# The Financial Layer of Space

In-Orbit Payments for Cloud-Native, Hybrid Non-Terrestrial Networks

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Orbital Data ⟶ Orbital Trust ⟶ Orbital Value
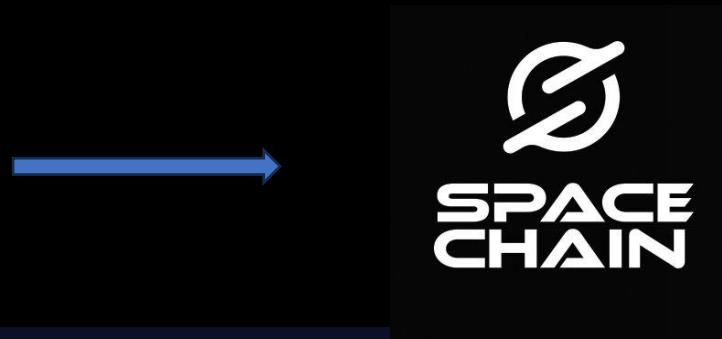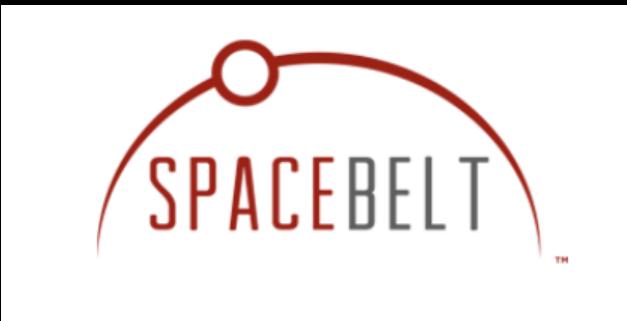
Cybersecurity at nation state threat levels.

Jurisdiction and data sovereignty.

Brilliant patented technical designs.

FEB 2, 2018	**OCT 25, 2018**	**DEC 5, 2019**	**JUN 3, 2021**	**JUN 30, 2021**	**JAN 13, 2022**	**NOV 26, 2022**
Launched a full-node program on the Qtum blockchain that can process existing blockchain data	Embedded with SpaceChain OS and can perform blockchain related functions like smart contracts on the Qtum blockchain	Launched a testbed for Bitcoin multisignature authentication service to the International Space Station	Launched into space the first commercial Ethereum blockchain integrated satellite payload to the International Space Station	Launched a blockchain-enabled payload incorporated with space nodes created for customers	Launched a space node to support on-orbit Velas transactions and minting of an ERC-721 standard NFT	Launched our 2nd Velas blockchain payload integrated to the International Space Station

Integrates SpaceChain's advanced technology.

CubeSats as secure relays for encrypted messaging and data verification.

2

Operational Deployment on on the ISS

3 digital transactional service built by SpaceChain have been launched aboard various Falcon9 rockets & installed on the International Space Station (ISS).

Dec 2019 **June 2021** **Nov 2022**

NASA astronaut Jessica Meir installing our fintech hardware on the ISS.

National Aeronautics and Space Administration

Space Chain-2

Security Assessment Report

March 2, 2021

The Problem:
Space Commerce Has No Native Financial Infrastructure

Today

- Insurers, asset backed financing and leasing companies
- Commercial Satellites
- In-orbit hosting services
- Refueling, debris removal, data relay
- Manufacturing & launch services

Reality

- Settlement occurs on Earth
- Manual contracts & invoicing
- Weeks/months of reconciliation
- No machine-native authorization
- No real-time vendor settlement or authentication

$ Bns in space commerce depend on Earth-based payment systems

What a Financial Layer of Space Must Enable

- Autonomous authorization of value

- Machine-to-machine settlement (no human approval loops)

- Event-triggered payments based on service completion

- Governance independent of continuous Earth connectivity
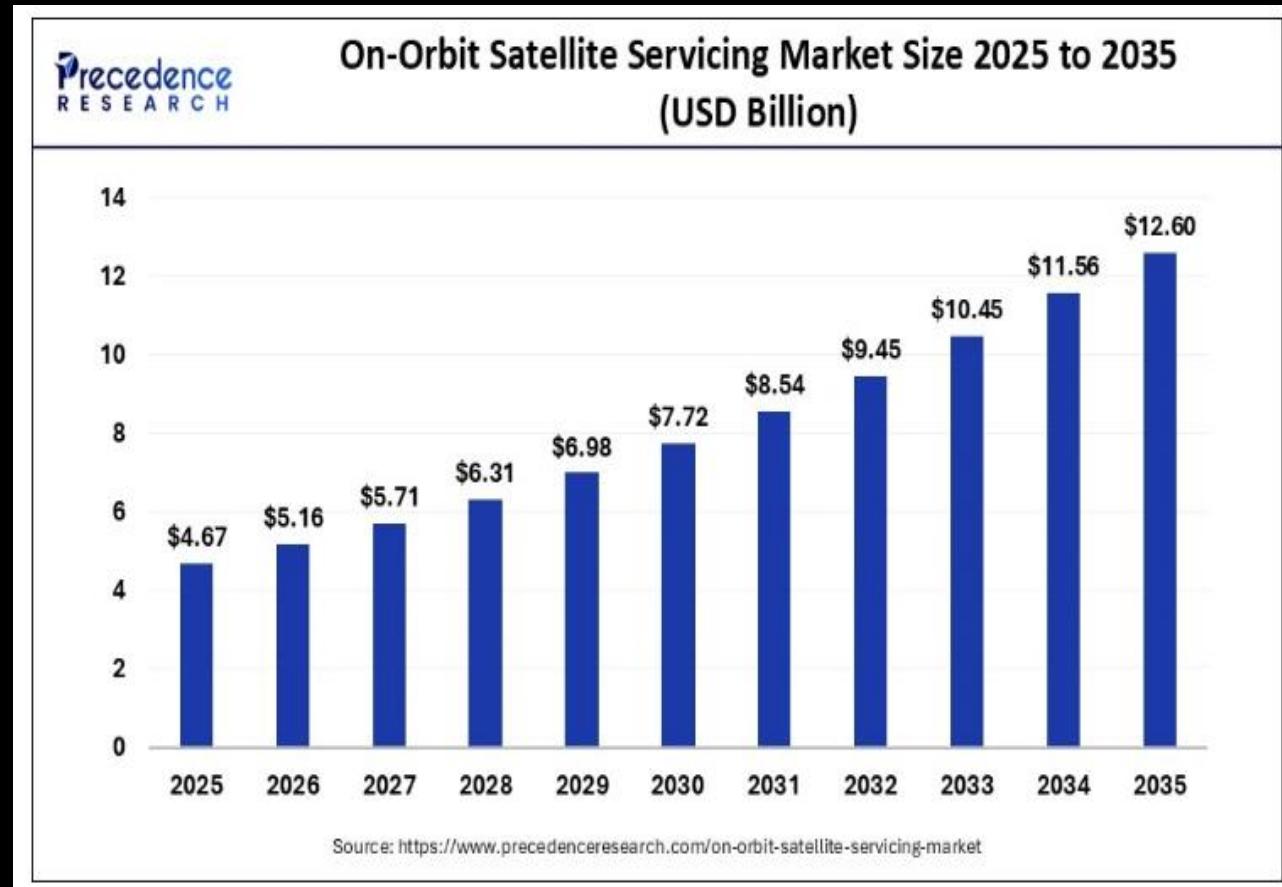
Autonomous infrastructure requires autonomous financial control.

Payments Enable Asset Tokenization

Where the Financial Control Layer Sits

POLICY LAYER
Jurisdictions Set Ownership Rules

FINANCIAL CONTROL
Payment-Triggered Asset Creation

CYBER-PHYSICAL LAYER
Cryptographically Verifies Service Outcome

✓ Proof of service execution
✓ Proof of output / quantity
✓ Cryptographic attestation
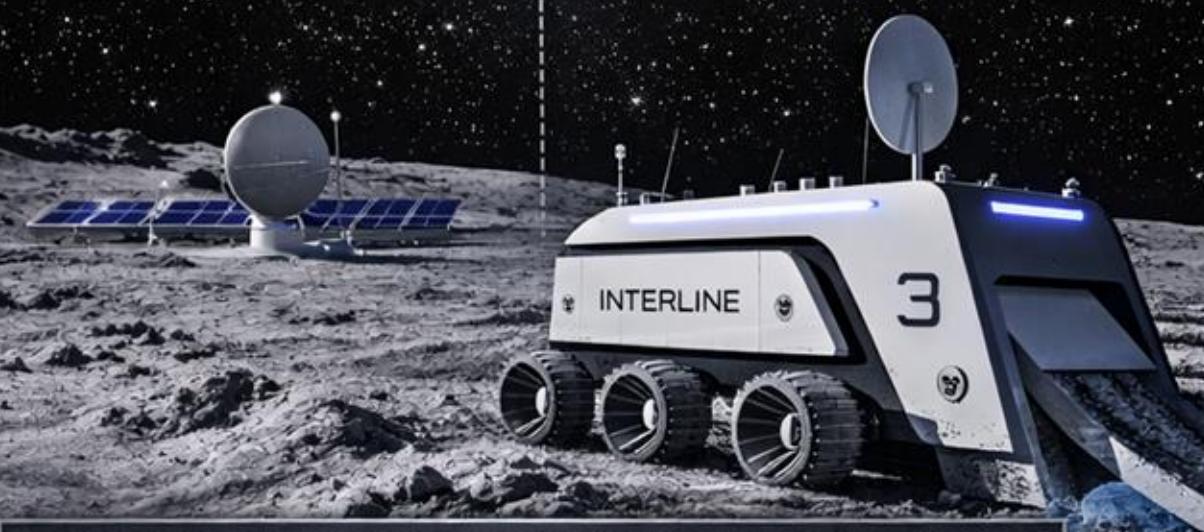
RESOURCE LAYER
Autonomous In-Orbit / Off-Earth Systems

• Mining • Servicing • Data relay • Manufacturing

FINANCIAL CONTROL LAYER

• Payment policy and authorization
• Risk, asset verification, and wallet governance
• Orchestration of terrestrial, orbital & celestial systems

Enables:

• Trade settlement across jurisdictions
• Multi-rail execution frameworks
• Hybrid terrestrial-satellite connectivity

Modern PayEngine *MPE*

The Financial Control Plane Powering In-Orbit Payment Rails

	Pending Payments	Approved Payments	Executed Payments		

Amount	Sender	Receiver	Verification	Governance
$350,000.00	Space Beam	→ LunarX Inc.	🛡 Cryptographic Verified	——— 62% | 62%
$180,000.00	AlphaSat	→ AlphaSat	🛡 Cryptographic Verified	——— 75% | 59%
$275,000.00	Space Beam	→ Space Beam	Suggested condition: Insurance threshold exceeded • Meets jurisdiction: US, UK • Execute	
$950,000.00	MoonOre Ltd.	→ TerraNet Corp.	🛡 Cryptographic Verified	——— 45% | 80%
$480,000.00	Deep Space Tech	→ Space Beam	• Meets jurisdiction: US, UK	• Ready to Execute

Approved Payments

$95,000.00	LunarX Inc.	→ $95,000.00	✅ Validated	Executed
$340,000.00	AlphaSat	→ $340,000.00	✅ Secure Multi sig	Executed
Today 10:45 UTC	Today 10:45 UTC	Today 14:20 UTC	• Suggested condition: US, UK	

Built on existing global payment orchestration infrastructure. Extended to non-terrestrial execution

Network-agnostic by design — AI-informed routing across terrestrial, satellite, and hybrid networks. Built for interoperability.

The Financial Layer of Space Is Taking Shape

This control layer is being built now.

We're working with: Satellite and space infrastructure operators

SPACEX • SPACEBELT KSA • iridium • SPACE CHAIN • GOMSPACE NORTH AMERICA

Regulated execution and settlement partners

J.P.Morgan • papaya global • citibank • COINUT

Modern PayEngine MPE
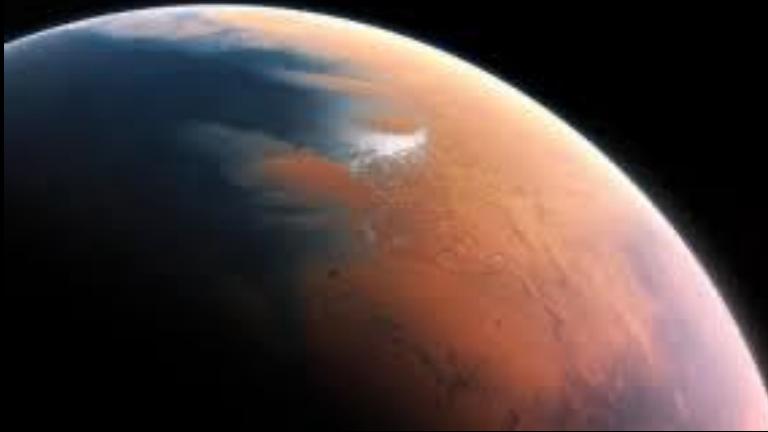
Thank You

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Modern PayEngine*MPE*
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