ISRO Missions in 2018



PSLV-C40/Cartosat-2 Series Jan 12, 2018



GSLV-F08/GSAT-6A March 29, 2018



PSLV-C41/ IRNSS-1I April 12, 2018



CES Technology Demonstrator July 05, 2018



PSLV-C42 Mission September 16, 2018



PSLV-C43 / HyslS Mission November 29, 2018



GSAT-11 Mission December 05, 2018



GSLV-F11 /GSAT-7A December 19, 2018



72ndIndependence Day

Prime Minister announced GAGANYAAN

With human space flight, India to push frontiers

ISRO setting up launch pad for Gaganyaan mission

ndian crew in



.....हमारे देश ने संकल्प किया है कि 2022, जब आजादी के 75 साल होंगे तब या हो सके तो उससे पहले, आजादी के 75 साल मनाएंगे तब, मां भारत की कोई संतान चाहे बेटा हो या बेटी, कोई भी हो सकता है। वे अंतरिक्ष में जाएंगे। हाथ में तिरंगा झंडा लेकर के जाएंगे। आजादी के 75 साल के पहले इस सपने को पूरा करना है......."





Gaganyaan - A National Endeavour

Transforming

India

Technology and Capability
Demonstrator

Employment (>13k) skill generation

Inspire and motivate youth

Boost innovation and creativity

Galvanize High tech aerospace industry

Micro gravity experiments

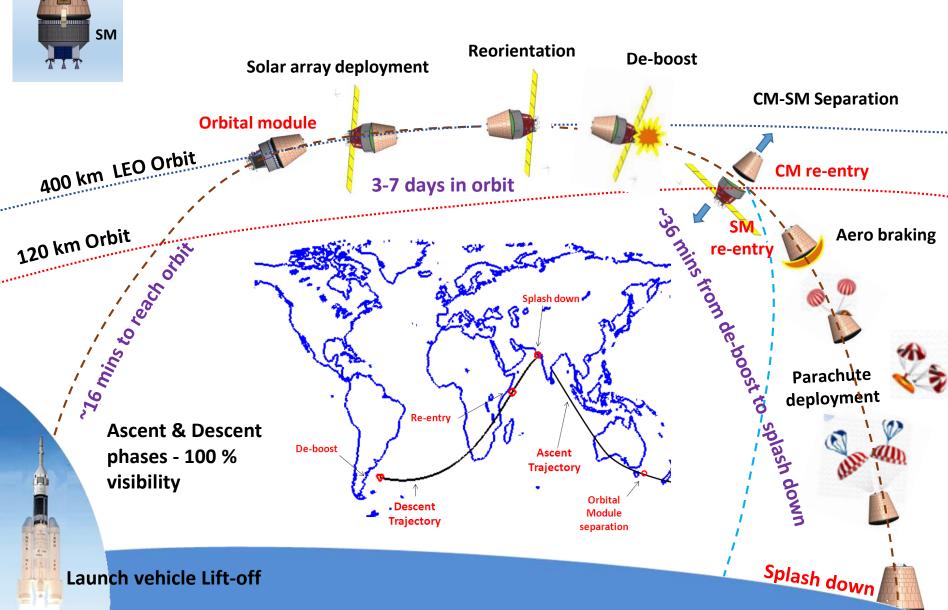
Vibrant citizen participation

Spin-offs to Society

India

CM **SM**

GAGANYAAN Mission



CITIZEN OUTREACH PROGRAMME







Media platforms

Social media

Training







Motivate

Workshops











Seminars



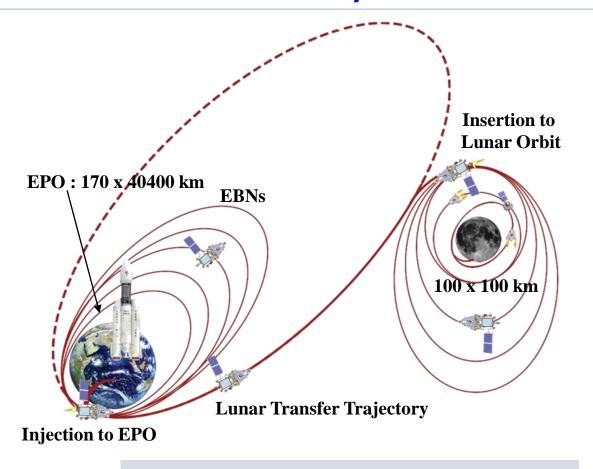
Student interactions

Technology Spinoffs

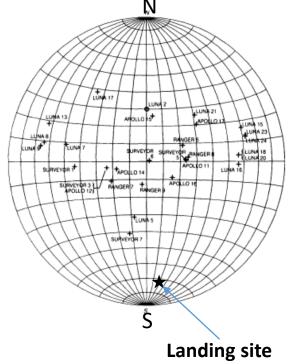


Chandrayaan-2 Mission



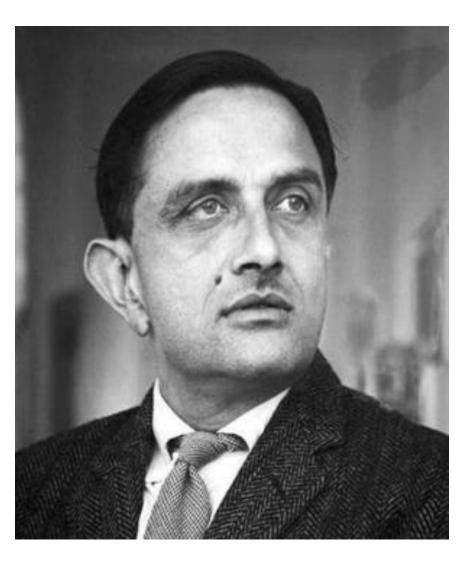


Opportunity to name the landing site, which will be of historical significance



- To land near South Pole
- Scientifically Important

Dr. Vikram Sarabhai Centenary Programme



- 6 ISRO knowledge centers
- Space Technology Incubation centers
- VIKRAM name for Moon-lander for Chandrayan-2
- Exhibitions/ Lectures
- Space Clubs at Schools
- Competitions at School/College level
- Events / Pavilions at National Museums
- Awards / Scholarships / Fellowships
- Vikram Sarabhai Space Innovative Award
- ISRO TV
- Dedicated Sessions / Memorial Lectures at International Science conferences like IAF
- Dr. Sarabhai Centenary International Award for best achievement in Space Science & Technology
- Establishment of Department Chairs /
 Fellowships at universities, which were
 connected with Dr. Sarabhai during his education.



SSLV Small Satellite Launch Vehicle



... on demand access to Space

Features

- Launch Vehicle catering to Mini, Micro or Nano satellites
- Low cost Launch Vehicle encompassing heritage systems and less complex / modular sub-systems
- On demand launch capability: Stages prepared as modular units, demand to launch within 2 weeks
- Active load relief enabling any time launch requirements
- Minimum launch-pad occupancy: Integration & Launch with in 24 hours

VEHICLE CONFIGURATION

- 2m diameter x 34m long
- Lift off mass : ~120T
- Three Solid propulsion stages
- Liquid propulsion module as terminal stage for precise payload injection



Payload Capability (Typical - from SDSC/SHAR)

Orbit : 500 km LEO

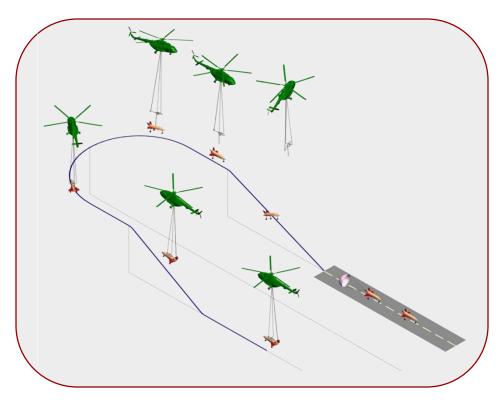
Inclination : 45⁰

Payload: 500 kg

RLV Landing Experiment

Mission Objectives:

- Demonstration of Approach and Landing maneuvers of a typical Orbital mission
- Autonomous runway landing of RLV



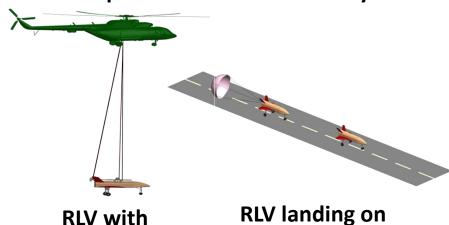
Mission Profile of Landing Experiment



Execution:

Helicopter

- Landing Experiment will be demonstrated by ISRO with the support of IAF and DRDO
- RLV is lifted by helicopter and released to land on the runway autonomously
- Mission planned in middle of this year



Runway