earth using the most innovative and costefficient solutions.



KSAT Launch & Leap

KSAT delivers high reliability communications for launch vehicles and satellites during critical early mission operations.



KSAT Hosted

Infrastructure as a Service (IaaS) solutions – designing, deploying and operating satellite Ground Networks.



KSAT Lunar

Ground stations network services for every stage of your lunar mission, from LEOP to surface operations.



Satellite Operation

By combining Satellite Services with our renowned Ground Station services, it's your one-stop solution for all ground operations.

KSAT Ground Network

With our uniquely robust and capable network, KSAT is perfectly positioned to provide support for any missions in all orbits, from LEO to the Moon.

Our network currently consists of more than 200 antennas in 25 select locations and is continuously being developed to meet new customer demand. We are always adding more capacity, more antennas, and new sites.

We pride ourselves on providing high-value services to customers leveraging our outstanding heritage, resilient capabilities, and unique locations. The KSAT Global Ground Station Network sites have been carefully selected to provide an optimized connectivity for satellites in polar and inclined orbits.

Delivering the best global coverage to the world's satellite operators

200
antennas

25
sites

52.000
Passes per month

KSAT pole-to-pole network



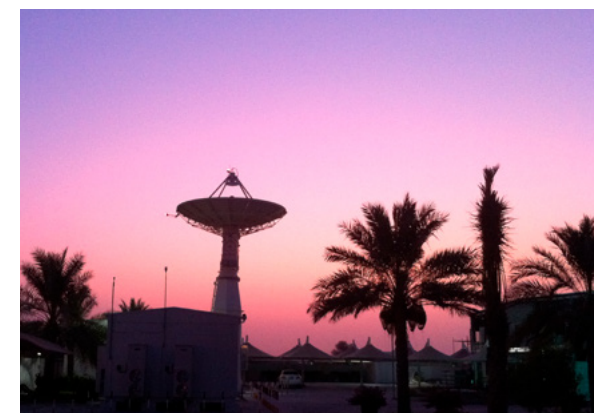
Svalbard Ground Station

The Svalbard Ground Station is recognized as the best-located and largest polar ground station in the world. Its unique location at 78° North – almost at the North Pole – ensures complete coverage that provides access to every orbit for spacecrafts operating in sun-synchronous orbits.



Troll/Antarctica Ground Station

Located at 72° South, the only commercial ground station in Antarctica, provides access to almost all orbits from the southern hemisphere. The Svalbard Ground Station combined with the Troll/Antarctica Ground Station will provide connectivity twice per orbit for most Polar Orbiting satellites.



Global ground stations

Providing unique Polar coverage is an important part of our heritage and expertise, still the current completeness of the KSAT global network, with all our carefully selected sites, is the true differentiator. The network has been developed over time and in close cooperation with the industry to meet our customers growing and changing needs. The carefully selected locations ensure we can meet all satellite operators' needs for Low inclined and Mid inclined orbits.



TODAY'S SUPPORTED FREQUENCIES INCLUDE:

- S-band downlink/uplink
- X-band downlink
- Ka-band downlink
- UHF downlink/uplink

We make it easy

KSATlite is the leading Global Ground Network for smallsats and big constellations.

The flexible software-defined ground system, allows KSAT to support all the major standards in satellite and launch vehicle communications.

ksat.no/lite

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Our service is developed for large constellation management through easy scheduling and automated operations. With modern RESTful based API's and M2M scheduling, you will get an immediate reply and confirmation of your booked passes.

All you need to focus on is tasking your satellite – we take care of the rest!

Our network is fully operational and is already contributing to the success of existing SmallSat constellations. You can expect quick integration, testing and mission readiness. Getting started with us is streamlined, allowing access to all KSATlite resources through a standardised M2M interface.

Our interactive user portal provides the necessary information, and our KSATlite team is always ready to help you through any questions you might have.



— your enjoyable ride to orbit

Launch is one of the most critical milestones in a satellite mission.

Supporting launch vehicles and satellites in this critical phase is an art brought to perfection by KSAT.

From minutes after lift-off through separation from the launch vehicle, KSAT provides TT&C communications from our global ground station network. KSAT supports launch and LEOP to any orbit. By combining our unique polar ground stations with an extensive set of strategically located mid-latitude ground stations, we provide a communications solution to fit every launch trajectory.

Launch is a complex operation where an experienced ground partner significantly reduces the chance of failure. KSAT is well qualified and highly experienced in mission critical operations with an unmatched record of success.

We have various LEOP packages available for your needs; big or small, hours or days. Our global network of antennas has the capacity to support LEOP for multiple simultaneous missions and rideshares.

ksat.no/launch

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LAUNCH SUPPORT

Reliable and frequent communication during LEOP is essential for safety and success of a mission. Robust and resilient ground network provides confidence for critical operations.

The KSAT spirit is all about exploring new ways to create value for our customers, **seeking different solutions and utilizing new technologies in an operationally challenging environment.**



We have a strong focus on bringing **technology developments to market**, and being early adopters of new technologies to provide improved solutions to our customers. Testing new technologies at our ground stations in partnership with key technology providers and customers is essential to success.

We have implemented operational Ka-band support and are investing in innovative optical communication for a Hybrid RF/Optical network solution. We are exploring technologies that will impact the future satellite operations such as phased array and satellite relay systems for the benefit of the global space community, from LEO to Lunar and beyond.

Cloud integration

We enable ground station integration with any public cloud platform provider and offer edge computing solutions at remote sites. This is key to reducing cost and processing times for high-priority data applications. Being a major player in the EO satellite imagery/data market, we are in a unique position to impact and implement new cloud processing solutions which further improve service offerings, latencies and service models.

Our Global Ground Station Network



Earth Observation Services

We have specialized in using satellite data in operational monitoring services to provide information and decision support.



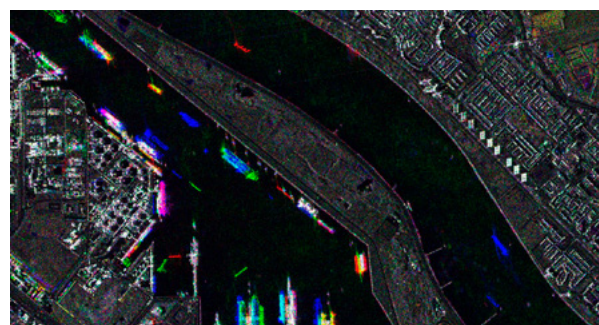
Environmental Monitoring

Oil Spill Detection | Fisheries
Greenhouse Gas | Algae



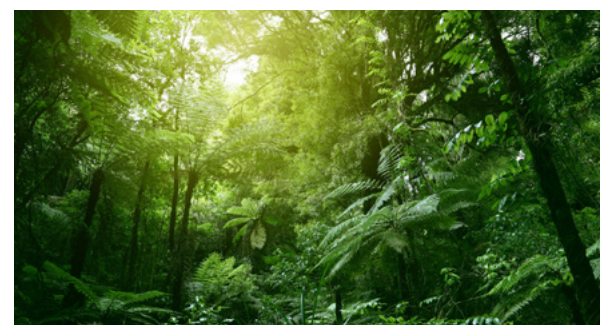
Satellite Imagery & Processing

Data Processing | Cloud Platforms
Rapid Tasking | SAR & Optical



Maritime Surveillance & Security

Vessel Detection | Ice Monitoring
Oil Spill Detection



Forestry & Land Monitoring

Land Mapping | Forestry, deforestation

Having invested heavily in people and infrastructure over many years, our customers benefit from the world's fastest available acquisition and processing chain, Near Real-Time services, such as oil spill and vessel detection, and rapid data delivery.

You can rely on KSATs expertise to be available anytime through the unique 24/7 manned operations-center for analysis and emergency support.



Your One-Stop Shop for Multi-Mission Satellite Imagery.

The Order Desk is a team of experts in all aspects of satellite acquisition planning and ordering and as emergency support.



KSAT has access to the single largest portfolio of SAR and optical satellites. Operated as a virtual constellation, it enables us to offer optimal customer solutions.



Perfectly positioned for fast access to satellite data.

By leveraging our extensive global ground network, KSAT offers a unique end-to-end solution

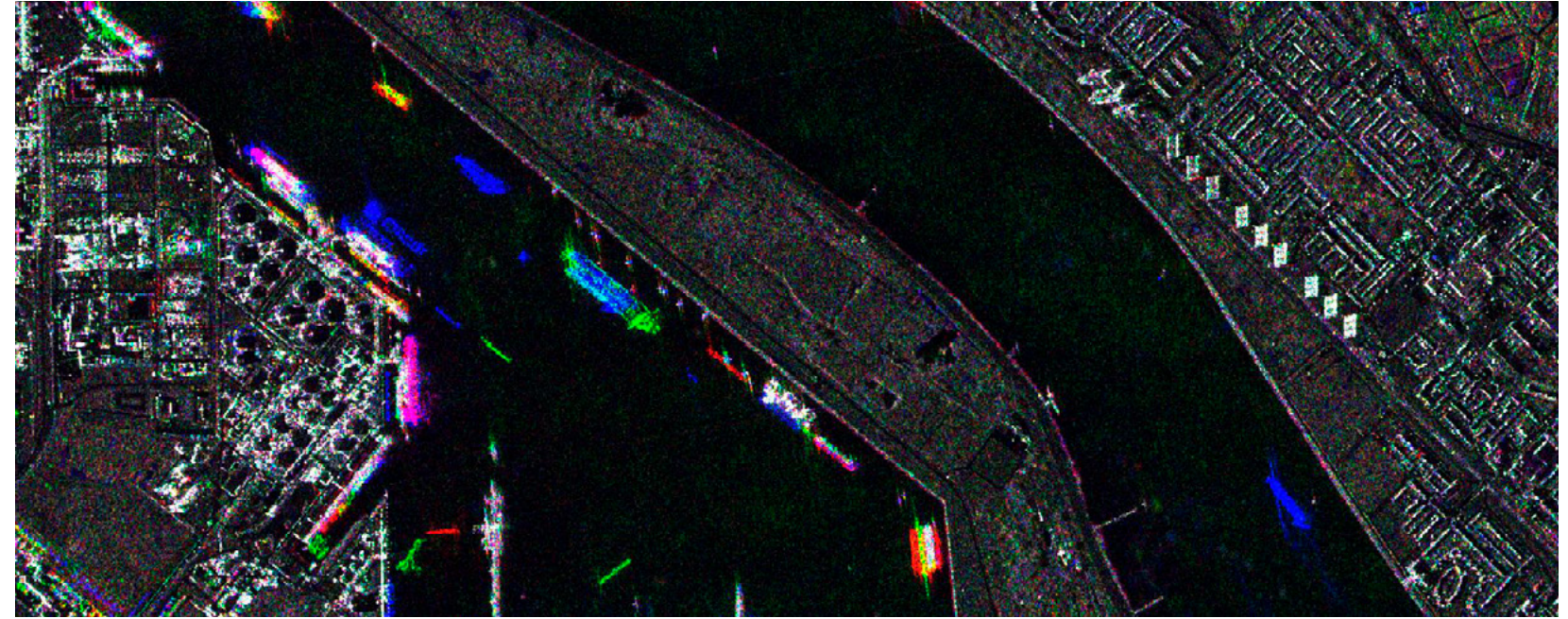


Maritime Monitoring

We provide relevant, timely and targeted information about pollution, ice movements and vessels by using an extensive combination of commercial satellites.

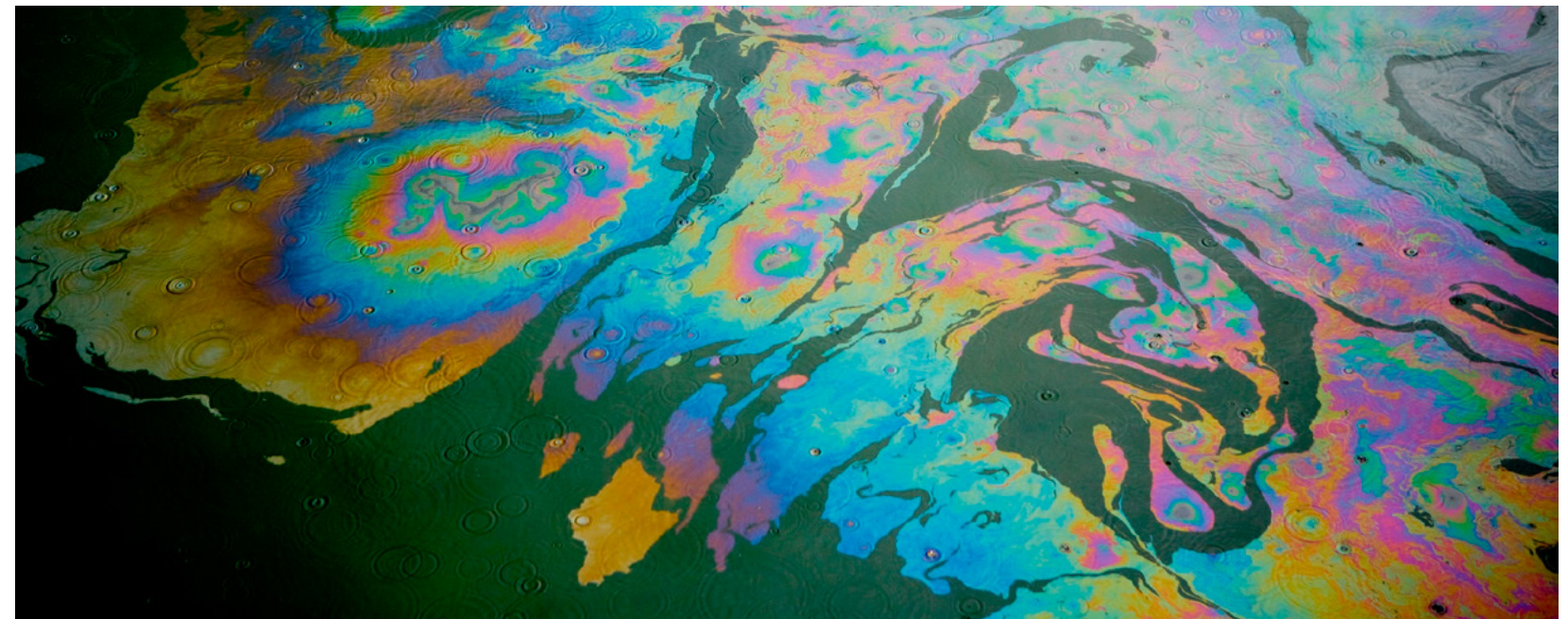
VESSEL DETECTION

Fighting Global Maritime Security Challenges through satellite derived insights. The KSAT Vessel Detection Service is designed to find ships and boats engaged in illegal activity, harming the environment, and making the seas unsafe. KSAT can draw upon all operationally capable satellites allowing for rapid decision-making cycles so our customers can act on suspicious behaviours and quickly target scarce law-enforcement resources.



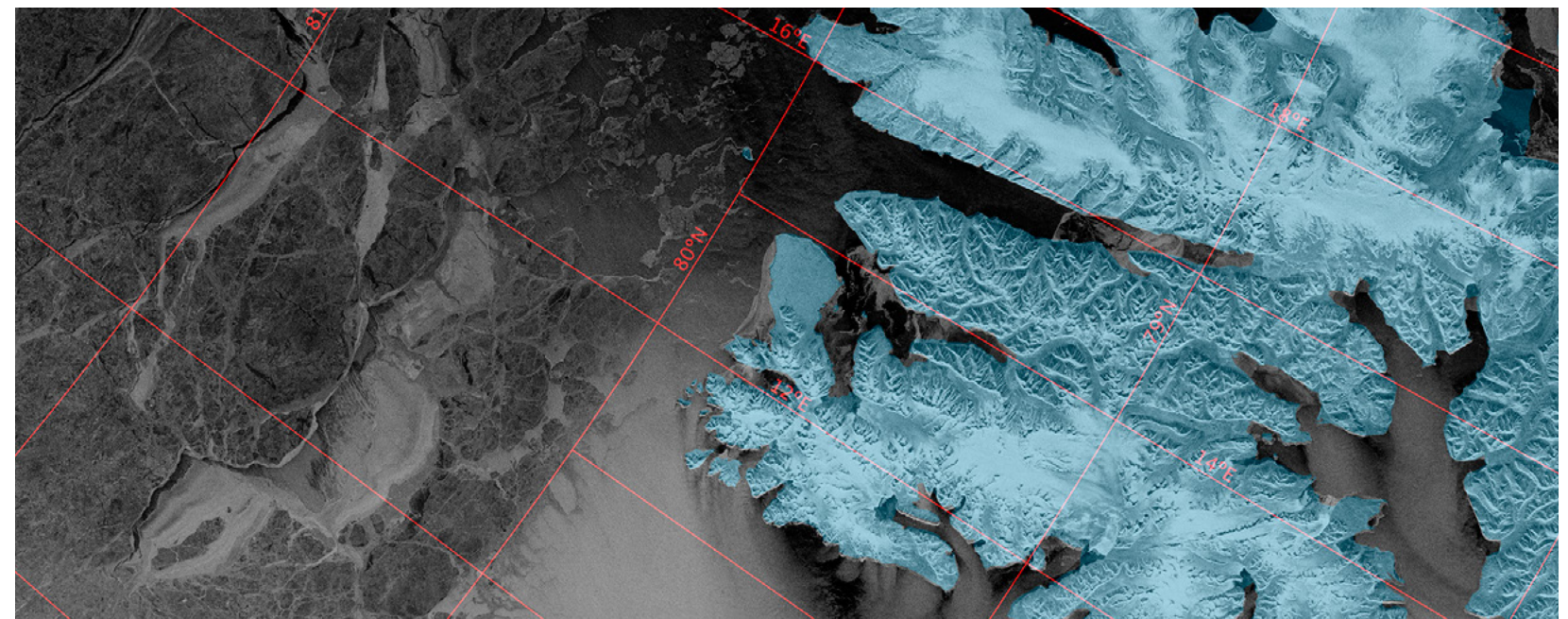
OIL SPILL

KSAT is your invaluable partner in oil spill monitoring. With 25+ years of experience we deliver fully analysed oil spill detection results globally every day. Detecting pollution as early as possible, reducing both clean-up cost and environmental impact, is the primary objective of the service. Whether the slicks originate from vessels, installations, or natural seeps, satellite monitoring is the best available tool for detecting oil slicks on the sea surface, in terms of both cost and operational effect.



ICE DETECTION

Monitoring sea-ice from space. Using KSAT, entities operating in the Arctic, get access to up-to-date satellite information from radar satellites for risk analysis and decision-making support, increasing operational efficiency and facilitating safe operations. KSAT offers sea ice monitoring and iceberg detection and classification services based on machine learning techniques. It provides rapid access to actionable information that can increase safety and reduce risk for vessels navigating in or near the ice.



KSAT provides high resolution satellite imagery to inform action on **climate change, forest management and sustainable development.**

In 2020 the **Norwegian International Climate and Forest Initiative (NICFI)** awarded KSAT and its partners Planet and Airbus with a multi-year contract to provide an unprecedented volume of satellite data free of charge for anyone wishing to use it to help stop global deforestation, conserve biodiversity and facilitate sustainable development.

The primary objective of the NICFI program is to reduce and reverse loss of tropical forests. The program is designed to be as broad as possible to ensure it is useful for as many groups as possible. The data is available for use by any commercial and non-profit organizations as long as the purpose is in line with the initiative's goals and not for financial gain. Under the program datasets are available for a vast continuous area of 45 million square kilometers of tropical forest covering 64 countries.

ksat.no/forest-monitoring

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DID YOU KNOW?

Under the program datasets are available for a vast continuous area of 45 million square kilometers of tropical forest.



Corporate Social Responsibility to us is about creating business opportunities ensuring minimal impact on the environment while giving back to our community. We emphasize quality, security and compliance in all aspects of our operations.

As well as focusing on CSR in the supplier chain, KSAT is committed to use our resources and competence to make a positive difference for the environment and the community where we live and operate.

Quality

Pride



Responsibility

Well-being



Through monitoring the environment

KSAT contributes to securing a sustainable ecosystem for life on land and at sea.

We are committed to implement the UN Sustainable Development Goals and Principles. The Goals shall reflect KSAT as a responsible company, a respectful workplace with focus on human rights, corporate social responsibility, protection of the environment and technological innovation. KSAT is continuously working to provide innovative and efficient end-to-end services. Through building resilient infrastructure, the KSAT Global Ground Network deliver data and global satellite communication services in a reliable manner.



Achilles Certification: KSAT provides services to the oil industry, hereof all phases in the life cycle of a field. KSAT is therefore qualified within the Achilles Joint Qualification System for suppliers to the Oil Industry.



ISO 9001:2015 Certification: KSAT is a service company where quality in the deliveries are extremely important. KSAT has operated a Quality Management System (QMS) certified according to the ISO 9001 standard since 2003.

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