UAE Capacity Building and International Collaborations via Space Projects
UAE National Space Strategy

1) To provide competitive and world-leading space services

2) Develop local advanced capabilities in research, development and manufacturing of space technology

3) Launch inspiring scientific and exploration space missions

4) To build experience and a national culture and in space

5) Promote effective local and global partnerships and investments in the industry

6) Ensure a supportive and legislative infrastructure that keeps pace with the future developments of the industry

Vision

The UAE to be among the leading and most advanced countries in the field of space

6 Objectives

71 Initiatives

18 Programs
UAE Space Agency Strategic Objectives

Organize and develop the National Space Sector which in return would help in supporting the sustainable national economy.

وتطوير القطاع الفضائي الوطني بما يساهم في دعم الاقتصاد الوطني المستدام.

Development of human resources and supporting research and development projects in the space sector.

تنمية الكوادر البشرية ودعم مشاريع البحث والتطوير في قطاع الفضاء.

To promote and highlight the role of the Country on the regional and global space map.

تعزيز وإبراز دور الدولة على الخريطة الفضائية إقليمياً وعالمياً.

Ensuring the provision of all administrative services in accordance with quality, efficiency and transparency standards.

ضمان تقديم كافة الخدمات الإدارية وفق معايير الجودة والكفاءة والشفافية.

Foster a culture of innovation in the institutional work environment.

تشجيع ثقافة الابتكار بيئة العمل المؤسسي.
The ST&I areas have been categorized into three groups to guide R&D efforts and the allocation of funding for maximum benefit.

**Group 1**
ST&I Areas relevant to national indigenous capabilities build up and short term requirements.

1.0 Launch Propulsion Systems
2.0 In-Space Propulsion Technologies
3.0 Space Power and Energy Storage
4.0 Robotics and Autonomous Systems
5.0 Communications, Navigation, and Debris Tracking
6.0 Software and Applications

**Group 2**
ST&I Areas relevant to Extending Human in Space and long term requirements

6.0 Human Health, Life Support, and Habitation Systems
7.0 Human Exploration Destination Systems
16.0 Life and Physical Sciences
9.0 Space Entry, Descent, and Landing

**Group 3**
ST&I Areas have less immediate requirements

13.0 Ground and Launch Systems Processing
14.0 Thermal Management Systems
18.0 Ground Station Systems and Networks
Knowledge Management and Space Centres
National Capacity Building
Deep Space Mission

Scientific / RF Communication / Remote Sensing LEO Missions

Hope Probe 2020

DubaiSat I 2009
DubaiSat II 2013
KhalifaSat 2018

NayifSat 2017
MySat 1 2018
MeznSat 2020

RF Communication Technology Demonstrator 2021/2022
RAADSat 2020
MySat 2 TBD
GRSS Sat 2022
March 2019, during the Global Space Congress in Abu Dhabi, His Highness Sheikh Mohamed bin Rashid Al Maktoum announced the Arab Space Cooperation Group of 11 Arab countries and announced the Satellite project “813”
• Capacity building and international collaborations are commitments embraced at the national strategic level.

• Capacity building activities can be increased through increased funding of space research and development projects.

• Space projects are great means of enabling capacity building and international collaborations.

Conclusion & Summary