National Aeronautics and Space Administration



LAUNCHING FORWARD

Bob Cabana, Director Kennedy Space Center

TRANSITION TO THE MULTI-USER SPACEPORT

The retirement of the Shuttle Program in 2011 marked the beginning of the Multi-User Spaceport a fundamental nexus between KSC's past and future

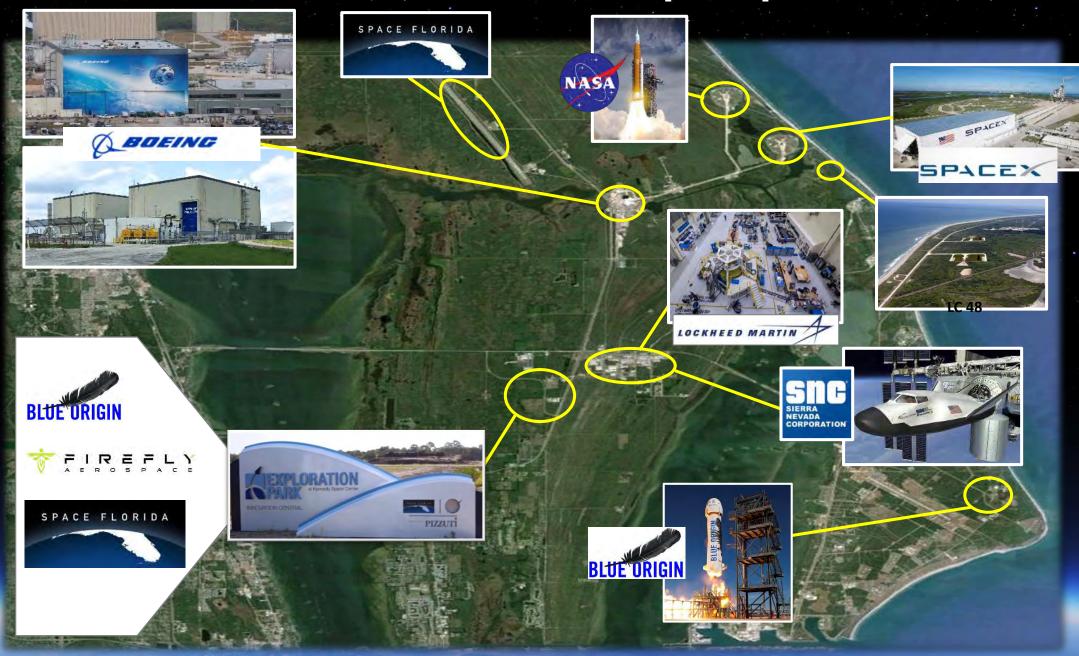
Since 2011, KSC has enabled a more diverse user base through outgrants and transfers of more than \$1.1 billion of assets NASA owned in 2011 to non-NASA stakeholders

The divestment of assets without diminishing capability changed KSC from a single program focus to a multi-user spaceport. Now, NASA is able to use new (and growing) launch capabilities to lower cost and achieve mission success





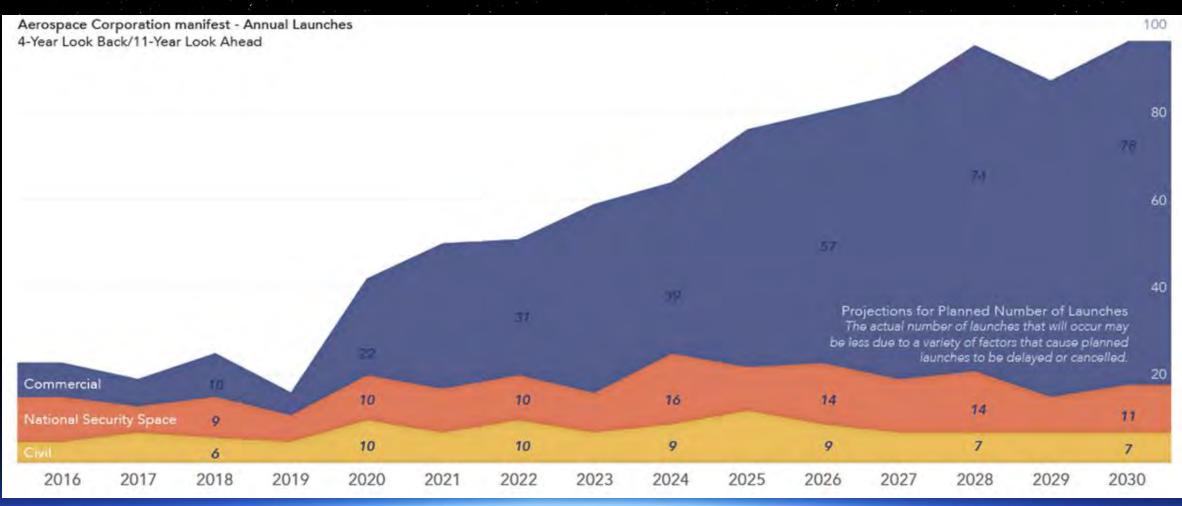
Premier Multi-User Spaceport



KSC ROADMAP

	2021	2022	2023	2024	2025
Exploration Research & Technology	Commercial Lunar Payload Services TOSAM-1 CDR MSolo-1 on Astrobot Astrobotic Mission	MSolo Integrated for VIPER Mission tic MSolo-2 on Masten Lander M ler PRIME-1 Delivered to Lander Pr	ISolo-2 Launch rime-1 Launch	VIPER Launch	OSAM-1 Robotic spacecraft servicing
International Space Station	NG-15 SpX-22 NG-16 SpX-23 SpX-24	HTV-X1 NG-17 SpX-25 SpX-26			
Commercial Crew SpaceX Boeing	Crew-2 OFT-2 CFT	Crew-4 PCM-1 PCM-2 SpX-20 SpX-20 SpX-20 Crew-5 Crew-5 Crew-5 PCM-3	Crew-6		
Launch Services	DART Landsat 9 Lucy JWST* IXPE GOES-T		RISAR* Tropics SWOT Psyche JPSS-2 PUNCH PACE	GOES-U SPHEREx Europa Clipper	OSAM- 1MAP Sent. 6B RST
Lunar Gateway			HALO+PPE Human Lander System		
Exploration Ground Systems	Facilities Block 1 Modifie	gency	SLS Artemis-2 Block 1 Crewed	ML-2 DCR	SLS Artemis-3 Block 1 Crewed
Multi user Spaceport	Crawler Way CCF, LC-39B Conditioning LH2 Upgrades	VAB Utility Annex Upgrades	LC-39B LN2 System	Indian R	iver Bridge CCHQ * _{Not} acement Phase 2 (2026)aunched from

EASTERN RANGE LAUNCH MANIFEST - 10-YEAR



DEVELOPMENT CONSIDERATIONS

While KSC encompasses 140K+ acres, the amount of land that is suitable for development is considerably less due a number of natural, man-made, and predicted development constraints





CONSIDERATIONS OVERLAY MAP

QUANTITY-DISTANCE (QD) ARCS

Numerous facilities on KSC require buffer distances to ensure that nearby facilities and employees are protected from explosive materials

THREATENED AND ENDANGERED SPECIES

KSC is home to 14 federally listed species including the 2nd largest habitat of the endangered Florida Scrub Jay in the world. Its habitat, public recreational opportunities, and other environmentally sensitive areas are actively managed by the US Fish and Wildlife Service

SEA LEVEL RISE

Due to its proximity to the Atlantic Ocean and rising seas, future development in areas forecasted to experience future flooding should be avoided

WETLANDS

KSC is designated as a wildlife refuge and located on a barrier island with ~96k acres of wetlands. Mitigation opportunities to offset development on wetlands have become increasingly scarce

SPACEPORT GROWTH BOUNDARIES

Taking all constraints into account, only 7,500 acres is available to accommodate future development

Spaceport Growth Boundaries (SGBs) identifies future developable property unencumbered by constraints

- Expands on KSC districts produced during Vision Workshop and developable land uses identified in 2014 Master Plan and EIS
- Aligns with infill development strategy and increases NASA cost savings
- Concentrates future non NASA development in Space Commerce Way
 District near Exploration Park

Programmatic EA produced in parallel with Vision Plan

- Assesses broad, cumulative impacts of future land use change and development on KSC
- Fulfills Agency NEPA (National Environmental Policy Act) requirement to incorporate visioning process and federal partners (US F&W) input
- Landmark approach due to KSC's expansive and unique property



