



وكالة الإمارات للفضاء
UAE SPACE AGENCY

Part I: General Update on UAE Space Program Development

APRSAF-24

16 Nov 2017





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UAE SPACE AGENCY

Part II: UAE Regulatory Approach for Space Activities

APRSAF-24 (Nov-2017)

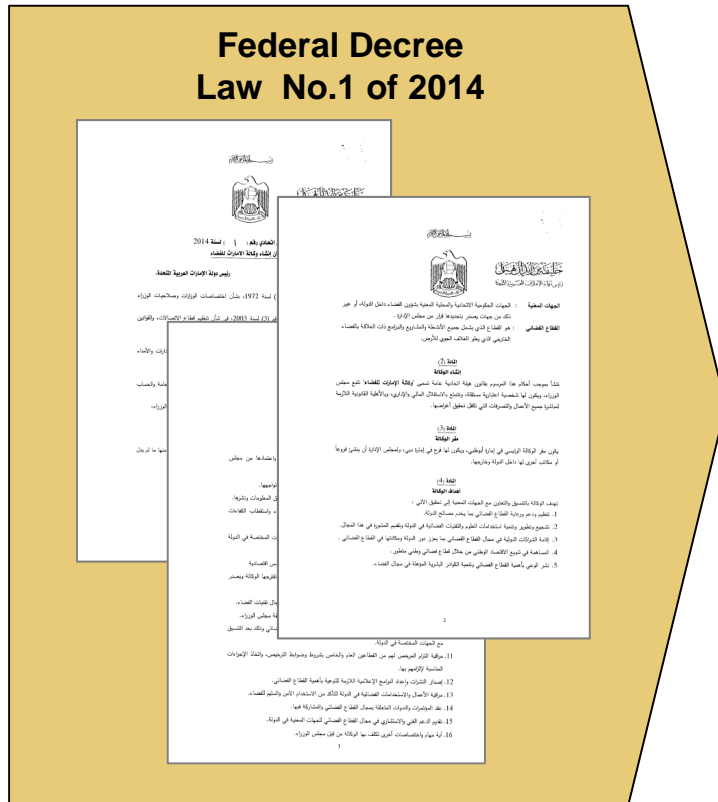
By: Space Policy and Regulations Directory

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Federal Decree Law No.1 of 2014 establishes the UAE Space Agency

UAE Space Agency Objectives as Defined by the Decree*



- ### Agency Objectives*
- 1 **Organize, support and guide the Space sector to serve the interests of the State**
 - 2 **Encourage the development and use of Space science and technology within the State and provide advice in this area**
 - 3 **Establish international partnerships in the Space sector so as to enhance the State's role and status in the Space sector**
 - 4 **Contribute to the diversification of the national economy through a developed national Space sector**
 - 5 **Raise awareness of the importance of the Space sector and the development of the qualified human resources in the Space field**

*this is translation from Official Law In Arabic Language

Why Space Policy and Regulatory Framework

Transparency

Ensure Safety, security, and environment protection

Healthy competition

Cooperation and harmonization

Economy of scale

Trust and attractiveness for investors

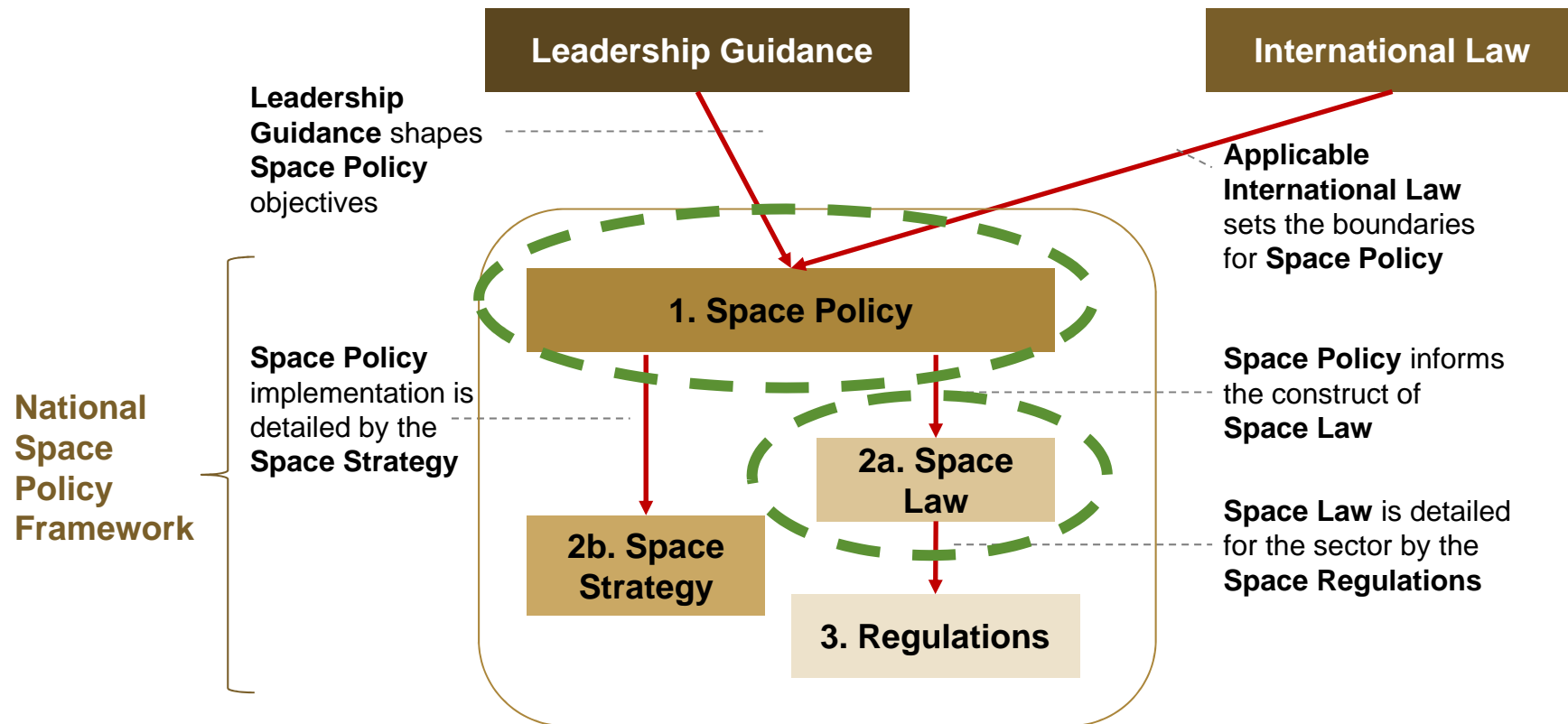
Monitor Performance and Learning curve



- ✓ **Maximize benefit from space**
- ✓ **Long Term Sustainability**



Development of UAE Space Policy and Regulatory Framework



1. Other inputs used in developing the Regulations include international regulations, national space regulations of other countries and UAE national regulations from other sectors
 Source: UAE Space Agency, & associated experts

The multiple studies and sources collectively inform all of the issuances

Sources used to develop the National Regulatory Framework



The aim of the policy – to build a strong and sustainable UAE space sector – will be explained in five content sections

Policy Content

The Ultimate goal of the Space Program...

... to build a strong and sustainable UAE space sector that:

- supports and protects national interests and vital industries;
- contributes to the diversification and growth of the economy;
- boosts UAE specialized competencies;
- develops scientific and technological capabilities;
- engrains the culture of innovation and national pride, and
- strengthens UAE's status and role regionally and globally.

Main content of the Policy

- 1 Principles**
- 2 Goals**
- 3 Enablers**
- 4 Guidelines**
- 5 Implementation and governance**



The Policy Defines 5 Principles, 5 Goals and 8 Enablers for the UAE Space Program..

1 Principles

P1. Enhance the Lives of our Citizens

P2. Support UAE National Interests

P3. Support Growth and Diversification of our Economy

P4. Promote Collaboration and Support UAE status

P5. Respect International Laws and Treaties

2 Goals

G1. Expand the Utilization of Space to Protect and Support Vital Sectors

G2. Develop a Sustainable, Competitive and Innovative Commercial Space Industry

G3. Conduct Scientific Space Missions

G4. Promote a Safe and Stable Space Environment

G5. Establish and Expand UAE's Leadership in Space

3 Enablers

E1. Continuous Awareness of the Importance of Space and its Activities

E2. Qualified UAE Space Professionals

E3. Effective and Attractive Space Regulatory Environment

E4. Active Management of Radiofrequency and Satellite Orbital Resources

E5. Effective Science, Technology and Innovation Programs

E6. National, Regional and Global Collaborations, Coordination and Partnerships

E7. Adequate Investment and Financial Support

E8. Supporting Facilities and Infrastructure

The Guidelines provide direction to stakeholders on activities needed to support and develop the sector

4 Guidelines

GL1. National functions guidelines

- Provide support to national security capabilities
- Enhance national capabilities for disaster monitoring and response
- Support national activities in humanitarian aid
- Provide support to key UAE industries
- Utilizing space technology to improve the quality of life of UAE people
- Support national capabilities for natural resources management
- Support national initiatives for smart cities and e-government
- Support international efforts for promotion of sustainable space activities

GL2. Science, technology and exploration guidelines

- Develop and encourage UAE scientific and aerospace engineering professionals
- Enhance land and climate observation and support environment protection
- Support national space technology development
- Create programs to support space exploration efforts
- Embark on space programs that increase UAE's status in this field

GL3. Commercial sector guidelines

- Promote UAE products and services
- Support economic diversification and develop new markets
- Create a competitive and sustainable commercial space industry
- Promote and sustain innovation
- Promote creative entrepreneurship and commercial space projects
- Support the development of space industry standards

5 Implementation and governance

- Effective stewardship by the UAE Space Agency
- Active stakeholder involvement and coordination
- Assessment to identify gaps and opportunities
- Review and revision of the Space Policy

Final Approval Phase

Law Ultimate Goal (*...under development*)

... to create attractive and responsive regulatory environment for space sector that:

- In harmony with national legislation system and augment as necessary*
- Adequately balances between the safety & security & environment requirements and the economic & commercial & innovation requirements;*
- Respect international law;*

Final Approval Phase

Space Law Structure (under development...)

- **The Preamble**
- **Article 1 – Definitions**
- **Article 2 – Scope of Application**
- **Article 3 – Competences of the Agency**
- **Article 4 – Authorization of Space Activities**
- **Article 5 – Liability**
- **Article 6 – Space debris mitigation**
- **Article 7 – National registry of Space objects and international registration**
- **Article 8 – Manned Spaceflight**
- **Article 9 – Remote sensing data management**
- **Article 10 – Investigation of space-related accidents and incidents**
- **Article 11 – Exploration and Utilization of Space Resources**
- **Article 12 – Collaboration with Governmental entities**
- **Article 13 – Fees**
- **Article 14 – Fines and Sanctions**
- **Article 15 – Transitional provisions**
- **Article 16 – Final provisions**

Consultation Phase

- ❖ The Regulations complements the Space Activities Law and detailing different space regulatory aspects
- ❖ Five basic Regulations were identified to start regulating Space Activities:

i. Space Object Registration

- Set out the legislations and procedures to register a UAE Space Object in the National Registry and the UN International Registry

ii. Accident and Incident Investigation

- Set out the legislations and procedures in case of occurrence of Space related Accidents and Incidents in which the UAE is an incitant or affected 3rd party

iii. Authorization of Space Activities

- Set out the different types of Authorizations, terms and conditions and procedure to obtain a Space Activity Authorization

iv. Manned Space Flights

- Set out terms, conditions and procedures required to commence orbital and sub-orbital Space Flights with human on board

v. Auditing Framework

- Set out the legislations and procedures of Auditing operators on compliance to terms, conditions and regulations issued by the UAE-SA



Thank you

