



SPACE AGENCY
OF THE REPUBLIC OF AZERBAIJAN

EARTH OBSERVATION SOLUTIONS for DEFENCE

ABOUT US

Azercosmos, Space Agency of the Republic of Azerbaijan, is the leading force behind the development of an innovative space ecosystem in Azerbaijan. Founded in 2010 as the first and only satellite operator in the Caucasus region, Azercosmos successfully provides high-quality and reliable satellite services to partners across the globe. Through two telecommunication satellites, Azerspace-1 and Azerspace-2, alongside advanced Earth Observation (EO) capabilities, Azercosmos delivers comprehensive services to more than 200 local and international stakeholders across 45+ countries, reaching over 100 million end users across Europe, Africa, the Middle East, and Central Asia. Its modern teleport infrastructure, international partnerships, and globally recognized quality and security standards support diverse markets including telecommunications, media broadcasting, agriculture, environmental monitoring, disaster management, and defense.

The number '205+' is displayed in a large, bold, blue font. The '0' is replaced by a circular inset image showing a hand holding a small satellite model.

Local and
International
Partners

The number '92.5%' is displayed in a large, bold, blue font. The '2' is replaced by a circular inset image showing three smiley face icons.

Customer Satisfaction
Survey Results

The number '45+' is displayed in a large, bold, blue font. The '4' is replaced by a circular inset image showing a satellite view of a coastline.

Countries Served

BORDER SECURITY

Strengthen border surveillance with geospatial intelligence and automated monitoring capabilities designed to support faster, more informed security decisions.

- 01 Monitor extensive border regions with high-resolution satellite imagery.
- 02 Detect changes, suspicious activity, and emerging security concerns.
- 03 Identify new roads, structures, crossings, and movement patterns.
- 04 Maintain situational awareness across remote and difficult-to-access terrain.

SERVICE LINES

VIEWSHED ANALYSIS & BORDER MONITORING

Combine terrain intelligence with viewshed analysis to improve surveillance planning, observation coverage, and border-monitoring effectiveness.

- 01 Identify blind spots and areas with limited surveillance coverage.
- 02 Support the positioning of monitoring infrastructure and observation assets.
- 03 Analyze terrain, elevation, and line-of-sight relationships.
- 04 Combine visibility analysis with imagery-based monitoring for greater situational awareness.

SERVICE LINES

MILITARY OBJECTS DETECTION

Accelerate imagery interpretation with AI-assisted detection of military-related objects, infrastructure, and activity across large areas of interest.

- 01 Locate objects of interest across satellite imagery.
- 02 Support detection of installations, equipment concentrations, and infrastructure changes.
- 03 Reduce manual image-review workload through automated screening.
- 04 Compare observations across multiple dates to identify significant changes.
- 05 Prioritize areas requiring additional analyst attention.

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ILLEGAL MARITIME ACTIVITIES

Monitor coastal zones and maritime areas to support the identification of suspicious, unauthorized, or abnormal activity at sea.

- 01 Detect and monitor vessels across coastal and offshore environments.
- 02 Identify unusual movement patterns and activity near sensitive areas.
- 03 Support monitoring of unauthorized fishing, smuggling, and restricted-zone activity.
- 04 Improve awareness across ports, coastlines, territorial waters, and maritime corridors.



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TARGET DETECTION & IDENTIFICATION

Improve the identification and assessment of objects of interest using high-resolution imagery, automated analytics, and multi-source geospatial intelligence.

- 01 Detect objects and areas requiring further investigation.
- 02 Support object classification based on visible characteristics and spatial context.
- 03 Compare imagery from different dates to identify movement or change.
- 04 Analyze surrounding infrastructure, terrain, and activity patterns.
- 05 Deliver intelligence outputs that support informed operational assessment.

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VEHICLE DETECTION

AI-enabled vehicle detection provides rapid insight into transportation activity, movement patterns, and changes across areas of strategic interest.

- 01 Detect vehicles within satellite imagery.
- 02 Estimate vehicle concentrations in facilities, routes, and designated areas.
- 03 Monitor changes in traffic and movement over time.
- 04 Identify unusual concentrations or emerging activity patterns.
- 05 Support infrastructure, logistics, border, and security monitoring.

AREA SCAN



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AIRCRAFT & VESSEL DETECTION

Monitor aircraft and vessels across strategic locations using automated detection and geospatial intelligence for a broader operational picture.

- 01 Detect aircraft at airports, airfields, and other areas of interest.
- 02 Identify vessels in ports, anchorages, coastal waters, and offshore environments.
- 03 Monitor changes in asset presence and concentration over time.
- 04 Support activity analysis across aviation and maritime domains.
- 05 Combine automated detection with imagery and geospatial context for enhanced intelligence.

SERVICE LINES

WHY AZERCOSMOS?

- High-resolution Earth observation imagery
- Global Earth observation coverage
- Large-area satellite imagery acquisition
- Advanced AI-powered object detection
- Multi-source geospatial intelligence capabilities
- 2D & 3D geospatial data and analysis
- Prompt image delivery within hours
- Tailored solutions for defence and security applications



KEY BENEFITS

- 01 Enhanced border situational awareness
- 02 Continuous monitoring of critical areas
- 03 Faster detection and identification of potential targets
- 04 Improved monitoring of military and strategic objects
- 05 Enhanced maritime domain awareness
- 06 Large-area monitoring using Earth observation data
- 07 Timely access to actionable geospatial intelligence
- 08 Data-driven support for defence and security decision-making



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CONTACT US

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