

In the Name of God  
the Compassionate  
the Merciful



# NAHID-1 Satellite



**Committee on the Peaceful  
Uses of Outer Space  
Scientific and Technical Subcommittee  
Fifty-fifth session  
Vienna, 29 January–9 February 2018**

# Iranian Space Research Center

## Vision Statement

To obtain the highest regional position in achieving space, related technologies and infrastructures through acquisition and development of the technical knowledge required for design, manufacturing and operating satellites as well as research, communication and remote sensing systems.

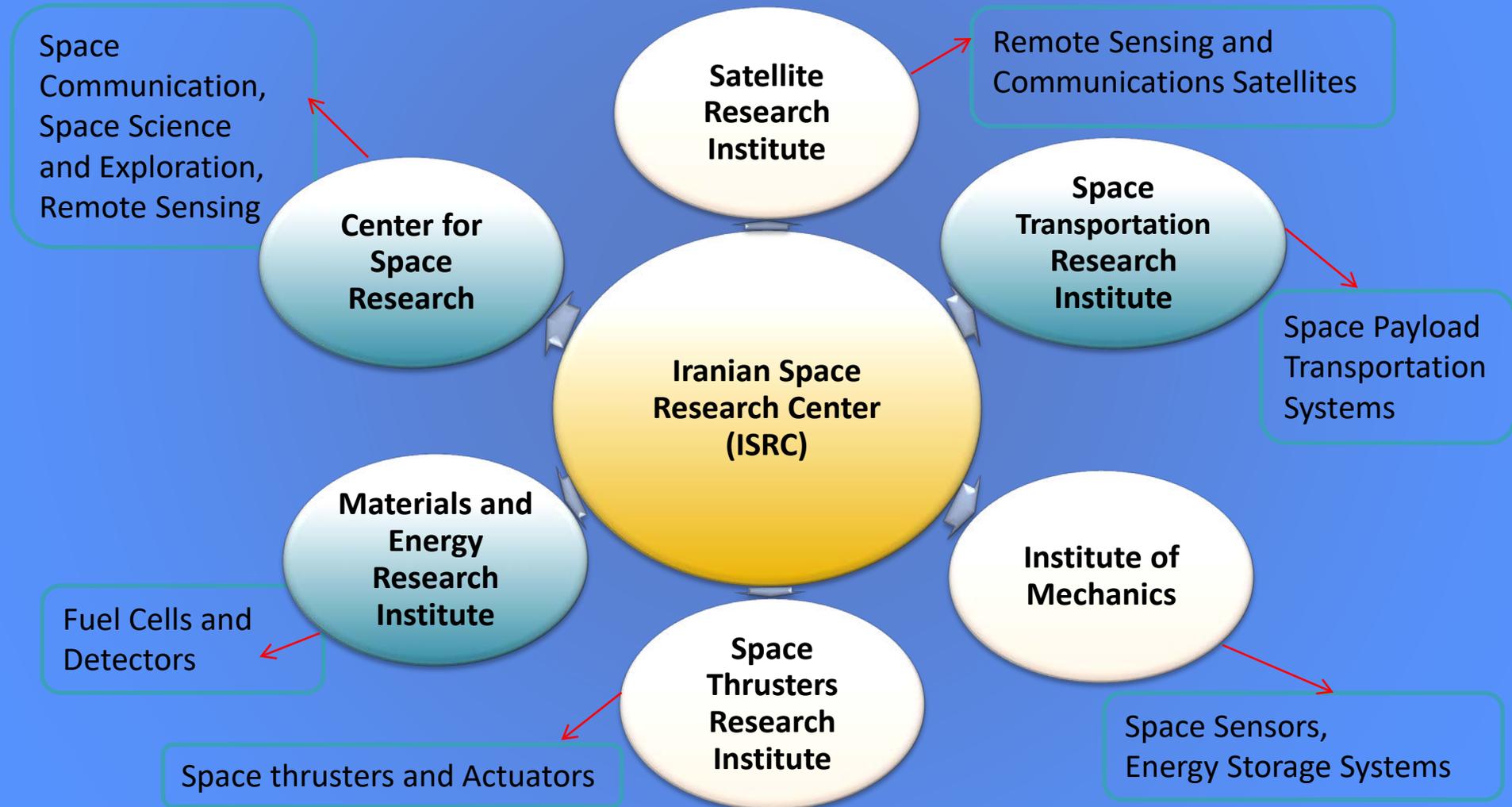


## Mission Statement

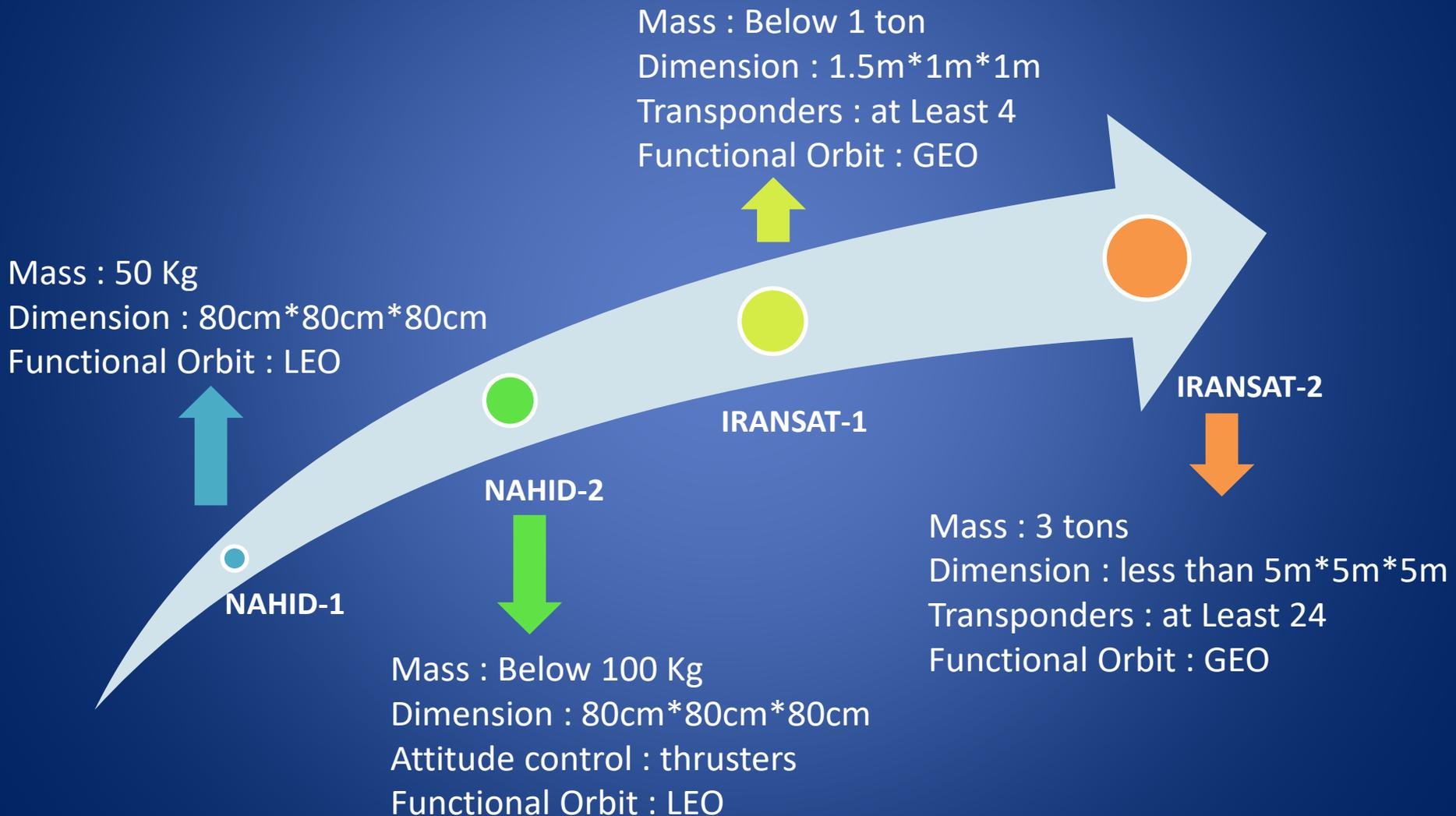


Development of the domestic technologies, infrastructures and systems required for peaceful uses of space and betterment of human life, according to the needs and priorities of I.R. Iran for rapid and sustainable development of science, technology, economy and culture.

# ISRC Affiliates



## Iran Communication Satellite Developing Plan(2026)



# NAHID-1 Satellite Mission and Specifications

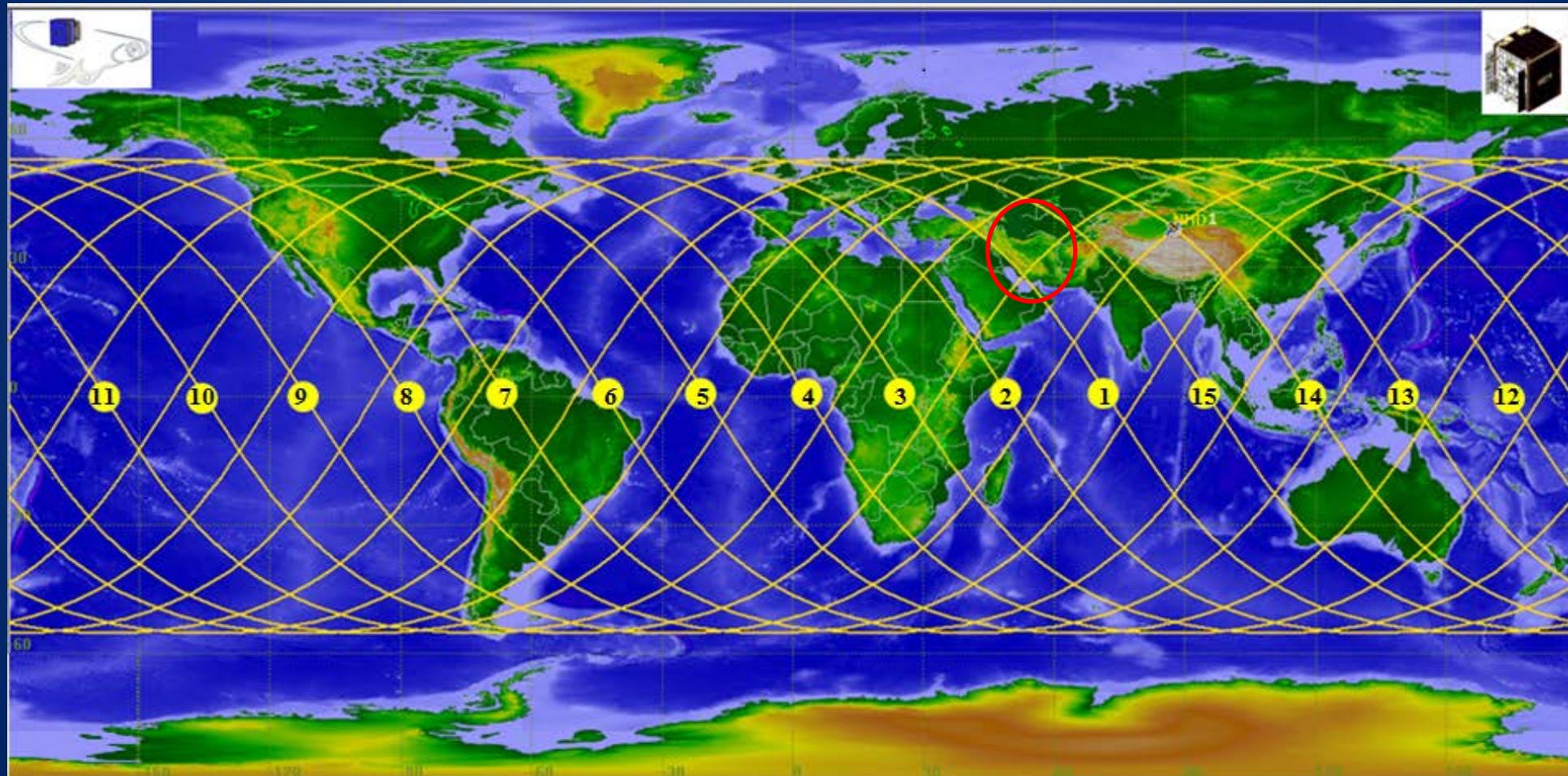
## Main missions

- 1- Solar arrays deployment in orbit
- 2- Communication in Ku band
- 3- Imaging and estimating the deployment rate of the solar arrays

<b>Mass</b>	<b>50 kg</b>
<b>Dimensions</b>	<b>80cm*80cm*80cm</b>
<b>Orbital Lifetime</b>	<b>Less than 2 month</b>



# NAHID-1 Satellite Ground Tracks in 24 hours



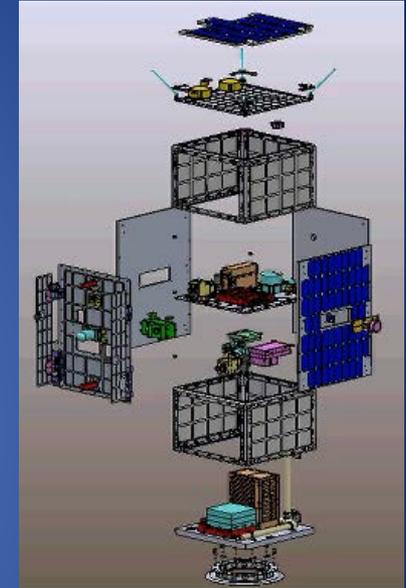
# NAHID-1 Satellite Components



TT&C Antenna



NAHID-1



Exploded View



Payload Antenna



Electronic Box

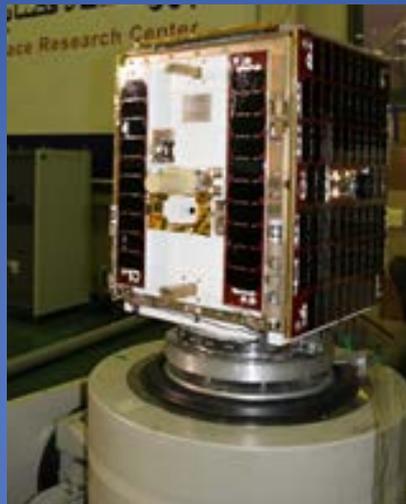


MCC software 8 / 9

# NAHID-1 Satellite Tests



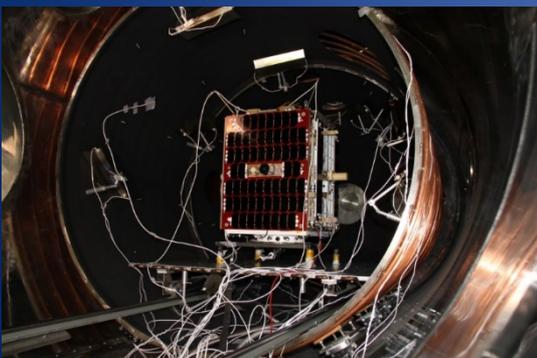
**ADCS Test**



**Vibration & Shock Test**



**Mass Properties Test**



**Thermal-Vacuum Test**



**Thermal Cyclic Test**

# NAHID-1 Satellite Unveiling



- NAHID-1 satellite was recently unveiled by president of Islamic Republic of Iran Dr. Hassan Rouhani on the Day of Space Technology.
- Communication radio frequencies used by NAHID-1 Satellite have been registered in ITU.

# Thanks for your attention!

**Maryam Mousavi Moayed**  
**Technical Expert**  
**Satellite Research Institute of**  
**Iranian Space Research Center**

[m.mousavi@isrc.ac.ir](mailto:m.mousavi@isrc.ac.ir)