











### **Overview**

- 1. Who We Are
- 2. Timeline
- 3. Economic Impact
  - Current State
  - Forecast
- 4. Commercial Space Master Plan
  - Market Analysis
  - Commercial Players
  - Assets
  - Central Coast Identity
  - Vison
  - Goals + Objectives
  - 5. Next Steps









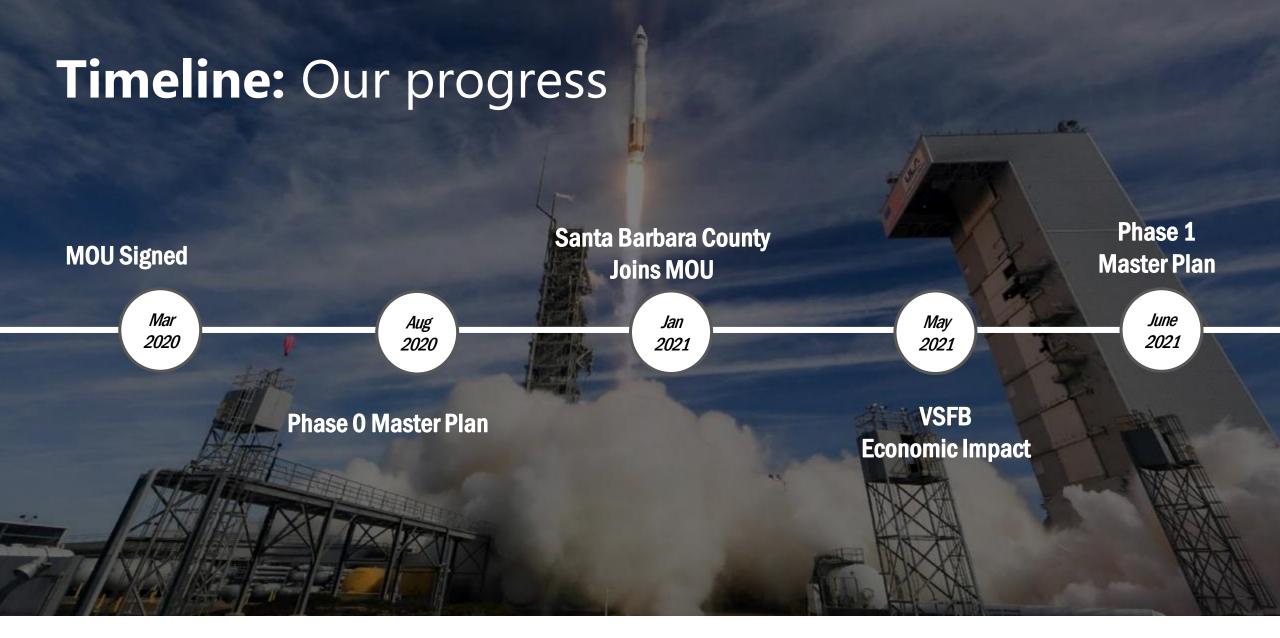














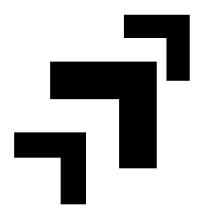






### **Economic Impact:** Deliverable 1

**ECONOMIC IMPACT OF VANDENBERG AIR FORCE BASE ON SANTA BARBARA** AND SAN LUIS OBISPO **COUNTIES** CALIFORNIA POLYTECHNIC STATE UNIVERSITY APRIL 28, 2021



Economic
Impact
Analysis and
Future
Growth
Forecast

### **Economic Impact:** The Model

#### ECONOMIC IMPACT MODEL





## **Economic Impact:** Vandenberg Space Force Base

Current State

### SANTA BARBARA COUNTY

**CALIFORNIA** 

Average Annual Total Employment (Jobs)



13,497

Average Annual Output (\$)



\$4.7B

Average Annual Total Employment (Jobs)



18,416

Average Annual Output (\$)



\$6.3B

### **Economic Impact:** Vandenberg Space Force Base

Forecast: Commercial Space Expansion

### SANTA BARBARA COUNTY

**CALIFORNIA** 

Average Annual Total Employment (Jobs)



15,348

Average Annual Output (\$)



\$5.3B

Average Annual Total Employment (Jobs)



20,899

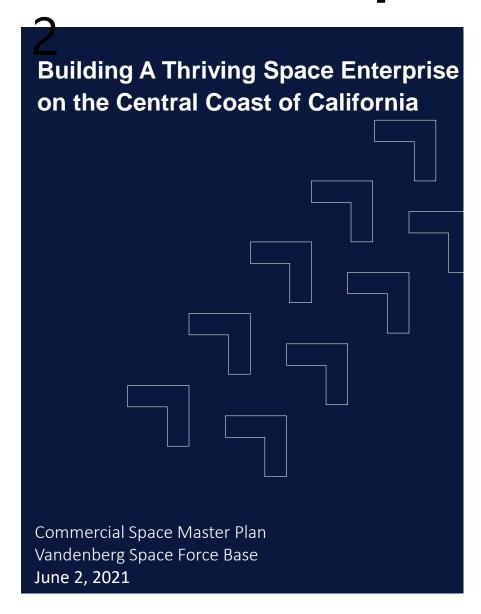
Average Annual Output (\$)

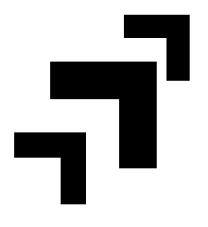


\$7.1B

Santa Barbara County is estimated to add 2,000 high paying jobs and \$1.58 additional economic impact by 2025

## Commercial Space Master Plan: Deliverable

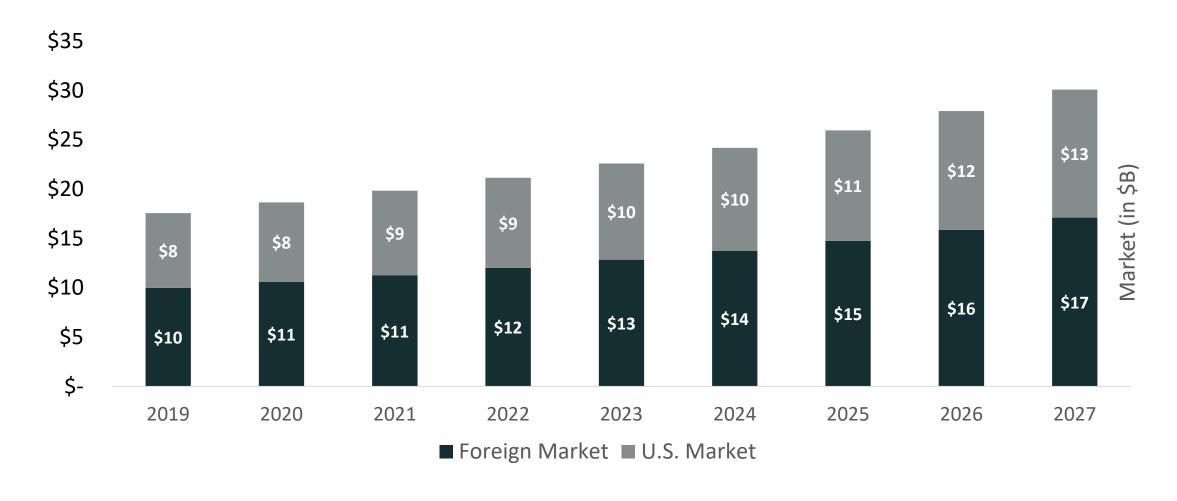




Phase 1 Commercial Space Master Plan

### Commercial Space Master Plan: Market

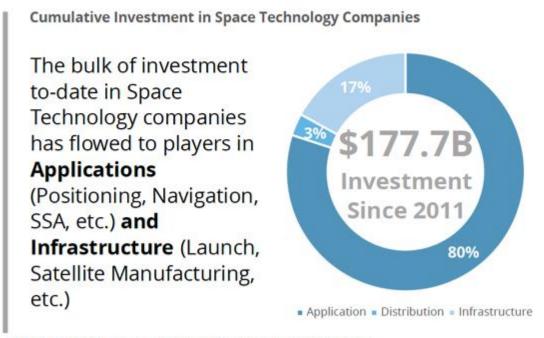
Analysis The global launch market is predicted to reach up to \$30B USD by the year 2027, with the United States capturing about 40% of the market.



# Commercial Space Master Plan: Market Analysis

\$25.6B Invested in space companies in 2020

359 Investments in space companies in 2020



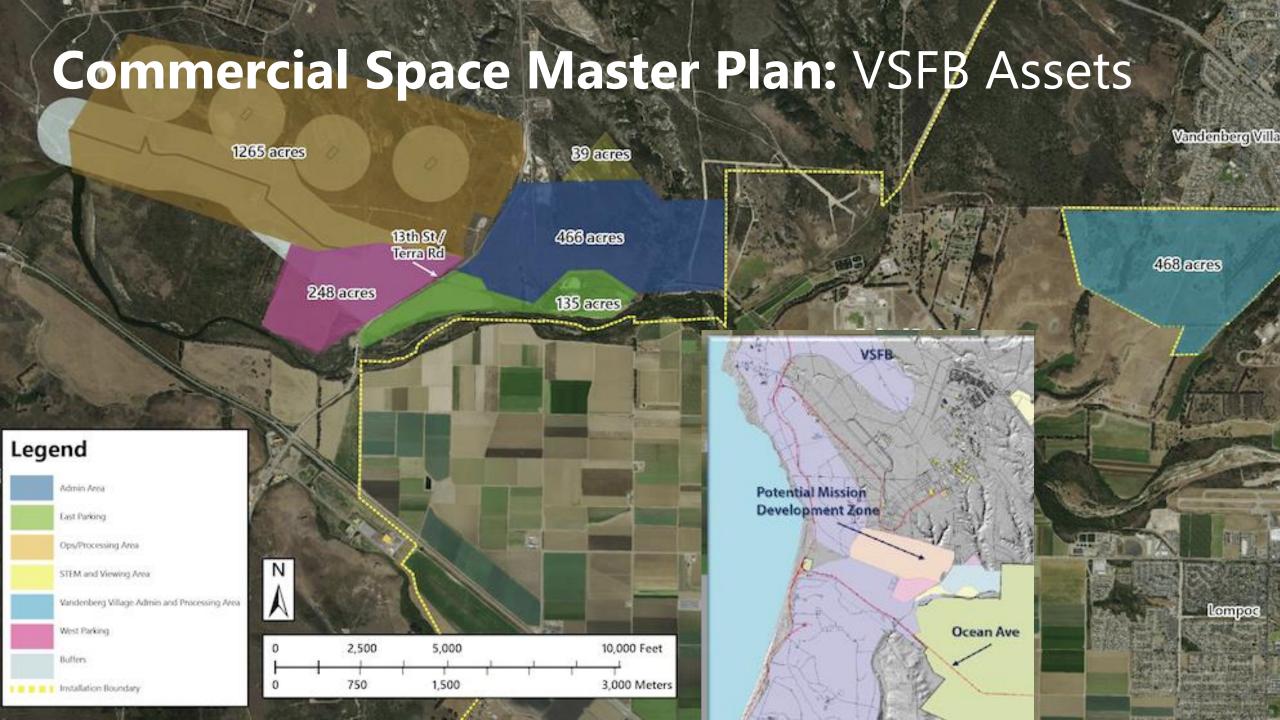
2020 Investment In Space Technology Companies \$16 These startups are \$14 increasingly reaching \$12 maturity, indicated by the \$10 dominance of later-stage \$8 funding rounds in 2020. \$6 \$4 \$2 \$0 Series C Late Stage Seed Series A Series B

Data Source: Space Capital Q4 Investment Report

# **Commercial Space Master Plan:** VSFB Assets

- VSFB (Western Range)
- 100,000+ Acres of Land
- Potential mission development zone
- 19<sup>th</sup> largest runway in the world (15,000ft)
- Launch sites on North and South Base
- Space fueling and payload processing
- 38 designated sites, 15 operational sites, 3 future use, 1 training site
- Premier polar orbit launch site
- Boat Dock





# Commercial Space Master Plan: Central Coast Identity

- Strong sense of stewardship for the environment that makes this a world-class place to live and work
- Open spaces, recreation, agriculture and innovation
- Premiere education systems (UC, CSU, Community colleges)
- STEM fields like engineering, software, design, analysis; as well as marketing, logistics, advanced manufacturing, construction
- Consistent tourism, an agreeable climate and clean environment, and a geography situated between the
- Halfway between metropolitan hubs of San Francisco and Los Angeles

### Commercial Space Master Plan: Commercial

Players STRONG AND GROWING LIST OF **COMMERCIAL SPACE LAUNCH PROVIDERS** 

SAMPLING OF GROWING LIST OF LOCAL **COMMERCIAL SPACE COMPANIES** 































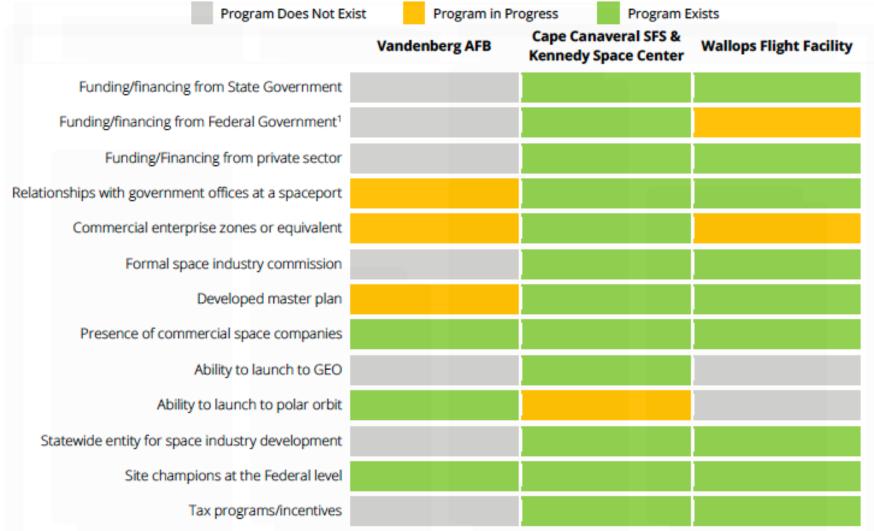




# Commercial Space Master Plan: Competitive

Analysis

Market Attractiveness Matrix for Major U.S. Government-Operated Spaceports



# Commercial Space Master Plan: Vision

To build a thriving space enterprise at Vandenberg SFB and in the surrounding Central Coast Communities that delivers the capabilities, infrastructure, and workforce to support sustained access to space, increased and responsible utilization of space-based capabilities and resources, and advances the quality of life and interests of the Central Coast communities.

### OUTCOMES

1.

Increased number of space industry businesses and jobs on the Central Coast

2.

Attracted new talent from higher education with skills suited to a technology driven workforce

3.

Established a reputation as a space technology innovation hub

# Commercial Space Master Plan | Goal 1: Attract Space Industry Activities to the Central Coast OBJECTIVES

**Establish Concierge Entity** 

- 1. Concierge Entity Design
- 2. Establish a Space Roundtable
- 3. Strengthen Linkages with Venture Capital and Private Equity Groups

Attract Launch
Services Providers

Attract Secondary Service Providers

Improve Regulatory & Business Environment

#### **INITIATIVES**

- 1. Support Faster Times from Site ID to First Launch
- 2. Support Operationally Responsive Space Capabilities
- 3. Support Tactically Responsive Space Capabilities

- 1. Attraction of SDA and STM
- 2. Attraction of remote sensing and ground system providers

- 1. Assess Tax Impacts/Incentives
- 2. Streamline Processes
- 3. Assess Liability & Indemnification

# Commercial Space Master Plan | Goal 2: Modernize and Invest in Infrastructure OBJECTIVES

Improve On-Base Launch Supporting Infrastructure

Improve On-Base Transportation and Logistics Infrastructure

**Develop the Mission Development Zone** 

- 1. Design and Build Supporting Launch Services Infrastructure
- 2. Infrastructure Investment and Development Plan

### **INITIATIVES**

- Design and Build Easeof-Access Infrastructure
- 2. Design and Build Logistics Infrastructure

- 1. Anchor Tenant Recruitment
- 2. Develop a Mission Development Zone Design and Planning Guide
- 3. Produce a SCIF Payload
  Processing/ Flex Development
  Facility Design
- 4. Produce a Space Technology Accelerator Design

### **Commercial Space Master Plan** | Goal 3: Strengthen the Central Coast Space Identity **OBJECTIVES**

**Central Coast Space Ecosystem Brand** 

**Establish a Cohesive Branding and Marketing Identity for the Central Coast Space Ecosystem** 

**Integrate Space and Regional Quality** of Life

**Workforce Development and Economic Mobility** 

**Housing and Transportation** 

#### INITIATIVES

- **Develop Initiatives to Increase** Space Industry Activities in the **Region Compatible with K-12 STEM Education Priorities**
- **Integrate Entertainment & Tourism Activities into Attraction Plans and Development Initiatives**
- **Promote Linkages between Space Industry Growth and Conservation Priorities**

**Incentivize Workforce Development and Economic Mobility** throughout the Region

- Plan for Future **Community Needs**
- Advocate for **Transportation** Infrastructure and Service

