Building a Thriving Space Enterprise on the Central Coast of California

Commercial Space Master Plan

GOAL 1: Attract Space Industry Activities to the Central Coast

OBJECTIVE 1.1 STRENGTHEN THE ECOSYSTEM BY ESTABLISHING A CONCIERGE ENTITY TO SUPPORT ATTRACTION AND DEVELOPMENT EFFORTS

1.1.1 CONCIERGE ENTITY DESIGN

Develop the business plan and operating model for a concierge function either through REACH, GO-Biz, or some other construct that can advance and accelerate the goals of the region and the recommendations of these development efforts.

1.1.2 ESTABLISH A SPACE ROUNDTABLE

Assess the use of a similar construct to the Arizona Space Business Roundtable (ASBR) for an engagement mechanism, likely in concert with the concierge function, to support industry and ecosystem engagement.

1.1.3 STRENGTHEN LINKAGES WITH VENTURE CAPITAL AND PRIVATE EQUITY GROUPS

Develop a venture and accelerator engagement strategy to engage with VCs, angel investors, high-net-worth individuals etc., to ensure that companies looking to come to the Central Coast and VSFB have appropriate access to potential capital sources.

OBJECTIVE 1.2 ATTRACT ADDITIONAL LAUNCH SERVICES PROVIDERS

1.2.1 SUPPORT FASTER TIMES FROM SITE IDENTIFICATION TO FIRST LAUNCH

Increase the attraction of Vandenberg by increasing the time from site identification to first launch through process improvement, identification of bottlenecks, and the communication of critical environmental regulations.

1.2.2 SUPPORT THE DEPLOYMENT OF OPERATIONALLY RESPONSIVE SPACE CAPABILITIES AT VANDENBERG

Increase the attraction of Vandenberg for the location of ORS and similar assured access to space capabilities by launch services providers by focusing on on-base land-use and mission development zone design and supporting regional capabilities to support an increased and sustained workforce and local operations.

1.2.3 SUPPORT THE DEPLOYMENT OF TACTICALLY RESPONSIVE SPACE CAPABILITIES AT VANDENBERG

Increase the attraction of Vandenberg for the location of TRS and similar assured access to space capabilities by launch services providers by focusing on continued technology horizon scanning, on-base land use and mission development zone design, and supporting regional capabilities to support an increased and sustained workforce and local operations, and coordination with the State of California's Governor's Military Council and other relevant entities to promote and attract TRS solutions and missions.

OBJECTIVE 1.3 ATTRACT ADDITIONAL SPACE INDUSTRY COMPANIES BEYOND LAUNCH SERVICE PROVIDERS

1.3.1 FOCUS ON THE ATTRACTION OF SPACE DOMAIN AWARENESS (SDA) AND SPACE TRAFFIC MANAGEMENT COMPANIES (STM) AND ACTIVITIES TO THE CENTRAL COAST REGION

Space domain awareness is a critical enabling capability for space launch and space operations as well as a key activity for the U.S. Space Force at Vandenberg SFB as part of the Combined Space Operations Center (CSpOC). Increase the attractiveness of co-location for SDA and STM through promotion of existing regional activities, the potential for access to a talented workforce for those who retire from the CSpOC at VSFB, and the ability of a carefully crafted mission development zone design to encourage knowledge transfer through co-location synergies.

1.3.2 FOCUS ON THE ATTRACTION OF REMOTE SENSING AND GROUND SYSTEM PROVIDERS

Promote the alignment between remote sensing capabilities and key agricultural, environment, sustainability, conservation, forestry, and wildlife goals within the State of California and the region as well as access to a talented software engineering and analytics workforce from leading regional academic institutions.

OBJECTIVE 1.4 IMPROVE THE REGULATORY AND BUSINESS ENVIRONMENT

1.4.1 ASSESS TAX IMPACTS AND IMPLICATIONS IN SUPPORT OF ATTRACTION INCENTIVIZATION

Leverage space activity economic impact report to assess the impact of tax credits or other tax liability offsets.

1.4.2 STREAMLINE PROCESSES

Streamline processes and capabilities, potentially through the concierge function, to ensure that initial engagement of first operational activities is a smooth and mostly seamless process for commercial entities.

1.4.3 LIABILITY & INDEMNIFICATION ASSESSMENT

Produce an assessment of the limiting regulations and policies that would impact human spaceflight in California.

Credit: U.S. Air Force photo by Joe Davila/Released

GOAL 2: Modernize and Invest in Infrastructure

OBJECTIVE 2.1 IMPROVE ON-BASE LAUNCH SUPPORTING INFRASTRUCTURE

2.1.1 DESIGN AND BUILD SUPPORTING LAUNCH SERVICES INFRASTRUCTURE

Build supporting shared-used launch services infrastructure that supports multiple launch providers such as GN2 pipelines, roads, sewer, and other utilities to new and additional launch sites on South VSFB.

2.1.2 INFRASTRUCTURE INVESTMENT AND DEVELOPMENT PLAN

For identified and prioritized infrastructure, produce cost-benefit analysis and continue to assess and refine the shared infrastructure plan.

OBJECTIVE 2.2 IMPROVE ON-BASE TRANSPORTATION AND LOGISTICS INFRASTRUCTURE

2.2.1 DESIGN AND BUILD EASE-OF-ACCESS INFRASTRUCTURE

Build ease-of-access infrastructure that supports increased launch tempos and additional base uses inclusive of new gate access and North VSFB to South VSFB flyover bridge.

2.2.2 DESIGN AND BUILD LOGISTICS INFRASTRUCTURE

Build or improve logistics infrastructure to support increased launch tempos, new launch CONOPS, and increased base activities inclusive of items such as the boat dock and rail spurs.

OBJECTIVE 2.3 DEVELOP THE MISSION DEVELOPMENT ZONE

2.3.1 ANCHOR TENANT RECRUITMENT

Assess ability to attract anchor tenancy and activities to the region that support "green" priorities including conservation, environmental impact, climate change, wildfire management, and more.

2.3.2 DEVELOP A MISSION DEVELOPMENT ZONE DESIGN AND PLANNING GUIDE

Produce mission development zone guide tied to Phase 0/1 findings and produce associated development cost analysis. Assess available land/facilities throughout the county as part of an alternative analysis.

2.3.3 PRODUCE A SCIF PAYLOAD PROCESSING OR OTHER FLEX DEVELOPMENT FACILITY DESIGN AS PART OF THE MISSION DEVELOPMENT ZONE

Produce cost analysis and business case for a SCIF PPF or similar flex development space and assess placement within the mission development zone as part of the mission development zone design.

2.3.4 PRODUCE A SPACE TECHNOLOGY ACCELERATOR DESIGN

Develop academic incubator and accelerator concepts, engagement mechanisms, and associated business case.

GOAL 3: Strengthen the Central Coast Space Identity

OBJECTIVE 3.1 ESTABLISH A CLEAR, MODERN BRAND FOR THE CENTRAL COAST SPACE ECOSYSTEM

3.1.1 ESTABLISH A COHESIVE BRANDING AND MARKETING IDENTITY FOR THE CENTRAL COAST SPACE ECOSYSTEM

Create a clear, modern identity for the Central Coast space ecosystem that aligns our vision and ambitions for industry growth to the core tenets of the region such as conservation, environmental sustainability, tourism, wine, and open space.

OBJECTIVE 3.2 INTEGRATION OF SPACE AND REGIONAL QUALITY OF LIFE ATTRIBUTES

3.2.1 DEVELOP INITIATIVES TO INCREASE SPACE INDUSTRY ACTIVITIES IN THE REGION COMPATIBLE WITH SCIENCE, TECHNOLOGY, ENGINEERING, AND MATH (STEM) EDUCATIONAL PRIORITIES FOR K-12

Assess the demand and required engagement mechanisms and infrastructure required to support increased STEM education priorities in the region.

3.2.2 INTEGRATE ENTERTAINMENT AND TOURISM ACTIVITIES INTO THE SPACE INDUSTRY ATTRACTION PLANS AND ASSOCIATED DEVELOPMENT INITIATIVES

Assess the linkages between space, entertainment, and tourism to capitalize on expanded industry activities and regional entertainment, tourism, and open space assets.

3.2.3 PROMOTE THE LINKAGES BETWEEN SPACE INDUSTRY GROWTH AND CONSERVATION PRIORITIES

Produce educational and informational materials to describe and demonstrate how the growth of the space industry aligns and supports thoughtful growth that aligns with environmental goals and the region's identity.

OBJECTIVE 3.3 WORKFORCE DEVELOPMENT AND ECONOMIC MOBILITY

3.3.1 INCENTIVIZE WORKFORCE DEVELOPMENT AND ECONOMIC MOBILITY THROUGHOUT THE REGION

Promote greater linkages between current and future space companies with the region's leading academic institutions and their extensive aerospace degree programs to increase the recruitment of local talent and the sustainment of local space industry jobs.

OBJECTIVE 3.4 HOUSING AND TRANSPORTATION

3.4.1 PLAN FOR FUTURE COMMUNITY NEEDS

Support the needs of a growing high-tech workforce by producing sufficient housing and associated infrastructure, such as roads, renewable energy, water, and broadband internet. Leverage the results of 2021 planning efforts, such as Lompoc's Office of Local Defense Community Cooperation grant and the Environmental Protection Agency Building Blocks technical assistance to optimize community development planning and action.

3.4.2 ADVOCATE FOR TRANSPORTATION INFRASTRUCTURE AND SERVICE

Prioritize and invest in reducing vehicle miles traveled, which can take the form of increased public transportation, improved roadways and sufficient housing for the workforce in close proximity to work centers.