



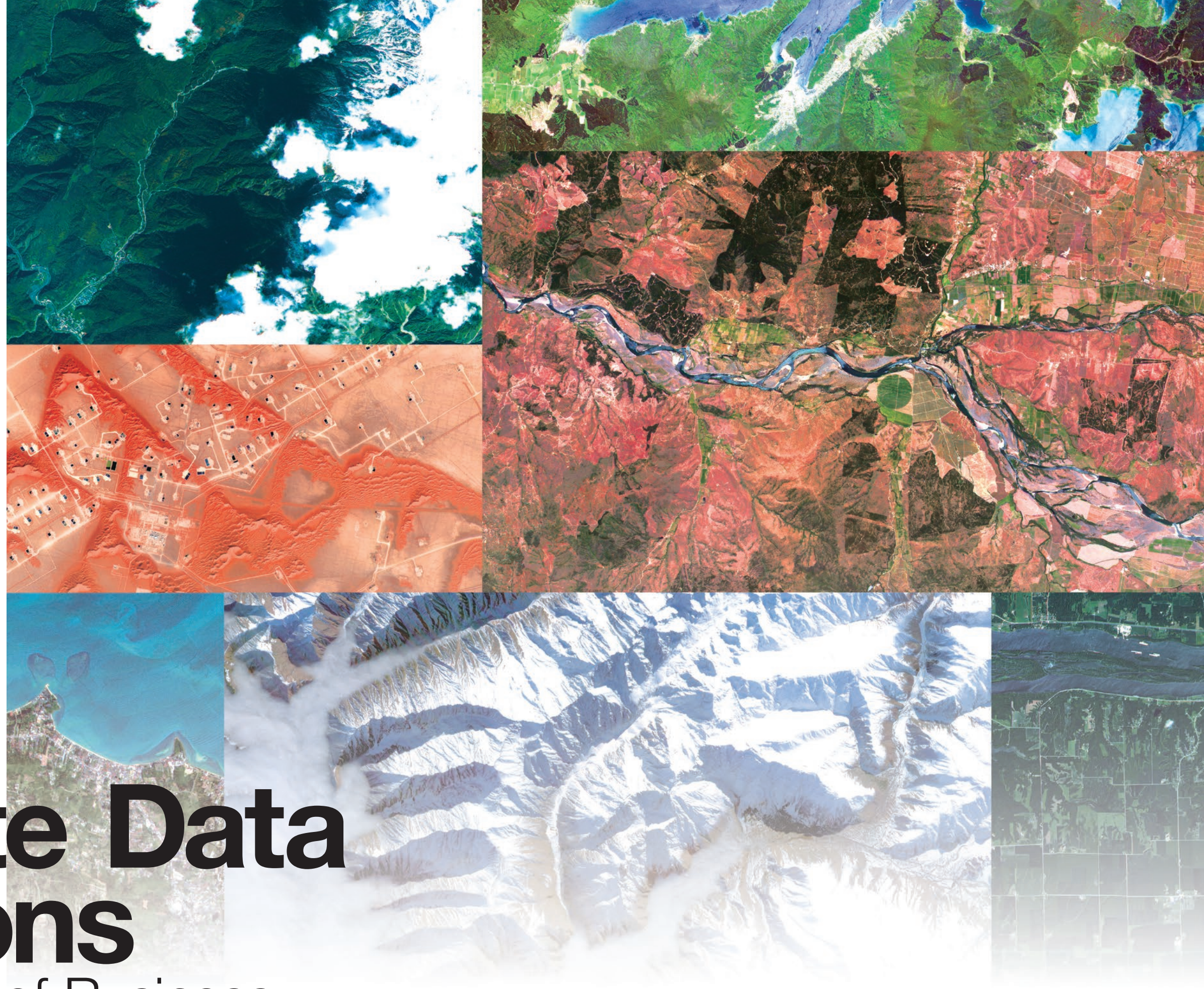
Earth Observation Platform

AxelGlobe

Service Catalog



AXELSPACE



Satellite Data Solutions

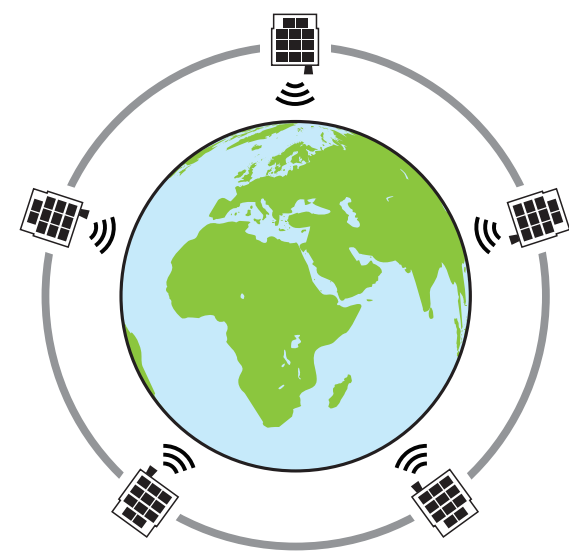
for the Future of Business

What is AxelGlobe?

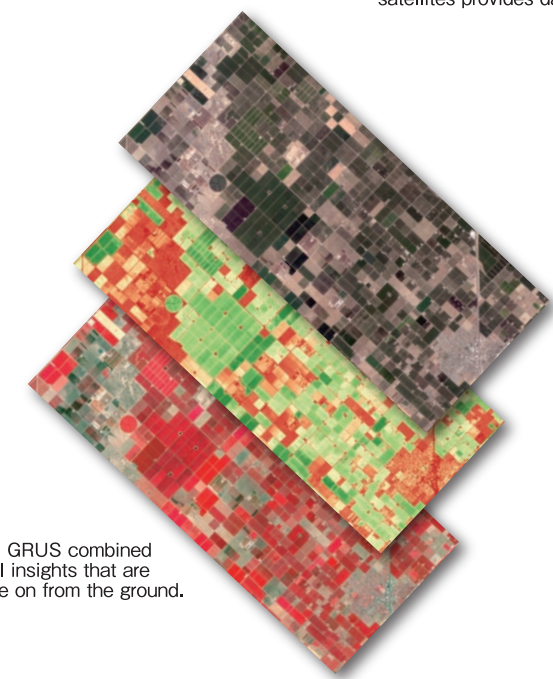
Business insights from discretionary observation

AxelGlobe contributes to solving business problems and creating new value and markets in various industrial sectors using observation data from our satellite constellations.

Users can not only use archived data taken in the past, but task areas to be observed, frequency, etc. In addition to being able to observe any location on Earth, AI analysis can be used to visualize qualitative and quantitative changes that are difficult to grasp from the ground. Intuitive insights help businesses make quicker decisions and improve efficiency.



A constellation made up of five GRUS satellites provides data quickly.



Multi-band sensors on GRUS combined with AI analysis reveal insights that are difficult to get a handle on from the ground.



Satellite Data: The Game-Changer for Business

I’ve seen how our satellite data transforms businesses, offering insights that drive real-time decisions—whether optimizing crop yields, monitoring critical infrastructure, or tracking environmental changes. The true power of satellite data lies not just in observing our world, but in reshaping how industries operate and innovate globally.



GRUS Earth observation satellite

GRUS is the 100 kg class microsatellite for AxelGlobe. Equipped with two telescopes, it has a wide observation range of 55 km with a resolution of 2.5 m. Panchromatic, RGB, red-edge and near-infrared bands allow the visualization of various information, such as crop conditions and the extent of flooding caused by disasters.

GRUS-1 Main Specifications

Number of satellites	5	
Orbital altitude	585 km, Sun-synchronous sub-recurrent orbit	
Equator passage time	10:40 - 11:00 (local time)	
Spectral band	Name	Wavelength range
	Panchromatic	450 - 900 nm
	Blue	450 - 505 nm
	Green	515 - 585 nm
	Red	620 - 685 nm
	Red Edge	705 - 745 nm
	Near Infrared	770 - 900 nm
Ground resolution	Panchromatic : 2.5 m (at nadir)	
	Multispectral : 5.0 m (at nadir)	
Swath	55 km (at nadir)	
Longest collection length	1,000 km	
Sensor bit depth	12-bit	



Empowering Solutions: Unlocking Possibilities for Our Customers

At AxelGlobe, we manage everything in-house, allowing us to move, learn, and adapt quickly. The synergy between AxelGlobe and AxelLiner greatly enhances our ability to solve our customers’ challenges. This enables us to rapidly deliver data and provide innovative solutions that consistently exceed expectations.

What is AxelGlobe?

Use cases

AxelGlobe service is offered in more than 30 countries through more than 70 partners and is used to improve efficiency and solve problems in various business areas.

In the example for agriculture, the activity of vegetation can be easily determined by calculating the normalized difference vegetation index (NDVI) from images taken by GRUS.

Satellites are also being utilized in the field of disaster monitoring. In the event of a disaster, it is very important to quickly assess the situation, however physical access to the area is often dangerous or difficult. The use of satellites, which can quickly observe large areas without geographical constraints, contributes to solving these problems.

Assessing the flood damage

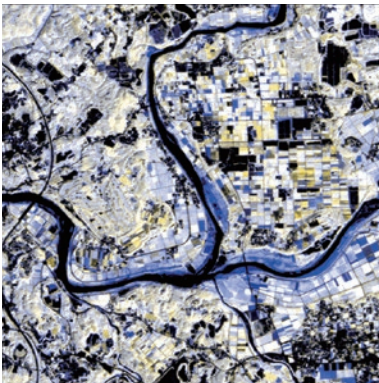
Image before the disaster



Image after the disaster



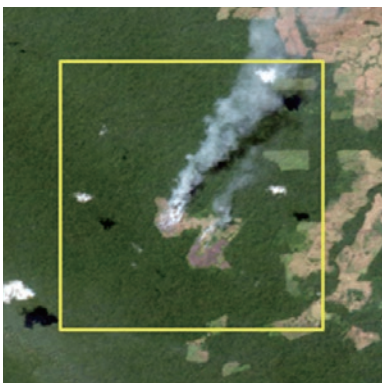
Visualization of inundated areas



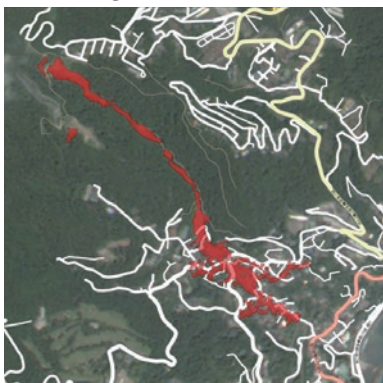
Blue areas indicate potential inundation

Various fields of application

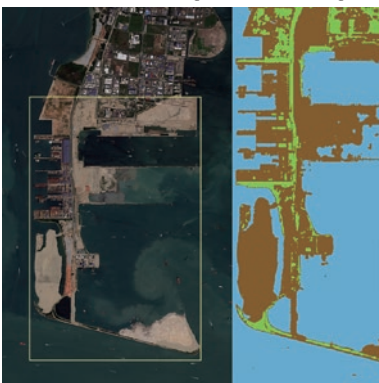
Abnormal detection



Assessing the disaster situation



Periodic monitoring of remote regions



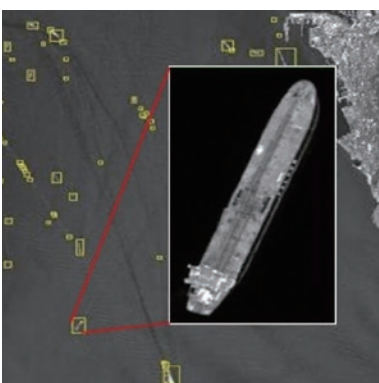
Vegetation management



Land management

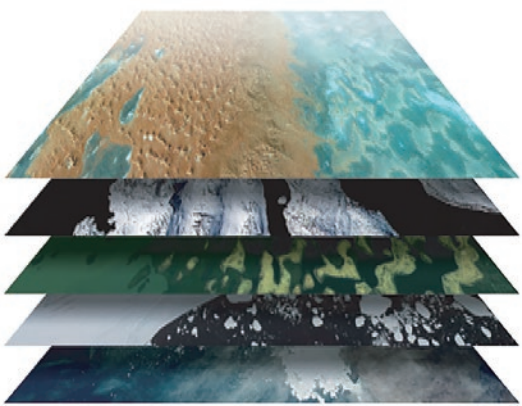


Maritime Surveillance



Advantages of AxelGlobe

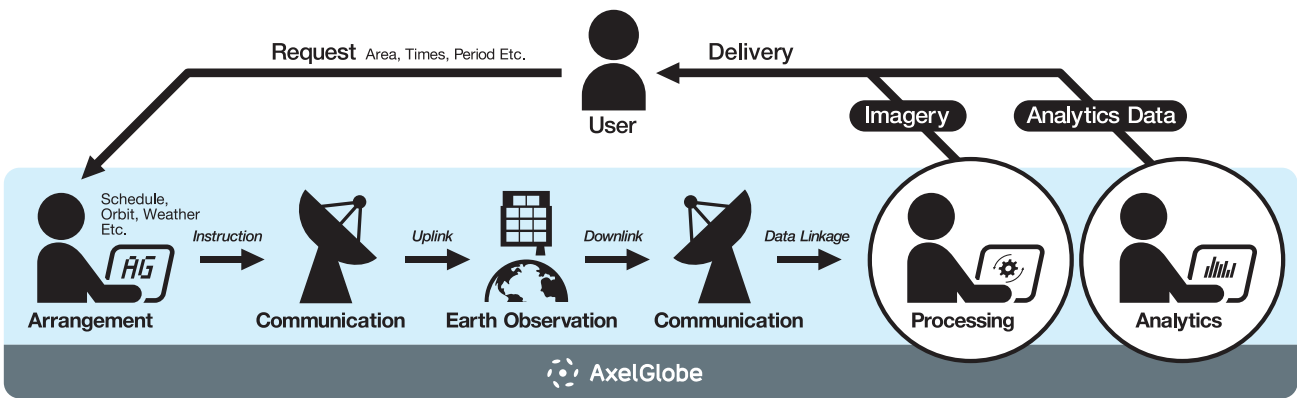
1 Flexible Solutions, Proven Results



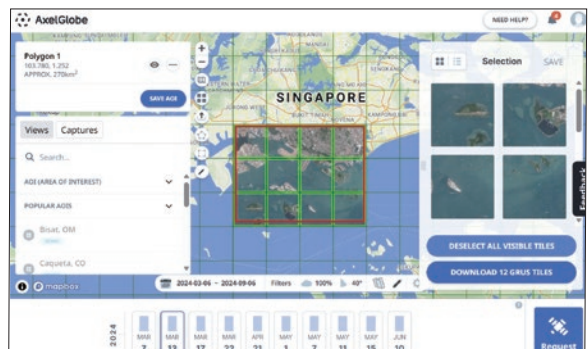
One of the major features of AxelGlobe is its flexibility. We provide data from observations tailored to your needs, including wide-area observations, regular monitoring, and detection of changes and abnormalities, for any location on Earth. In addition, the knowledge we have cultivated through the development and operation of satellites provides value that goes beyond simply providing satellite data, such as enabling a wider range of satellite applications and customer's service development.

2 Swift observation and data provision

Thanks to seamless coordination with the satellite constellation, we can provide observations within 3 hours of receiving a request at the earliest.



3 Effortless Control, All Online



All operations such as referencing, searching, narrowing down and requesting downloads of satellite data can be carried out easily on the web platform.

Please try out the AxelGlobe web platform!

Your free account gives you access to a limited set of our GRUS satellite imagery.

AxelGlobe 2.0 for free:
<https://www.axelglobe.com/en>



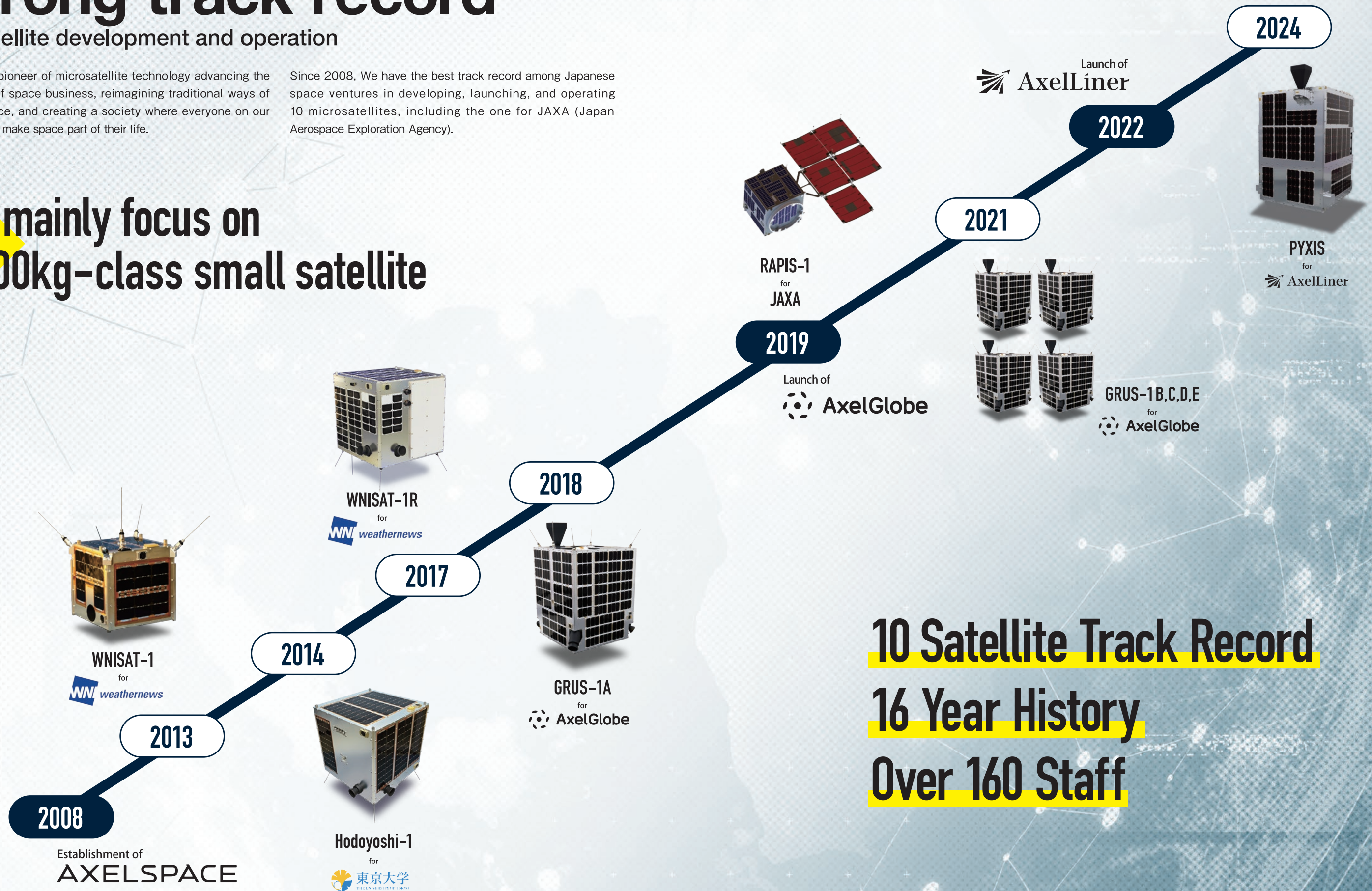
Axelspace's strong track record

in satellite development and operation

We are a pioneer of microsatellite technology advancing the frontiers of space business, reimagining traditional ways of using space, and creating a society where everyone on our planet can make space part of their life.

Since 2008, We have the best track record among Japanese space ventures in developing, launching, and operating 10 microsatellites, including the one for JAXA (Japan Aerospace Exploration Agency).

We mainly focus on
100kg-class small satellite



10 Satellite Track Record
16 Year History
Over 160 Staff

AXELSPACE

Axelspace Solutions



AxelLiner

Satellite Project as a Service

AxelLiner Laboratory

In-Orbit Demonstration and Validation
for Component and Payload Manufacturers

AxelLiner Professional

100kg-class Microsatellite Manufacture
With Mass Production Capability



AxelGlobe

Earth Observation Platform

Satellite Imagery
Providing

Satellite Tasking
Service

Solution with
AI Analytics

Solution
Development

Business Content

Solutions based on microsatellite technology.
Design and production of microsatellites and related components,
Launch arrangements and operational support,
Business related to microsatellite data

AXELSPACE

Axelspace Corporation

Establishment / August 8, 2008
President and CEO / Yuya Nakamura

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