



The UAE in Space

From a vision to reality

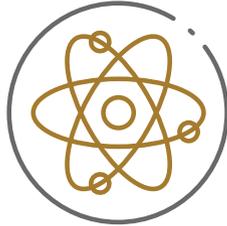


Sustainability in space and benefit for all

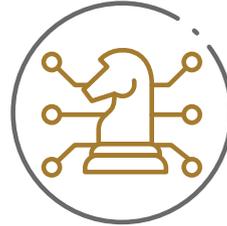
Policy and international collaboration



Why Space in UAE?



Scientific



Strategic



Economic

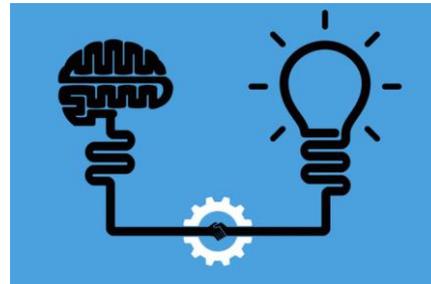


Social

Innovation



Innovation



Cooperation



The UAE has long recognized the importance of space for the benefit of all

Introduction



Entities Working in
UAE Space Economy



UAE Space Agency



2 Operators



Emirates Mars Mission
Hope Probe



Astronaut Program



5 Space R&D Centers



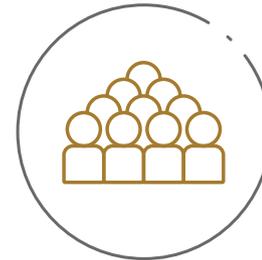
3 Universities
Universities offering
space programs



22B Dirhams
Investment in space sector



12 Satellites in-orbit
6 in progress



3000 People

UAE Space Sector Regulations

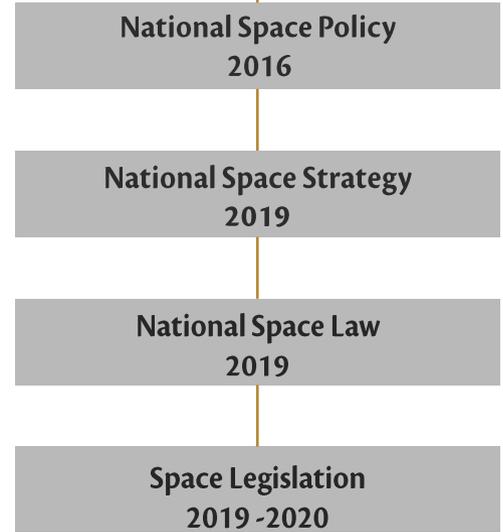


UAE has signed 4 main Space UN treaties

- ✦ Outer Space Treaty
- ✦ Liability Convention
- ✦ Registration Convention
- ✦ Rescue Agreement



The UAE Space Agency is an active member of:
COPUOS, ISECG, GEO, Disaster Charter, IPDA, IAF and more.





Training & Development Programs



Research and Development



Space Degree Programs in UAE



Scholarships and Sponsorships



Awareness & Outreach

وكالة الإمارات للفضاء
UAE SPACE AGENCY

Research and Development & Space Projects



UAEU

المركز الوطني لعلوم وتكنولوجيا الفضاء
The National Space Science
and Technology Center

جامعة الإمارات العربية المتحدة
United Arab Emirates University

National Space Science and Technology Center



Sharjah Center for Astronomy & Space Sciences



Khalifa University Space Technology and Innovation
Center



CENTER FOR
SPACE SCIENCE
NYUAD

Center for Space Science at
New York University Abu
Dhabi



مركز محمد بن راشد
للفضاء

MOHAMMED BIN RASHID SPACE CENTRE

MBRSC Research Center

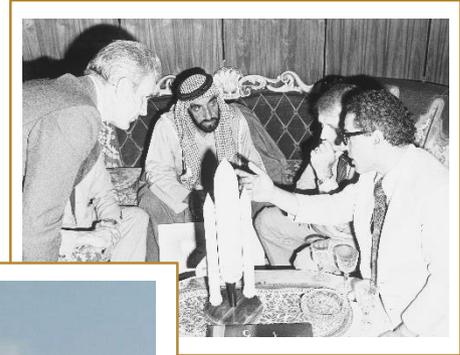


جامعة زايد
ZAYED UNIVERSITY

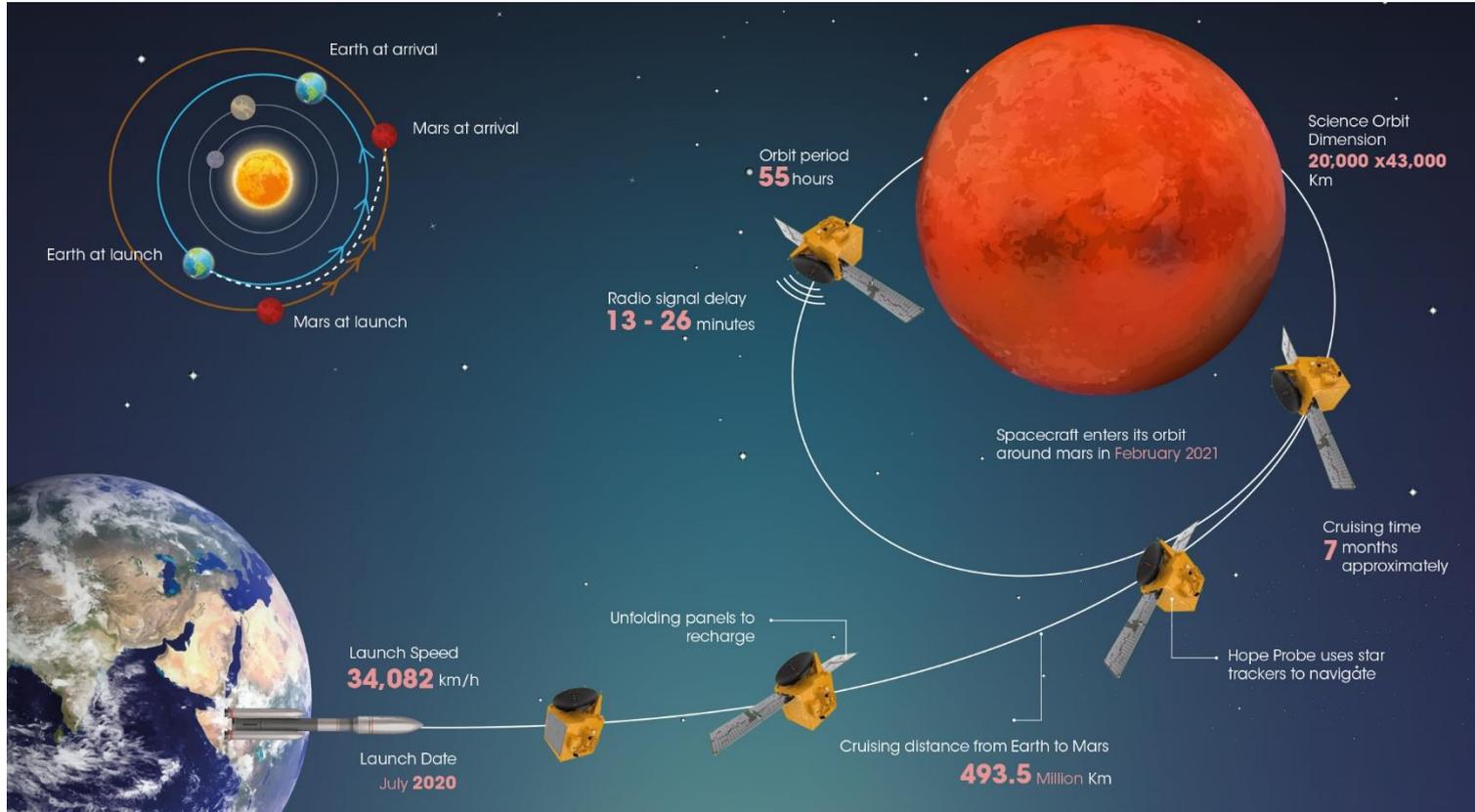
Emirates Mars Mission



Successfully launched on :
20 July 2020



“The Hope Probe journey ”



2015

Defining Science Objectives

2016-2017

Spacecraft design

2018

Manufacturing

2019

Assembly & Testing

2020

Launch & journey to Mars

2021-2024

Mars Orbit Insertion and Observations

UAE National Astronauts Program

Sustainable Human Space Flight Program:

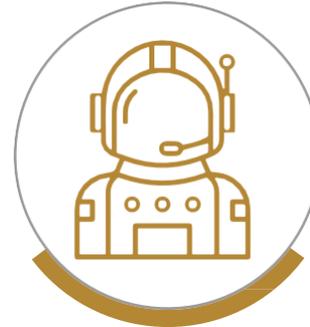


Hazzaa Al Mansoori



Sultan Al Neyadi

4000 Applicants



34% Women

2018

Selection

2018 - 2019

Training

25 Sept 2019

Flight to ISS

Over 4,300 applications for the second round of UAE Astronaut Program

International Partnerships & Collaboration

Space depends on regional and international cooperation

	Algeria		Egypt		Japan		Sweden
	Australia and Gov. of South Australia		France		Kazakhstan		Ukraine
	Bahrain		Germany		Korea		UK
	Belgium		Greece		KSA		USA
	Canada		India		Luxemburg		United Nations Office for Out of Space Affairs
	China		Italy		Russia		

More than 34 international agreements and memoranda of understanding have been signed, facilitating international collaboration.



Arab Space Cooperation Group

The Arab Space Cooperation Group is an Arab initiative launched by HH Sheikh Mohammed bin Rashid Al Maktoum (March 2019). It is led by the UAE and comprises 14 Arab countries. The group is working to consolidate the strengths and capabilities of the Arab world in order to enhance its contribution to the global space sector and space science research and development. The group's first ambitious collaborative project is the "813" satellite.

Strategic Objectives:

- Support and encourage Arab space programs and activities.
- Create a balance between regional groups on the international space scene.
- Nucleus for establishing a bigger and stronger Arab bloc in the future.
- Supporting the leadership of the Arab world in the field of space activities.



Arab Space Pioneers Program

نوابغ
الفضاء
العرب



Launch The Arab Space Pioneers Program was launched by HH Sheikh Mohammed bin Rashid Al Maktoum through his account on Twitter on 4th July 2020

Vision To build Arab expertise in the fields of space science and advanced technologies.

- Messages**
- To inspire and encourage Arab youth to study advanced sciences and technologies.
 - Educating, training and refining the skills of promising talents in the Arab world in the field of space.
 - Building capacity for the youth of the Arab world, its scientists and experts in the field of space science and technology.
 - Stimulating the aspect of scientific and technological space research and development in order to contribute to the sustainable development of the region.
 - Supporting the soft power file of the state at the regional and global levels.





Thank You!

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