



PAN GALACTIC
WWW.PANGALACTIC.IO

Building quantum-safe operating systems, as the trusted digital foundation for the space economy.

FLOW COLLINGWOOD LLB FRSA
CEO AND CO FOUNDER
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UKStartUp
Awards



NATIONAL WINNER 2024

Spacetechn StartUp of the Year





Explosive Growth in Space

Data source: Desk research and [GAO.gov](https://www.gao.gov/) and [UCSUSA.org](https://www.ucsusa.org/)

Year

2015

2025

2035



1,500

11,000

100,000

Operational Satellites

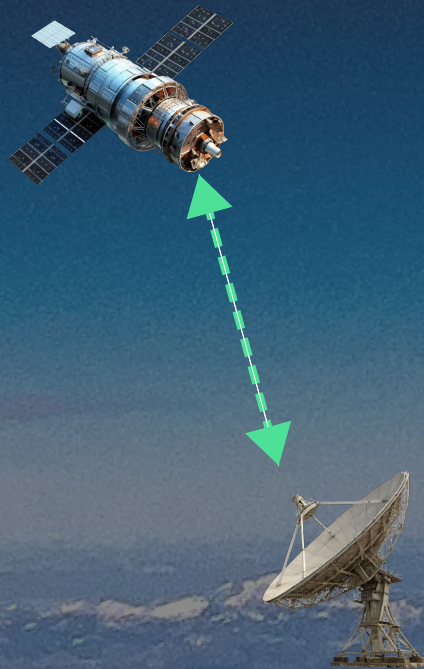




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Problem

Satellites provide critical data but are vulnerable, silo'd systems with many attack vectors.





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Takeover Command and Control



Store Now Decrypt Later Attack



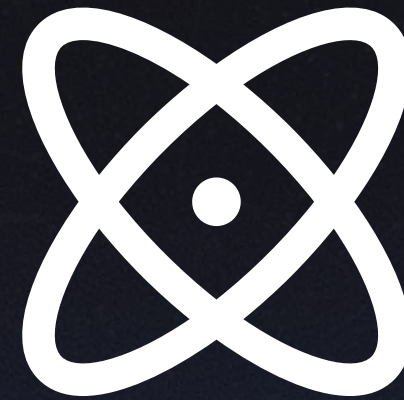
DDos - Denial of Service Attack





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Threat Actors have new tools



Quantum Computing

Allowing for quantum decryption and bypassing current encrypted systems



Advanced AI

Supercharging brute forcing, automation of sustained attacks.

**The Space systems of tomorrow will need secure
networks to succeed**



Autonomous Systems

In-Orbit Data Centres

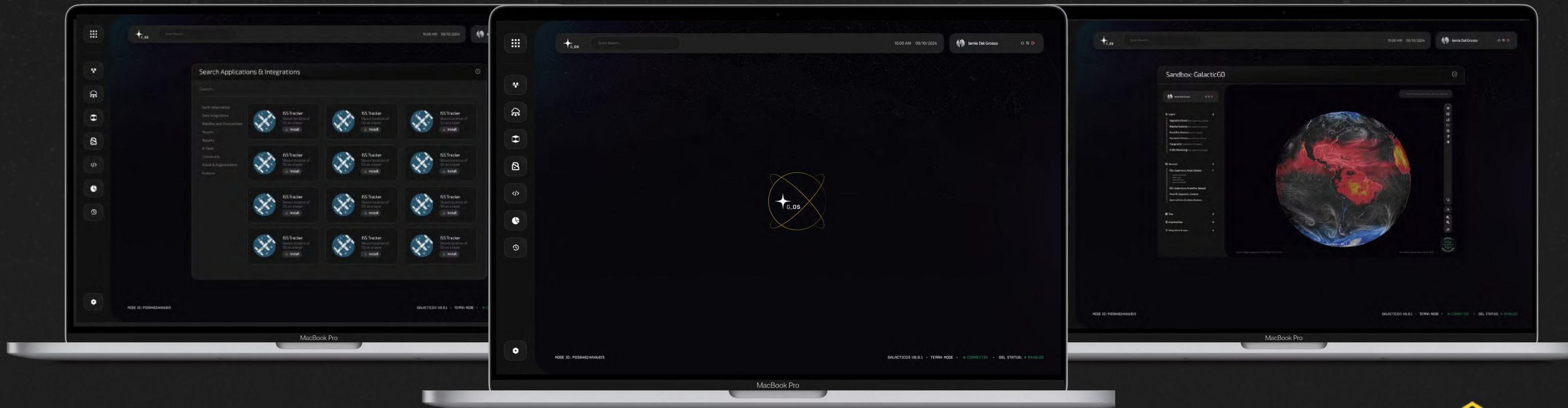
Space-Based Economies



The Solution: Phase 1



GALACTIC OS



Plug and play installation



Quantum Safe Cyber Security



Resilience and Data Integrity



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Current Solution Roadmap

Phase 1:

Securing Satellites and ground
stations

Timescale: 2025/2026

Phase 2:

Developing quantum resistant
space networks

Timescale: 2027 onwards



Traction and progress

So far

GalacticQSL (Our cryptography library)
Complete and in testing.

Commercialisations of the QSL and OS product -
-discussions with insurers already underway

Q2 2025 (today)

GalacticOS Demo Development
Complete

Customer Validation work
- Beginning now

Presale campaign
-Planned starting in Q4 '25/ Q1 '26

2026

MVP Launch of GalacticOS
Initial sales channels
- Direct sales
- Satsearch BV
- To D Orbit's customers on a profit share

Two Space launches planned-
More TBC

- D Orbit Software Defined Mission Launch

- ISS Launch with AS23 and Airbus

2027

Space based Quantum Resistant Blockchain
Testnet Launch
Already in production

Development of Cryptographic ID and systems governance functionality.
Currently in concept planning



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Market Size

TAM

\$182bn

Total Addressable Market (TAM)

Quantum Grade Cybersecurity

Space data processing

Operating Systems

SAM

\$30bn

Serviceable Available Market (SAM):

Aerospace and defence cybersecurity

Secure OS for Space

SOM

\$1.5bn

Serviceable Obtainable Market (SOM):

Based on early traction and market share in specific verticals.



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Business Model



Phase 1: Node security

B2B SaaS



Phase 2: Network Security

B2B NaaS

Convenience



WindRiver



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PQShield



QnU - QShield



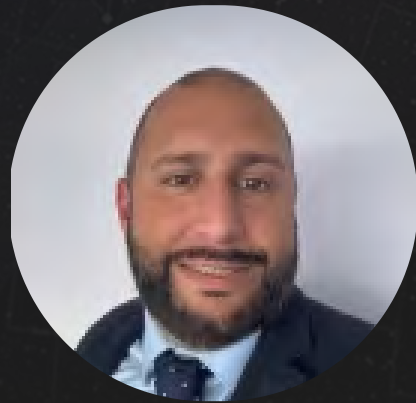
Quintessence Labs



QRCrypto

Security

OUR TEAM



Flow Collingwood

Chief Executive Officer and Co Founder



Lawrence Worrell

Chief Technology Officer and Co Founder



Jamie Del Grosso

Chief Product Officer



Darran Edgar

Chief Information Security Officer

Deloitte.

Disney

gsk

MTV

Red Bull

BINANCE
LABS

NCA
NATIONAL CRIME AGENCY

BRITISH
STEEL

TATA STEEL

أرامكو السعودية
saudi aramco



Orsted

Department for
International Trade



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ADVISORY TEAM



LOCKHEED MARTIN 

Rupinder Dale

Specialism: Satellite engineering
and space product quality
assurance



Simon Reid

Specialism: Leadership,
Computer science and Space



Matt Child

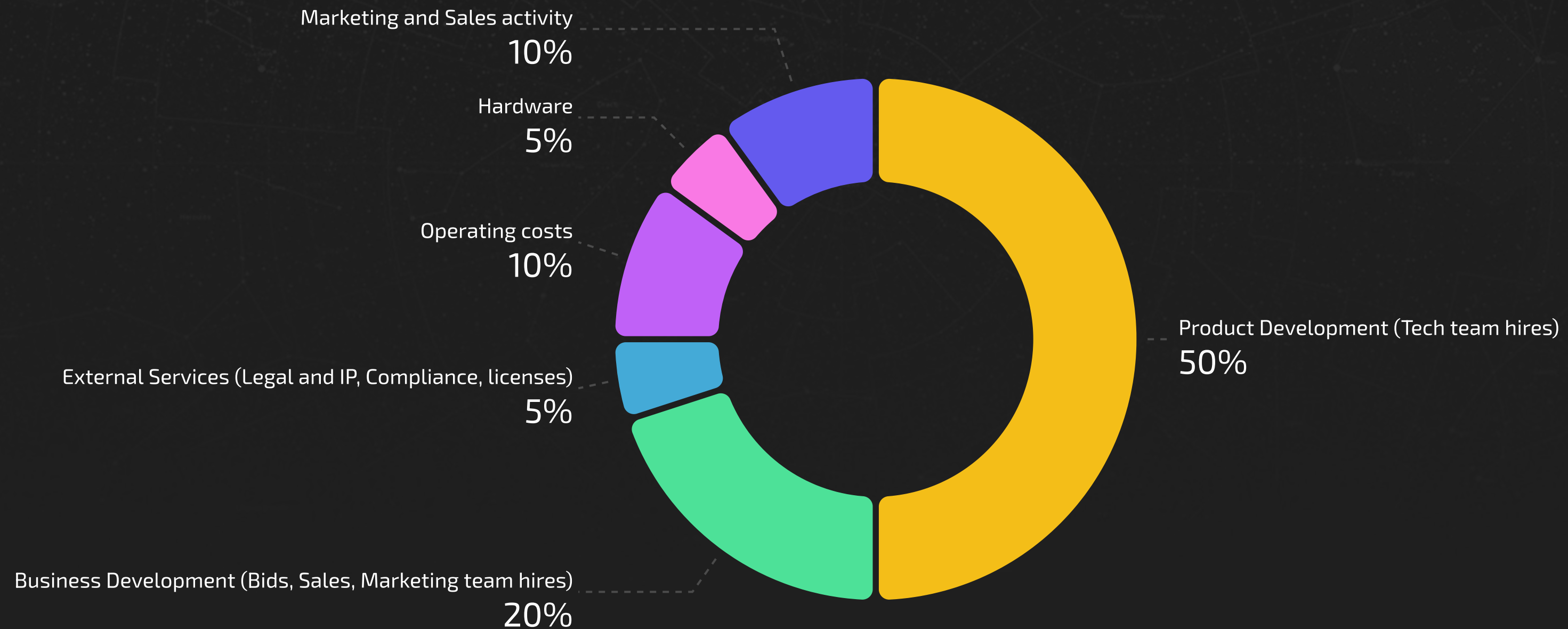
Specialism: Space industry lead,
Satellite space business



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Raise: £1.7 Million (18 months - Scale, Build, Sell).

We are raising capital to scale the team and build the product we have ideated with customers and to get to revenue.





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FOR MORE INFORMATION CONTACT:
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PRE SEED DECK
RAISING £1.7 MILLION

“The infrastructure of the space economy is being built right now, this is your invitation to help shape it.”

