

# Credentials

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# Introduction

# Timeline of the Space Industry in Azerbaijan

**2008**

The decree "On establishing a space industry in Azerbaijan and launching telecommunications satellites into orbit" was signed.

**2010**

A Presidential Decree was signed to establish Azercosmos, the national satellite operator of Azerbaijan.

**2013**

The very first satellite of Azerbaijan – Azerspace-1 was launched into space.

**2018**

The third satellite of Azerbaijan – Azerspace-2 was successfully launched into orbit.

**2023**

Hosted by Azercosmos, the 74<sup>th</sup> International Astronautical Congress was held in Baku, Azerbaijan on 2-6 October.

**2025**

In 2025, Azercosmos will host the Space Technologies Conference (STC 2025). In the framework of the event will be also held the 4<sup>th</sup> Space Agencies Meeting of the Organization of Turkic States.

The State Program on the Establishment and Development of the Space Industry in the Republic of Azerbaijan was approved.

**2009**

Having registered in the Ministry of Taxes of the Republic of Azerbaijan as a legal entity, Azercosmos started to operate commercially.

**2011**

Earth Observation satellite Azersky was successfully launched into orbit.

**2014**

Azercosmos was transformed into the Space Agency of the Republic of Azerbaijan by a Presidential Decree.

**2021**

Within the framework of the COP29 event, the Space Agency of the Republic of Azerbaijan – Azercosmos held the "WORLD SPACE LEADERS SUMMIT".

**2024**

# About Azercosmos

Operating as the first and only satellite operator in the region since 2010 and as the Space Agency of the Republic of Azerbaijan as of 2021, we are committed to creating a better connected and secure world for future generations.

While building the local know-how as the leading force behind the development of innovative space ecosystem in Azerbaijan, we also aim to emerge as one of the driving forces in the global space industry by engaging in a wide range of R&D activities as well as developing GIS solutions, cooperating with international stakeholders and engaging in major global projects.



>200

Employees



204

Local and  
international  
stakeholders



>80%

Satellite  
utilisation rate



90%

Revenues  
from export

# Vision

To establish Azerbaijan as one of the driving forces of the global space industry

# Mission

To provide advanced technological solutions for peace and prosperity and to maintain sustainable development

# Values



Diligence



Integrity



Agility



Collaboration



Curiosity

# Satellite Ground Control Stations



**Main Satellite Ground Control Station**  
Baku-Shamakhi Highway



**Back-up Satellite Ground Control Station**  
Julfa region, Nakhchivan

# Strategy 2030 – Priority Targets

- Ensuring the sustainability of the existing satellite services
- Forming local manufacturing potential within the space industry, creating jobs and employment opportunities
- Providing support for ensuring the interests and security of the Republic of Azerbaijan
- Expanding the scientific research in space and development of human capital
- Supporting start-ups and innovative SMEs within the space field



# Services and Solutions

# Telecommunication

# Video Services

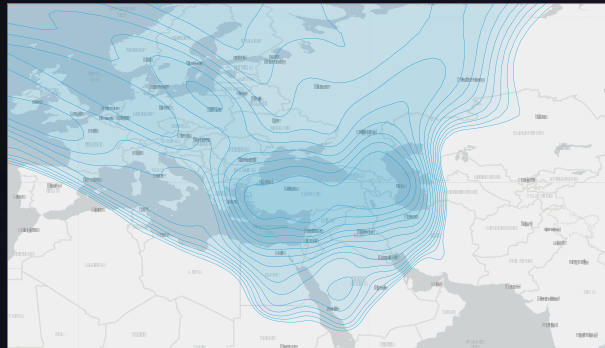
- Direct to Home (DTH)
- Video Contribution
- Video Distribution
- Turnaround Services
- Satellite Content Acquisition
- Occasional Use
- Video Over IP
- Digital Terrestrial Television
- Pay TV Services

# Data Services

- Managed Satellite Connectivity
- Broadband
- VNO Services
- VSAT Services & Solutions
- IP Over Satellite
- Mobile Backhaul
- IP Trunking
- Partner Teleport Services

# Azerspace-1 46°E

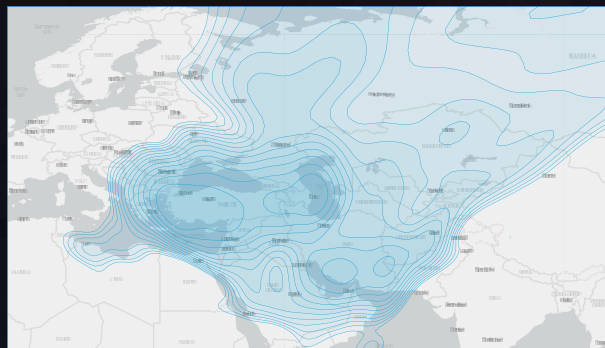
Launched in 2013  
Ku & C-band



Ku-Band

## Europe Beam

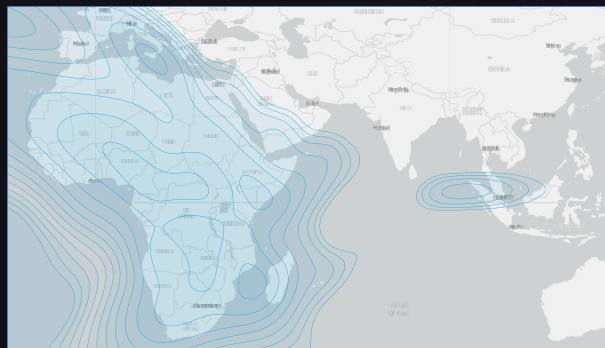
One of the most powerful beams for Europe with 53dBW EIRP guaranteeing efficient bandwidth usage.



Ku-Band

## Central Asia Beam

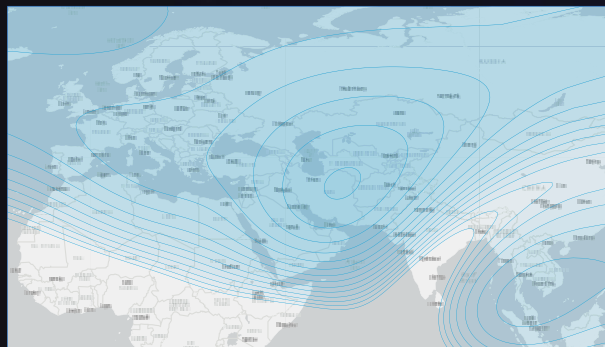
With 53dBW EIRP, it is one of the strongest beams covering Central Asian countries.



C-Band

## Africa and Europe Beam

A distinctive, high-power beam that equally covers both Africa and Europe, from the north of the United Kingdom to the south of the African continent.



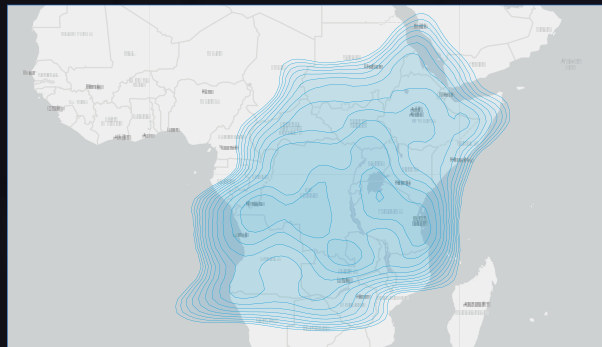
C-Band

## Central Asia and Europe Beam

An exceptional, powerful beam bridging Europe and Asia, ensuring seamless, reliable, and high-quality connectivity.



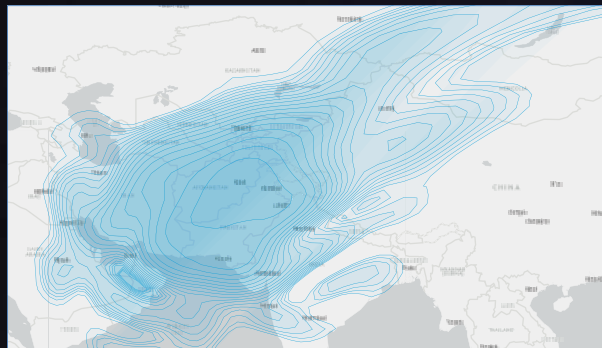
# Azerspace-2 $45.1^{\circ}\text{E}$ Launched in 2018 Ku-band



Ku-Band

## Central and East Africa Beam

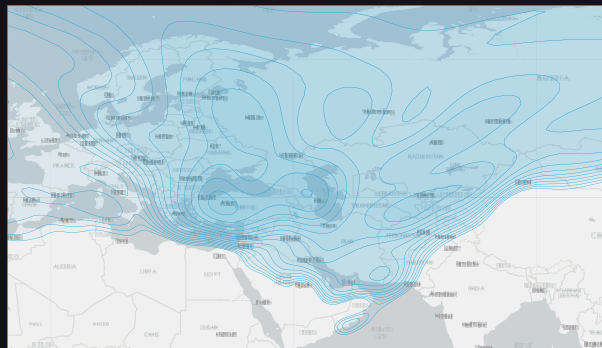
One of the most powerful beams covering Eastern and Central Africa with 55 dBW EIRP.



Ku-Band

## Pakistan and Afghanistan Beam

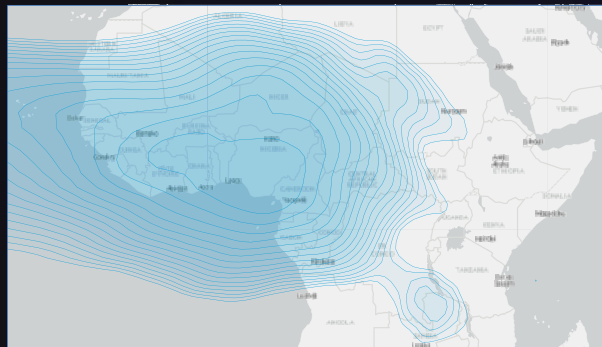
The strongest beam\* in the region with the highest possible 58 dBW EIRP. Exceptional, high throughput satellite performance and MHz/Mbps ratio.



Ku-Band

## Eurasia Beam

A unique beam providing extensive coverage across Europe and Asia and requiring minimum antenna size of 0.6 m.



Ku-Band

## West Africa Beam

With 56dBW EIRP, it is considered to be one of the strongest beams that enables efficient data transmission.



# Our Teleport Partners



Azam TV



HorizonSat



iSAT Africa



InterSAT



Industrieanlagen-  
Betriebsgesellschaft  
mbH



K-Net



Liquid Intelligent  
Technologies



Skynetworks  
Mongolian First  
Broadband Network  
Company



Signalhorn



Space Engineering  
Services



Telemedia



Teleport Uydu  
Haberleşme

# Facts & Figures

100 mln.

Delivering connectivity to  
100+ million households

93%

93% customer  
satisfaction in 2024

200+

200+ TV and Radio  
channels broadcasted

5

Broadcasting in  
5 languages



# Remote Sensing & GIS Solutions

# Solutions



**Agriculture**



**Urban Planning**



**Environment**



**Tourism**



**Maritime**



**Defence & Intelligence**

# Benefits

**01**  
Prompt Image  
Delivery

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**02**  
High  
Resolution

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**03**  
Global Coverage  
Area

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**04**  
Imagery of the  
Desired Earth  
Surface Area

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**05**  
Superior  
Coverage Speed

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**06**  
Archive of Satellite  
Images

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**07**  
Efficient Customer  
Support

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# GIS Centre

**Artificial  
Intelligence**

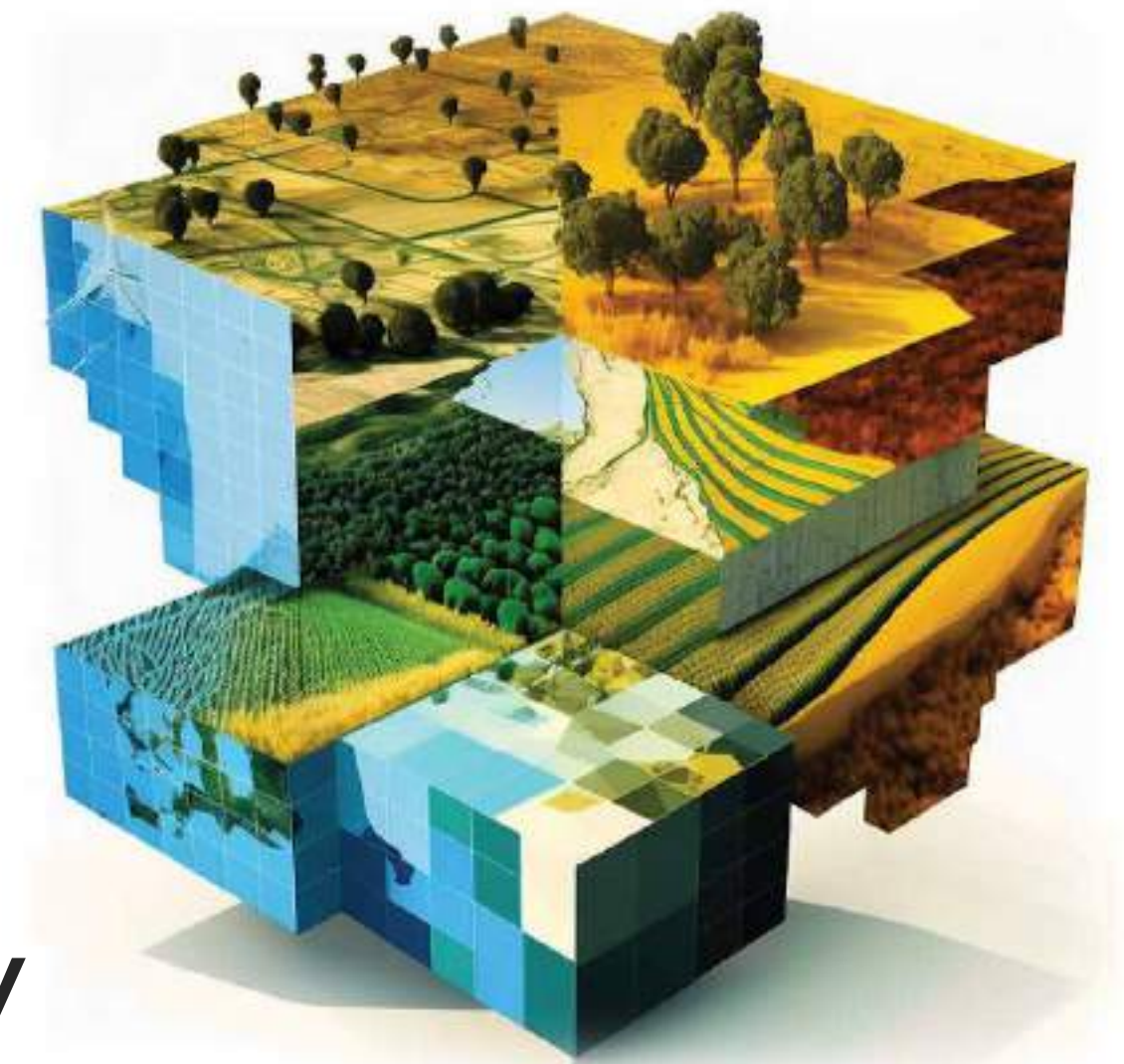
**Photogrammetric  
Processing and Analysis**

**Thematic  
Processing**

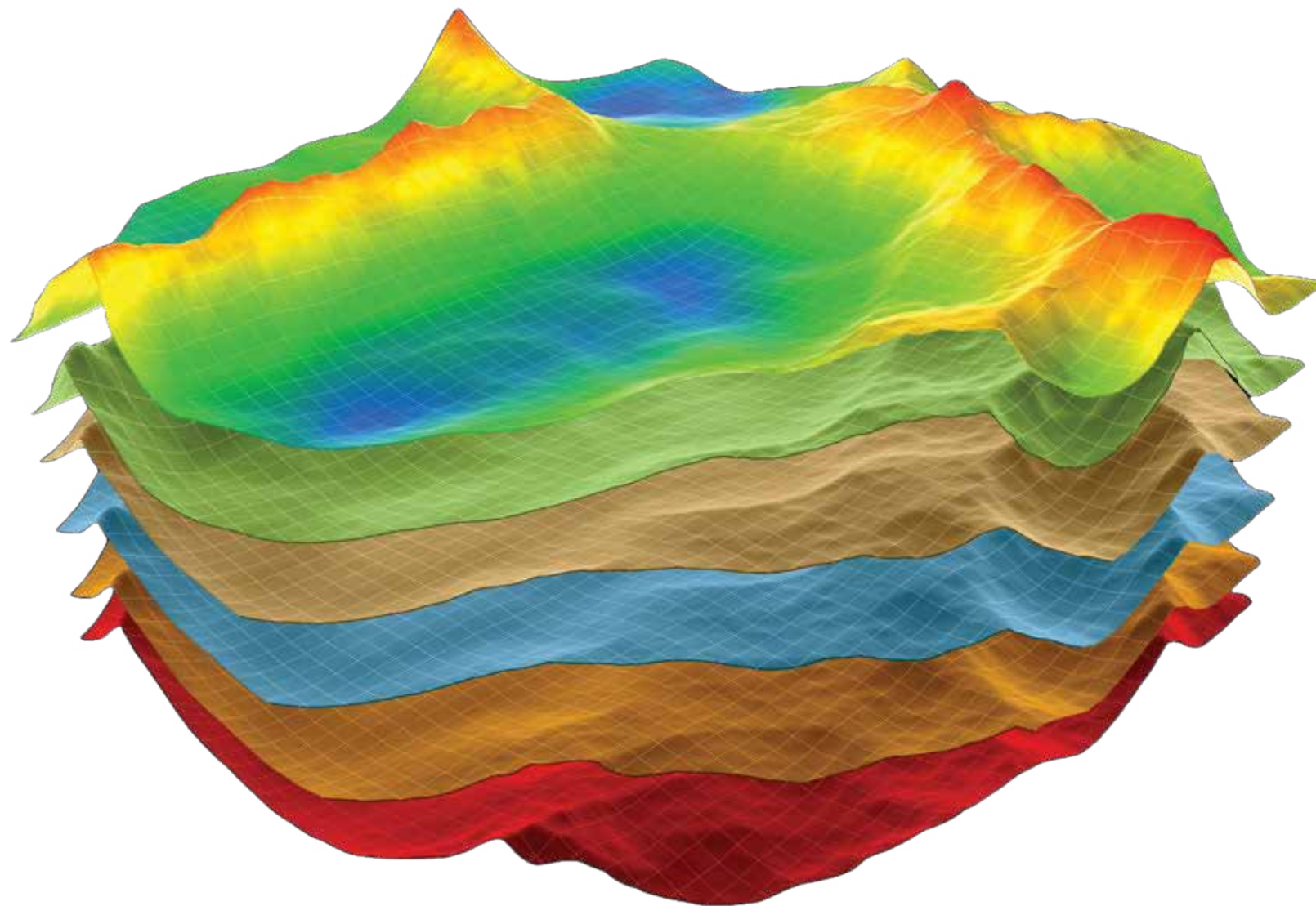


# AI Products

- **Deforestation Detection**
- **Building Detection**
- **Greenhouse Detection**
- **Vehicle Detection**
- **Ship Detection**
- **Super-Resolution of Satellite Imagery**
- **GEO360**



# WEB Products



## Farmer App

An automated tool to be used for implementing the system analysis of the agricultural lands based on satellite imagery and on-site inspections, with multiple advantages to increase crop yield.

## WebGIS

A Web platform used to create, edit and update, analyze, and display local geodata, providing an excellent advantage to manage a single database with real-time information as well as data synchronization.

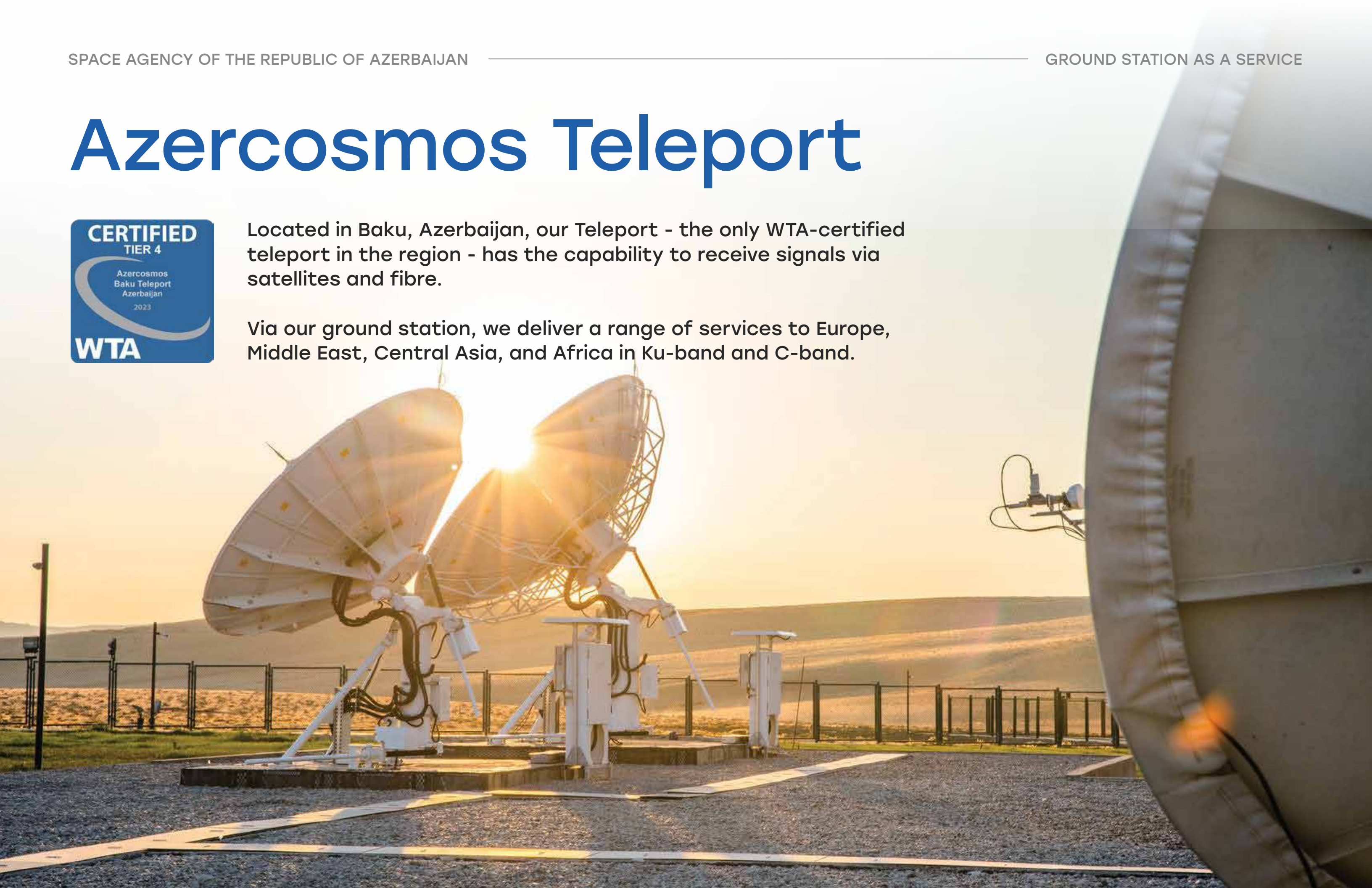
# Ground Station as a Service

# Azercosmos Teleport



Located in Baku, Azerbaijan, our Teleport - the only WTA-certified teleport in the region - has the capability to receive signals via satellites and fibre.

Via our ground station, we deliver a range of services to Europe, Middle East, Central Asia, and Africa in Ku-band and C-band.



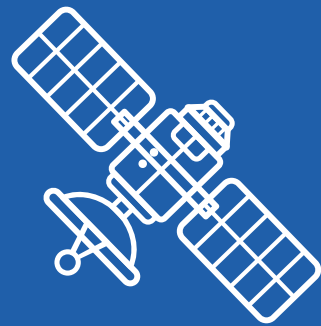
# Ground Station as a Service

- Hosting & Co-location Services
- Uplink Services
- TT&C Operations
- Direct Receiving Station
- Back-up Facilities
- Installation & Consultancy



# Training and Consultancy

# Training and Consultancy



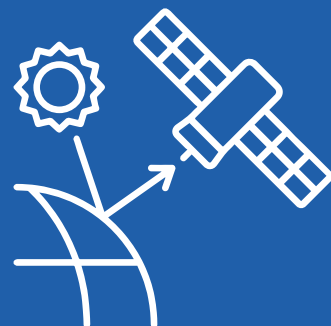
Satellite Control Systems



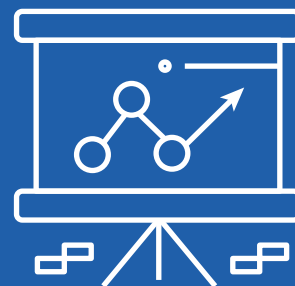
Satellite Communications



Spectrum Management



GIS & Remote Sensing



Strategy Consulting



Ground Systems

# Future Satellite Programs

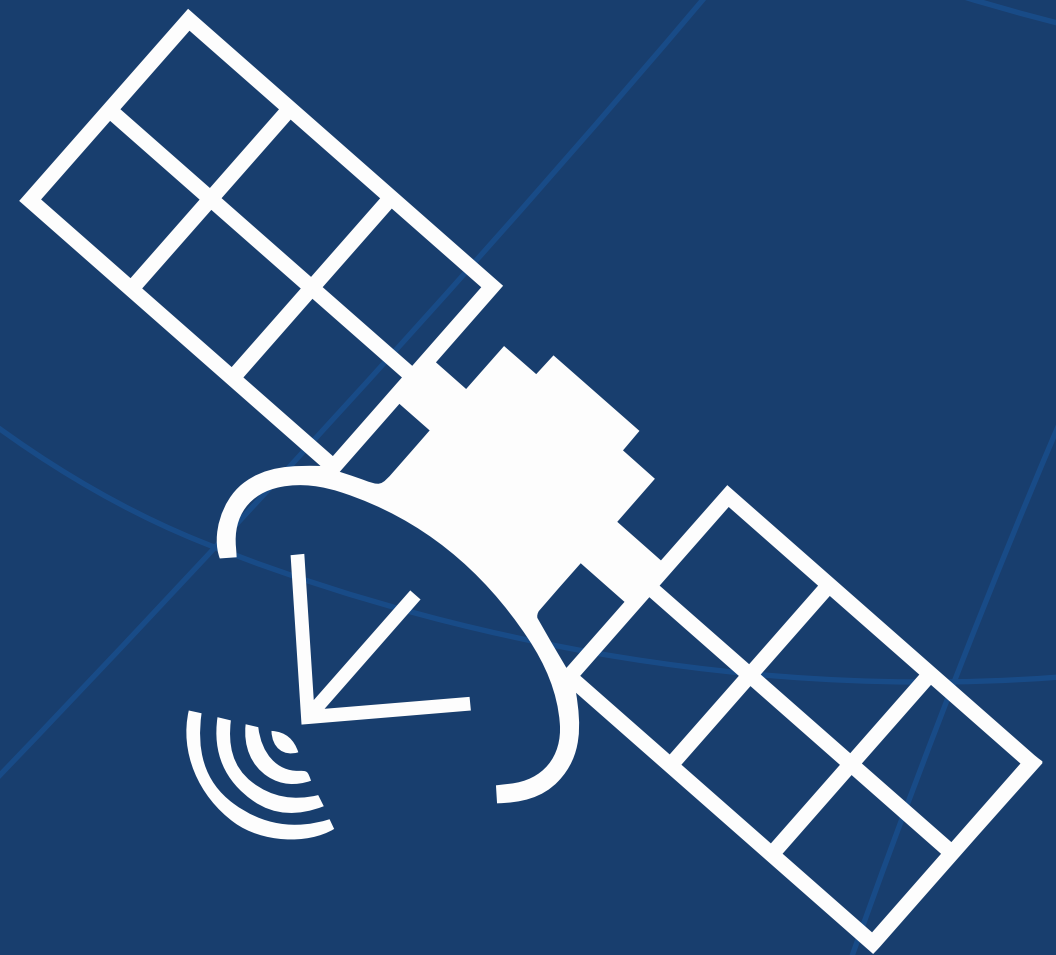
# Azersky-2 Program

- 1 Construction of ground infrastructure
- 2 Establishment of spacecraft development center
- 3 The transfer of technology
- 4 Azersky-2A launching the satellite into orbit
- 5 Azersky-2B launching the satellite into orbit



# Azerspace-3

The launch of next  
telecommunication  
satellite



\*the design of the satellite is in process

# Core Activities as a Space Agency

# Research & Development

We seek to drive technological advancement through research and development of space systems with mechanical, electronics and software engineering as key elements of our activities. By nurturing talent and uniting bright minds from diverse fields, our approach leverages profound expertise and knowledge application, fostering a culture of curiosity and innovation.



# Education & Outreach



CanSat Azerbaijan Model Satellite Competition



Earth Observation Competition



World Space Week in Azerbaijan



Cooperation with the Space Generation Advisory Council



NewSpace Business Acceleration Programme



ActInSpace International Hackathon Azerbaijan



NASA Space Apps Azerbaijan



Excursions, Webinars & Info Sessions

# SPACE Academy

To enhance Azerbaijan's reputation in the space industry, a **SPACE Academy** has been established under the Space Agency of the Republic of Azerbaijan. The academy aims to nurture a new generation of space professionals, organize international competitions based on a national model, and promote education and awareness in space science. By supporting scientific research, developing human resources, and ensuring the financing of space awareness projects through commercial activities, the academy will contribute to the growth of the national space ecosystem. Additionally, it seeks to promote youth engagement and strengthen Azerbaijan's global standing.

web space

The logo for SPACE ACADEMY of azercosmos features a stylized blue and white graphic of a satellite or orbital path to the left of the text. The text 'SPACE ACADEMY' is in a large, bold, white sans-serif font, with 'of azercosmos' in a smaller, lowercase, white sans-serif font below it.

SPACE ACADEMY  
of azercosmos

Olympics and Competitions

Summer and Winter schools

Fellowship and Internship programs

Trainings

# SPACE Academy activities



# International Cooperation

## Partnership



Turkish Space Agency



South African National Space Agency



Islamic World Educational, Scientific and Cultural Organization



Italian Space Agency



Hungarian Space Office under the Ministry of Foreign Affairs and Trade



Brazilian Space Agency



Space Research and Technology Agency-Uzbekspace Agency



Pakistan Space & Upper Atmosphere Research Commission



China National Space Administration



Polish Space Agency



Israel Space Agency



Turksat



Intelsat



Rascom



Measat

# International Cooperation

## Membership



United Nations  
Global Compact



Intersputnik International  
Organization of Space  
Communications



Inter-Islamic Network  
on Space Sciences  
and Technology



International  
Astronautical Federation  
Secretariat



Global Satellite  
Operators Association



World Teleport  
Association



International Society for  
Photogrammetry and  
Remote Sensing

# International Cooperation

## IAC 2023

Organised by the International Astronautical Federation and hosted by Azercosmos, the 74<sup>th</sup> International Astronautical Congress was held in Baku, Azerbaijan on 2-6 October 2023.

The Congress returned to Baku exactly after 50 years as the capital city hosted its 24<sup>th</sup> edition in 1973 as the first and the only city in the region to do so.

74-CÜ BEYNƏLXALQ  
ASTRONAVTIKA KONGRESİ

2-6 oktyabr, 2023 | Bakı, Azərbaycan



IAC  
2023  
BAKU

74<sup>TH</sup> INTERNATIONAL  
ASTRONAUTICAL CONGRESS

2-6 October 2023 | Baku, Azerbaijan



# International Cooperation

## IAC 2023 Key Figures

**5410**

delegates from  
132 countries

**1200**

participating  
organisations

**2400**

technical  
papers

**46**

plenary sessions with  
an online audience of  
50,000 viewers

**150**

exhibiting  
organisations

**32**

sponsor  
organizations

# Climate Change: Climate Report and Sustainability

**DIGITAL CLIMATE  
CHANGE PLATFORM**  
[www.climatereport.az](http://www.climatereport.az)



**UN CLIMATE CHANGE  
CONFERENCE - COP29**





**COP29**  
Baku  
Azerbaijan



azercosmos

# World Space Leaders Summit

## International Pledge for Space-Based Climate

**Action - COP29 Impact and Output**

**November 16, 2024**

**Baku, Azerbaijan**

- **Deploy Space-Based Technologies:** Identify and deploy practical space-enabled solutions to help address the Earth's greatest climate challenges.
- **Enhance Global Collaboration:** Strengthen international partnerships to improve capacity building, scientific data sharing, and the development of joint climate strategies.
- **Support the UN's Space2030 Agenda:** Actively contribute to the objectives of the "Space2030 Agenda" as adopted by the UN General Assembly on 25 October 2021, including four objectives - advancing space economy, space society, space accessibility, and space diplomacy.
- **Enhanced Data Sharing:** Amplify scientific data sharing efforts, particularly between established and emerging space nations, with a specific focus on inclusivity, especially in engaging developing countries.

# STC 2025

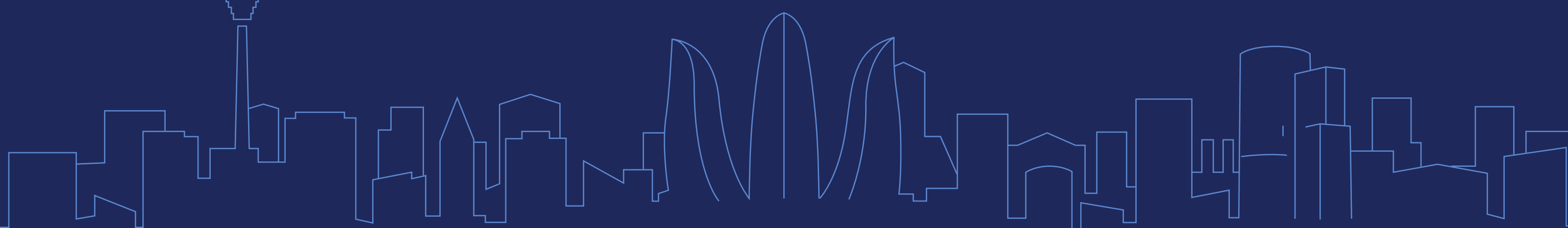
## CENTRAL EURASIA SPACE TECHNOLOGY CONFERENCE BAKU, AZERBAIJAN

April 24-25

Our country's experience gained from the International Astronautical Congress (#IAC2023) enables it to host future regional and global space events. In 2025, our country will host another significant space event - the Space Technologies Conference (STC 2025).

This conference will serve as a platform for cooperation among space agencies in Central Eurasia, companies engaged in commercial space activities, and, more broadly, developing regional space nations.

Additionally, the 4th Space Agencies Meeting of the Organization of Turkic States will take place in Baku in the framework of the conference.



# Thank You!