



LunaHC: Pioneering Egypt's Role in Lunar Exploration through the Chang'E-7 Mission

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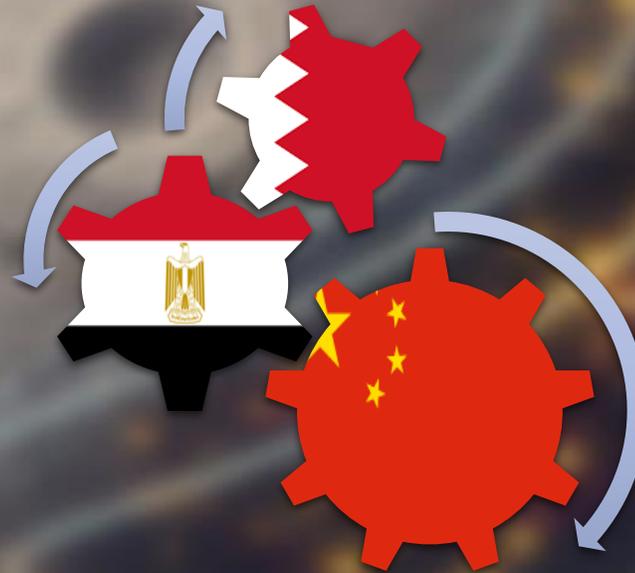
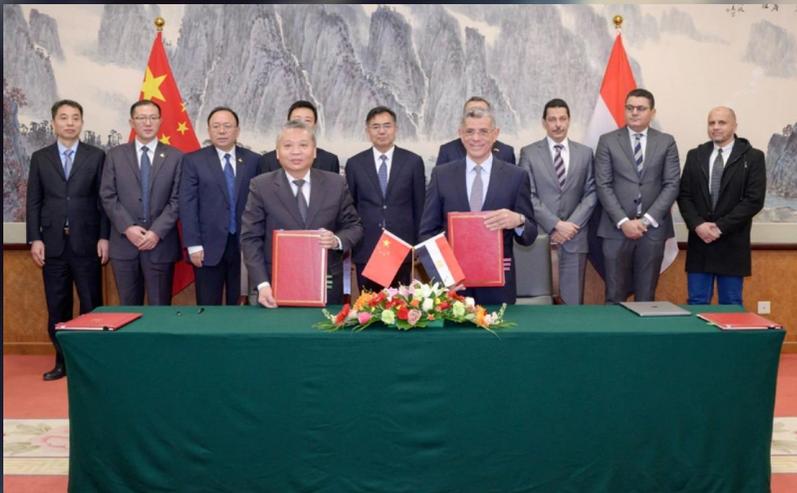


LunaHC

International Collaboration Project

Deep Space Exploration mission

- **Signature of ILRS – Dec. 2023**



- **LunarHCam – May 2024**



Collaboration between Egypt, Bahrain, and China

- Arab's first lunar payload, marking a significant milestone in international space cooperation.

Cutting-Edge Hyperspectral Imaging Technology

Mission Significance

- Part of the Chang'E 7 mission, focused on lunar exploration, particularly targeting the lunar south pole.

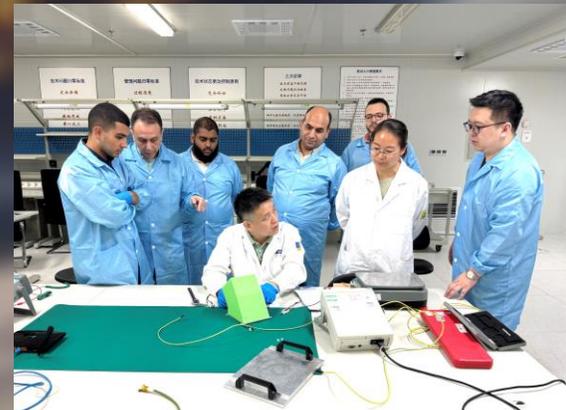
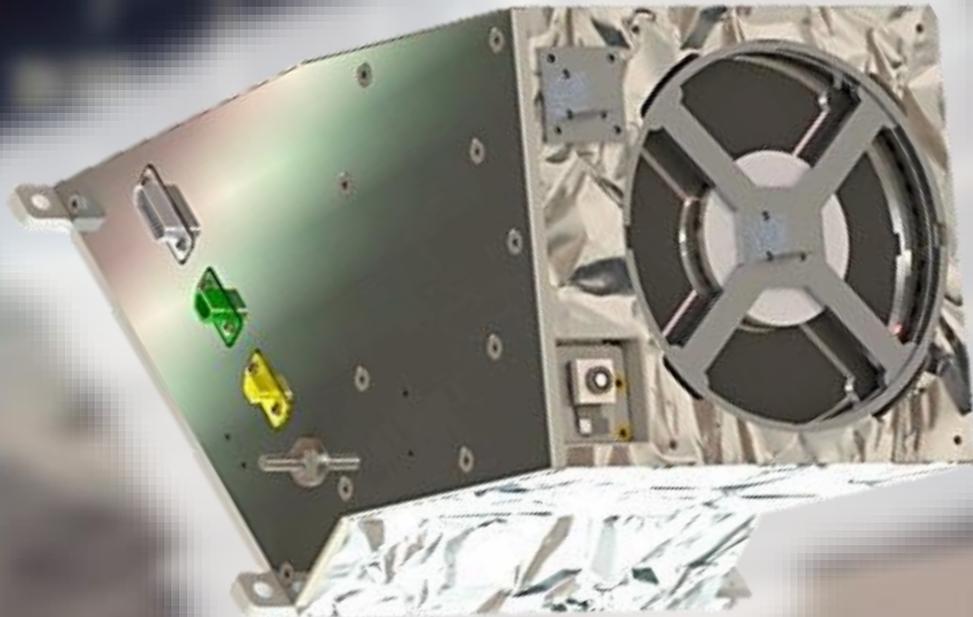
Purpose of LunaHCam

- Aimed at capturing high-resolution hyperspectral images of the lunar surface to aid in mineral identification of lunar surface.

•Testing

All Tests happened at :

- AITC, Egypt.
- NSSC, China.



LunaHCam: Promoting Sustainability in Lunar Exploration

- **Collaborative Effort:**

Partnership between Egypt, Bahrain, and China maximizes shared resources and expertise, reducing redundant missions.

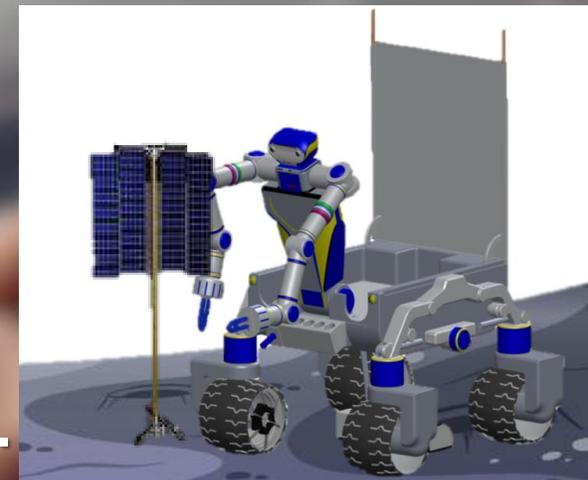
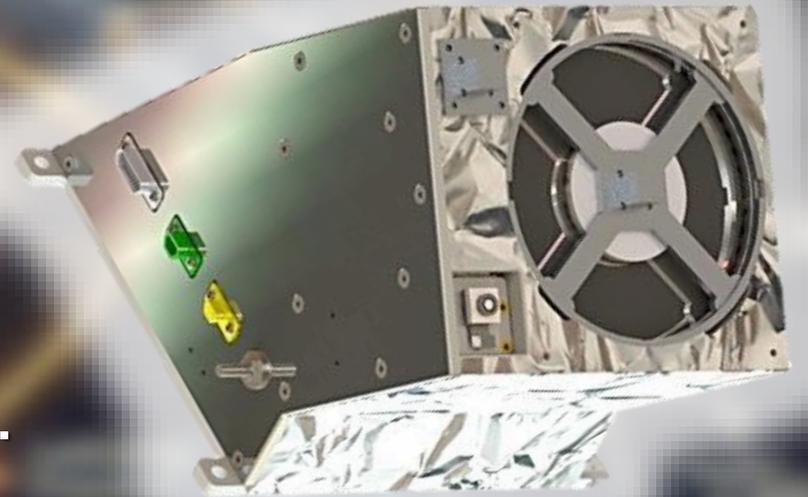
- **Efficient Resource Mapping:**

LunaHCam captures high-resolution spectral data to identify vital lunar resources like water ice and minerals, supporting long-term exploration.

- **Long-Term Impact:**

Promotes sustainable space exploration by minimizing future missions, fostering scientific discovery, and reducing resource waste.

- Egypt & China to the MOON in Chang'E 8.





Thank You Grazie



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