

(Architected and incubated by AeroBased Management Consulting)

## 1 EXECUTIVE SUMMARY

Cosmixio bridges Space Science, Web3, and Sustainable Finance to create the trust infrastructure of the global orbital economy.

It verifies, secures, and tokenizes satellite-derived data using blockchain and AI — transforming information into verifiable digital assets that governments, investors, and institutions can trust and monetize.

“We transform orbital data into trust — and trust into a new economic language for space.”

Cosmixio operates as a federated-to-decentralized hybrid, combining the compliance of centralized systems with the scalability of Web3.

The platform is designed to align technological innovation with the UN Sustainable Development Goals (9, 13, and 17), ensuring global inclusion and sustainability.

## 2 PROBLEM

- 60 % of orbital data cannot be independently verified or monetized.
- The current satellite data economy is fragmented, untraceable, and non-auditable.
- ESG and institutional investors lack a trusted proof-of-integrity layer for orbital data.
- Without verifiable infrastructure, the trillion-dollar space economy remains inefficient and siloed.

### 3 SOLUTION — COSMIXIO TRUST LAYER

#### Federated Infrastructure (Phase I)

Founder-led, regulatory-compliant network linking national and private space operators under unified standards.

#### Decentralized Expansion (Phase II)

Gradual evolution into a global multi-node ecosystem where each partner becomes a secure space-data authority.

#### Core Functions

1. Proof of Space Data: Onboard hashing + ground validation + blockchain anchoring.
2. OrbFi Network: Converts verified space data into digital financial assets.
3. AI & Analytics: Automated validation, ESG tracking, and asset scoring.
4. Compliance Engine: Meets ESA, EU AI Act, and ISO 27001 frameworks.

“Every byte of space data becomes proof of integrity. Every orbit becomes an economy of trust.”

### 4 MARKET OPPORTUNITY

Segment	2035 Market Size	CAGR	Source
Global Space Economy	\$ 1.8 Trillion	%7	PwC / BCG
Space Data Services	\$ 350 B	%11	McKinsey
Blockchain for Space & ESG	\$ 120 B	%18	Deloitte
Orbital Finance (OrbFi)	Emerging	—	AeroBased Analysis

Total Addressable Market (TAM) : \$ 1.8 T  
Serviceable Available Market (SAM) : \$ 180 B  
Serviceable Obtainable Market (SOM): \$ 12–15 B

Cosmixio positions itself as the AWS of orbital data, delivering the invisible trust layer behind global satellite networks.

## 5 COMPETITIVE ADVANTAGE

Factor	Traditional Space Data	Cosmixio
Data Integrity	Manual audit	Cryptographic Proof Layer
Governance	Centralized	Federated & Securely Decentralized
Monetization	Licensing only	Tokenized OrbFi ecosystem
Compliance	Regional	Global multi-jurisdiction alignment
ESG Integration	External reporting	Built-in SDG verification

“Cosmixio is to orbital trust what Chainlink is to smart-contract data — but at planetary scale.”

## 6 TECHNOLOGY ARCHITECTURE

- Blockchain + Smart Contracts: Immutable validation and tokenization.
- AI Validation Engine: Autonomous integrity scoring and anomaly detection.
- Orbital Encryption Modules: Lightweight LEO edge security.
- Interoperable APIs: Integration with ESA Copernicus, AWS Ground Station, Azure Orbital.
- Multi-Cloud Infrastructure: Enterprise-grade resilience and redundancy.

Security: ISO/IEC 27001 + GDPR + EU Space Law compliant.

## 7 BUSINESS MODEL

Stream	Description	Example
<b>Data Licensing</b>	Verified space data for governments & enterprises	Climate, agriculture, defense
<b>OrbFi Transactions</b>	Tokenized asset marketplace with fees + staking	Financial institutions
<b>Node Memberships</b>	Partnership and data revenue share by national nodes	ESA, ISRO, Temasek
<b>AI Analytics Service</b>	Subscription dashboards for ESG and risk metrics	Sustainability funds

Revenue Flywheel:

Data → Verification → Tokenization → Liquidity → Reinvestment

## 8 FUNDING & FINANCIAL OVERVIEW

Metric	Value
<b>Stage</b>	Growth / Establishment (Pilot Phase)
<b>Funding Goal</b>	<b>\$ 45 – 50 M (Seed Round)</b>
<b>Pre-Money Valuation</b>	<b>\$ 275 M</b>
<b>Post-Money Valuation</b>	<b>\$ 325 M</b>
<b>Founder Ownership</b>	<b>83.3 % (51 % voting control)</b>
<b>Investor Dilution</b>	<b>16.7 %</b>
<b>ROI Target</b>	20–25 % annualized

Use of Funds:

- 24-month team and R&D expansion (\$ 14.3 M)
- Cloud & blockchain infrastructure (\$ 7.9 M)
- 5-country pilot deployment (\$ 10.2 M)
- Operations & legal compliance (\$ 7.1 M)
- Contingency 20 % (\$ 7.9 M)

## 9 VALUE PROJECTION

Stage	Valuation	Founder Ownership	Founder Equity Value
Seed (Now)	\$ 325 M	%83	\$ 229 M
Series A (2 Yrs)	\$ 2 B	%70	\$ 1.4 B
Series B (5 Yrs)	\$ 10 B	%63	\$ 6.3 B
Series C / Exit (10 Yrs)	\$ 100 B	%60	\$ 60 B

Even with standard dilution, founder retains majority control and captures \$ 60 B equity value by Year 10.



## EXIT STRATEGY

- IPO or Strategic Acquisition by major aerospace or data-infrastructure players.
- Target partners: SpaceX Data, Amazon AWS Orbital, Airbus Intelligence, Temasek, Mubadala, SoftBank Vision Fund.
- Potential exit valuation: \$ 30–100 B within 10 years.



## GLOBAL PARTNERSHIPS

Active discussions and prospective alliances with:

- ESA, ISRO, UN SDG Labs, EU Space Law taskforces
- Private partners: AWS, Microsoft, Airbus, Chainlink Labs
- Institutional investors: Temasek, Mubadala, EIB, GIC, World Bank Innovation Arm

Fully compliant, globally inclusive, and diplomatically neutral — connecting innovation with regulation.

## ROADMAP

Year	Milestone	Goal
2025	Pilot Infrastructure Launch	OrbFi MVP & node validation
2026–27	G20 Node Expansion (10+ nations)	Institutional onboarding
2030	UN / ISO Standard Recognition	Space data certification
2035	Global OrbFi DAO Ecosystem	\$ 100 B valuation target

## ABOUT AEROBASED

AeroBased Management Consulting LLC — Barcelona-headquartered technology management consultancy bridging engineering, AI, Web3, and space innovation.

AeroBased serves as Cosmixio's architect and governance anchor, ensuring quality, credibility, and strategic execution.

"AeroBased connects intelligence with imagination to build the infrastructure of the future."

## CLOSING STATEMENT

"We're not building a startup — we're building the operating system of trust for humanity's orbital future.

Join us in transforming data into trust, and trust into sustainable value for Earth and beyond."

 Barcelona

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 #SpaceTech #Web3 #OrbFi #Blockchain #Sustainability #AI #Future

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## Disclaimer & Partnership Note

The companies, institutions, and countries mentioned in this document represent reference models and indicative partnership directions.

Formal collaboration, funding, or participation will be established progressively through structured investment and due diligence processes.

Cosmixio's current stage focuses on strategic discussions and pilot frameworks with select public, private, and institutional partners to shape the federated foundation of the global orbital economy.