

وكالة الإمارات للفضاء  
UAE SPACE AGENCY



# The UAE Space Program



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# The UAE Space Sector

**UAE has a strong existing Space Sector with:**

**\$5 Billion worth of space investment with around 10% growth.**

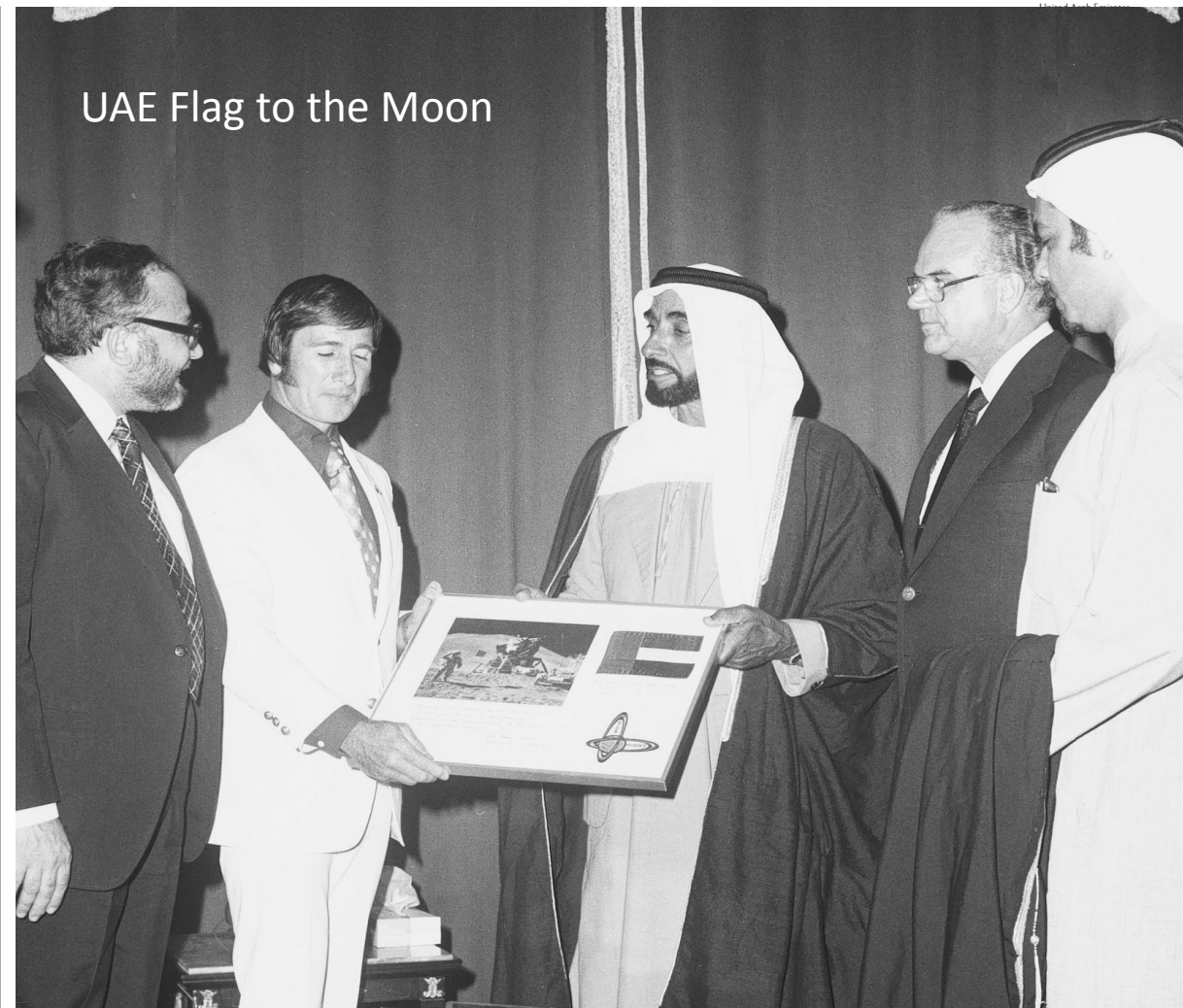
- **4 major actors:** UAE Space Agency, YahSat, Thuraya and Mohamed Bin Rashid Space Center
- **6 satellites** on orbit (2 FSS ComSat, 2 MSS ComSat 2 remote sensing)
- **4 more satellites** in projects (ComSat and Remote Sensing)
- **First Arab/Islamic planetary mission** (Mars mission “ The Hope”)
- **4 Space Research Center** ( 8 CubeSats with Academia)
- Around **60 Space stakeholders** (Government, Industry, Academia)
- **UAE is Regional Space Hub:** Space services & technologies, education and events



# The UAE Space Journey

From Dream to Reality!

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The Journey started mid 70's: education, satellites programs, space agency, mission to Mars ..... more to come.



Establish Aug 2014, First SA in the region:

## Vision

**To proudly craft the future of the United Arab Emirates as a leader in space and inspire our future generations for the benefit of the nation and humankind**

## UAE SA Primary Objectives:

- **Regulate** the Space Sector (Space Policy, Strategy, Law and regulations)
- **Support** and oversee current space projects (including the Mars Mission)
- **Develop** UAE Human Capital for the Space Sector
- **Set-up** National and International Partnerships
- **Improve** Space Awareness (outreach)

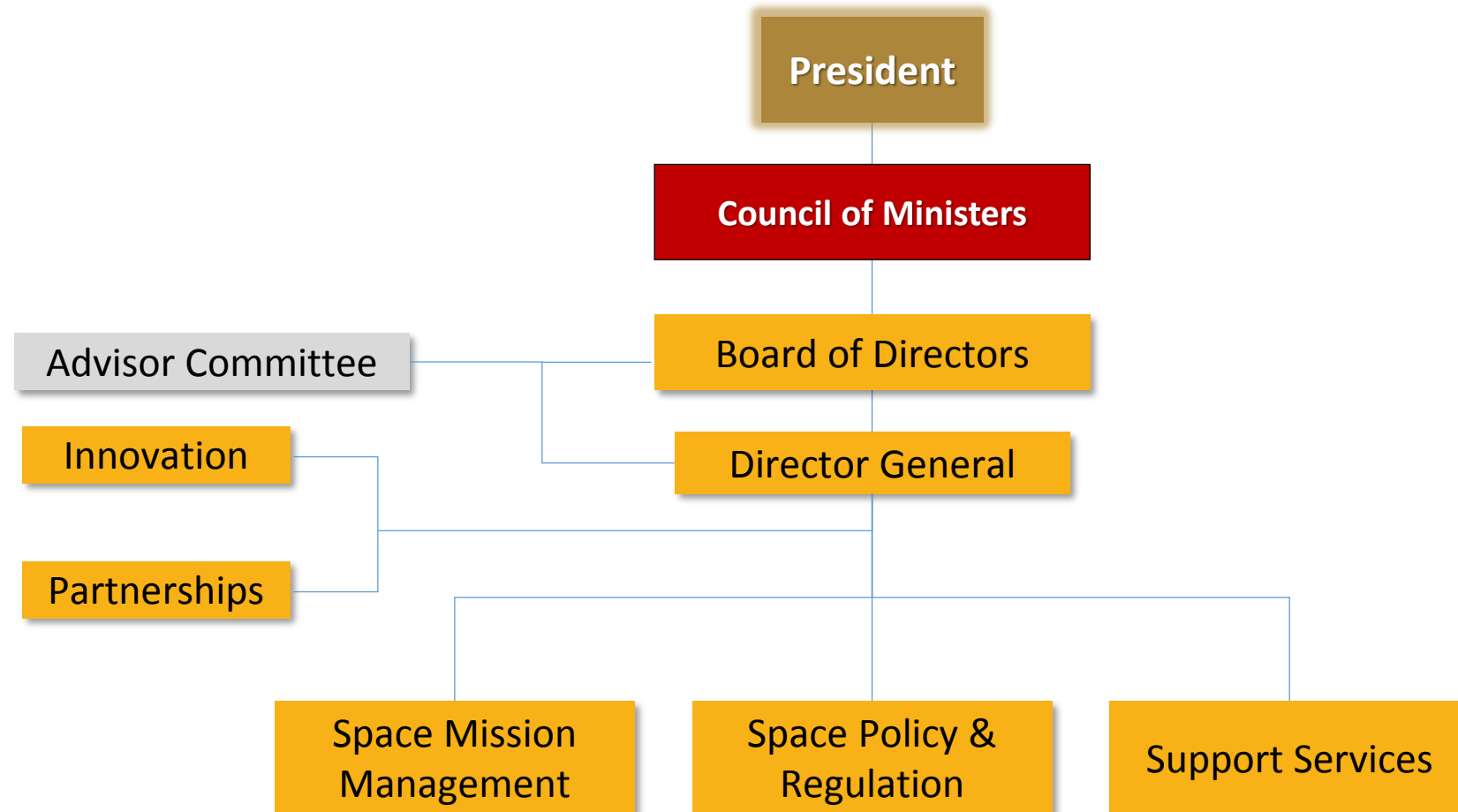


# UAE Space Agency Organization

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- Light Space Agency
- < 50 Professional People
- Focus on efficiency
- Value partnerships



## Advisory Committee:

Nine Int. space experts meets twice a year to provide advise to the SA.

# Policy/Regulations

- UAE has signed 3 Space related UN treaties that shape the UAE legal framework for Space, (Rescue Agreement is under process).
  - **Outer Space Treaty**
    - Treaty on Principles Governing the Activities of States in the Exploration and Use of Outer Space, including the Moon and Other Celestial Bodies
  - **Liability Convention**
    - Convention on International Liability for Damage Caused by Space Objects
  - **Registration Convention**
    - Convention on Registration of Objects Launched into Outer Space
- **UAE Space Agency is proposing to UAE government:**
  - A UAE National Space Policy
  - A UAE Space Law and Regulations
  - A UAE Space Strategy (10 years plan)



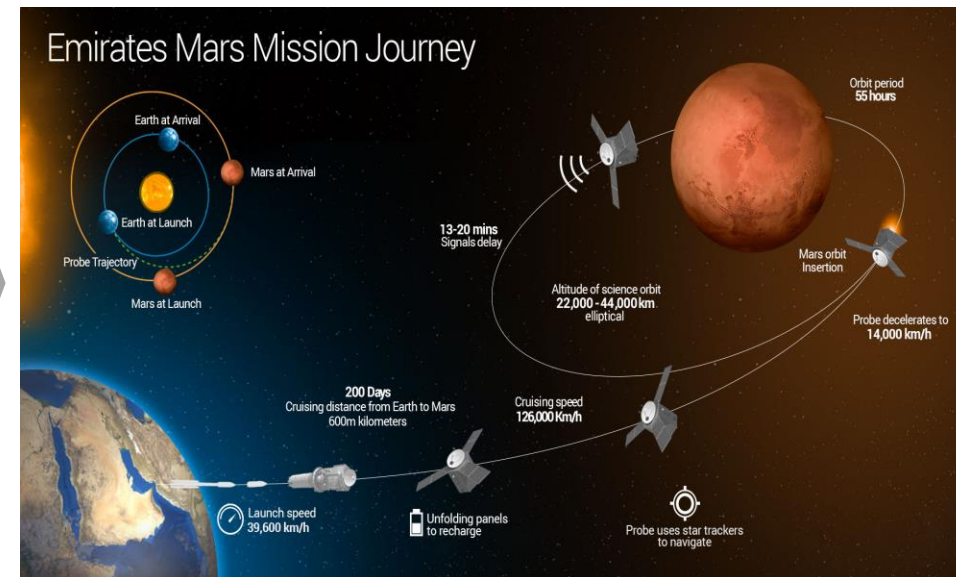
# UAE Mars Mission "HOPE"

## Main Objectives:

- Inspiring young people
- Building knowledge / space science
- Unifying Efforts (Common Goal)
- Promote Int. Cooperation
- Position UAE in the global space map
- Global contribution to humanity

## UAE Mars Mission

- Mars Orbiter
- Unique Significant Mission
- UAE SA Funding & Oversight
- Project subcontracted to MBRSC
- Local & Int. Cooperation



2015

Defining Science Objectives

2016 - 2017

Designing Spacecraft

2018

Manufacturing

2019

Assembly & Test

2020

Launch & Trip to Mars

2021 - 2024

Arrival & in Mars Orbit Observations

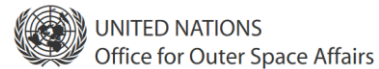
# International Cooperation

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## • The Space Agency Strongly Believes in Space Cooperation:

- Implementing UN Space treaties
- A member of (COPUOS) / Participate in CoC
- Representing the region in Int. level
- A member of ISECG, GEO, The Charter, IPDA, IAF .....



## • The UAE Space Agency has started talks and signed MoU with some major Space Agencies,.....





# Looking forward: New Space

**The UAE Space Agency is preparing the space sector for:**

- **Emerging space trends (Small satellites)**
- **Commercial Space (private companies)**
- **Human space flights (Suborbital flights)**
- **Resources from outer space ( asteroid mining)**
- **New space technologies (3D printing..)**



Thank you



# The United Arab Emirates (UAE)

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Became a federation in 1971

Federation of seven Emirates

GDP ~\$384 B (USD)

Second largest Arab economy

World's seventh largest in the oil reserve

Diversified smart economy

Regional leader in world indicators

## Connectivity

World #1 on roads eqt  
World #3 on ports  
World #2 on air transport

## Demography

UAE is home to people from more than 150 nationalities

## Education

There are more than 50 accredited universities in the UAE

## Technology

Leading the region in smart and mobile government



**UAE: Openness, tolerance, role model and global citizen.**

