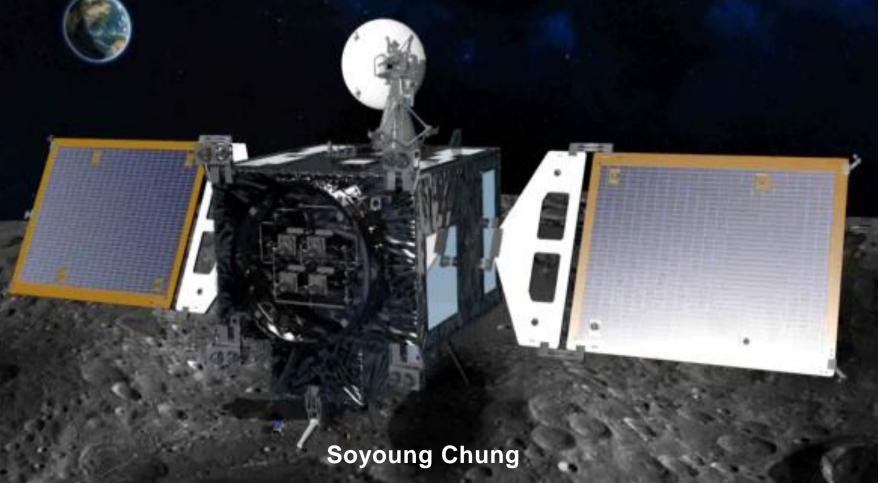
UN/China Global Partnership Workshop on Space Exploration and Innovation November 21-24, 2022



KARI Space Exploration Update



Senior Researcher, Strategy & Planning Directorate, KARI

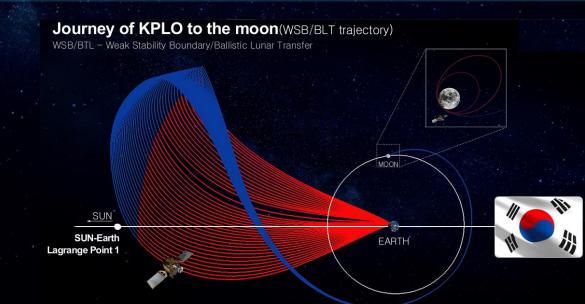


Korea's First Space Exploration Mission



- Total Launch Mass: 678kg
- Mission Life: 1 Year
- Lunar Polar Orbit (100km)

- ① Launch August 5 (KST)
- 2 WSB/BLT trajectory insertion
- 3 1st trajectory correction maneuver August 7
- ⊕ 2nd trajectory correction maneuver September 2
- ⑤ 3rd trajectory correction maneuver November 18
- 6 Lunar Orbit Insertion December 17





KPLO Payloads & NASA Partnership





Wide-Angle Polarimetric Camera (PolCam)



KPLO Gamma Ray Spectrometer (KGRS)



KPLO Magnetometer (KMAG)



KPLO Delay Tolerant Network Experiment Payload (DTNPL)



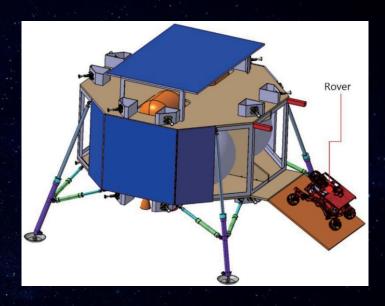
ShadowCam





Next Step – Korea Lunar Lander





- Precise Soft Landing with Hazard Avoidance
- Payload/Instruments
 - Rover
 - RTG
 - Lunar Science
 - ISRU Tech Demo







An updated plan will be released by the end of the year

ISECG Emerging Space Agency Working Group



ISECG Overview

- International Space Exploration Coordination Group
- ISECG agencies work collectively in a non-binding, consensus-driven manner towards advancing the Global Exploration Strategy
- Now 27 space agencies

Establishment of Working Group

- Increased participation by emerging space agencies
- To accommodate needs and perspectives of emerging agencies in ISECG activities
- started as a Tiger Team in late 2020, became a permanent Working Group in April 2021

Current Status of Working Group

- Members: AEB(Brazil), AEM(Mexico), ASA(Australia), CSA(Canada), ESA(Europe), GISTDA (Thailand), KARI(Korea), LSA(Luxembourg), POLSA(Poland), PTSPACE(Portugal), ROSA(Romania), NASA(U.S.A.)
- Initial focus is on information sharing on each agency's activities to identify common interests and areas of potential collaboration
- will facilitate interactions among emerging agencies, between emerging and established agencies, and contribute to ISECG products from emerging agencies perspectives

