



# China's Space Program: A 2021 Perspective

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China National Space Administration

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# White Papers

- 5 white papers
- China Space Activities 2000, 2006, 2011, 2016 and 2021



Mission, Vision



Principles and Policies



International Cooperation



Space science



Space technology



Space application



# China's Space Program: A 2021 Perspective

- I. A New Journey Towards a Strong Space Presence
- II. Development of Space Technology and Systems
- III. Developing and Expanding Space Application Industry
- IV. Research on Space Science
- V. Modernizing Space Governance
- VI. International Cooperation



Long March-5



# Five years of innovation and development

**207** Launches, with a success rate of **96%** for LM series Launch vehicles

New Generation of Long March Launch Vehicle



LM-5

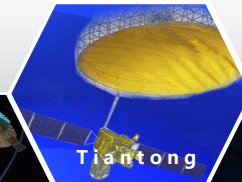


Lunar and planetary exploration



Mars Exploration

Civil Space Infrastructure



Tiantong



Fengyun



Beidou



KZ-1A

Commercial launch vehicle



LM-7

Smart Dragon-1



LM8



ZIYUAN



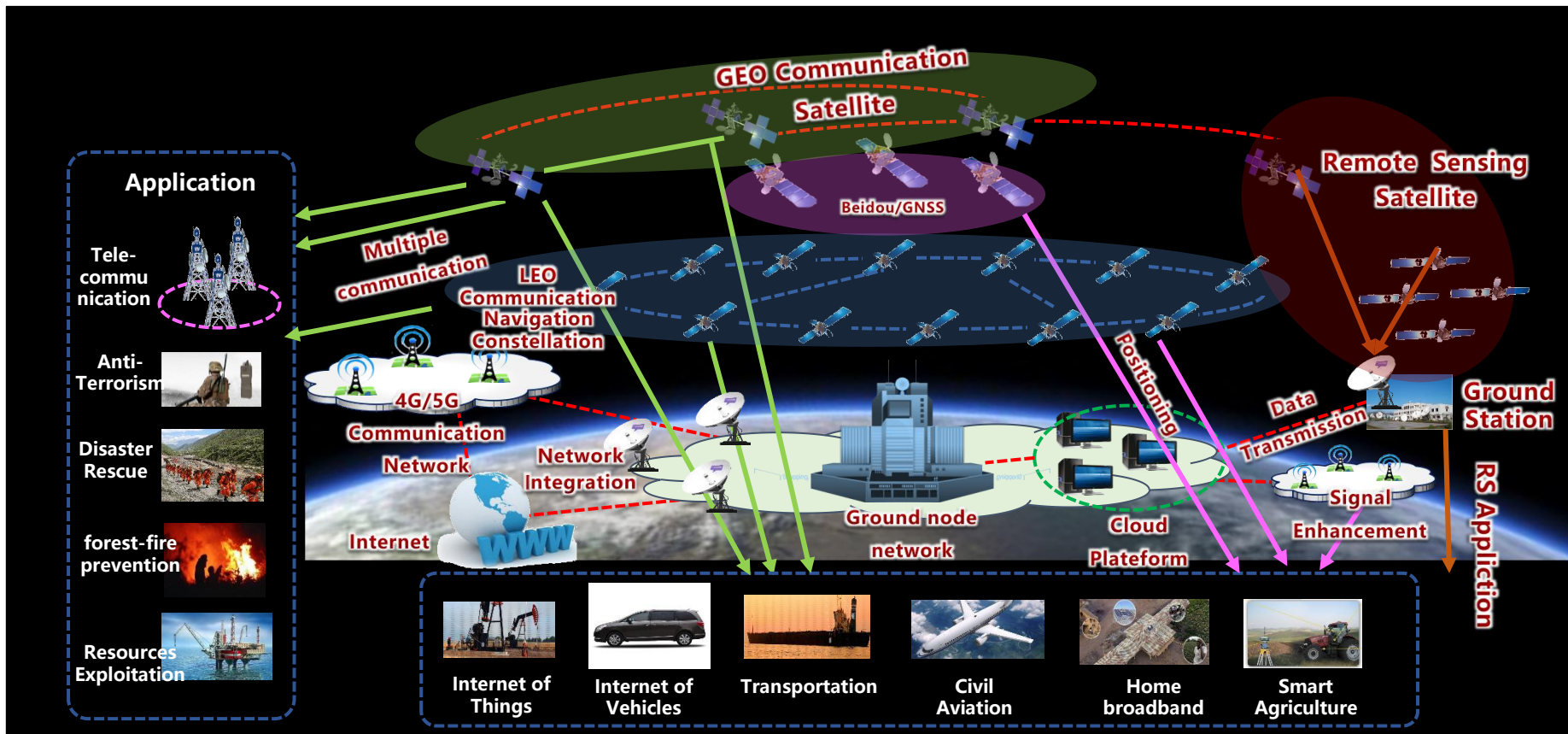
Haiyang



China Space Station

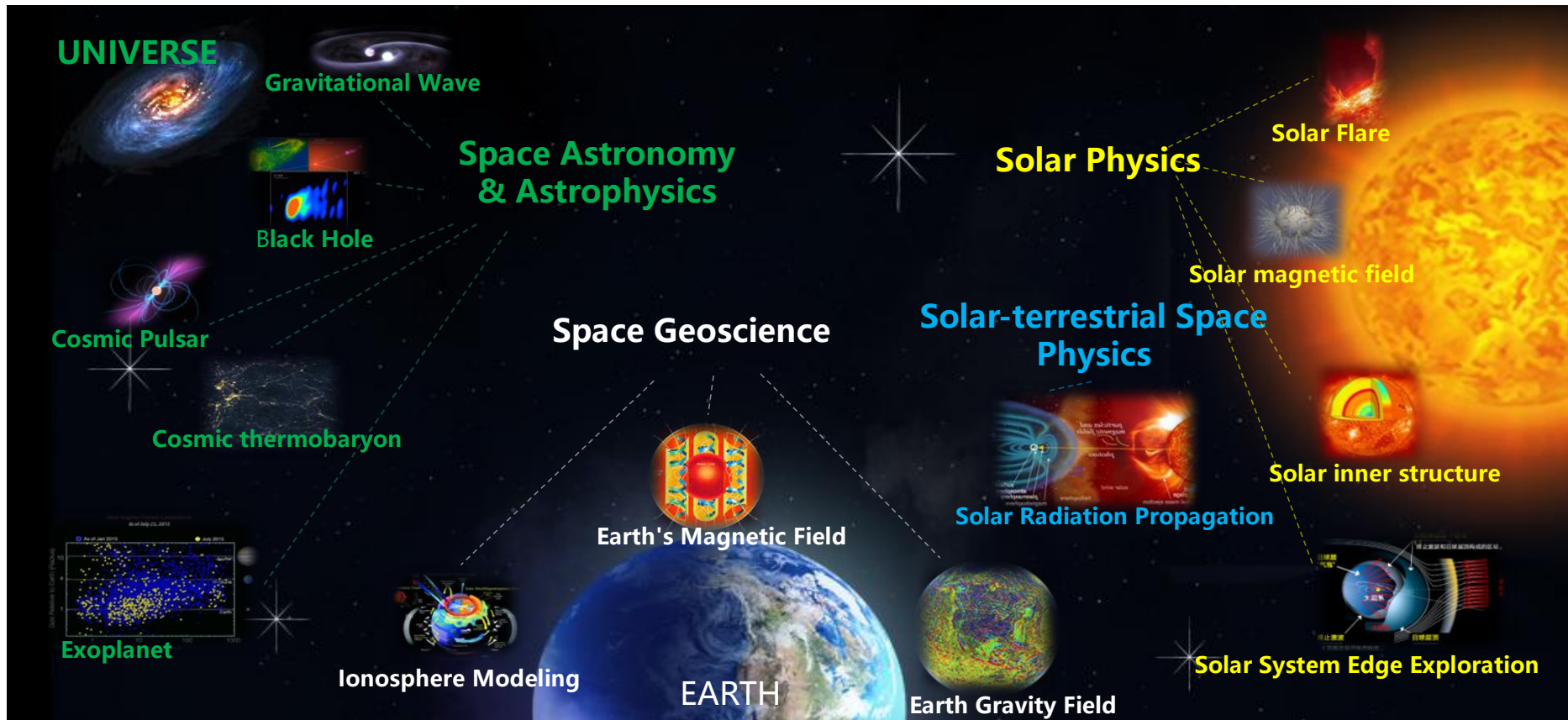


# Five years of energization to the society




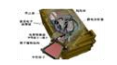




# Five years of exploration and breakthrough



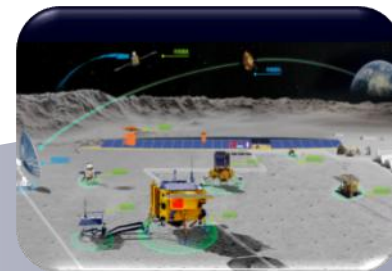


# Five years of sharing and cooperation

 SRON Netherlands Institute for Space Research NCLE (Relay sat.)	 RYMDSYRELSSEN Danish National Space Board ASAN (Rover)
 DLR LND (Lander)	 Micro-imaging camera

 CONAE	 esa	
 FFG Promoting Innovation.	 cnes CENTRE NATIONAL D'ETUDES SPATIALES	

Argentina, Austria, France and ESA joining Tianwen-1 mission



International Lunar Research Station led by China and Russia

International payloads onboarding  
Chang'e 4



# Five years of sharing and cooperation



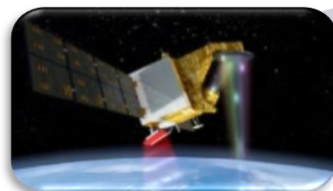
**双星探测计划**

Dual Sat Exploration Project



**太阳风-磁层相互作用全景成像卫星**

Solar wind magnetosphere interaction panoramic imaging satellite



**中法海洋卫星**

China France Ocean Satellite



**中法天文卫星**

China France Astrostar



**中巴地球资源系列卫星**

CBERS



**电磁监测试验卫星**

Electromagnetic monitoring experimental satellite







# Future development

VISION  
A Strong Space Presence

Innovation-driven  
development

Coordination and  
efficiency

For peaceful  
purposes

Cooperation and  
sharing



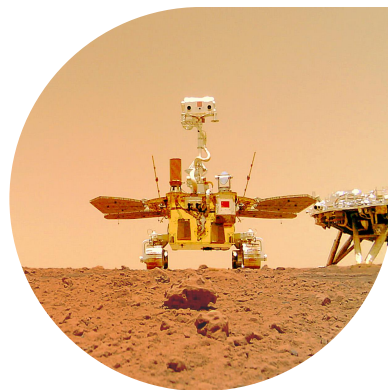
# Promote the implementation of major projects



CHINA SPACE STATION



LUNAR EXPLORATION PROGRAM



PLANETARY EXPLORATION

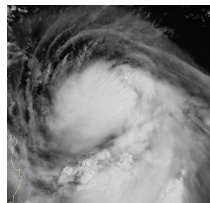
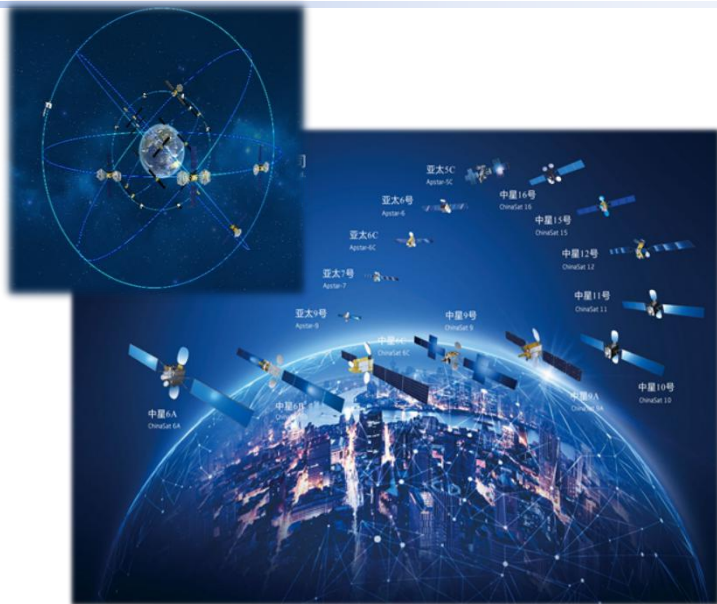


HEAVY LAUNCH VEHICLE



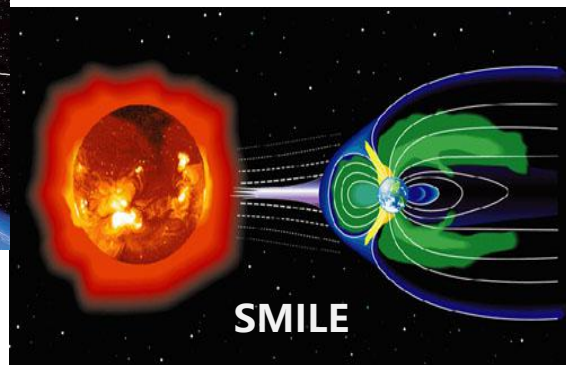
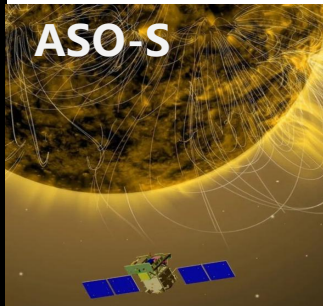
# Strengthen the space application business

- Comprehensive applicaiton
  - telecommunication
  - navigation
  - remotes sensing
- Spin-off of space technology
- New forms of space economy





# Plan and implement space science and exploration



- Space astronomy
- Space physics

- Lunar and planetary science
- space earth science



# Boost space business development environment

Enhancing  
Innovation

Strengthening Basic  
Industrial Capabilities

Expanding  
Application

Encouraging  
Commercialization

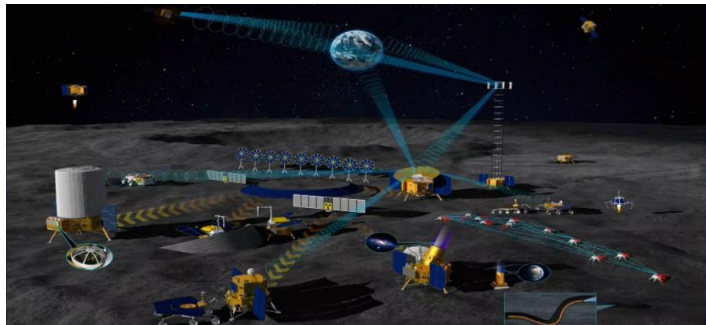
Promoting Law-Based  
Governance

Strengthening  
Team-Building

Promoting Space  
Education and Culture

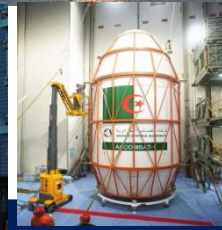
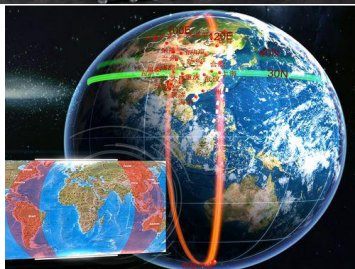


# Widen and deepen the international cooperation



International Lunar Research Station

BRICS Remote Sensing Satellite Constellation





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