



Corporate brochure



INNOVATIVE SOLUTIONS IN SPACE

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ABOUT US

OUR MISSION

It is our mission to provide cost-effective space systems and turn-key missions by using CubeSats and small satellites. ISIS aims to establish itself as the leading industrial player in this field, with a de-facto nanosatellite factory to serve the growing needs for rapid turnaround, cost-effective solutions. ISIS is committed to innovation and will continue to challenge any status quo in the space sector. We believe that providing open communication and a team that is pro-active and empowered are essential to our success. We are committed to excellence in our technical products and in serving our customers.



ISIS was established	ISIS first CubeSat product on the market	Successful launch of Delfi-C3	ISIS launches CubeSatShop, launch, and data services	Established cleanroom and ground station	ISIS grows to 25 FTE	ISIS keeps growing and delivering products	First fully owned satellite for ship tracking	ISIS launches 22 satellites and builds 2 CubeSats in 6 months	Quadpack sees record sales	ISIS receives the spacecraft operating license	ISIS launches 101 CubeSats on a single launch	ISIS-built NCLE payload is launched to the dark side of the moon
2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018

WHO WE ARE

FOCUS & CAPABILITIES

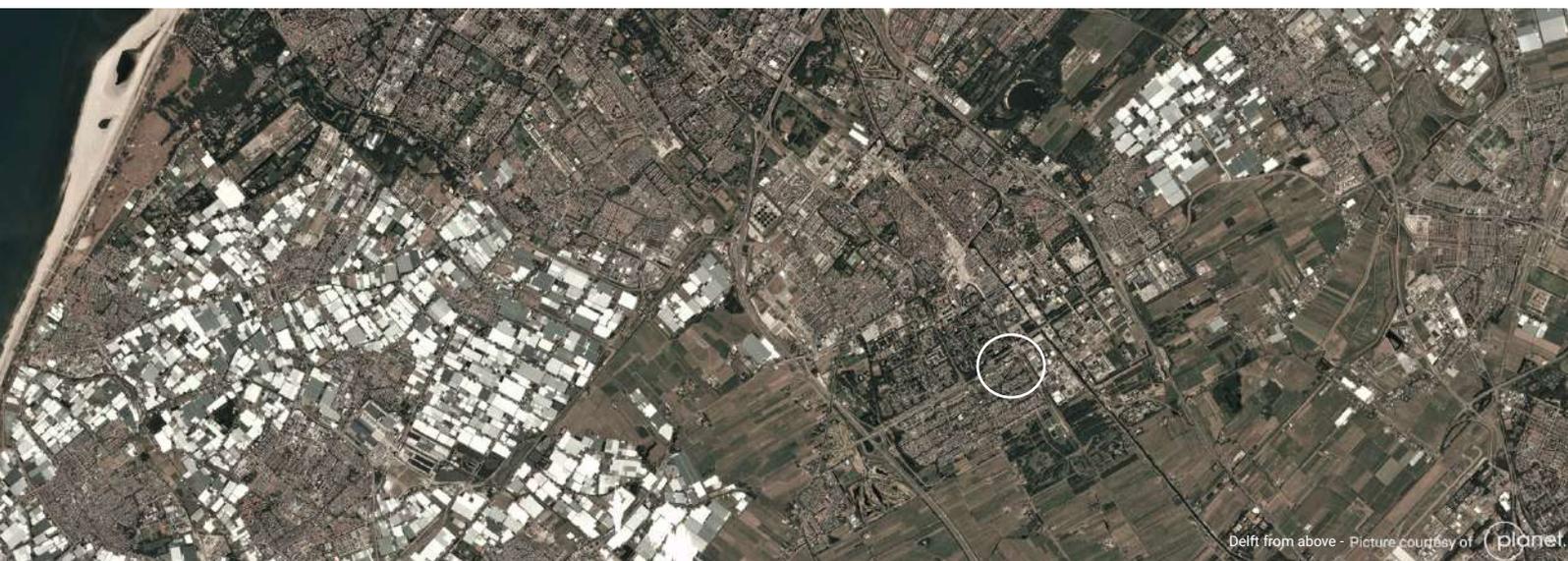
WHAT WE DO

Founded in 2006, ISIS operates globally and serves customers worldwide in accomplishing their space missions and applications. ISIS specializes in realizing innovative turn-key small satellite missions including launch and operations for in-orbit delivery. ISIS designs and delivers small satellite platforms, for single missions and constellations, either standardized or optimized in performance and size tailored to the mission needs. In addition to that, the company supports space capability building through training programs, knowledge transfer as well as component sales.

ISIS can offer the right solution for every customer, from subsystem to full mission and constellation building, through its unique and proven approach of full vertical integration which combines design, development, production, testing, launch services, and satellite operations into a single organization.

CORE COMPETENCIES

- Multidisciplinary team
- Space Systems engineering
- Miniaturized systems
- Deployable systems and mechanisms
- End-to-end space systems capability



• Our main office is in Delft, The Netherlands, while we have an overseas office in Somerset West, South Africa

• Multidisciplinary team of over 90 highly skilled employees with more than 25 nationalities

CAPABILITIES

TURN-KEY CUBESAT MISSIONS

VERTICALLY INTEGRATED COMPANY

ISIS has been set up as a vertically integrated company with a strong focus on systems engineering in order to be able to support our customers during satellite missions throughout the lifecycle. The company is active in research projects and has its own product development activities and product lines across every major space subsystem category. Using these products as building blocks, ISIS is able to offer complete satellite solutions including launch services, ground segment and operations.

INTEGRATED SMALL SATELLITE FACILITIES

The company combines its team with integrated facilities for small satellite missions including

development labs, workshops, assembly labs, an integration cleanroom, dedicated environmental testing facilities and a satellite control room.

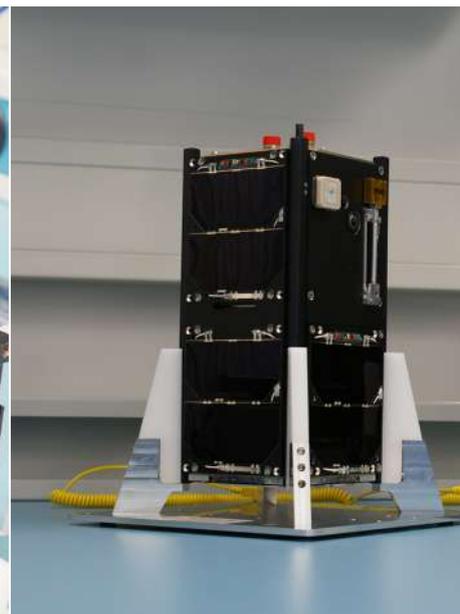
MULTIDISCIPLINARY TEAM

ISIS team is able to support diverse projects with:

- Space Systems Engineering and Mission Analysis
- Radiofrequency Engineering
- Electronics Engineering
- Mechanical and Thermal Engineering
- Software Engineering
- Attitude and Orbit Control Engineering
- Payload Integration Expertise
- MAIV Expertise
- Satellite Launch Expertise



Full life-cycle support for small satellite missions



Integrated, multidisciplinary design and development teams

TRACK RECORD

271



Satellites launched

38



Ground stations delivered

10+



Satellites operated from our control room

30+



Missions & platforms

SATELLITE MISSIONS

ISIS provides turn-key space solutions for both governmental and commercial customers around the globe. Leveraging our vertically integrated organization we are able to deliver timely solutions tailored to our customer needs. As a rule, we are able to deliver small satellites ready for launch in 6 to 18 months.

PAYLOAD DEVELOPMENT AND INTEGRATION

ISIS can develop the intended payload for the spacecraft using its own payload development team or by teaming up with specialized partners. Alternatively, we can assist our customers in placing their own miniaturized payloads into our spacecraft.

LAUNCH

Since 2007, ISIS has been carrying out numerous successful launch campaigns for small satellites through its launch services subsidiary Innovative Space Logistics (ISL) and it is one of the leading players in the small satellite launch industry.

COMMISSIONING AND OPERATIONS SUPPORT

ISIS often provides a hybrid solution with respect to satellite operations as part of its satellite solutions. Our own satellite operations engineers are in charge of the spacecraft during the first period in orbit and take care of commissioning the spacecraft. Once it is ready for performing its main mission, control is often handed over to the customer.



- Satellite solutions in the range of 1kg to 30kg



- We can support multiple satellites in parallel with our multi-mission operations center

PRODUCTS AND PLATFORMS

THE BUILDING BLOCKS OF YOUR MISSION

PRODUCT PORTFOLIO

In the past decade, ISIS has built up a broad product and subsystem portfolio for CubeSats and nanosatellites. ISIS has more than 20 different product lines covering small satellite subsystems, ground support equipment, satellite deployers and ground stations. ISIS satellite subsystems are highly standardized and typically available as an off-the-shelf item at fixed prices and standardized lead times. We have an excellent track record with dozens of units successfully launched into orbit every year.

CUBESAT PLATFORMS

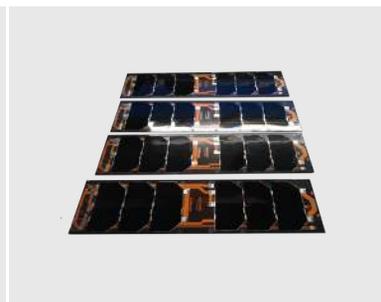
ISIS delivers integrated platforms, for customers who are looking to develop and integrate their

payload without designing and testing generic CubeSat avionics and structures. The ISIS platform is a flight proven, cost-effective system with a short delivery time that meets the performance required for a wide range of applications such as satellite-based Internet of Things, Machine-to-Machine Communications, AIS ship tracking, Earth observation, astronomy, or life sciences.

As every mission is one-of-a-kind, we have focused on a design that enables the right balance between flexibility, compatibility, and reliability, allowing your team to focus on the mission and payload, reducing the time-to-orbit. The ISIS platform is also available as an engineering model ideal for training, or interface development.



• ISIS has more than 20 standardized small satellite product lines



• ISIS is able to provide both single items and large quantities

PRODUCTS

☎ Antenna systems

🕒 Attitude control systems

📡 Command data handling

📶 Communications systems

📦 Cubesat deployers

📦 CubeSat structures

☀ Solar Panels

🎓 CubeSat development platform

🔧 Ground support equipment

📡 Ground stations

LAUNCH AND DEPLOYMENT SYSTEMS

ISIS has great expertise and heritage in launch vehicle accommodation and various deployment systems for small satellites. The company offers a range of standardized CubeSat deployers for the full range of CubeSat sizes including XL versions, as well as separation systems for microsatellite customers. In addition, ISIS has developed innovative launch interface solutions and deployment sequencing systems to optimize the use of launch capacity on various launch vehicles.

GROUND STATIONS

The ISIS Ground station is a low cost, turnkey solution designed to communicate with satellites in LEO that operate in either Amateur or

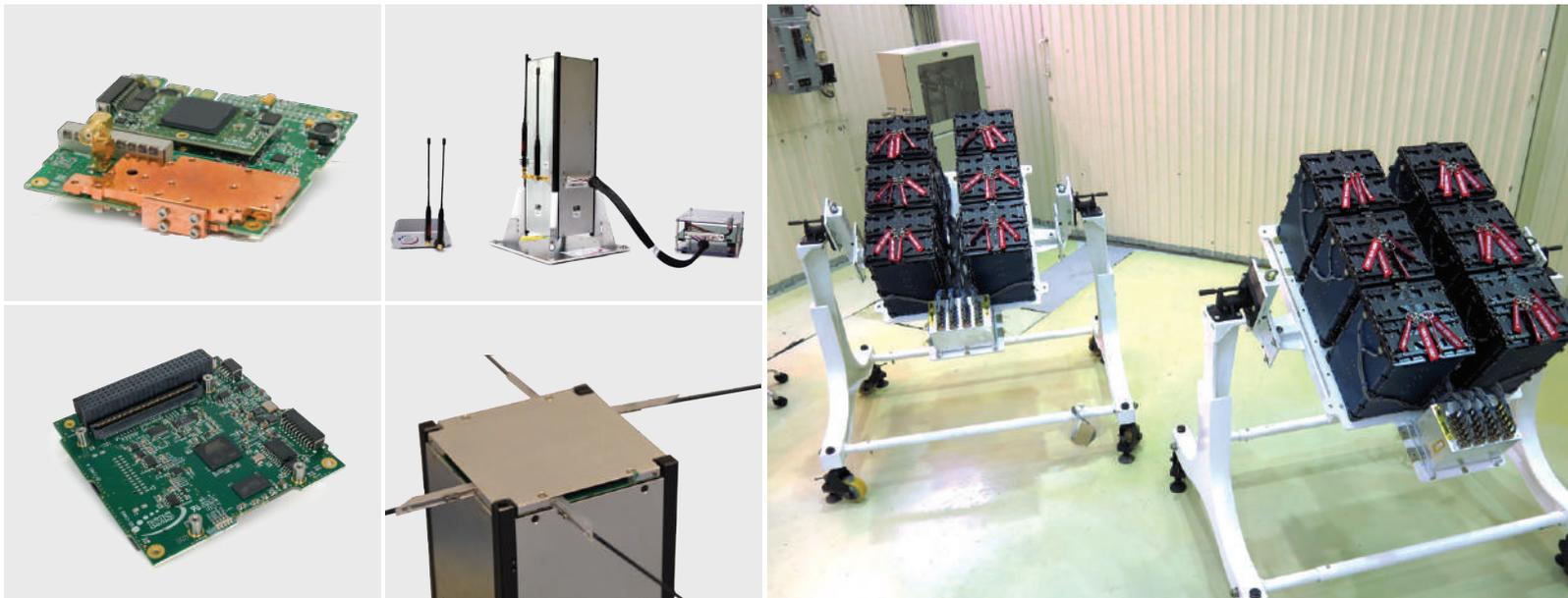
commercial S-band, UHF, and VHF frequency bands. The ground station consists of an antenna and a compact 19" rack which houses the transceiver, rotor control and computer.

CUBESATSHOP.COM

Since 2009, ISIS operates an online portal for standardized CubeSat parts and components, www.cubesatshop.com. On this website all of ISIS' standard products can be found, together with a large number of the components that other developers of CubeSat products have on offer.

CUSTOM SOLUTIONS

If a standard solution does not suit your needs ISIS is able to provide customized versions of its products.



● ISIS operates small satellite launches on many launch vehicles

OUR SERVICES

LAUNCH SERVICES & R&D

SMALL SATELLITE LAUNCH SERVICES

We arrange launches for customers from around the globe by working with launch providers and partners from all over the world. We launch from launch sites from East to West, including Baikonur, Sriharikota and Kourou. We buy capacity in bulk for multiple launches. Using our standard interfaces and processes, we transform that capacity into launch slots.

OUR LAUNCH SERVICES INCLUDE:

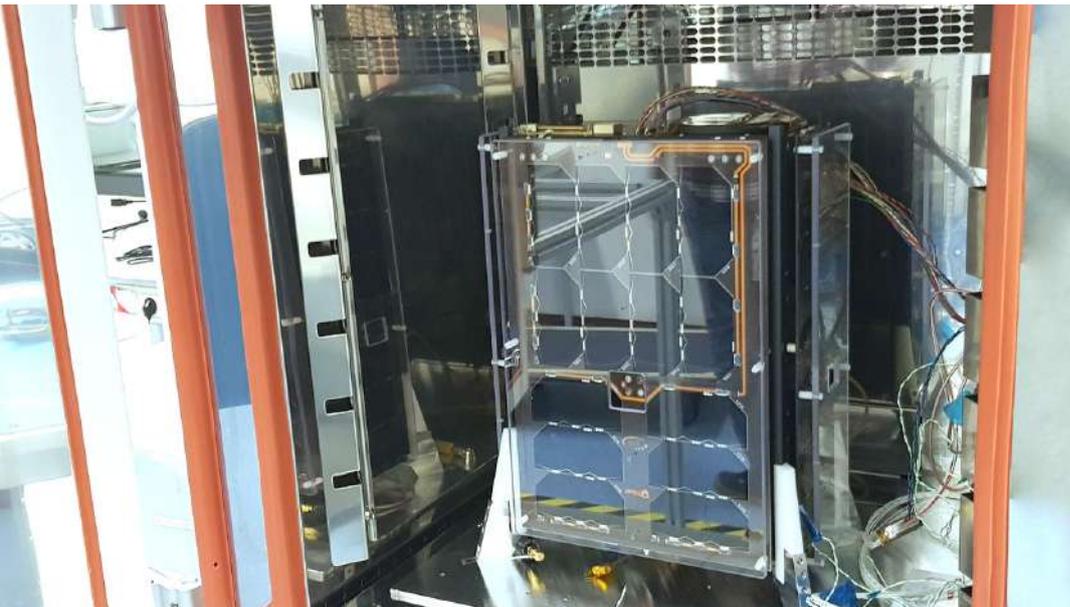
- Launch contracting and coordination
- Complete launch campaign management
- Interface and document control
- Environmental test campaign support
- Launch adapters, deployers and hardware
- Logistics planning and coordination

ADDITIONAL SERVICES

Given our vertically integrated organization, we have capabilities available in-house offered as stand-alone services. For many years we have been able to help our customers with such services and this has become one of our key strengths. We are often able to link customers with specialized organizations from our network, be it R&D organizations or non-technical service providers for launch insurance.

SELECTION OF AVAILABLE SERVICES

- Contract research
- Payload development
- Built-to-print of flight hardware
- Environmental test services
- Technical consulting on Space Missions



• ISIS can assist you to design, build or test your own products

OUR SERVICES

TRAINING PROGRAMMES

TRAINING AND HUMAN CAPITAL DEVELOPMENT

ISIS recognizes the need for training and knowledge transfer for its customers to maintain or further develop their position in the space domain. Over the past years we have developed a number of standardized training and support modules that we can offer to customers although we are also able to specifically tailor our offerings to specific needs. When needed, we have a strong network of specialized partners, including academic institutes, to optimally serve our customers.

STANDARDIZED TRAINING OPTIONS

- Space Systems Engineering training
- CubeSat Mission Design and Development

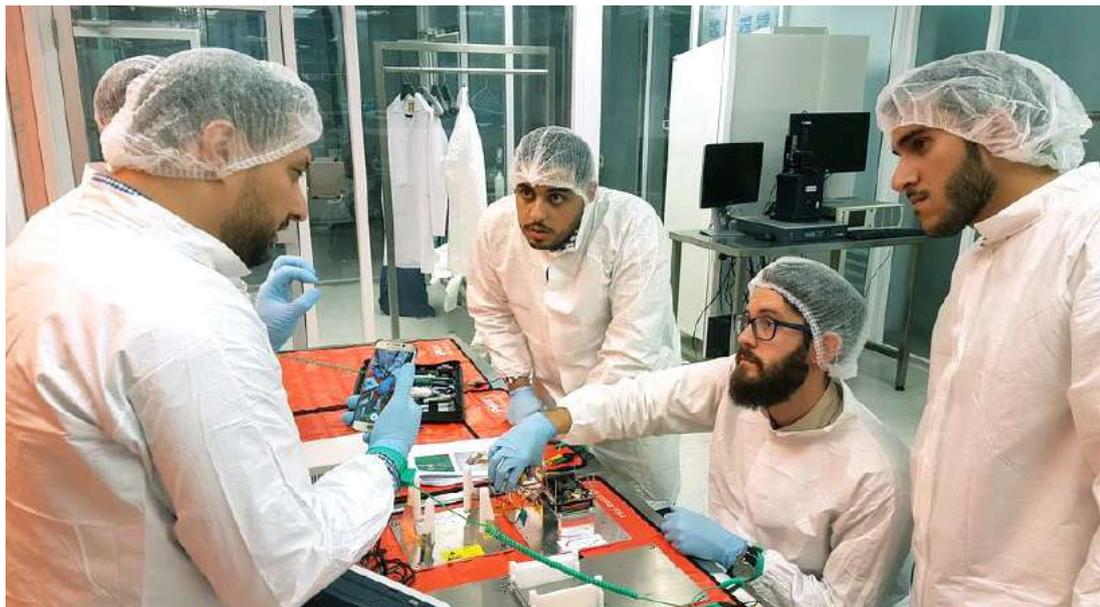
- Spacecraft Operations
- Dedicated Training Hardware Solutions

HUMAN CAPITAL DEVELOPMENT

- Tailored programmes based on your needs
- Coaching and support to customer teams
- Support in establishing local labs and facilities
- Options for on-the-job training at ISIS

MISSION DESIGN WORKSHOPS

- Early mission design
- Concept definition
- Initial trade-offs
- Requirements discovery
- Risk identification and assessment

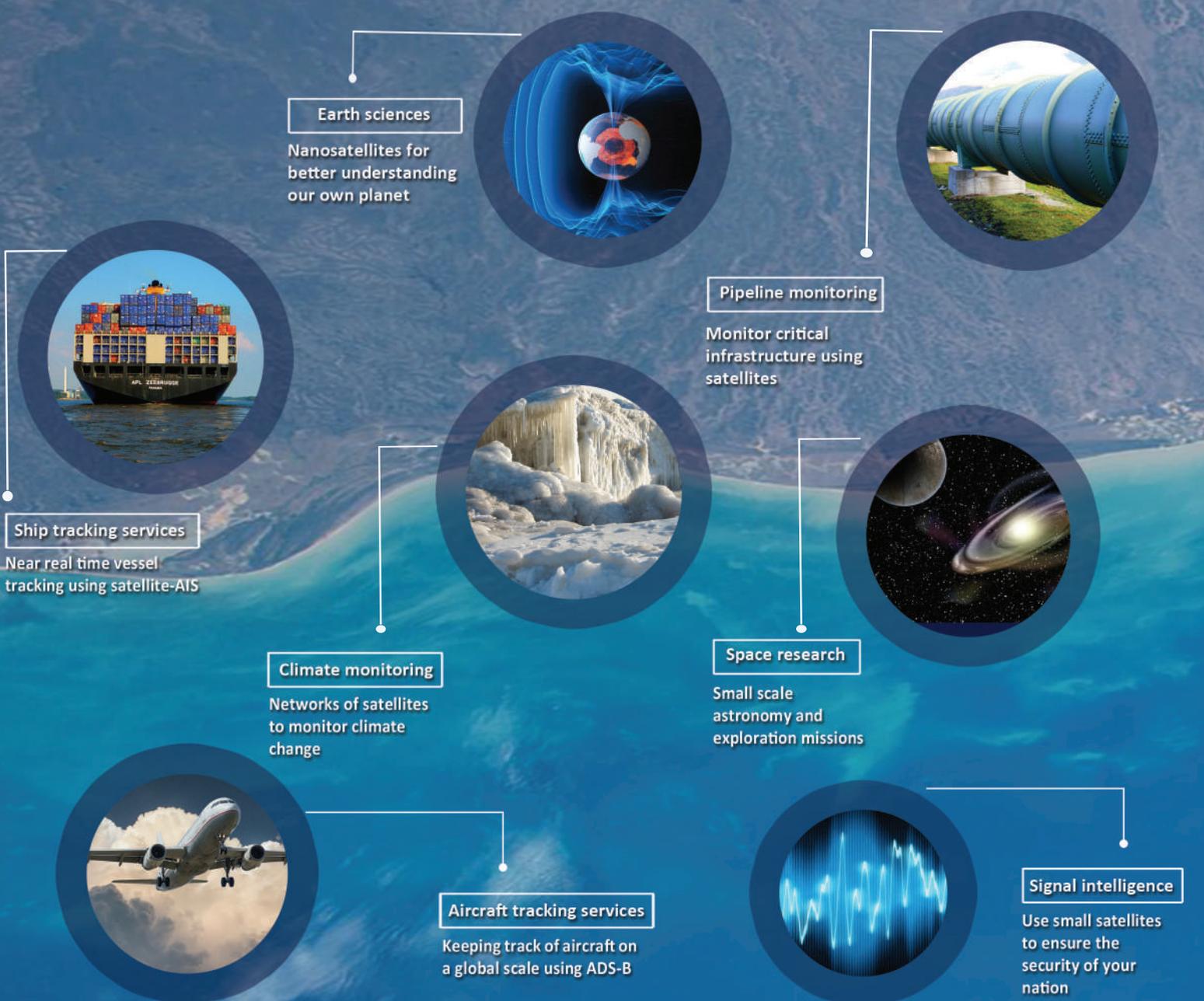


- ISIS provides training courses both in Delft and at the customers' location

DEFINING YOUR MISSION

WHAT WE CAN DO FOR YOU

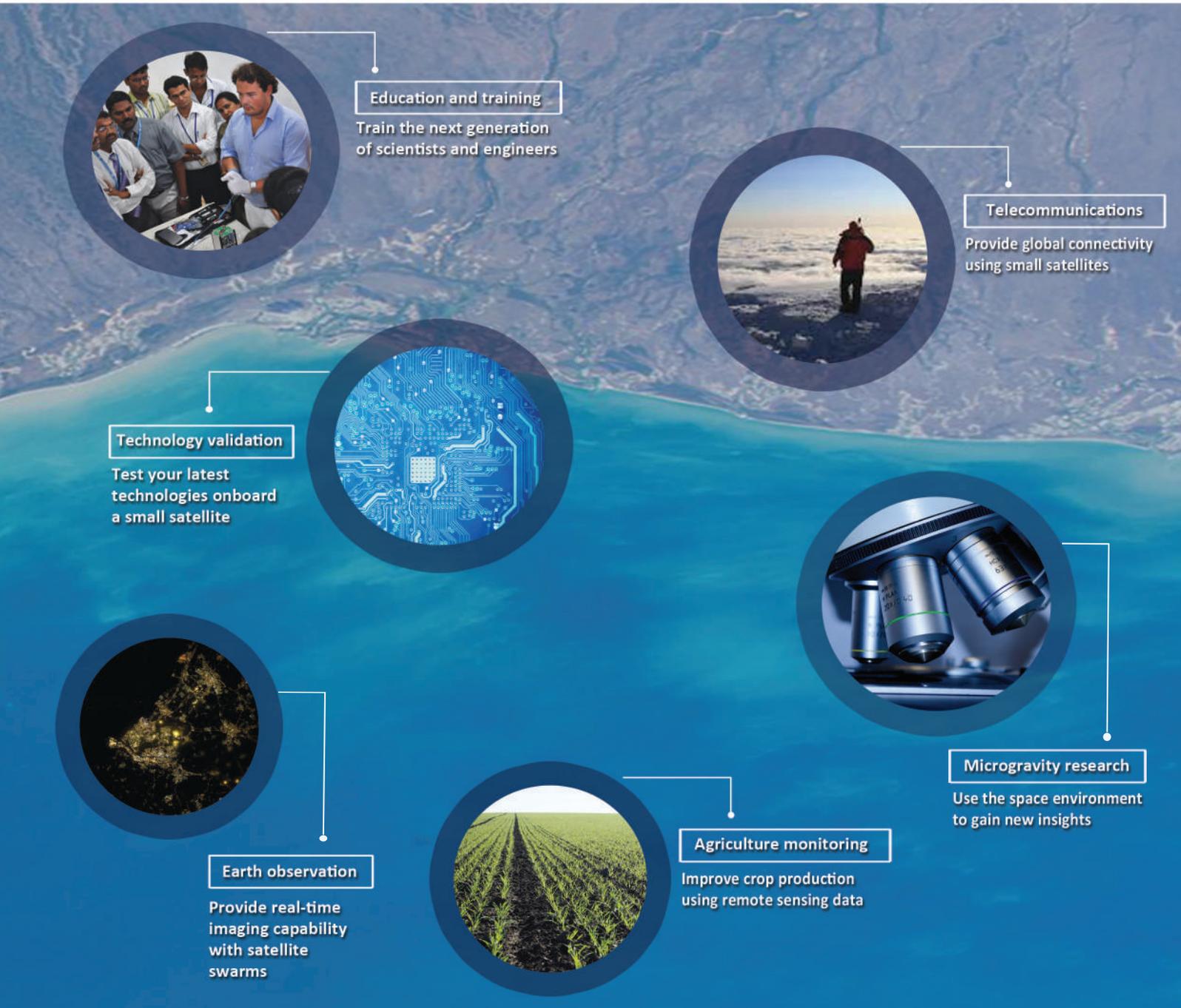
Whatever you would like to achieve, if it involves small satellites, ISIS is well positioned to support you in achieving your objectives. Whether you are working on training a next generation of engineers, performing small scale science missions, or planning a novel applications using a globe-spanning constellations, we are ready to support you.



BUILDING YOUR MISSION

HOW WE CAN HELP YOU

	Do it yourself	Let's do it together	Leave it to us
CubeSat Components	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Mission design	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Integration/testing	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Launch services	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Operations	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>





GET IN TOUCH



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