

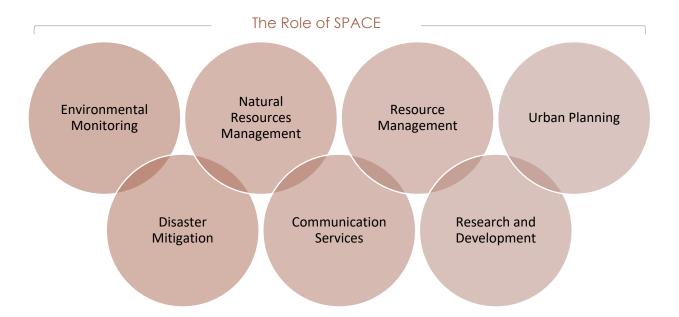
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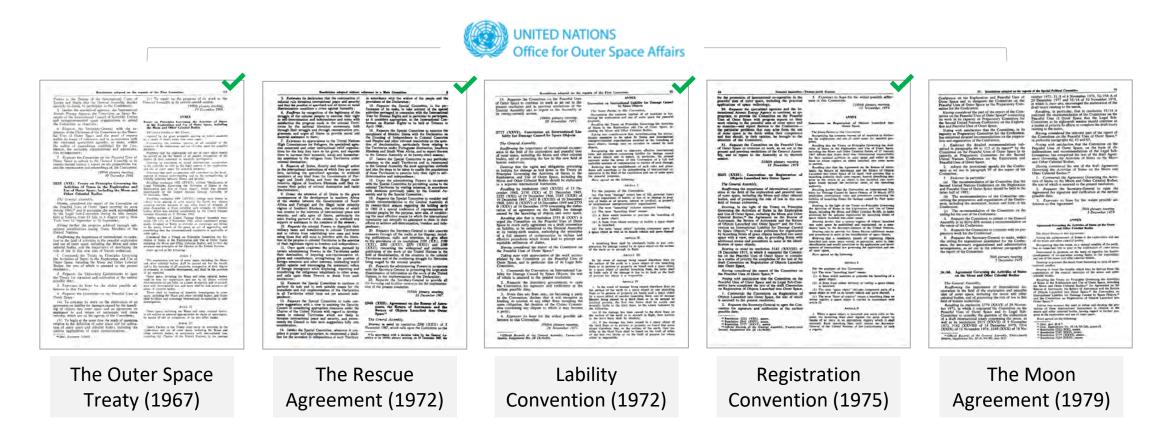
## **International Law | Meaning and Scope of Space Law**

### Scope of Space Law

- Rules, Principles and Standards of International Law appearing in Five International Treaties.
- International Agreements, Treaties, and Conventions.
- Executive and administrative order and judicial decisions.
- National Laws, rules and regulations.
- Rules and Regulations of International Organizations.



### **International Law | Five International Treaties**



Generally, UNOOSA Treaties, Resolutions, Principals, and Recommendations Applies to all Space Activities.

### **International Law | States Obligations**



Responsibility for their national activities

Responsibility of Authorizing their national activities.

Responsibility to rescue astronauts and return them safely to their homelands.

Responsibility to register their Space Objects.

Responsibility for damage caused by their space objects.

States are prohibited from weaponizing space or using weapons of mass destruction.

Disputes are resolved by diplomatic means.

## **National Efforts | Role of UAE Space Agency**

UAE Federal Entity, established in 2014

### **Mandates**



Vision

We proudly look to the future of the United Arab Emirates as a leader in space, and we inspire our future generations for the benefit of the nation and humankind



To organize and guide the space sector, to contribute to the national economy and to aid sustainable development, to prepare generations of highly skilled professionals and to develop research,

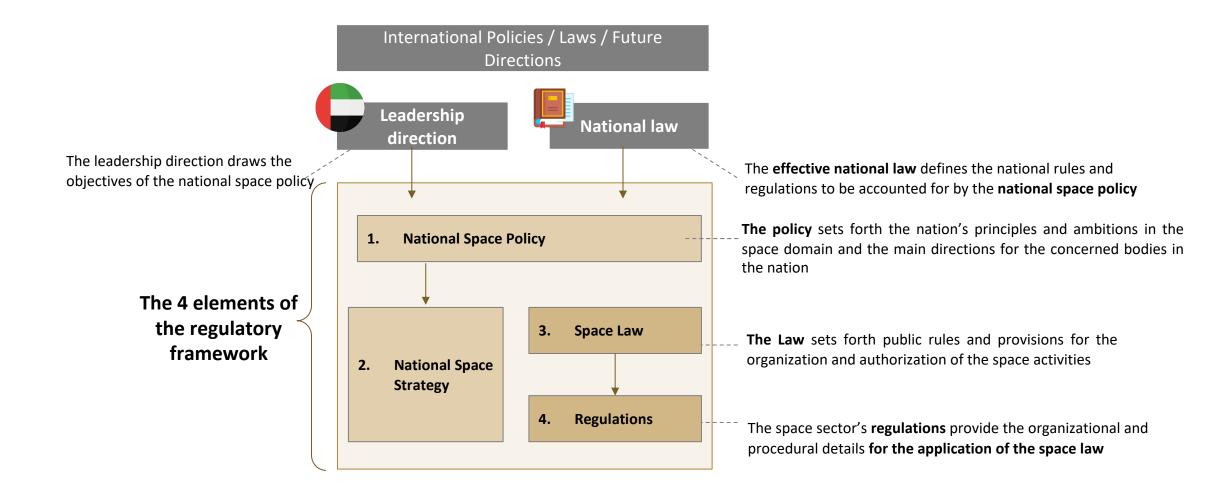
space programs and strategic partnerships in the field of space



**Values** 

Excellence, Collaboration, Innovation, Commitment, National pride, and Integrity

## **National Efforts | National Regulatory Framework**

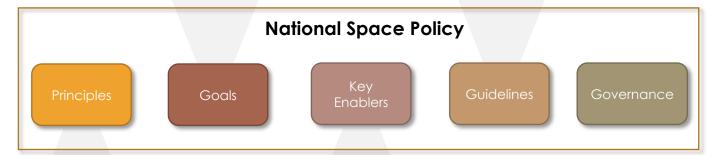


### **National Efforts | UAE Space Policy**

The UAE National Space Policy was issued in September 2016

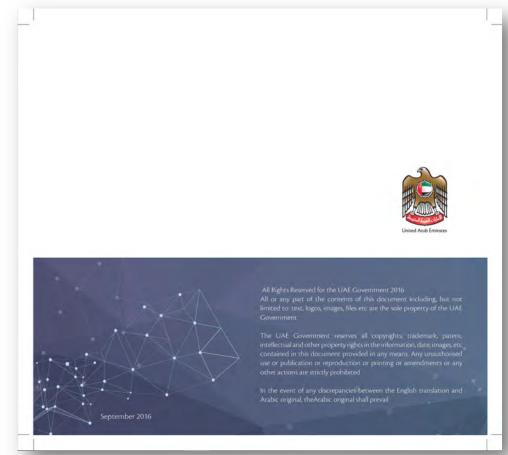
- ✓ Develop a Sustainable, Competitive and Innovative Commercial Space Industry
- ✓ Promote a Safe and Stable Space Environment

- ✓ Commercial Sector Guidelines
- ✓ Science, Technology and Exploration Guidelines
- ✓ National Functions Guidelines



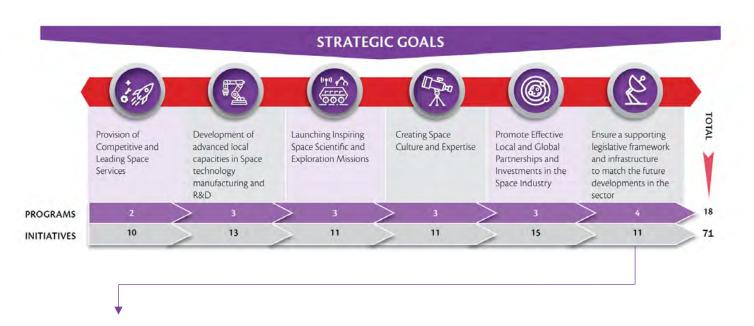
- ✓ Support Growth and Diversification of our Economy
- ✓ Respect International Laws and Treaties

- ✓ Continuous Awareness of the Importance of Space and its Activities
- ✓ Effective and Attractive Space Regulatory Environment
- ✓ National, Regional and Global Collaborations, Coordination and Partnerships



## **National Efforts | UAE National Space Strategy**

The UAE National Space Strategy was launched in March 2019





### **Examples:**

- Initiative 6.1.1 Develop the regulatory framework for the space sector and monitor compliance
- **Initiative 6.1.2** Develop the authorization system for space activities
- **Initiative 6.1.3** Establish a mechanism to ensure effective participation on an international level through paper work and reports on the state's efforts

## National Efforts | Federal Law No. (12) of 2019 on the Regulation of the Space Sector

### Overview:

- (9) chapters
- (54) articles
- It lays down the foundations and general rules relating to Authorization of space activities and related activities, registration of space objects and vehicles, insurance and guarantees, Audit and penalties.

# Objectives of the Law



Promote and enable the participation of the private and academic sectors.

Support safety, security, and environment protection.



Promote transparency and the conformity with the international conventions.

#### Federal Law No. (12) of 2019

Issued on 19/12/2019

Corresponding to 22 Rabi' Al-Akhar 1441H.

ON THE REGULATION OF THE SPACE SECTOR

#### Abrogating:

#### Federal Decree-Law No. 1/2014 dated 06/08/2014

We, Khalifa bin Zayed Al Nahyan, President of the United Arab Emirates;

- Pursuant to the perusal of the Constitution;
- Federal Law No. (1) of 1972 Competencies of the Ministries and Powers of the Ministers and its amendments
- Federal Law No. (3) of 1987 promulgating the Penal Code and its amendments;
- Federal Law No. (20) of 1991 promulgating the Civil Aviation Law;
- Federal Law No. (11) of 1992 promulgating the Civil Procedures Law and its amendments
- Federal Law No. (35) of 1992 promulgating the Criminal Procedures Law and its amendments
- Federal Law No. (4) of 1996 on the General Civil Aviation Authority and its amendments
- Federal Law No. (7) of 2002 on copyrights and neighbouring rights and its amendments;
- Federal Law No. (17) of 2002 on the Regulation and Protection of Industrial Property Rights for Patents and Industrial Designs and Models and amendments;
- Federal Decree-Law No. (3) of 2003 n the Regulation of Telecommunication Sector and its amendments;
- Federal Law No. (13) of 2007 concerning the Goods Subject to Import and Export Control and its amendments;
- Federal Decree-Law No. (6) of 2009 on Peaceful Uses of Nuclear Power;
- Federal Law No. (1) of 2011 on Public Revenues of the State
- Federal Decree-Law No. (5) of 2011 on the Regulation of the Boards of Directors, Boards of Trustees and Committees in the Federal Government;
- Federal Law No. (8) of 2011 on the Re-organisation of the State Audit Institution;
- Federal Decree-Law No. (8) of 2011 on the Rules for the Preparation of the Public Budget and Final Accounts;
   Federal Decree-Law No. (5) of 2012 on Combating IT Crimes and its amendments:
- Federal Decree-Law No. (1) of 2014 on the Establishment of the Emirates Space Agency.
- Federal Law No. (14) of 2016 on Violations and Administrative Penalties in the Federal Governmen
- Federal Decree-Law No. (8) of 2017 on Value Added Tax;
- Federal Decree No. (85) of 2000 on the Treaty on Principles Governing the Activities of States in the Exploration and Use of Outer Space, including the Moon and Other Celestial Bodies, and the Two Agreements Concerning These Activities;

 Federal Decree No. (77) of 2017 on the Accession of the State to the Agreement on the Rescue of Astronauts, the Return of Astronauts and the Return of Objects Launched into Outer Space; and

Based on the presentation of the Minister of State - Chairman of the Board of Directors of the Emirates Space Agency, and the approval of the Council of Ministers and the Federal National Council, and the ratification of the Federal Supreme Council.

#### Hereby issues the following Law

#### Chapter 1 General Provisions

#### Article 1 - Definitions

In the application of the provisions of this Law, the following terms and expressions shall have the meanings assigned against each, unless the context requires otherwise:

State: The United Arab Emirates

State's Territory: The State's lands, territorial sea, and airspace above it, including free zones or any areas of a special economic status.

Government Entities: Ministries, public authorities and institutions, and other federal or local government geneics in the State.

## National Efforts | Federal Law No. (12) of 2019 on the Regulation of the Space Sector

All Space activities Conducted on or from the territory or facilities of the UAE.

Vessels or airplanes registered with the State, or Space objects registered by the State.

Persons or juridical entities with the nationality of the UAE.

## **National Efforts | Regulated Activities**

Launch and Re-entry.

Removal or disposal of the Space object from orbit.

Operation of Launch or Re-entry –sites.

Operation of Space objects, including the control of said objects.

Space telecommunication activities.

Space Navigation or Remote sensing or earth observation activities.

Space situational awareness activities, including monitoring and tracking of Space objects.

Exploration or extraction of Space resources.

Space resources exploitation and utilization activities.

Logistics support services in Outer Space.

Scientific exploration of space and conducting scientific experiments related to space, including participation in astronomy activities.

Human Space-flight, or prolonged human stay in space, or construction, or use of installations in space, or on the surface of celestial bodies permanently or temporarily.

The manufacture, assembly, integration, examination, transfer or disposal of space technology.

Any other space activities determined by a decision of the Council of Ministers upon the proposal of the Board of Directors.



## **National Efforts | Regulated Activities**

### Other activities related to the Space sector shall include:

Space—support Flights and Highaltitude activities, which are not subject to the Federal Law No. (20) of 1991, whether are carried out on the State's territory or involved an airplane or flight vehicle registered in the State.

Space data management activities, including: receiving, or storing, or processing, or distributing, or archiving, or disposing any space data.

Collecting or trading Meteorite stone falling in the State's territory. .

Specialized training programs related to space fields by non-governmental organizations.

Any other activity related to the Space sector, shall be issued by a decision of the Council of Ministers, based on the proposal of the Board of Directors.



### **Impact Factors | Space Law**



**Regulating Industrial Sectors** 

# Important international organizations related to space policy:

- ✓ United Nations Office for Outer Space Affairs
- ✓ United Nations General Assembly
- ✓ Organization for Disarmament
- ✓ International Telecommunication Union
- ✓ ICAO



**Regulating Industrial Sectors** 



Countries with ambitious space related programs are constantly developing facilities and infrastructure to support their space related activities



Increase in the number of risks of the space environment and importance of organizing and coordinating space activities and enhancing the efficiency of operations.

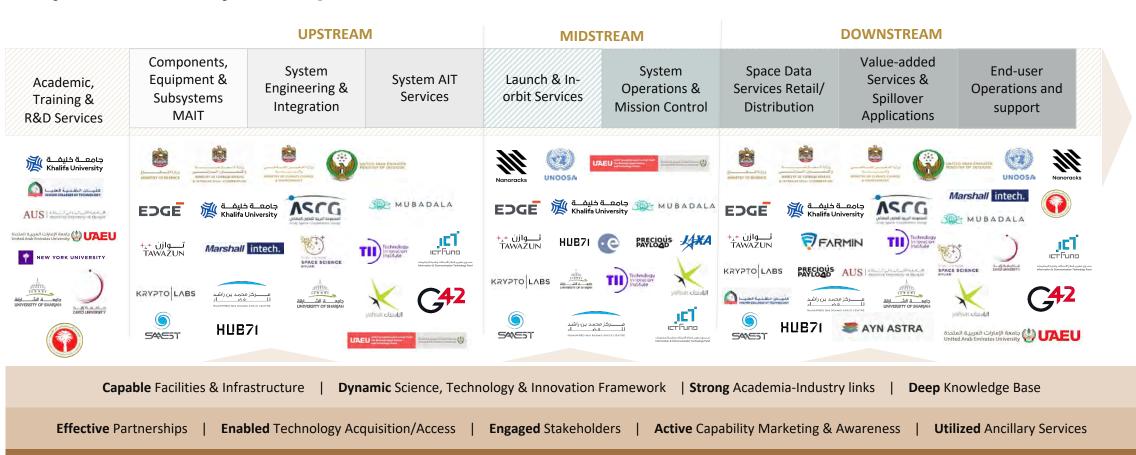


It is important to balance the security, safety, environmental and commercial requirements.

VALUE

**CHAIN** 

### **Impact Factors | UAE Space Sector Value Chain**

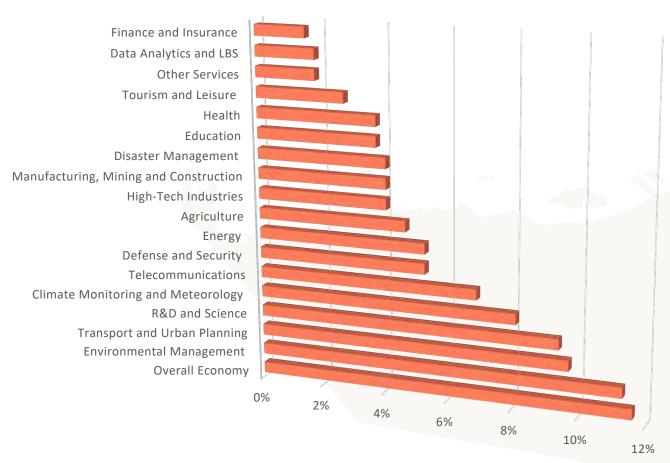


Facilitating Policies & Regulations | Attractive Investment Landscape | Sustainable Funds

KEY ENABLERS

## **Impact Factors | Other Sectors**

Sectors benefiting from socio-economic effects derived from space services and applications



1859

Number of service contracts provided by UAE Space Entities in 2019, an increase of 162% from 2017 records.

As per the Annual Assessment of UAE Space Economy – Conducted by UAESA in cooperation with FCSC.

## **Summary & Conclusions**

### Benefits derived from Space Technology Transfers

Productivity/ **Revenues Generated Jobs Created Lives Improved Lives Saved Efficiency Gains** Quantification of saved Number of people whose Estimation of revenues Number of lives not lost as and/or avoided costs due lives have been extended. generated by a company Number of people hired a result of a product or to the use of spaceenhanced and/or improved producing or offering a to produce or use a service that is a direct derived products or by a product or service product or service that is space-derived product or application or spin-off of services, either by the that is a direct application a spin-off of space service. space technology. company or by its or spin-off of space technology. technology. customers. Indirect Effects from Space Programs (Technological, Commercial, Organizational, Work factor effects)