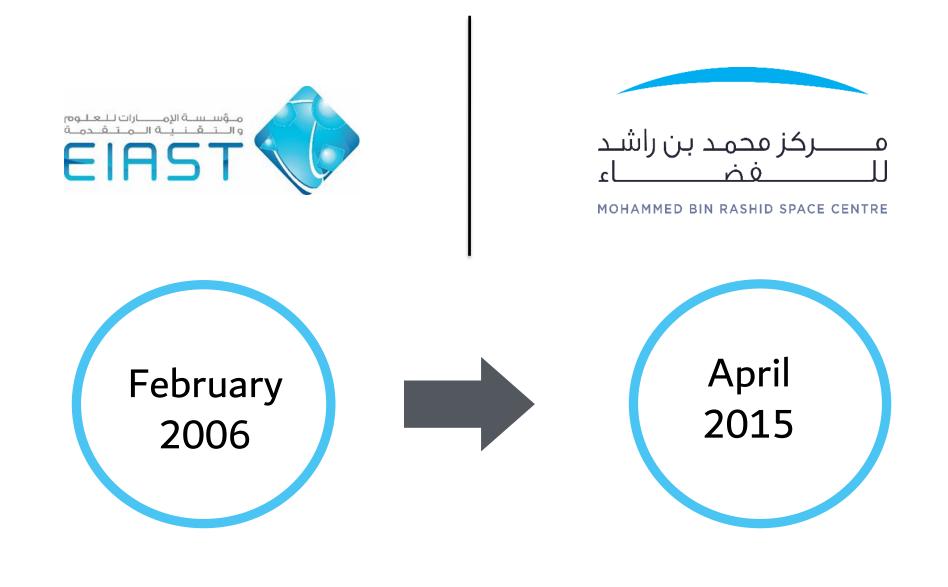


MOHAMMED BIN RASHID SPACE CENTRE





#### Introduction to MBRSC



Emirates Institution for Advanced Science and Technology (EIAST) was established Mohammed Bin Rashid Space Centre (MBRSC)





#### MBRSC Team



Emiratization: 100%



Over 200 employees



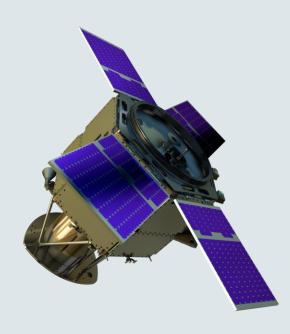
## Emirati women contribution 42%







#### The UAE National Space Programme









Satellite Development
Programme

Emirates Mars Mission

Hope mission

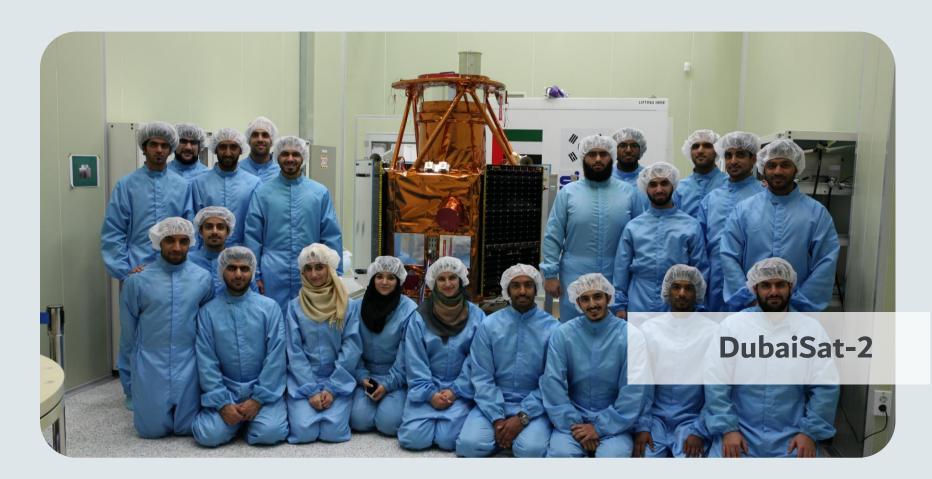
Mars 2117

UAE Astronaut

Programme



Launch date: 2009



Launch date: 2013

#### Satellite Development Programme

### Tech and Know-How Transfer for satellite Development:



Dubai Sat-1 30%

Resolution 2.5m



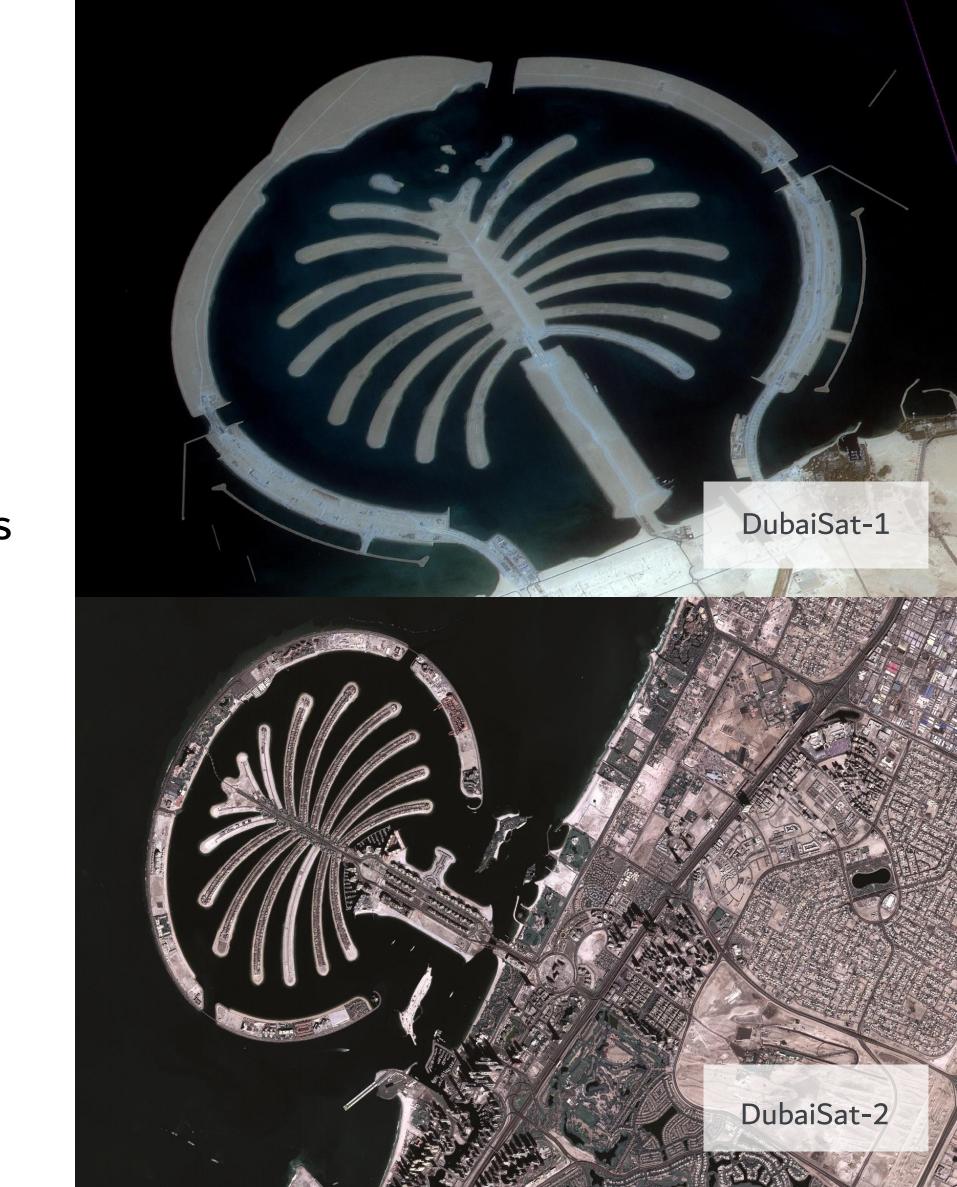
DubaiSat-2 50%

Resolution 1m



MBRSC is committed to contribute to helping countries that are affected by natural disasters memberships with Sentinel Asia and Disaster Charter. Satellite images are provided whenever it is possible.

- Number of scenes: 53,702 scenes (almost 30 scenes every day for 365 days for 5 years!)
- Total of analysis services provided since 2014: (52 analysis reports + 8 case studies)





#### Khalifa Sat



100% developed by Emirati engineers



Launch date: October 29th, 2018

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Resolution: 0.7m









#### Local satellite development partnerships



600 km above the surface of Earth Orbit Altitude

The Satellite orbits Earth

14 times a day

**120m Camera** Resolution



Monitoring and measuring Aerosols in the atmosphere



Finding solutions to the challenges of urban pollution and climate change



Provides data on Green House Gases

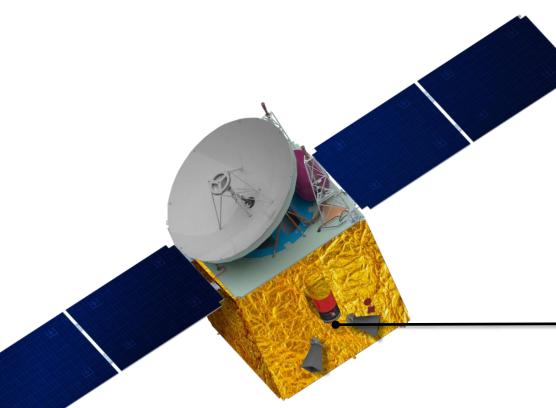




#### **Emirates Mars Mission: Al-Amal Probe**





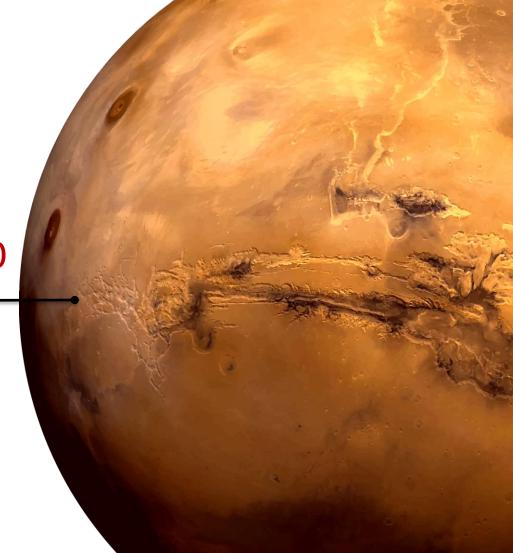


Launch date: 2020





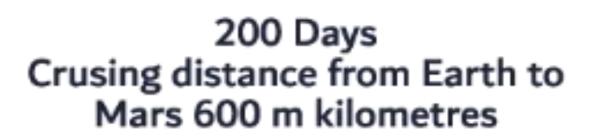




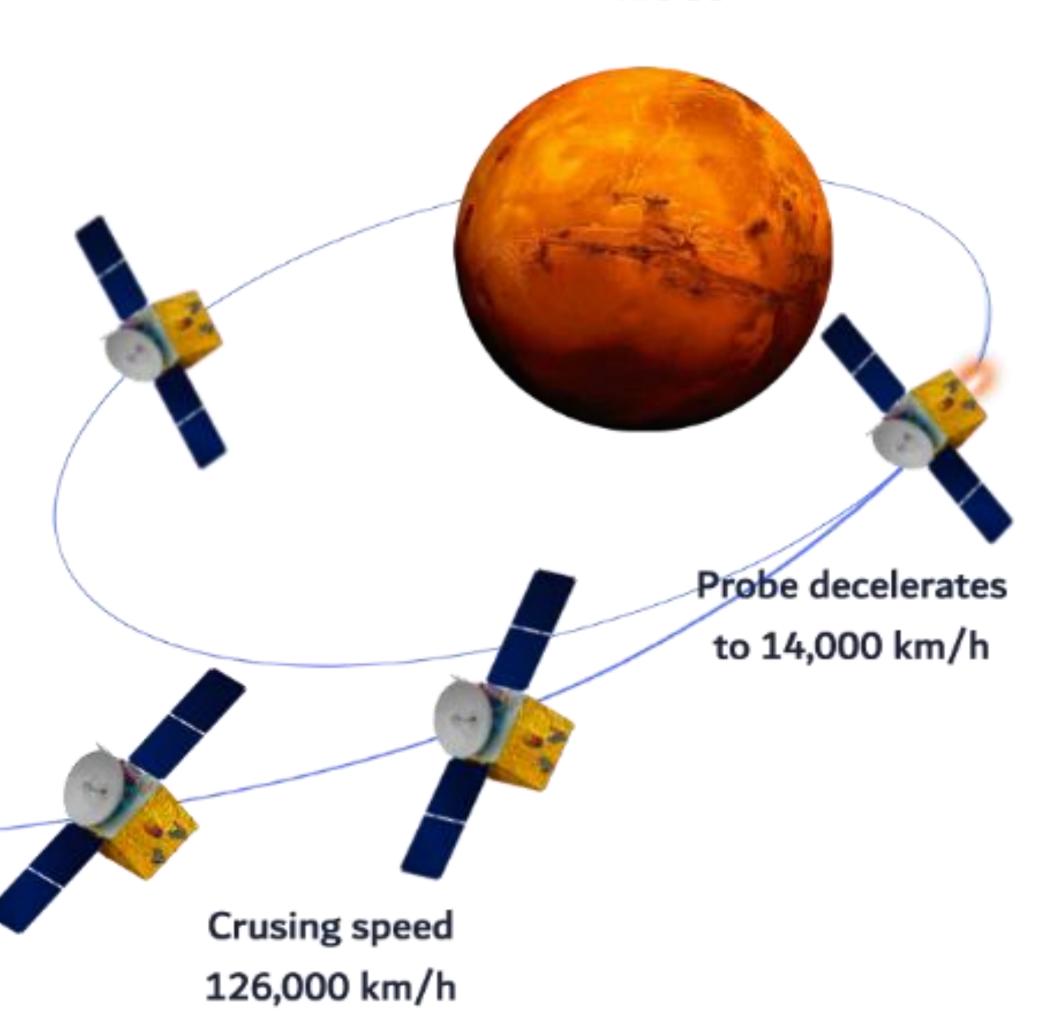


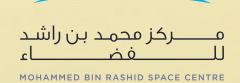


#### Orbit Period hrs 55











To enable the UAE to contribute to humanity's interplanetary endeavors



To establish a lasting colony on Mars by 2117 with international collaborations









#### **Selection Process**

Programme Announcement - April 2017

4,022

Applications Received 95

Candidates
shortlisted to go
through assessments
& medical screening

39

Candidates went through initial interview stage

18

Selected for the final interview stage

9

Qualified for next stage of assessment by ROSCOSMOS 2

Emirati Astronaut Corps





ambitions.

# HH Sheikh Mohammed @ @... · 03 Sep 18 We announced today our first astronauts to the International Space Station: Hazza Al Mansouri and Sultan Al Nayadi. Hazza and Sultan represent all young Arabs and represent the pinnacle of the UAE's

Congratulations to the people and youth of the Emirates

#### UAE announces first two Emirati astronauts

Our dreams embrace space ...

and we are proud of our youth,

and our future is based on a

solid scientific foundation.



His Highness Sheikh Mohammed bin Rashid

Al Maktoum, Vice President, Prime Minister and Ruler of Dubai





#### محمد بن زاید @MohamedBinZayed

نبارك لهزاع على عبدان خلفان المنصوري وسلطان سيف مفتاح حمد النيادي بمناسبة اختيارهما أول رائدي فضاء إماراتيين .. إنجاز جديد يعكس قوة تحدي ابن الإمارات وعزيمته وإصراره على بلوغ أعلى المراتب .. كل التوفيق والنجاح لهما في مهمتهما المقبلة. /pas66B0LKo

#### **Translate Tweet**





#### UAE announces first two Emirati astronauts

The achievements of Hazza and Sultan and their desire to provide a qualitative national addition reflect the aspirations of the UAE youth and their determination to reach the highest levels in all fields.

His Highness Sheikh Mohamed bin Zayed Al Nahyan,
Crown Prince of Abu Dhabi and Deputy Supreme
Commander of the UAE Armed Forces







