



SOUTHORBIT

BEYOND OUR HORIZON

Africa's Premier Aerospace & Satellite Technology

SERIES A INVESTMENT OPPORTUNITY

\$75 MILLION

www.southorbit.space/investors

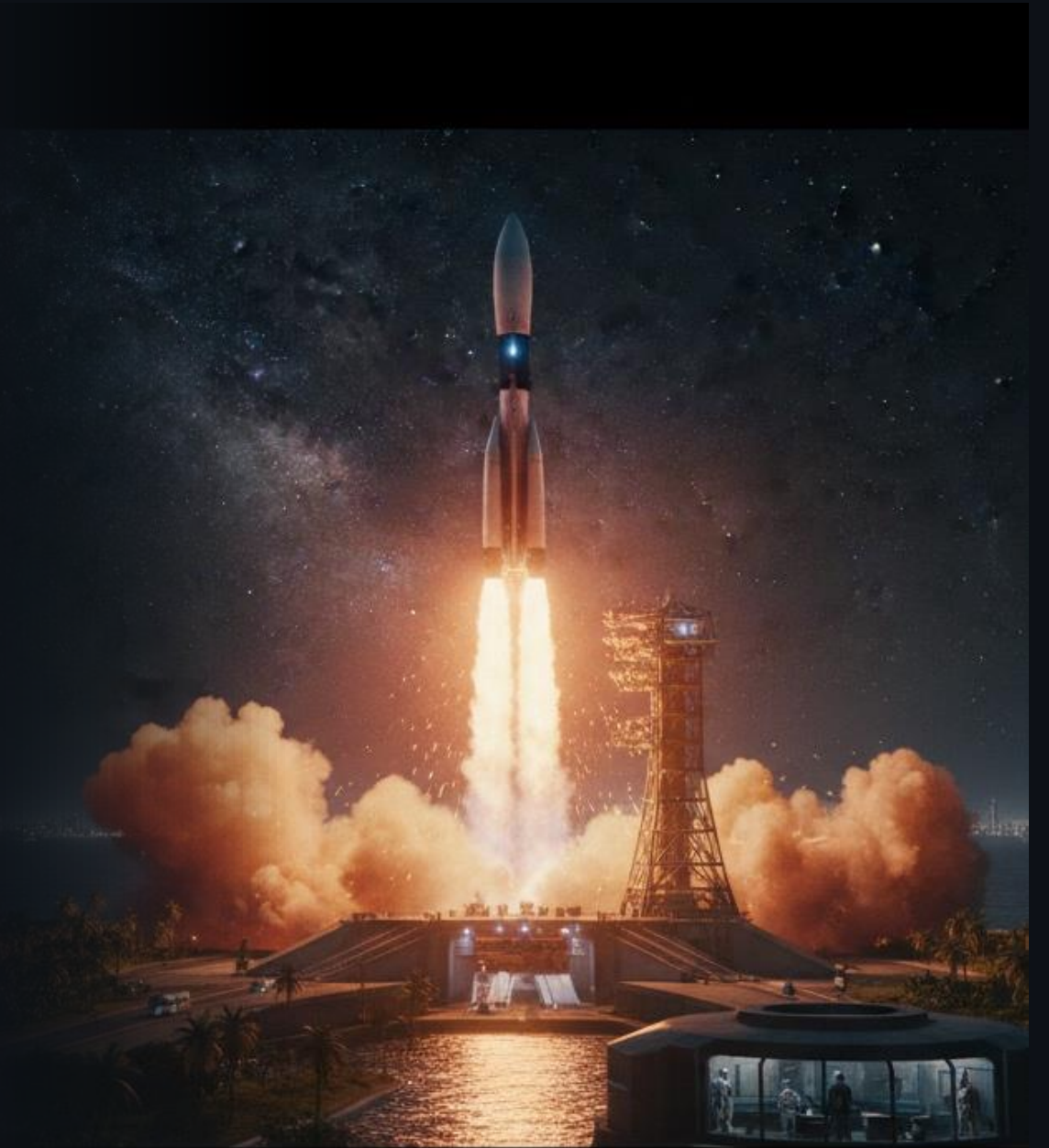
THE MISSION

Building Africa's Space Future

SOUTHORBIT is on a mission to become the **first South African company** to launch a large-scale orbital rocket at **50% less cost** than global competitors.

Headquartered in **Cape Town** with testing facilities in **Johannesburg**, we are developing proprietary propulsion systems, autonomous robotics & AI, satellite platforms, and next-generation communications.

This pitch presents our business plan and the investment opportunity to establish **Africa's first world-class aerospace manufacturing and launch facility.**



\$1.8T

Global Space Economy by 2035

50%

Cost Reduction Target

\$75M

Series A Raise

2028

First Launch Target

STRATEGIC ROADMAP

01

THE OPPORTUNITY

Global space economy, Africa's \$7B+ annual spend, and why now is the time

02

OUR BUSINESS UNITS

Drones, internet, robotics, and propulsion — four divisions, one mission

03

TECHNOLOGY

Proprietary propulsion, AI robotics, and satellite platforms

04

THE ROCKET

SOAR-1: Africa's first large-scale orbital launch vehicle

05

INVESTMENT

\$75M Series A, financial projections, and path to launch

01

THE OPPORTUNITY

Why Africa? Why Now? Why SOUTHORBIT?



THE GLOBAL SPACE ECONOMY: \$1.8 TRILLION BY 2035

\$1.8T

Global space economy projection by 2035

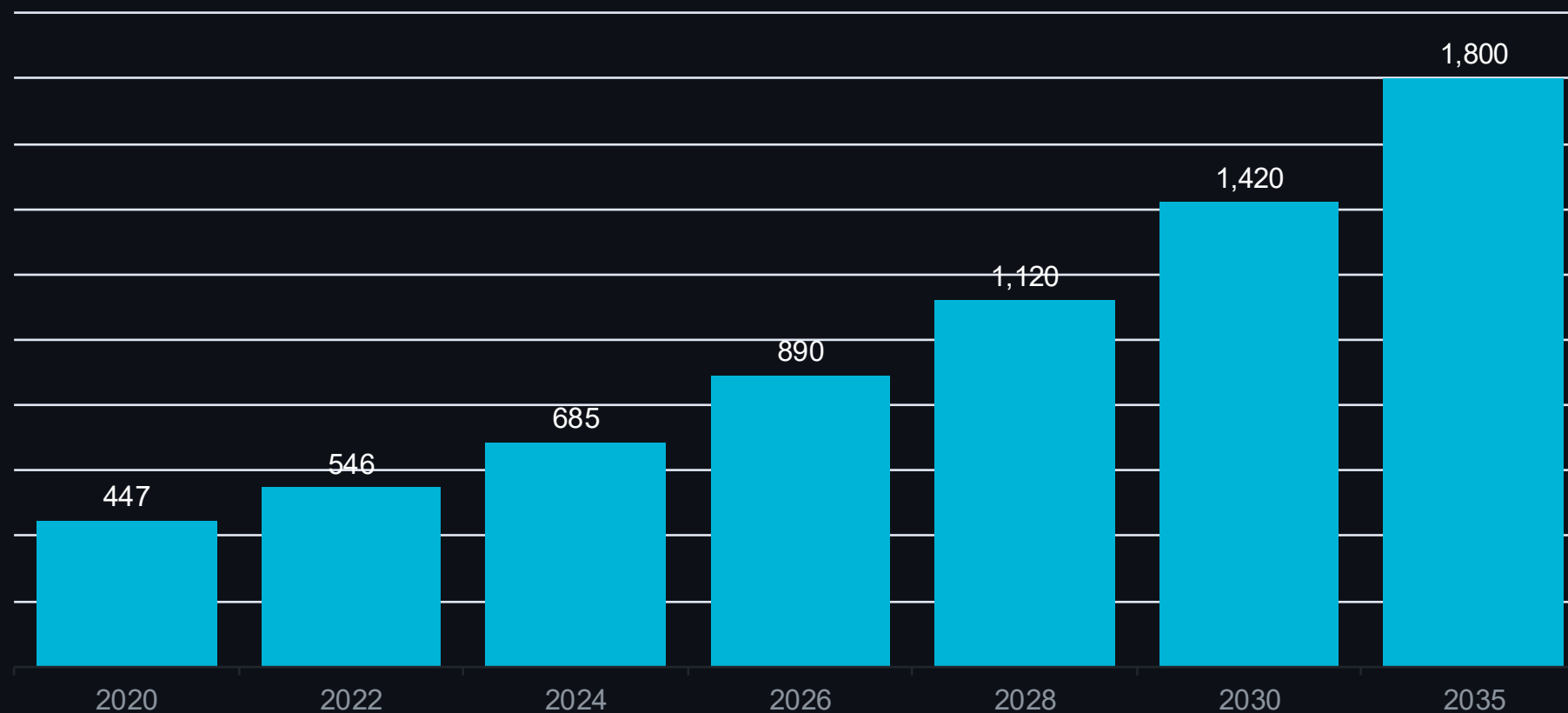
\$67-109M

Current cost per launch (Falcon 9 / Atlas V)

\$7B+

Africa's annual satellite service spend (offshore)

Global Space Economy Growth Projection (\$ Billions)



KEY INSIGHT

No African nation has indigenous large-rocket launch capability. **SOUTHORBIT fills this critical gap** with a plan to deliver launches at **50% below global rates**.

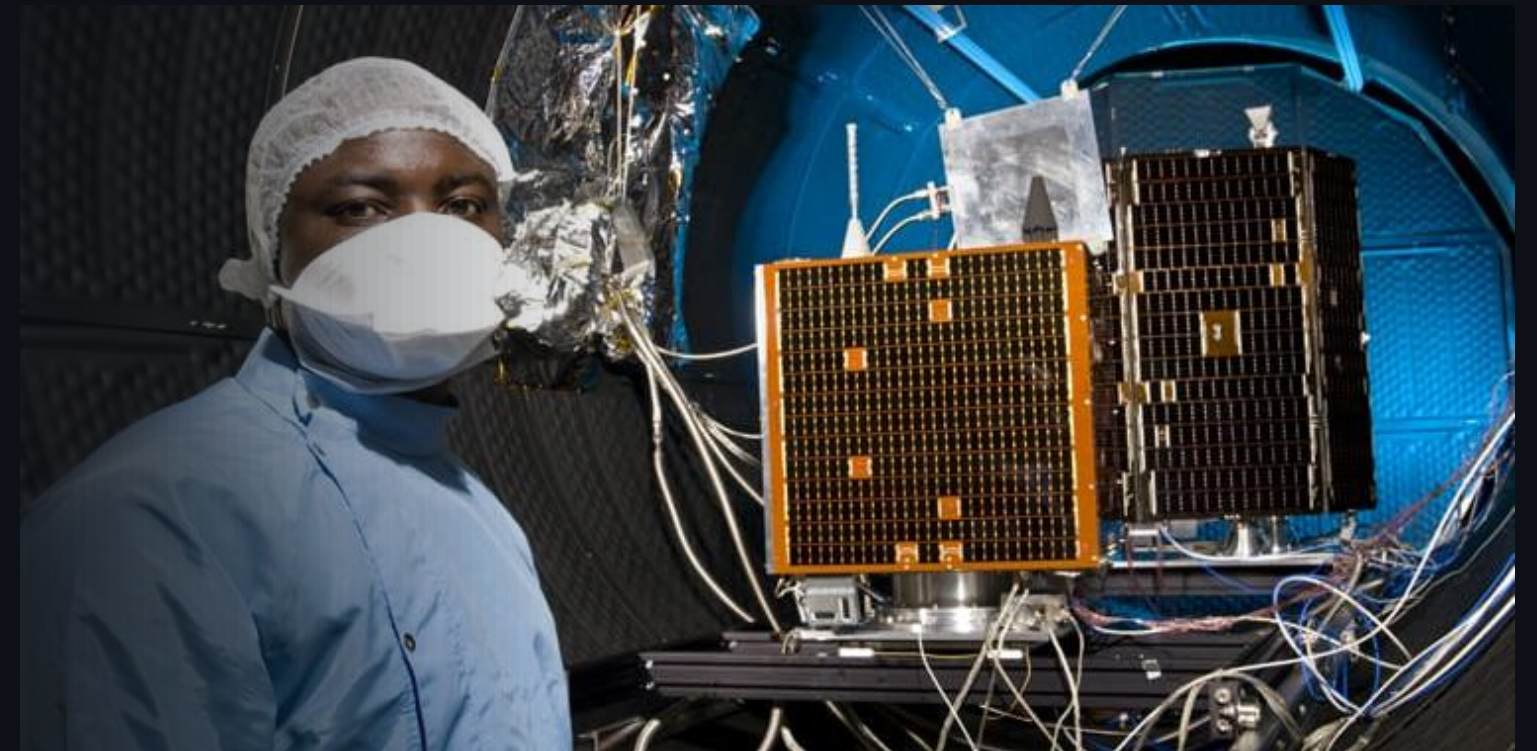
The market is growing at **8.7% CAGR** and Africa is the last untapped continent in the space race.

AFRICA'S \$7B+ ANNUAL SPACE SPEND GOES OFFSHORE

Africa relies **100% on foreign launch providers** for all satellite deployments, sending deployments, sending **\$60-110M** overseas per launch.

The African space industry grows at **8.7% CAGR**, yet the continent has:

- ✓ No indigenous large-rocket program
- ✓ No orbital launch facility
- ✓ Limited technology transfer agreements
- ✓ Years-long launch queue waiting times



WHY SOUTH AFRICA IS UNIQUE

Advanced Industrial Base

Established mining, manufacturing & engineering sector

Aerospace R&D Heritage

CSIR, Denel Space, and university research programs

Optimal Launch Geography

Ideal southern location for polar & sun-sun-sun orbits

Favorable Regulations

Government support for African space sovereignty

SOUTHORBIT's first-mover advantage creates an unassailable market position — no competitor has our combination of technology, geography, and timing.

PROHIBITIVE COSTS STIFLE AFRICA'S SPACE AMBITIONS

THE PROBLEM

- ✗ Every satellite Africa launches pays **\$60-110M** to foreign providers
- ✗ African nations wait in launch queues for **years**
- ✗ Technology transfer agreements are **restrictive and expensive**
- ✗ Africa's scientists lack **sovereign access to space**

OUR SOLUTION

- ✓ **End-to-end African launch capability** at half the cost
- ✓ **On-demand launch scheduling** — no more queues
- ✓ Full **technology ownership** and IP control
- ✓ Putting the **continent in control** of its space destiny

SOUTHORBIT: THE ONLY COMPANY BUILDING AFRICA'S PATH TO SPACE SOVEREIGNTY

A futuristic space station interior with robotic arms and a humanoid robot. The scene is dimly lit with blue and white tones. In the foreground, a robotic arm is positioned over a table with various components. In the background, a humanoid robot stands near another robotic arm. The overall atmosphere is high-tech and futuristic.

OUR BUSINESS UNITS

A Diversified Technology Portfolio Funding the Space Mission

BU-1: ADVANCED DRONE MANUFACTURING



SOUTHORBIT Drone Manufacturing Facility (Rendering)

SOUTHORBIT Drones produces **commercial and industrial UAVs** for agriculture, mining, security, and surveying applications across Africa.

Our drones integrate proprietary flight control systems, AI-powered navigation, and long-range communication technology.

\$450M

Africa Drone Market by 2028

REVENUE MODEL

Direct Sales + DaaS + Software Licensing

KEY CAPABILITIES

- ▶ Autonomous flight with AI obstacle avoidance
- ▶ 4-hour endurance for industrial surveys
- ▶ Satellite communication link (50km+ range)
- ▶ Modular payload system (cameras, sensors, delivery)
- ▶ Immediate revenue funding propulsion R&D

BU-2: ULTRA-FAST INTERNET INFRASTRUCTURE

SOUTHORBIT Communications develops **next-generation fiber-optic routers and routers and mesh network systems** delivering 10Gbps+ connectivity.

Targeting Africa's underserved broadband market where **60% of the population** lacks reliable internet access.

Our proprietary router technology reduces latency by **40%** while cutting hardware costs by **30%**.



10 Gbps+

Router Speed

40%

Latency Reduction

30%

Cost Reduction

60%

Africa Without Broadband

REVENUE STREAMS



Hardware Sales

ISP and enterprise routers



Enterprise Networks

Corporate solutions



Consumer Products

Home mesh networks



Satellite Comms

Ground stations

BU-3: ROBOTICS & AUTONOMOUS SYSTEMS

SOUTHORBIT Robotics develops AI-powered autonomous systems for both space and terrestrial applications.

Our robotics division **directly feeds space technology development**, creating synergies between commercial revenue and the rocket program.

PRODUCT LINES



Orbital Payload Manipulators for satellite servicing



Autonomous Ground Vehicles for logistics & exploration



Industrial Automation Arms for manufacturing

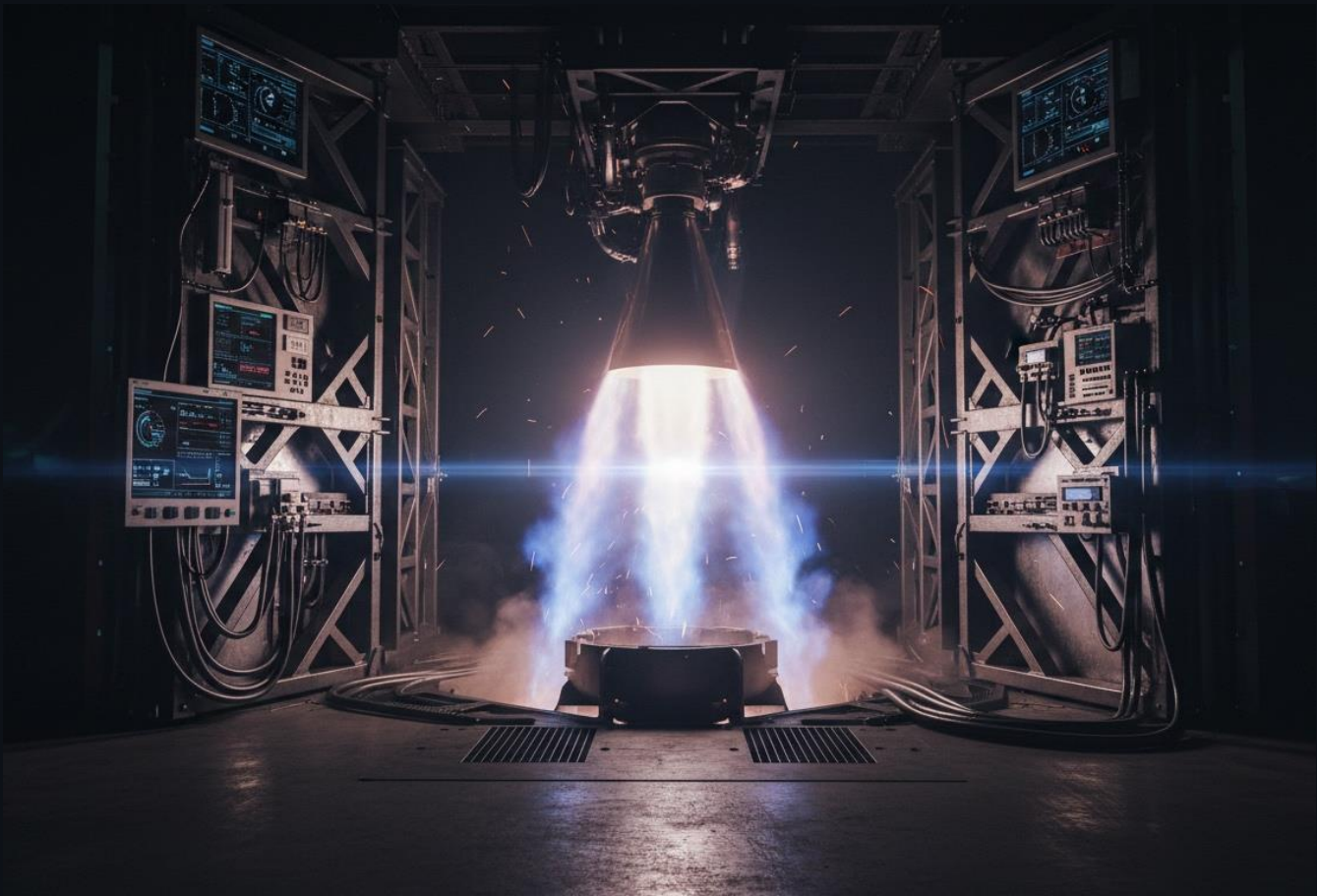


ML Control Systems for autonomous operations



Key Differentiator: Technology cross-pollination accelerates innovation across all SOUTHORBIT divisions.

BU-4: SPACE RESEARCH & PROPULSION



The **core R&D division** developing proprietary ion and hybrid-chemical propulsion engines at our Johannesburg testing facility.

This division is the **technological heart** of SOUTHORBIT, directly feeding our rocket development program with breakthrough innovations.

RESEARCH PROGRAMS

- ▶ Next-gen orbital transfer vehicles
- ▶ In-orbit servicing technology
- ▶ Satellite platforms (EO & comms)
- ▶ Advanced materials research

Johannesburg Testing Facility — Engine Static Fire Test

47

Successful Engine Firings

340s

Target ISP (Sea Level)

150:1

Thrust-to-Weight Ratio

15+

Reusable Flight Cycles

SYNERGY MODEL: FOUR DIVISIONS, ONE MISSION

SOUTHORBIT

INTEGRATED TECHNOLOGY ECOSYSTEM



Immediate Revenue

Generates cash flow while developing flight control AI

Feeds: Autonomous navigation algorithms for rocket recovery



Communications Revenue

Funds satellite communications technology

Feeds: Satellite comms systems for orbital platforms



Automation Revenue

Builds autonomous systems for space operations

Feeds: In-orbit servicing and payload handling



Rocket Engines

Develops the engines powering our rockets

Goal: SOAR-1 orbital launch vehicle

AFFORDABLE AFRICAN ACCESS TO SPACE

The background image is a dark, industrial interior, possibly a control room or a laboratory. In the center, a bright, conical light source is visible, creating a strong glow. The walls are lined with various control panels, monitors, and equipment. The overall atmosphere is technical and futuristic.

03

TECHNOLOGY

Proprietary Systems Creating Competitive Moats

NEXT-GEN PROPULSION: THE ENGINE OF COST REDUCTION

Our proprietary **hybrid-chemical propulsion** achieves 50% cost reduction through breakthrough engineering:

01 REUSABLE ENGINE DESIGN

15+ flight cycles per engine — dramatically reduces per-launch costs

02 3D-PRINTED COMPONENTS

60% reduction in manufacturing costs via additive manufacturing at scale

03 LOCAL FUEL FORMULATION

Proprietary fuel using locally-sourced materials cuts supply chain costs

04 MODULAR ARCHITECTURE

Rapid swap-and-replace reduces turnaround to under 48 hours

TESTING MILESTONES

Johannesburg Testing Facility

- ✓ 47 successful static fire tests completed
- ✓ Full-duration burns (180 seconds)
- ✓ Throttle range validation: 40%-110%
- ✓ Regenerative cooling system proven

Performance Targets

ISP: 340 seconds (sea level)

TWR: 150:1 thrust-to-weight

Reuse: 15+ flights per engine

Turnaround: <48 hours between flights

AI & ROBOTICS: AUTONOMOUS SPACE OPERATIONS

SOUTHORBIT Lunar Systems develops autonomous docking systems and robotic payload manipulators designed for the harshest space environments.

Our machine learning models **reduce human intervention by 70%** in deep space operations.



TECHNOLOGY APPLICATIONS

SATELLITE SERVICING

Autonomous refueling, repair, and orbital repositioning of client satellites

LUNAR OPERATIONS

Robotic surface vehicles for mining and scientific exploration missions

IN-ORBIT MFG

Zero-gravity manufacturing of specialized specialized materials and components

AI MISSION CONTROL

Autonomous flight planning, anomaly detection, detection, and real-time decision making

SOUTHORBIT Advantage: Full autonomy in orbit — our rockets operate with minimal ground control, reducing mission costs and increasing reliability.

COMMUNICATIONS & SATELLITE TECHNOLOGY

Proprietary **satellite bus design** optimized for African conditions and tropical orbital environments.

Our first-generation satellites demonstrate launch capability while generating **commercial revenue** from day one in orbit.



KEY INNOVATIONS

Solar-Hard Electronics

Radiation-tolerant for equatorial orbits

Phased Array Antennas

Low-cost high-gain comms systems

Onboard AI

Autonomous operations and fault recovery

Standardized Payload

Universal interface for missions

SATELLITE APPLICATIONS

- ▶ Earth Observation
- ▶ Broadband Internet

- ▶ Navigation Augmentation
- ▶ Scientific Research

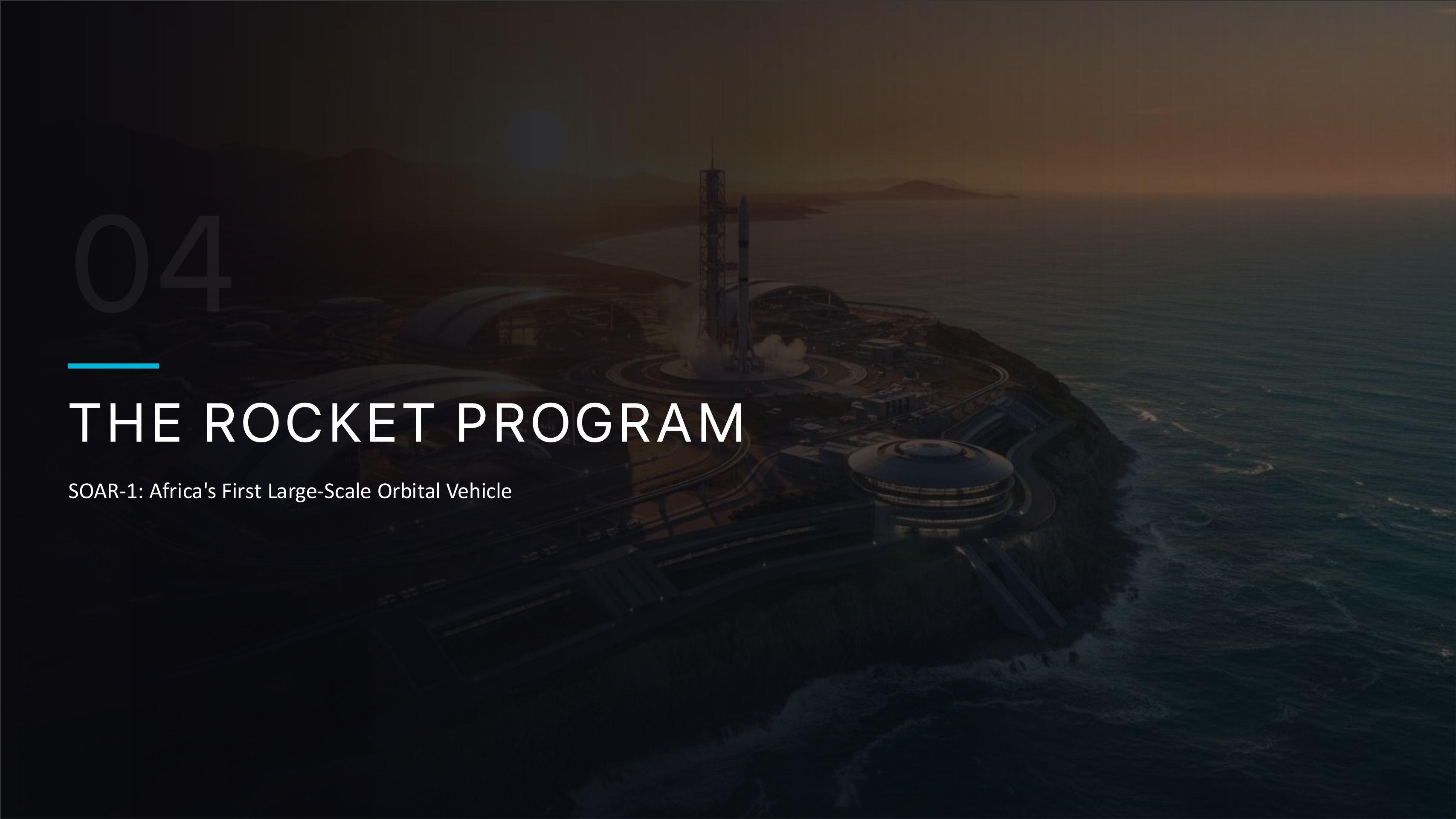
- ▶ Climate Monitoring
- ▶ Agriculture Analytics

- ▶ Maritime Tracking
- ▶ Disaster Response

04

THE ROCKET PROGRAM

SOAR-1: Africa's First Large-Scale Orbital Vehicle



SOAR-1: DESIGNED TO DELIVER 50% COST SAVINGS

VEHICLE SPECIFICATIONS

Payload to LEO: **5,000 kg**

Payload to GTO: **2,000 kg**

Launch Cost: **\$35M per mission**

Height: **52 meters**

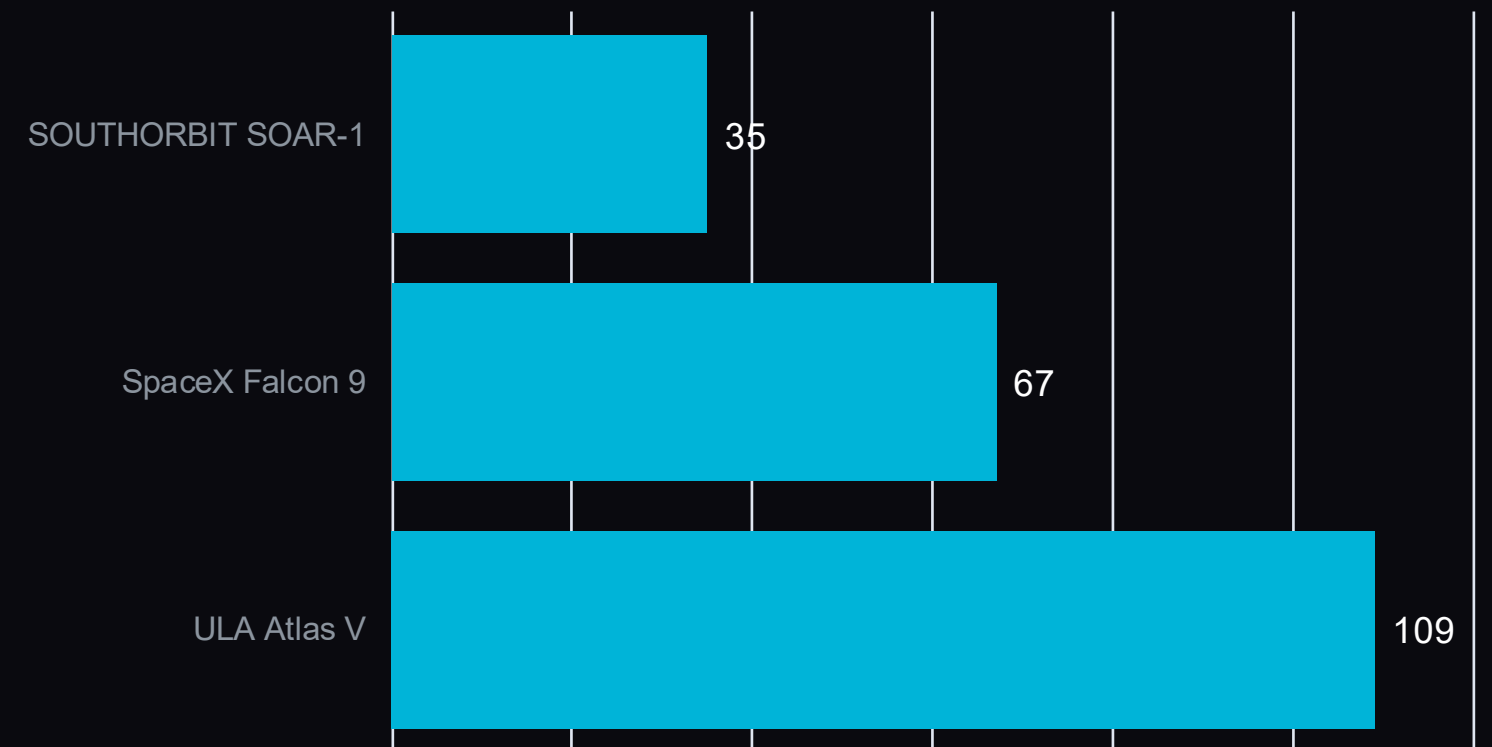
Diameter: **3.7 meters**

First Stage: **Reusable (vertical landing)**

First Flight: **2028**

Engine: **SOUTHORBIT Hybrid-Chemical**

COST COMPARISON



SOAR-1 combines proprietary propulsion, autonomous flight systems, and advanced materials into a purpose-built platform for Africa and beyond.

LAUNCH FACILITY: BUILDING AFRICA'S SPACEPORT



SOUTHORBIT Spaceport — Southern Coast of South Africa (Concept Rendering)

OPTIMAL LAUNCH LOCATION

Site identified on South Africa's southern coast providing ideal trajectory for **polar and polar and sun-synchronous orbits** with minimal air/maritime traffic.

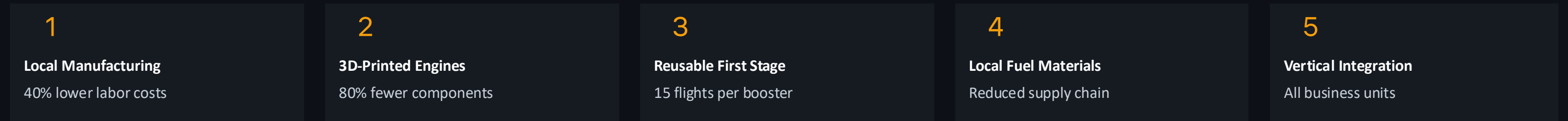
FACILITY COMPONENTS

- ▶ Vehicle integration hangar (12,000 sqm)
- ▶ Propellant production and storage facility
- ▶ Launch pad with flame trench and tower
- ▶ Mission Control Center (24/7 operations)
- ▶ Payload processing clean room (Class 100K)
- ▶ Maritime recovery fleet for booster retrieval

TOTAL FACILITY INVESTMENT: \$45M | CONSTRUCTION TIMELINE: 18 MONTHS

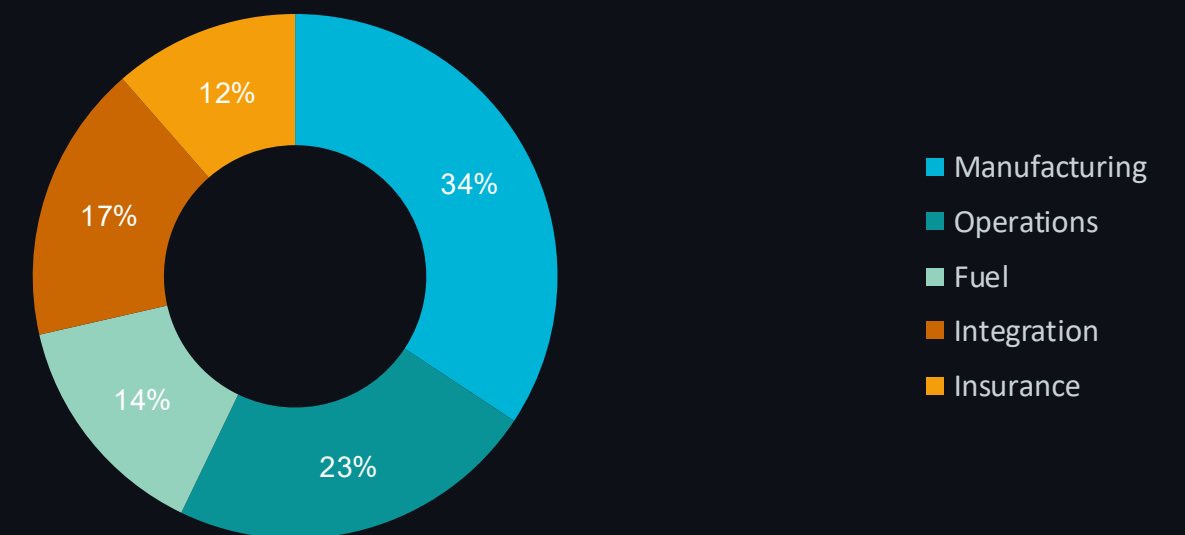
THE COST ADVANTAGE: HOW WE ACHIEVE 50% SAVINGS

COST REDUCTION STRATEGY



COST BREAKDOWN PER LAUNCH

Cost Component	Competitors	SOAR-1
Manufacturing	\$25M	\$12M
Operations	\$18M	\$8M
Fuel	\$12M	\$5M
Integration	\$12M	\$6M
TOTAL	\$67-109M	\$35M



48-68% COST SAVINGS VS. EXISTING PROVIDERS

05

INVESTMENT

The Path to Launch and Beyond

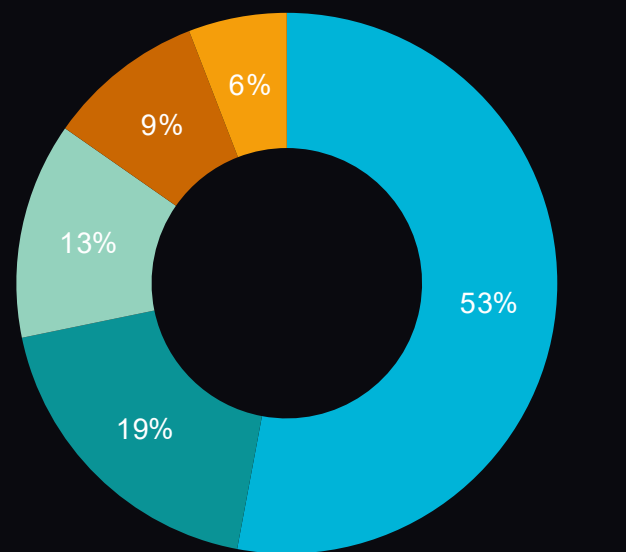


FUNDING REQUIREMENTS: \$75M SERIES A

\$75,000,000

Series A — Target Close: Q3 2025

USE OF FUNDS



■ Land & Facilities ■ Equipment & Tooling ■ R&D / Testing
■ Talent & Ops ■ Working Capital

■ Land & Facility Construction — \$45M (60%)

Launch pad, hangars, mission control, clean rooms

■ Manufacturing Equipment — \$12M (16%)

3D printers, CNC machines, composite ovens

■ R&D & Propulsion Testing — \$8M (11%)

Engine development, static fire campaigns

■ Talent & Operations — \$6M (8%)

200+ engineers and technicians

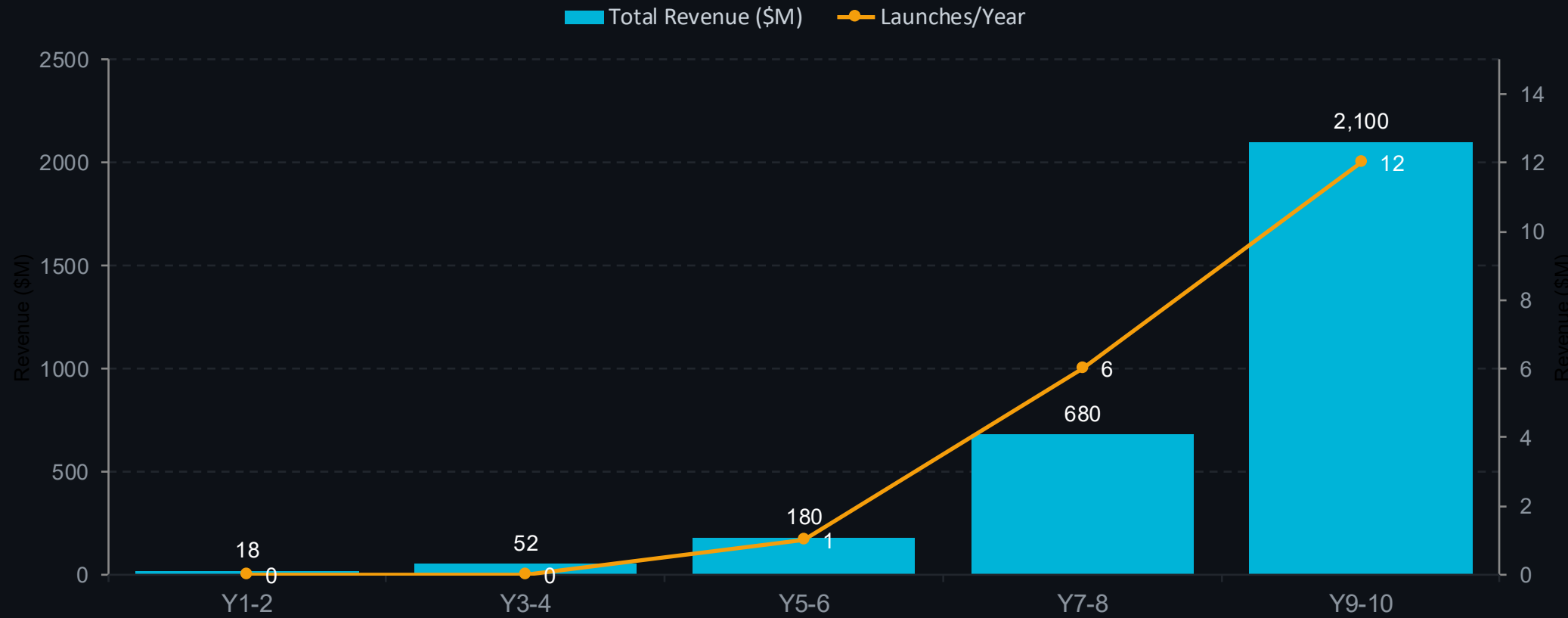
■ Working Capital — \$4M (5%)

Initial operations and contingency

Targeting institutional investors, African development funds, and strategic corporate partners

FINANCIAL PROJECTIONS: REVENUE TO \$2.1B BY 2032

10-YEAR REVENUE PROJECTION (\$M)



UNIT ECONOMICS

Per Launch:

Revenue: **\$35M**

Cost: **\$22M**

Margin: **37%**

At Scale (12 launches/yr):

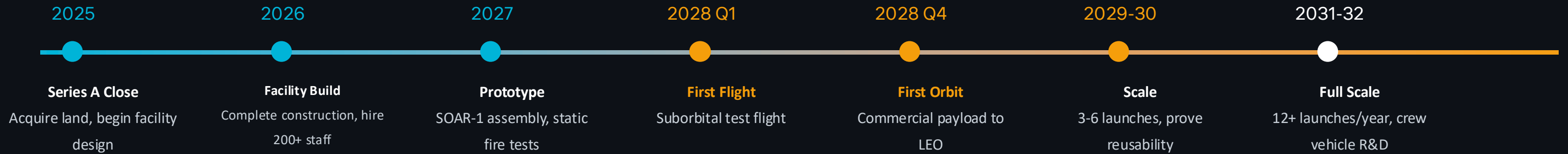
Launch Revenue: **\$420M/year**

Combined Divisions: **\$2.1B/year**

REVENUE MIX

Launch Services (20%) + Drones (18%) + Internet Hardware (22%) + Robotics (15%) + Satellite Services (25%)

THE ROADMAP: FROM NOW TO ORBIT



MILESTONE DETAILS

2025 Q3-Q4: Close Series A, acquire coastal land, begin facility engineering

2026: Complete facility construction, hire 200+ engineers and technicians

2027: Begin SOAR-1 prototype assembly, conduct full static fire test campaign

2028 Q1: First SOAR-1 test flight (suborbital trajectory validation)

2028 Q4: First orbital mission carrying commercial payload to LEO

2029: 3 commercial launches, first paying customers

2030: 6 launches, demonstrate 15-flight reusability per booster

2031-32: Scale to 12+ launches annually, expand to crew-capable vehicle development

COMPETITIVE ADVANTAGE: WHY SOUTHORBIT WINS



FIRST-MOVER ADVANTAGE

Only African company with a credible large-rocket program and launch facility plan



COST LEADERSHIP

50% cost reduction through proprietary technology and technology and local manufacturing



VERTICAL INTEGRATION

Four revenue-generating divisions funding development independently



TOP TALENT ACCESS

World-class South African engineering graduates at at competitive costs



OPTIMAL GEOGRAPHY

Ideal launch location for high-demand polar and sun-synchronous orbits



IP PORTFOLIO

12+ patents filed in propulsion, robotics, and communications technology



GOVERNMENT SUPPORT

Strong regulatory backing for African space sovereignty and technology independence



EXPANDING TEAM

200+ engineers, technicians, and mission specialists being hired across all divisions

THE TEAM: ENGINEERS, SCIENTISTS, VISIONARIES

Leadership combines **deep aerospace expertise** with entrepreneurial execution. Our team has built team has built and launched vehicles before.



Propulsion Engineers

Ex-SpaceX and Blue Origin propulsion veterans with 50+ combined launches



Satellite Specialists

CSIR and Denel Space technology veterans



AI/ML Researchers

Top global university researchers in autonomous systems



Entrepreneurs

Serial founders with successful exits in technology



ADVISORY BOARD

Retired **space agency directors** from ESA and NASRDA, **African Union space policy advisors**, and international aerospace executives provide strategic guidance and government relations support.

NOW HIRING: 200+ ENGINEERS, TECHNICIANS & MISSION SPECIALISTS

A vertical rocket launch is centered in the background, with a bright plume of fire and smoke at the base. The sky is dark with scattered stars and a faint nebula. The text is overlaid on this scene.

JOIN US. BEYOND OUR HORIZON.

SOUTHORBIT represents a **once-in-a-generation opportunity** to build Africa's space industry from the ground up.

The technology is proven. The team is assembled. The market is ready.

THE ONLY MISSING PIECE IS YOU.

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