



National Space Program Achievements 2023-2025



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Foreword



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and Information Technology

The space sector in the Sultanate of Oman is witnessing rapid development as one of the key enablers of the digital economy, supporting economic diversification and national capacity building, in alignment with the objectives of Oman Vision 2040.

This report documents the projects, initiatives, and achievements realized during 2025 in the Omani space sector, led by the Ministry of Transport, Communications and Information Technology through the National Space Program, in partnership with government entities, the private sector, and academic institutions.

During the year, significant progress was made in developing the sector's foundational infrastructure, building national capabilities, strengthening international partnerships, advancing the legislative and regulatory framework, and attracting investments related to space applications and services.

These achievements represent an important step toward establishing the Sultanate of Oman as an active partner in the global space ecosystem and as a regional gateway for space applications and services that support sustainable development.

The Ministry will continue, in collaboration with its partners, to implement the objectives of the National Space Policy, accelerate knowledge and technology transfer, and enhance private sector participation, thereby supporting the development of a sustainable national space economy.



Introduction

Since 2020, the space sector in the Sultanate of Oman has received significant national attention following the issuance of strategic government directives aimed at accelerating its growth and positioning it as a promising future sector.

The Royal Decree No. (90/2020), which established the Ministry of Transport, Communications and Information Technology and defined its mandates, marked a pivotal milestone in this journey. Under this decree, the National Center for Space, Advanced Technologies and Artificial Intelligence was established within the Ministry's organizational structure to serve as the dedicated entity for advancing the space and advanced technology sectors.

In line with its mandates, the Ministry is actively contributing to the development of a thriving digital economy based on knowledge, technology, and innovation. To this end, it has developed the National Digital Economy Program as a comprehensive national framework that provides a secure and advanced infrastructure supporting digital government, digital business, and the digital society, while ensuring alignment with economic and social development pathways and responsiveness to future and sustainability requirements, in line with Oman Vision 2040.

The National Digital Economy Program comprises eight executive programs, including the Executive

aims to regulate and develop the sector, maximize the utilization of space technologies and applications, build national capabilities, and enhance private sector participation, thereby supporting economic diversification and reinforcing Oman's position as a regional gateway for space applications that serve the economy, development, and sustainability.

Over the three years since the launch of the National Space Policy, Oman's space sector has transitioned from the foundational stage to the market-building phase. This progress is reflected in the initiation of key infrastructure projects, the rollout of national capacity-building programs, the establishment of international partnerships and investment attraction efforts, the stimulation of economic growth within the sector, the development of draft legislation and regulatory frameworks, and the strengthening of coordination and alignment with key stakeholders.

This report highlights the key achievements realized during the period 2023-2025 following the launch of the National Space Policy and the Executive Program for the Omani Space Sector.

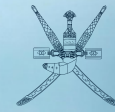
Executive Summary

Launch of the National Space Sector Roadmap National Space Policy and Executive Program (2023-2033)



Space for Earth

The national policy emphasizes the utilization of space infrastructure to enable and enhance Earth-based applications and services.



Royal Directives

for Building National Capabilities in the Space Sector



65 %

of space projects are currently under implementation within the sector's policy and executive program



26 Local Companies

operating in space sector services by the end of 2025, compared to 16 companies in 2023



400 + Employees

across government and private sector organizations operating in the space sector



300 + participants

benefited from capacity-building training programs in the sector



270 %

growth in local investments in the space sector in 2025 compared to 2023



Space Sovereignty

Announced agreement for OmanSat-1: A Strategic Step Forward



Etlaq Project

continuing trials and testing for space rocket launches



Accession

The Sultanate of Oman's Accession to the Artemis Accords



7 new startups

graduate from Oman Space Accelerator Program ready to deliver space-related services and products

80+ Children

benefited from the Astronaut Camp activities



Completion of Phase 1 of the Space Engineering Laboratory

Establishment of the ground station



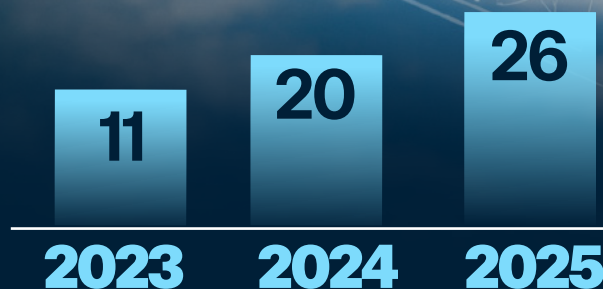
Two satellites

for Earth observation services

Key Socio-Economic Growth Indicators of the Omani Space Sector



Number of Companies Operating in the Space Sector

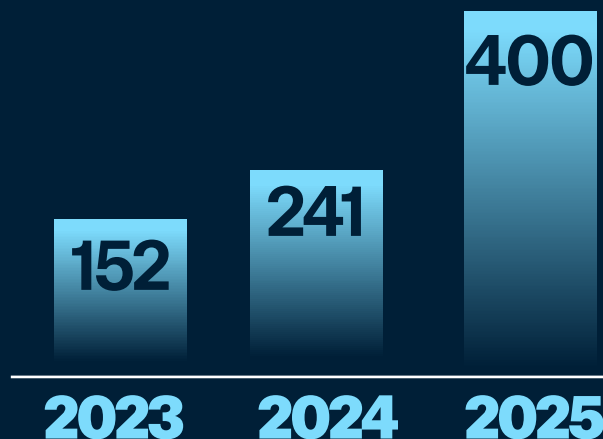


136 %

the number of private sector companies operating in the space sector in 2025 compared to 2023



Number of Employees in the Space Sector (Government & Private)

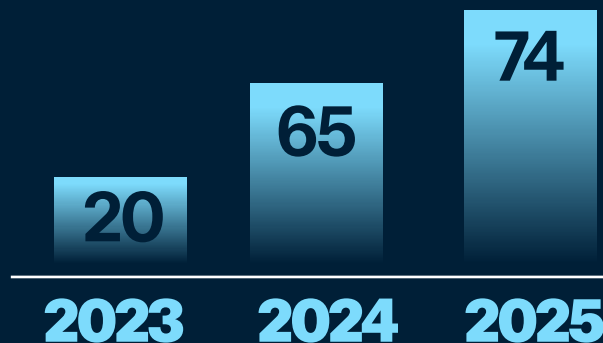


163 %

increase in the workforce across government and private sector organizations in the space sector



Private Sector Investment in the Space Sector (₮ million)



270 %

increase in the value of private sector investment in the space sector in the Sultanate of Oman

Alignment of the National Space Program with Oman Vision 2040



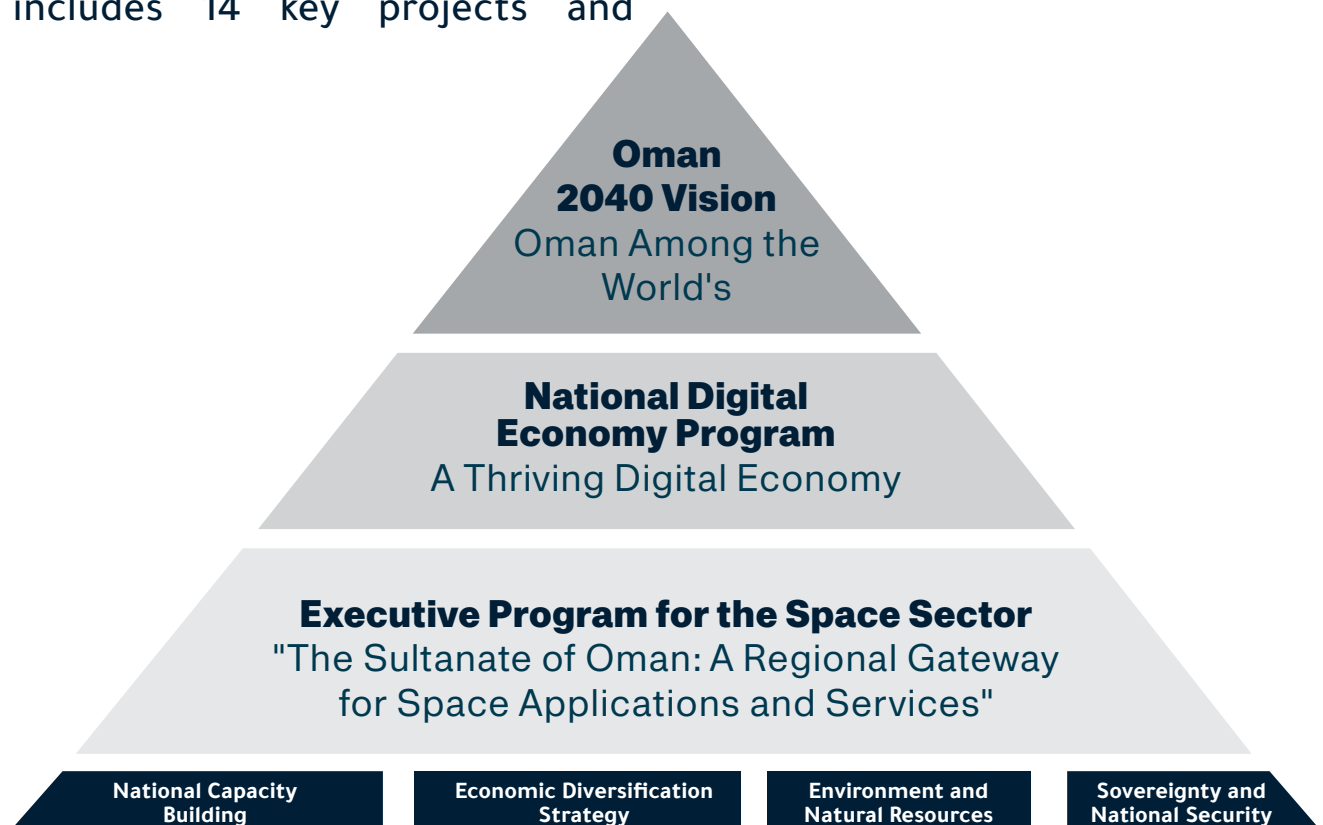
The alignment of the National Space Program with the Digital Economy Program and Oman Vision 2040 maximizes the impact of space technologies as a key enabler of digital transformation and smart services.

It supports national capabilities, private sector growth, economic diversification, and strengthens Oman's position as a regional hub for sustainable space applications.

The National Space Policy focuses on Earth-based applications and includes 14 key projects and

initiatives, offering investment opportunities and enabling active private sector participation through a sustainable, collaborative approach.

It also incorporates key enablers such as capacity building, governance and regulation, as well as international partnerships. Since its launch, the National Space Program has worked closely with local and international partners, achieving steady progress across several strategic initiatives.



Alignment of the Initiatives and Projects of the Omani Space Sector Policy and Executive Program (2033–2023) with Policy Pillars

Policy Pillar



**National
Capacity
Building**



**Economic
Diversification
Strategy**



**Environment
and Natural
Resources**



**Sovereignty
and National
Security**

1 Satellite Communications Project (OmanSat-1)



2 Duqm Rocket Launch Project



3 NASA Space Apps Hackathon



4 Space Science and Technology Corner at the Children's Museum



5 Middle East Space Conference (MESC)



6 Oman Space Accelerator Programme



7 National Capacity Development Program for the Space Sector (2027–2024)



8 Signing of the Artemis Accords



9 Space Engineering Laboratory at Sultan Qaboos University



10 Membership in the International Astronautical Federation (IAF)



11 Astronaut Camp for Youth 2025



12 Drafting of the Omani Space Law Project



13 Omani Private Sector Space Companies Profiling Project



14 Establishment of the Coordination Committee for Space Science and Applications Centers



15 Regulation of Airspace Use for Launch Activities



Oman Space Infrastructure

Establishing a robust infrastructure that lays the foundation for positioning Oman as a regional gateway for space applications and services.

Establishing a robust infrastructure that lays the foundation for positioning Oman as a regional gateway for space applications and services. The government has prioritized developing the space sector's foundational infrastructure to build national capabilities, support investment, and translate strategy into impactful projects.

Accordingly, several strategic national projects have been launched as key pillars of Oman's space sector ecosystem



OmanSat-1 Satellite Communications Project

Establishing a robust infrastructure that lays the foundation for positioning Oman as a regional gateway for space applications and services. OmanSat-1 represents a strategic step toward positioning the Sultanate of Oman as a regional gateway for space applications and services, and a key enabler of economic diversification and sustainable development.



Project Timeline

**November
2025**

Signing of the agreement with Airbus Defence and Space for the design, manufacturing, and launch of the satellite

2026–2029

Execution of satellite design, manufacturing, testing, and launch activities

**2029
(expected)**

Commencement of satellite operations



Management and Operations

The satellite will be managed and operated by the Space Communications Technologies Company, a subsidiary of the Oman Investment Authority.



Economic and Social Impact of the Project

Strengthening national sovereignty over communications and digital data systems

Enhancing nationwide telecommunications coverage

Accelerating the growth of the space sector to enable the digital economy

Developing national capabilities and creating specialized and supporting job opportunities

Enhancing Oman's space diplomacy

Etlaq- Duqm Rocket Launch Project

In line with the collaborative approach adopted by the Ministry, the Duqm experimental rocket launch project represents a strategic investment opportunity emerging from the National Space Policy. It aims to develop a national spaceport for launching experimental and suborbital vehicles, paving the way for commercial launch services by 2027.

Duqm is a promising regional platform for access to outer space. "Etlaq" is a private investment driving space infrastructure and the national space strategy.



Project Owner and Implementing Entity

Implemented by NASCOM in partnership with international space launch service providers.



Key Achievements

The project is progressing as planned with government support and coordination. Key milestones include:

2024

Successful first experimental launch of the "Duqm-1" rocket

2025

Execution of the "Duqm-2" mission, launching the suborbital experimental vehicle "Kia-1" by Stellar Kinetics (without engine ignition)



Project Socio-economic Impact

Creating specialized jobs

Developing national launch capabilities

Supporting tourism and local economic activity

Positioning Oman as a regional launch hub

AMAN-1 Satellite

Empowering the Private Sector and Strengthening Its Participation in Oman's Space Sector In a milestone that embodied the ambition of the Omani private sector to reach space, the **AMAN-1** satellite was launched into Earth orbit in **November 2023**. The mission carried more than just a technological payload—it delivered a clear message that the Sultanate of Oman had begun taking confident steps toward building national space

capabilities and strengthening private sector participation in this promising industry.

AMAN-1, owned by **ETCO Space**, is the **first satellite launched by an Omani** company, representing a significant milestone in the development of Oman's space sector and serving as a catalyst for expanding private sector engagement in space activities and satellite-based applications.

Key Features of AMAN-1

- Built on a compact 3U CubeSat platform, developed through collaboration between ETCO Space, the Polish company SatRev, and other international partners.
- An Earth Observation and Remote Sensing satellite.
- Designed to provide satellite imagery and geospatial data to support government and commercial applications, including environmental monitoring, infrastructure management, and natural resource management.

Oman Lens-1 (OL-1) Satellite

The Oman Lens-1 (OL-1) satellite was launched in November 2024 and is recognized as the first Omani satellite to integrate Artificial Intelligence with Remote Sensing technologies, supporting Earth observation, environmental monitoring, disaster management, and climate change applications.

Key Features of OL-1

- Real-time onboard processing and analysis of satellite imagery using Artificial Intelligence.
- Supports Earth observation applications, including environmental monitoring and natural land cover change detection.
- Equipped with advanced Space Situational Awareness (SSA) capabilities for tracking and monitoring other satellites.
- Features high-performance digital communication systems and a secure end-of-life deorbit mechanism, in line with international best practices for the long-term sustainability of outer space.

National Capacity Building in the Space Sector

His Majesty—may God preserve him—has emphasized the importance of building national capabilities in the space sector through specialized programs to develop national talent. Accordingly, the Ministry has translated these directives into targeted initiatives.

National capacity building is a core pillar of the sector's policy, with the National Space Program focusing on developing Omani talent, empowering youth and entrepreneurs, and advancing knowledge transfer to support the sector's growth. This approach is translated through the following key initiatives and programs:



National Space Sector Capacity Building Program (2024-2027)

In line with the Royal Directives, the National Space Program has launched targeted initiatives to strengthen national capabilities in the space sector.

Royal focus on developing national talent in the space sector.
Integrated pathways to advance sector capabilities.



Program Objectives

Empowering national talent to lead the National Space Strategy

Developing skilled young leaders

Building capabilities of entrepreneurs, SMEs, and researchers

Advancing knowledge transfer and technology localization



Program Tracks

Commercial and Entrepreneurship Track

Academic and Research Track

Professional Track



Training Areas

Policies, strategies, and experimental space project development

Fundamentals of space applications and remote sensing

AI and deep learning in geospatial analytics

Project management and entrepreneurship in the space sector

Earth observation data and cloud computing for monitoring and disaster management

Marketing, entrepreneurship, and financing in the space sector



Key Results

- ▶ **8** specialized training programs delivered (2023-2025)
- ▶ Participation of local training providers in capacity building
- ▶ More than **300** participants trained
- ▶ International experts engaged in program delivery

Oman Space Accelerator Program (OSAP)

The Oman Space Accelerator Program (OSAP) is a key initiative under the national space strategy and the first specialized program in Oman to accelerate space startups. It aims to localize space services, foster innovation, and support entrepreneurship.

In its first 2025 cohort, the program supported 10 startups through a 15-week intensive program, providing advanced technical and business training, expert mentorship, and enabling the development of viable prototypes and connections with investors, culminating in a Demo Day.

**First local
space accelerator
implemented**

**Youth-driven innovation
in space services and
products**



Participation Areas

- ▶ Satellite communications
- ▶ Astronomy and space observation
- ▶ Internet of Things (IoT) and smart communications
- ▶ Remote sensing and AI-enabled geospatial analytics
- ▶ Rockets and propulsion systems
- ▶ Autonomous systems integrated with space solutions



Project Outcomes

- ▶ **15** educational events and stakeholder engagements
- ▶ **12** specialized technical lectures
- ▶ **13** workshops (business, finance, management)
- ▶ **100** hours of one-on-one mentorship
- ▶ **3** pilot projects
- ▶ **1** prototype developed
- ▶ **10** MoUs signed
- ▶ **3** industrial site visits
- ▶ **10** partners/employees supporting startup growth

Space Engineering Laboratory at Sultan Qaboos University

A key national initiative developed in partnership between the Ministry and Sultan Qaboos University to support R&D and build capabilities in the design, manufacturing, and integration of CubeSat technologies. The project also promotes technology transfer and strengthens local expertise in space technologies.



Project Phases

2023 October

MoU signed with Sultan Qaboos University to establish the lab with partial Ministry funding

2024 - 2025

Phase I
establishment of the ground station

2025 - 2027

Phase II
development of lab infrastructure and advanced equipment



Key Results



Ground station established



3 specialized workshops



Satellites



Space mission design



Launch vehicles



Private sector corporate social responsibility (CSR) engagement in laboratory development through funding of a CubeSat program.

Youth Astronauts Camp

As part of the Ministry's efforts to promote space science awareness among youth as future sector talent, the Youth Astronaut Camp serves as an educational initiative supporting early capacity building.

It aims to inspire young participants through a balanced approach combining simplified theoretical learning, hands-on activities, and interactive experiences in space science and technology.



Youth are a strategic priority.



Camps and activities are expanded nationwide.



Camp Details – 2025



Conducted in **4** governorates to ensure wider reach and youth inclusion



80 participants (ages 7-15) benefited from the program



Training workshops held across multiple regions to promote awareness and interest in space science



Training Topics

Introduction to space and exploration

Astronomical observation tools

Astronaut roles and contributions

Spacecraft

Design thinking and space habitats

The future of humans in space

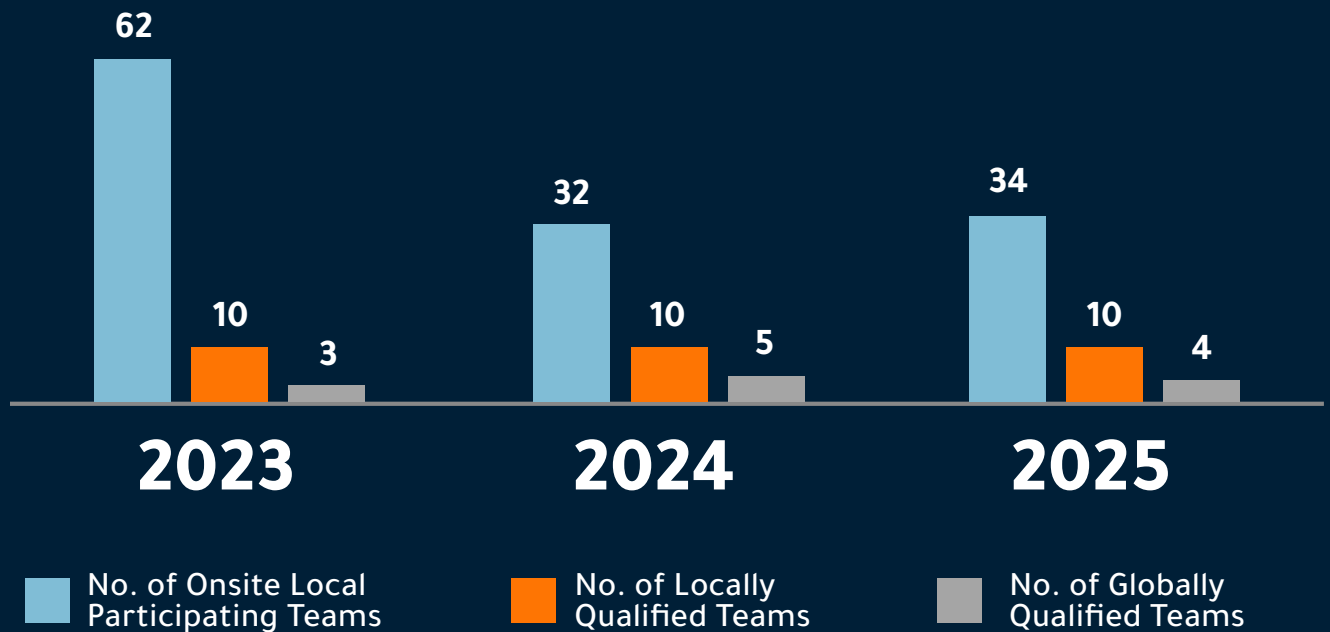
NASA Space Apps Hackathon

An annual initiative supporting youth innovation and collaboration in space science, organized by MTCIT and UTAS in partnership with key stakeholders.

This Hackathon bring together teams of young people to work on a series of challenges published by NASA. Mixed teams work on a 48 hour sprint project to design and deliver a prototype solution.



Key Results



Source: Reports on the NASA Space Apps Hackathon 2024 and 2025, University of Technology and Applied Sciences.

Space Science and Technology Corner at the Children's Museum

The Ministry, in collaboration with the Ministry of Culture, Sports and Youth, developed the Space Corner to inspire youth, with private sector support. Daleel Petroleum funded Phase I, and Oman LNG funded Phase II.

Children are a key focus of national efforts to promote space science awareness.



Program Objectives



Inspire youth in space science



Raise awareness of the space sector's impact



Promote STEM and space applications



International Relations & Investment Attraction

A strategic focus on partnerships and investment to accelerate growth, transfer knowledge, and strengthen Oman's global position in the space sector.

Middle East Space Conference (MESC)

A biennial event organized by the Ministry with Novaspace to position Oman as a regional hub for space applications and services.

Oman is strengthening its space sector, leveraging its strategic location.



Conference Objectives

- Global platform for stakeholders
- Promote dialogue, investment, and innovation
- Accelerate technology transfer
- Support a knowledge-based economy

Since its launch in 2024, and its second edition in Muscat in 2026, the conference has become a leading regional platform, attracting broad participation and growing international interest, as reflected in the following indicators.



Signing of Accession to the Artemis Accords

26 Jan 2026

This step underscores Oman's commitment to global engagement in the space sector and to the peaceful and responsible use of outer space

Oman

61st

member of the Artemis Accords



Objectives of the Agreement

Strengthen global positioning

Support lunar and future Mars missions

Establish frameworks for civil space activities

Empower talent and enhance cooperation



Membership in the International Astronautical Federation (IAF)

October 2024

Significance of Membership

Knowledge exchange through various activities

Strengthening international collaboration in space exploration

Partnerships and joint projects

Providing a platform for engagement with global experts

Supporting professional development through training programs and initiatives



Omani Space Sector Economic Growth

Since the launch of the National Space Strategy, the sector has progressed from foundation-building to a growing market, driven by rising investment, more companies, and diversified services.

Private Space Sector Directory 2025

Growth is tracked through an annual survey by the National Space Program, alongside the publication of a space sector company directory for 2024 and 2025.

The Omani space sector is progressing toward achieving economic diversification objectives.

Value Chain of the Omani Space Sector

Drone and Space Services & Applications



training Consultancy



communication Services



Remote Sensing Operators



Launch Site



Omani Space Sector Regulations and Legislation

Aligned with international standards, the Ministry has prioritized developing the legislative framework for the space sector, including the following initiatives:



Project for the Development of the Omani Space Law

The Ministry, in coordination with relevant entities, has initiated the drafting of the Omani Space Law and its supporting regulatory frameworks to ensure compliance with international obligations, enhance investor confidence, and establish a balanced and enabling environment for sustainable growth.

Strong national focus and institutional alignment to ensure a robust legislative framework for the space sector.

Regulation of Airspace Use for Launch Activities

Issuance of Airspace Regulation for Launch Activities (CAD 5-01)

The Civil Aviation Authority issued regulations governing airspace use for launch activities, requiring operators to submit airspace requests at least 45 working days prior to launch, accompanied by a Subject Matter Expert (SME).

This ensures the highest safety standards through coordinated efforts between Etlaq Spaceport and the Ministry, including airspace assessments, weather conditions, and operational safety requirement.

Stakeholder Integration and Alignment

The Ministry follows an integrated approach, aligning stakeholders to accelerate delivery and maximize the national impact of space initiatives, including:

▶ **5 government entities involved**

▶ **Ongoing coordination and regular meetings to advance the sector**

Establishment of the Coordination Committee for Space Science and Applications Centers

The committee was established under Ministerial Decision No. (80/2024) to enhance institutional integration and support a connected and sustainable national space ecosystem.

▶ **Strengthen coordination among national space centers**

▶ **Promote sharing of resources, knowledge, and expertise**

▶ **Maximize the use of national capabilities**

▶ **Facilitate the implementation of national space projects**

Conclusion

Achievements in 2025 confirm that Oman's space sector is advancing rapidly toward operational maturity, supported by growing infrastructure, emerging national capabilities, strong international partnerships, and an evolving regulatory framework.

The Ministry, through the National Space Program and in collaboration with its partners, will continue implementing the National Space Policy, strengthening Oman's position in the global space economy and supporting the objectives of Oman Vision 2040.

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digital infrastructure



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utilizing the Ka-band to
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confidentiality, and reliability.



Cross-Border Communications Network

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GCC countries and
neighboring nations
- **Extended Reach:**
Turkey, Armenia, and
Azerbaijan



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National Center for Space Advance Digital Technologies and AI

**National Space Program
Achievements
2023-2025**

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