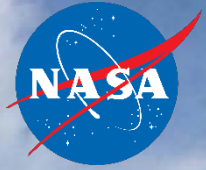
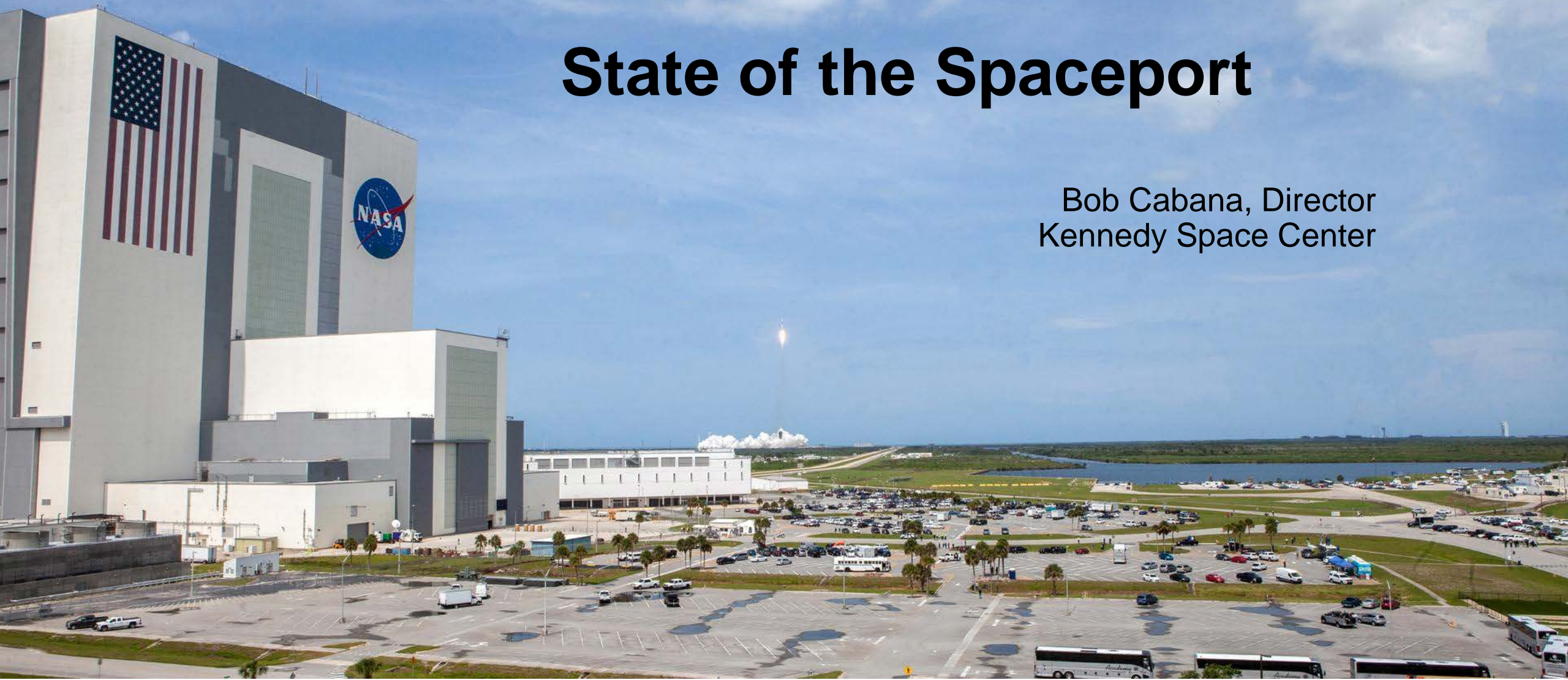



National Aeronautics and
Space Administration



State of the Spaceport

Bob Cabana, Director
Kennedy Space Center





KENNEDY SPACE CENTER GO

Premier Multi-User Spaceport



BOEING



SPACEX



LC 48



LOCKHEED MARTIN



snc
SIERRA
NEVADA
CORPORATION

BLUE ORIGIN

FIREFLY
AEROSPACE

SPACE FLORIDA



BLUE ORIGIN

KSC Roadmap

2021

2022

2023

2024

2025

Exploration Research & Technology



International Space Station



Commercial Crew



Launch Services



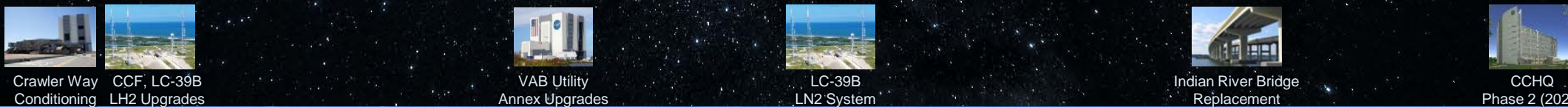
Lunar Gateway



Exploration Ground Systems



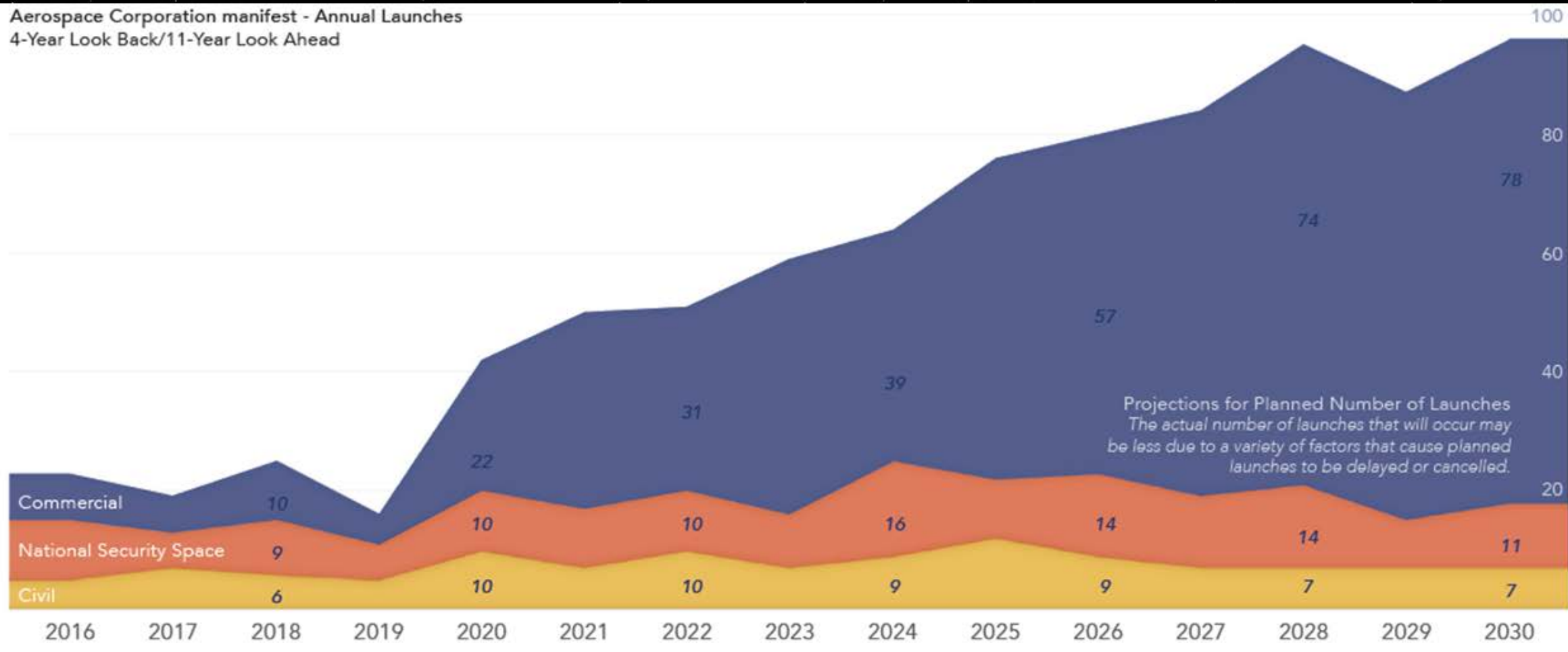
Multi-user Spaceport



* Not launched from

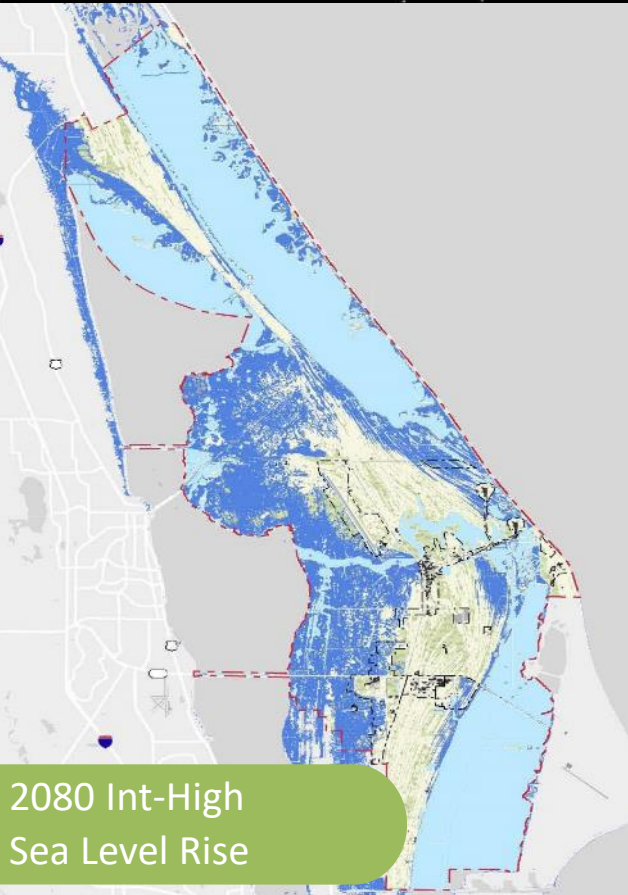
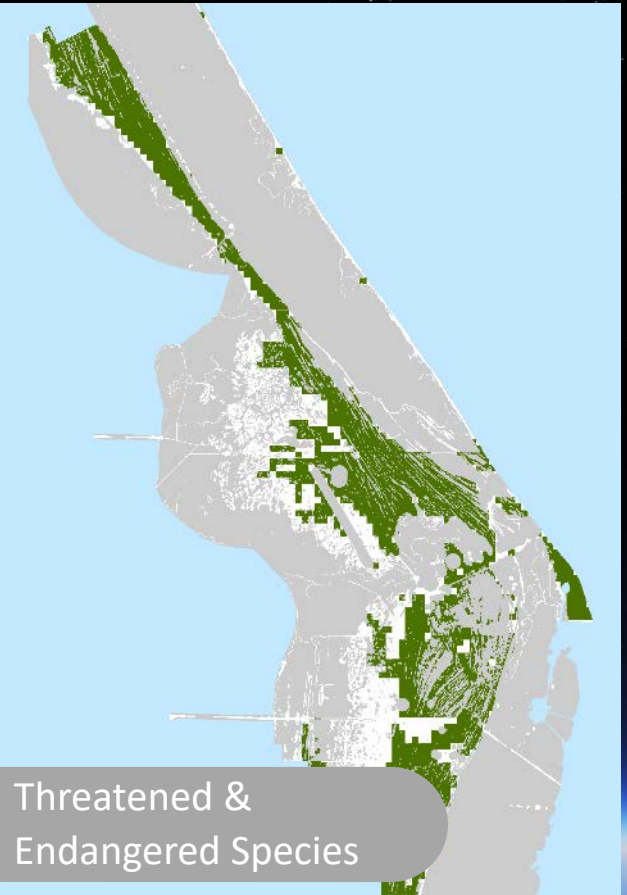
EASTERN RANGE LAUNCH MANIFEST - 10-YEAR

Aerospace Corporation manifest - Annual Launches
4-Year Look Back/11-Year Look Ahead



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

