



KENNEDY SPACE CENTER



PUSHING THE BOUNDARIES

Robert Cabana
Director



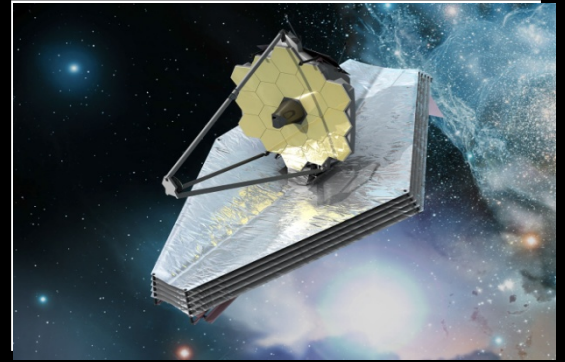
KSC's VISION



KSC is the world's preeminent launch complex for government and commercial space access, enabling the world to explore and work in space.



NASA CURRENT PRIORITIES



Space Launch System / Orion

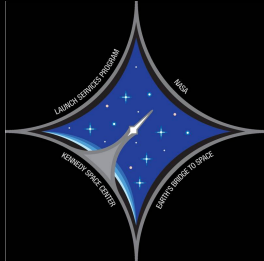
International Space Station

James Webb Space Telescope

KSC PROGRAMS AND PROJECTS



Ground Systems Development and Operations Program



Launch Services Program



Commercial Crew Program



ISS Ground Processing and Research Project Office



Space Technology



Advanced Exploration Systems



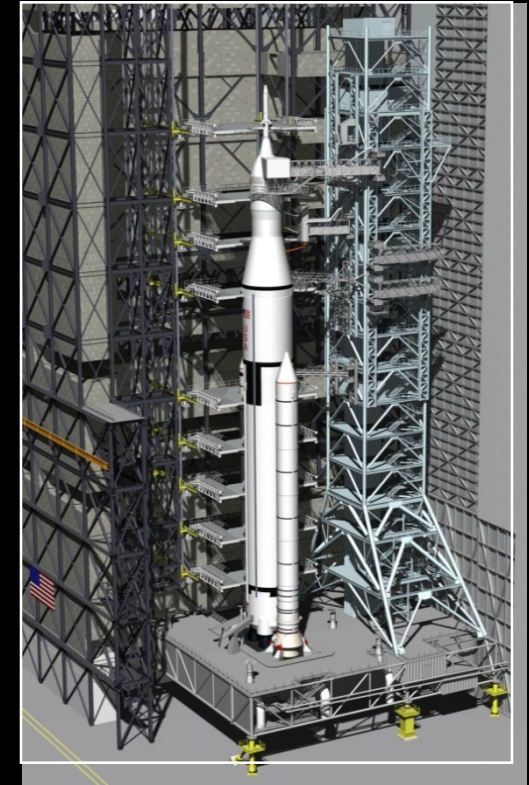
THE FUTURE – SPACE LAUNCH SYSTEM/ORION



Orion



Updated Launch Control Room



SLS on the mobile launcher

SLS on the mobile launcher at the launch pad



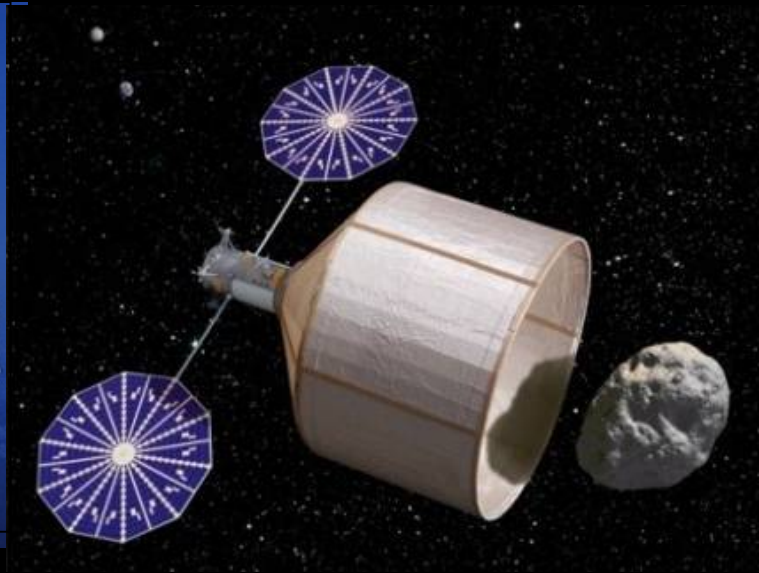
ASTEROID MISSION: THREE SEGMENTS

Identify



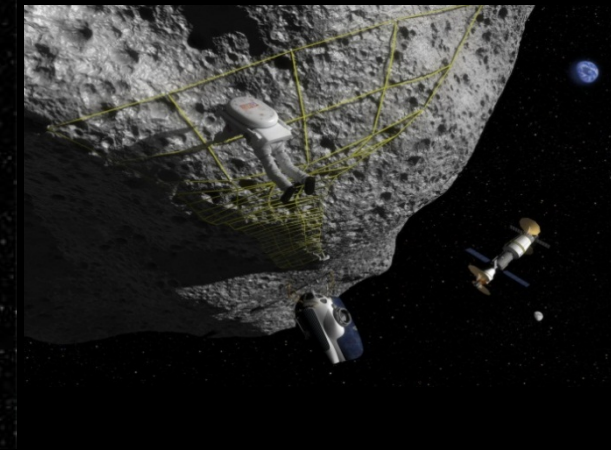
Ground and space based NEA target detection, characterization and selection

Redirect



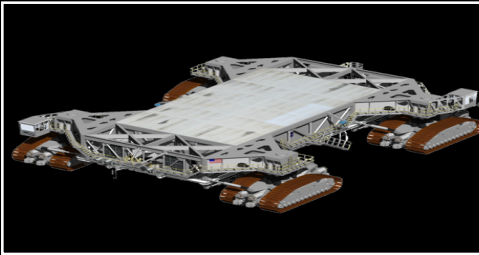
Solar electric propulsion (SEP) based asteroid capture and maneuver to trans-lunar space

Explore

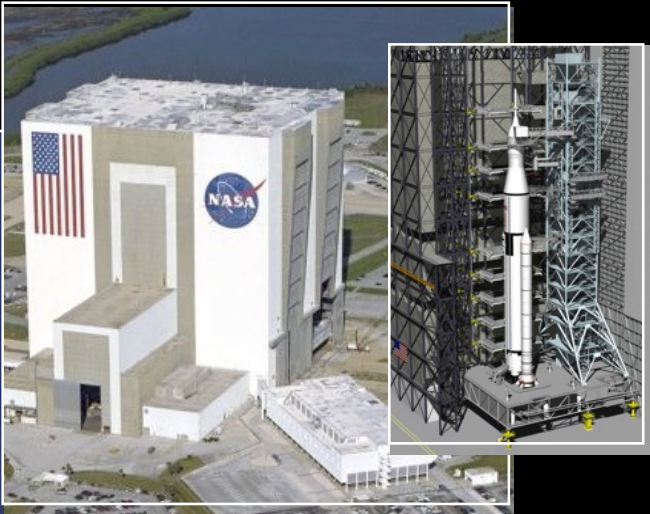


Orion and SLS based crewed rendezvous and sampling mission to the relocated asteroid

GSDO - PREPARING KSC FOR THE FUTURE



Move Operations with Crawler Transporter



Integration and Check-out Operations in Vehicle Assembly Building



Vehicle Access and Servicing via Mobile Launcher



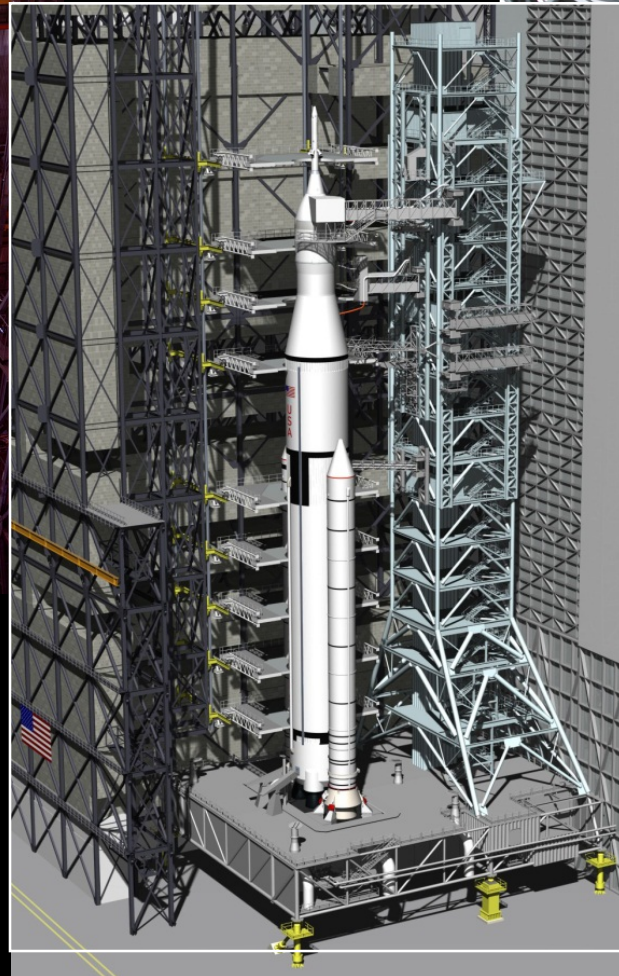
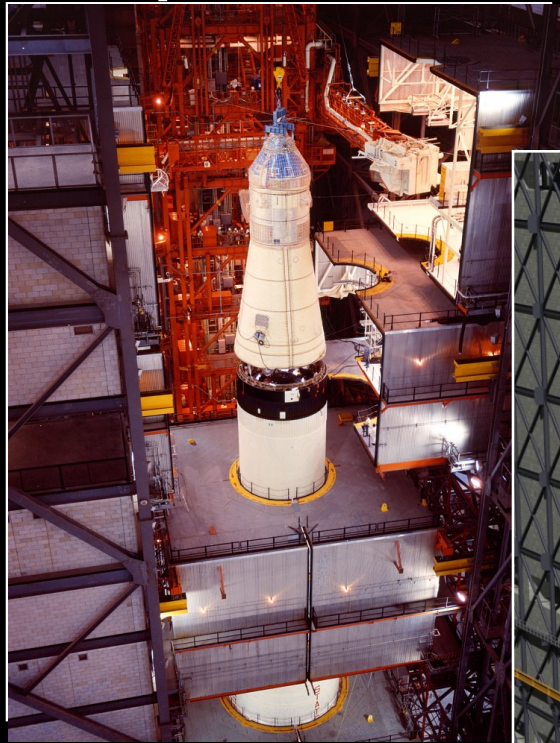
Launch Operations at Pad 39B



Planning and Studies to Support Small Class Vehicles

VAB TRANSFORMATION

Apollo Era



Shuttle Era

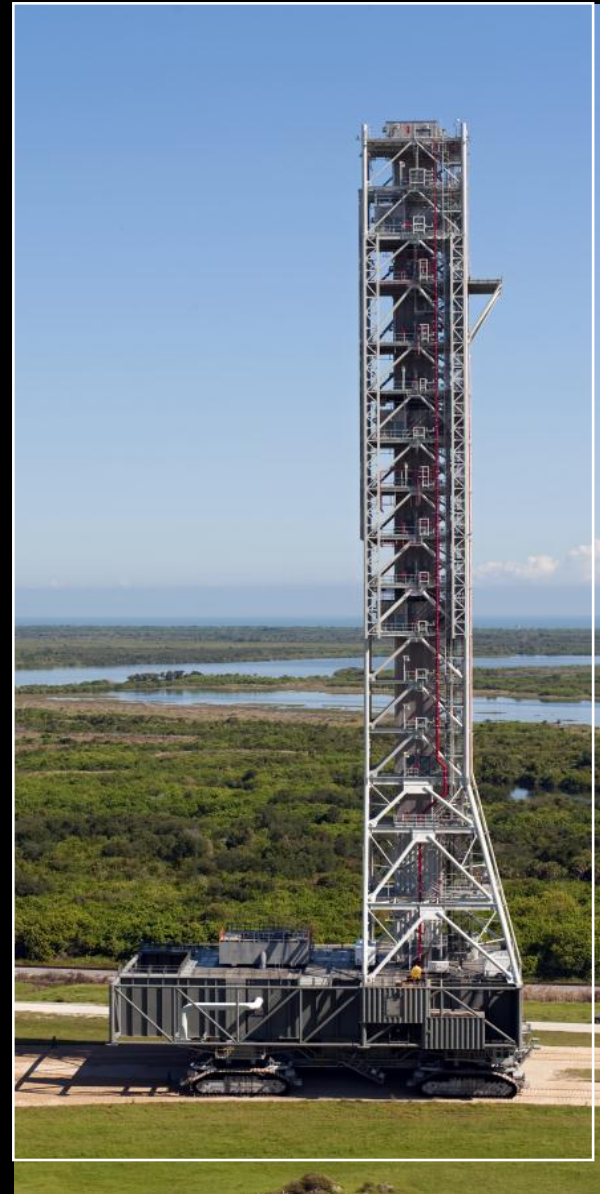


**The Future -
Assembly of the
SLS in the VAB**

MOBILE LAUNCHER TRANSFORMATION



**Apollo 11
Saturn V
space
vehicle
moving to
Pad 39A**



**New
Mobile
Launcher**

LAUNCH COMPLEX 39 TRANSFORMATION



Apollo/Saturn V Era



Space Shuttle Era



The Future – SLS Rocket on the Pad



LAUNCH CONTROL CENTER – FIRING ROOM 1



Apollo Program

Space Shuttle Program



21st Century Ground
Systems Program



O&C HIGHBAY TRANSFORMATION



Apollo Era



Orion Era



RIGHT-SIZING INFRASTRUCTURE



**NASA
Dedicated
Use**



**Shared
NASA / Non-
NASA Use**



**Non-NASA
Dedicated
Use**

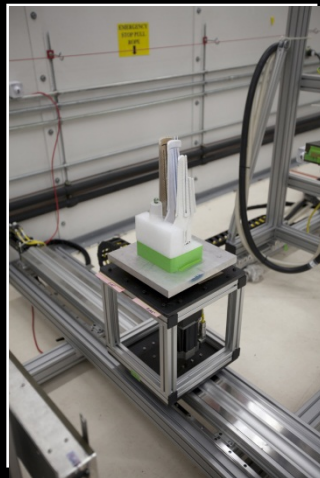


Demolished



SUCCESSFUL PARTNERSHIPS

- Hypergolic Maintenance Facility
- Hangar 'N'
- Space Shuttle Logistics Depot
- Orbiter Processing Facility 3
- Shuttle Processing Equipment
- Clean Room Labs
- SLSL
- Exploration Park



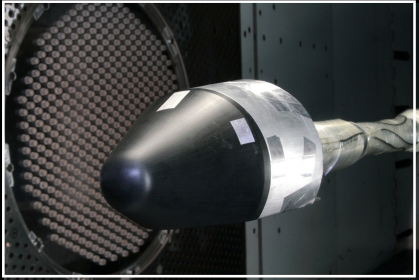
COMMERCIAL CREW PROGRAM



SpaceX



Blue Origin



Boeing

Sierra Nevada





LSP ROLE IN HUMAN SPACEFLIGHT

Risk Mitigation Advice for 2 New launch vehicles

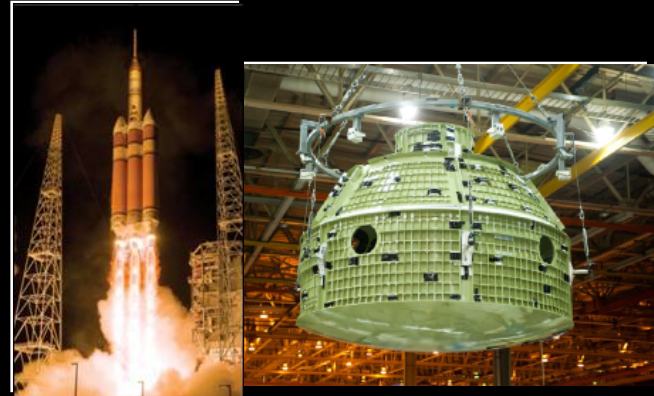


Commercial Resupply Services (CRS) for the International Space Station



Advisory Services

Aerodynamics, loads and autopilot experience



Exploration Flight Test-1 Gathers data for Space Launch System (SLS)

Synergy through common launch vehicles



Commercial Crew Program

- We have made human spaceflight feasible
 - Executed every human US launch into space since the first flight 50 years ago
- We are doing everything we can to make human spaceflight more efficient and affordable
 - Enable & leverage commercial capabilities where they exist
 - Leverage government capabilities where commercial capabilities don't exist
- We are transforming into a multi-user spaceport

KSC VISITOR COMPLEX



**New Atlantis Home
Opened June 29, 2013**



