China's Space Program: A 2021 Perspective

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China National Space Administration
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White Papers

- 5 white papers

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
  - LM-7
  - LM-8
  - KZ-1A
- Commercial launch vehicle
- Smart Dragon-1

- Lunar and planetary exploration
  - Mars Exploration
  - ZiYuan

- Civil Space Infrastructure
  - Tiangong
  - Beidou
  - Fengyun
  - Haiyang

- China Space Station
Five years of energization to the society

Multiple communication
Telecommunication
Anti-Terrorism
Disaster Rescue
forest-fire prevention
Resources Exploitation

Application

GEO Communication
Satellite
Beidou/GNSS

Remote Sensing Satellite

Internet of Vehicles
Transportation
Civil Aviation
Home broadband
Smart Agriculture

Internet of Things
Network Integration
Cloud Platform

Application
Five years of exploration and breakthrough
Five years of sharing and cooperation

International payloads onboarding
Chang’e 4

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

International Lunar Research Station led by China and Russia
Five years of sharing and cooperation
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 EXPLOREATION
- HEAVY LAUNCH VEHICLE
Strengthen the space application business

- Comprehensive application
  - 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
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