

FIDES INNOVA

Verifiable Computing Ecosystem



WWW.FIDESINNOVA.IO





FIDES INNOVA LABS

The Future is Verifiable

A pioneer in decentralized **Verifiable Computing** and **Credentials**
leveraging zero-knowledge proof (**ZKP**) and **Blockchain**
brings **Trust** to the computations, IoT devices, and machine learning.

Our proprietary Decentralized Physical Infrastructure Networks (**DePIN**) solution, **zero-knowledge Internet-of-Things (zk-IoT)**, enables secure, scalable, and privacy-preserving device networks.

FOUNDERS

Mel McCann
Co-founder

Former V.P. of Enterprise Technology at Cardano Foundation

Mel's passion lies in exploring the infinite possibilities within the intersection of blockchain technology and business. Mel championed enterprise-grade blockchain applications across many fields such as law enforcement, education, provenance and nation-state certification during his time as **V.P. at Cardano Foundation.**



Reza Ramezan, Ph.D.
Co-Founder

Former Research Lead at Cardano Foundation

With over 20 years of executive experience at leading firms like **AT&T**, **Huawei**, **Telus**, and **Cardano Foundation**, Reza is a proven innovator and entrepreneur. He holds a Ph.D. from the University of British Columbia and has numerous patents and publications in blockchain, zero-knowledge proofs, and IoT.



Hamed Shah-Mansouri, Ph.D.
Co-founder

With over 10 years of research and development experience, Hamed is a C-level executive with a **Ph.D.** in Electrical and Computer Engineering. He brings deep expertise in blockchain and cryptography, driving innovation at the intersection of technology and security.

PROBLEM

Trust in computation is implied,
but not verified.



Hacked U.S. vacuum robots are shouting racial slurs and pursuing pets.

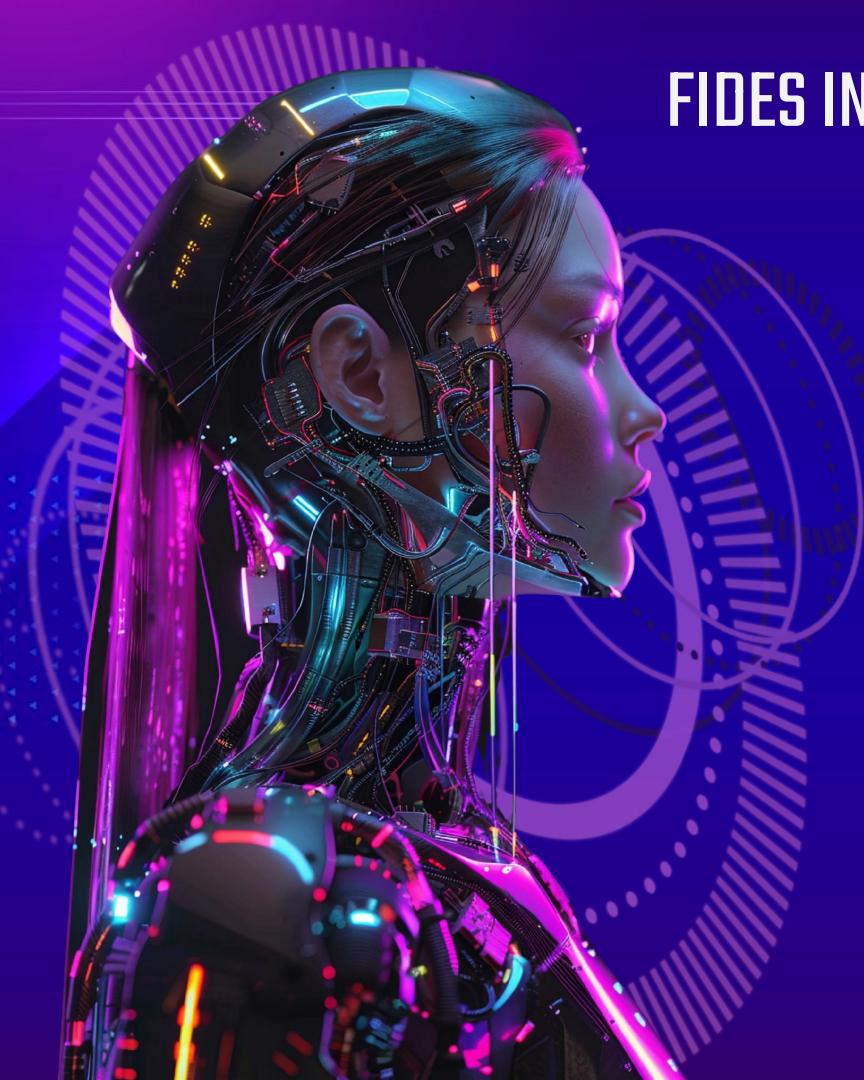


Tesla tire pressure sensors are vulnerable to hackers.



Over 35,000 devices hacked at Saudi Aramco.

Firmware Tampering: Electronic Voting Systems, Industrial Control Systems, Cisco/Huawei Routers, Medical Devices, Consumer Electronics(Samsung TVs)... and so on.

A woman's head is shown in profile, facing right. Her head is filled with intricate, glowing blue and pink circuitry and glowing purple energy fields, suggesting a highly advanced, futuristic, or AI-enhanced state. The background behind her head is a dark purple.

FIDES INNOVA SOLUTION

Approach

- A mathematical model of the true and correct functioning of a processor is established.
- Based on that model we can monitor the program execution at the processor level.
- During monitoring we generate Zero Knowledge Proofs guaranteeing the integrity of the computation..
- These proofs continuously streamed to our blockchain, creating an immutable record of the processor's activity.
- This real-time, blockchain-backed system delivers three critical benefits: absolute proof of correct function, immediate anomaly detection, and instant identification of malicious activity.

Technology

- Zero-knowledge Internet-of-Things (zk-IoT) - Patented
- SDK for verifiable computing
- A blockchain platform as a decentralized trust layer

MARKET ANALYSIS

Total Addressable Market (TAM)

IoT Market by 2025 (source: Statista): \$1.6 trillion

- Estate Verifiable Computing: ~5% = **\$80 billion**

Global cloud computing market by 2028

(source: Grand View Research):

\$1.2 trillion

- Estate Verifiable Computing in Cloud computing: ~5% = **\$60 billion**

AI Market by 2030 (source: Statista):

\$1.8 trillion

- Estate Verifiable Computing in AI : ~5% = **\$80 billion**

Industrial Sectors Market by 2028 (source:

Fortune Business Insights):

\$300 trillion

- Estate Verifiable Computing in Industrial Sectors : ~5% = **\$15 billion**

- **Total TAM for Verifiable Computing: \$245 billion**

Serviceable Addressable Market (SAM)

▪ Geographic Focus

- **FidesInnova operates globally:** ~50% of the TAM
- **FidesInnova operates in North America:** ~20% of the TAM

▪ Customer Segments

- FidesInnova operates targets enterprises and industries with high security and compliance requirements (e.g., healthcare, finance, manufacturing): ~30% of the TAM

▪ **Total SAM for Verifiable Computing: \$73 billion**

Serviceable Obtainable Market (SOM)

▪ Market Penetration

- As a niche player in verifiable computing, FidesInnova is projected to capture approximately ~1% of the market.

▪ Competition

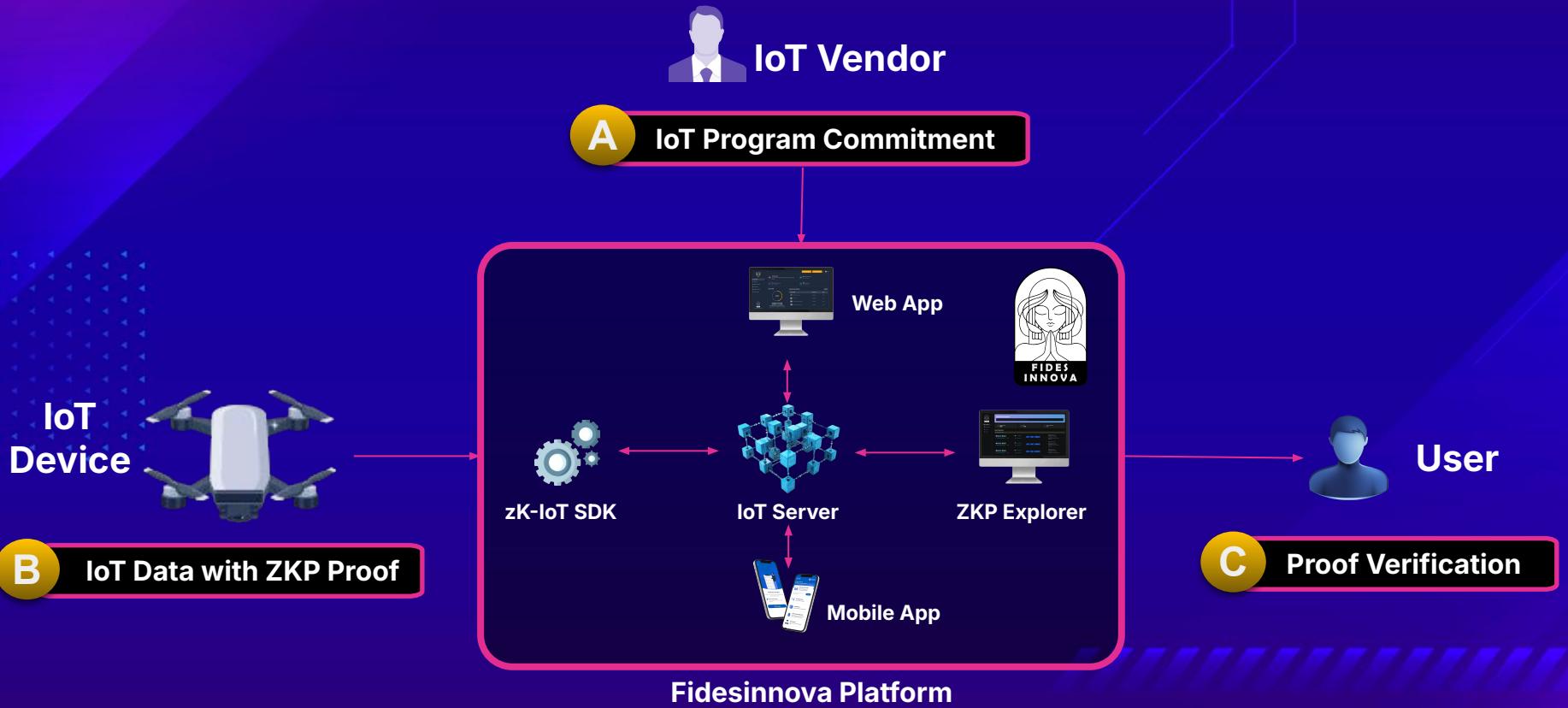
- Competitors include startups such as IoTex, RiscZero, StarkWare.
- FidesInnova's ability to differentiate through vertical-specific solutions will be key.

▪ **Estimated SOM: 1% of SAM = \$730 million**

Reference:

- Link: [Statista IoT Market Report](#)
- Link: [Grand View Research Cloud Computing Report](#)
- Link: [Statista AI Market Report](#)
- Link: [Fortune Business Insights Industrial Automation Report](#)
- Example: [Messari Report on zk-Rollups](#).
- Example: [Gartner Top 10 Strategic Technology Trends](#).
- Example: [McKinsey Industrial Automation Report](#).

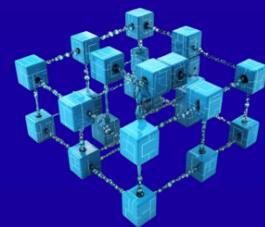
FIDES INNOVA VERIFIABLE COMPUTING ECOSYSTEM



FIDES INNOVA PRODUCTS



**Devices
Management
Mobile App**



**Blockchain-based
Device Management
Server**



**zk-IoT ZKP
SDK**



**Verifiable
Computing
Explorer**

<https://explorer.fidesinnova.io/>

Technology Layers



Business

Use Cases

Energy

Smart Home

Healthcare

Transportation

Fidesinnova Verifiable Computing Nodes



Frontend

Web 3.0 Device
Mobile App

Management Web
App

Service Market

Backend

Fidesinnova
Blockchain

Blockchain-based
IoT Server

Network ZKP
Explorer

Core Technology

Service Contract Protocol
(Blockly)

Next-generation ZKP for Verifiable
Computing (C++, Rust)

BUSINESS ARCHITECTURE

Technology Layer → Clients

Revenue Generation

Frontend → End Users

1- Service execution fee

See IoT/SERVICE USER pricing in the next slides

Backend → IoT Vendors

2- Verifiable Computation (VC) Developer account

3- Pay transaction fee

4- VC server/node license

See PACKAGE A-B-C pricing

Core Technology → Technology Developers

5- ZKP SDK update

See PACKAGE ENTERPRISE pricing

Platform

6- Tokenomics

PRICING

IoT USER

Free

- Create accounts on servers
- Install free services from the Service Market
- Install and manage devices via mobile or web
- Share your device and monetize your IoT data

Service USER

Pay-per-Use \$0.01

- Create accounts on servers
- Install paid services from the Service Market
- Submit the ZKP transaction to the network for verification purposes.

Package A

Verifiable Computing (VC) Starter

\$20,000

- 1 VC Developer accounts on servers for one year.
- 5 device/program commitments submission per year.
- 25 device proof submission per day.
- Write and list service contracts in the Service Market

Package B

Verifiable Computing (VC) Intermediate

\$100,000

- 3 VC Developer accounts on servers for one year.
- 50 device/program commitments submission per year.
- 500 device proof submission per day.
- Write and list service contracts in the Service Market

Package C

Verifiable Computing (VC) Professional

\$200,000

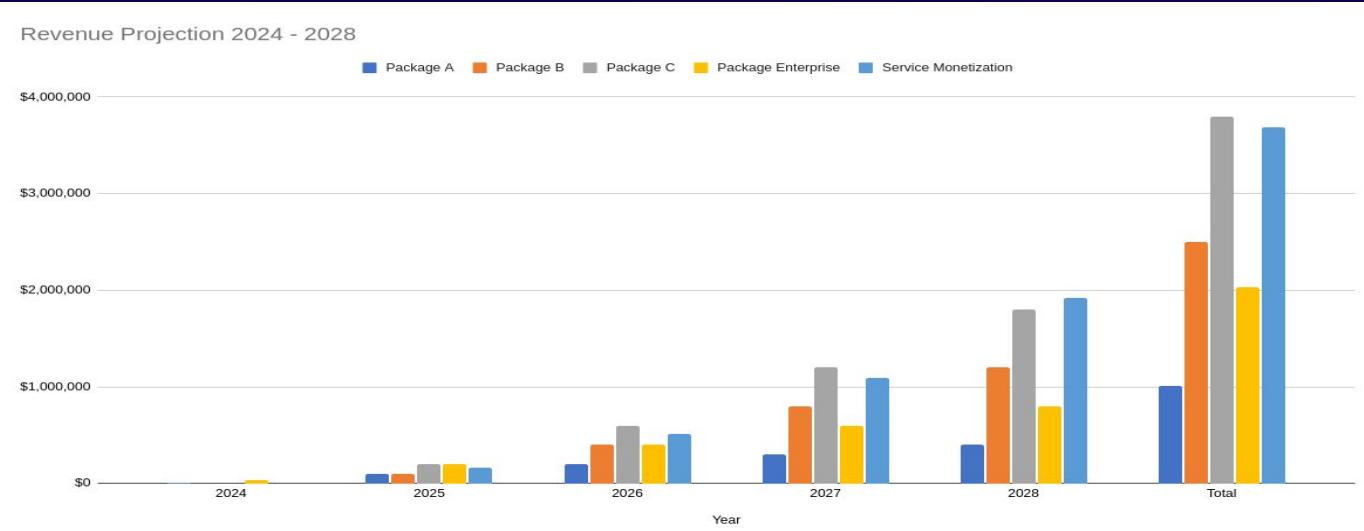
- 1 VC server/node license
- 10 VC Developer accounts on servers for one year.
- 500 device/program commitments submission per year.
- 10,000 device proof submission per day.
- Write and list service contracts in the Service Market

Enterprise Package

Quote

- Updating ZKP SDK based on user needs.
- More VC Developer accounts.
- More device/program commitments .
- More proof submission

REVENUE PROJECTION 2024-2028



| Year | 2024 | 2025 | 2026 | 2027 | 2028 | Total |
|----------------------|----------|-----------|-----------|-------------|-------------|-------------|
| Service Monetization | \$0 | \$164,250 | \$511,000 | \$1,095,000 | \$1,916,250 | \$3,686,500 |
| Package A | \$10,000 | \$100,000 | \$200,000 | \$300,000 | \$400,000 | \$1,010,000 |
| Package B | \$0 | \$100,000 | \$400,000 | \$800,000 | \$1,200,000 | \$2,500,000 |
| Package C | \$0 | \$200,000 | \$600,000 | \$1,200,000 | \$1,800,000 | \$3,800,000 |
| Package Enterprise | \$30,000 | \$200,000 | \$400,000 | \$600,000 | \$800,000 | \$2,030,000 |

Revenue from token sale and transactions not taken into account here.

CURRENT STATE - Traction

Team - Q2 2025

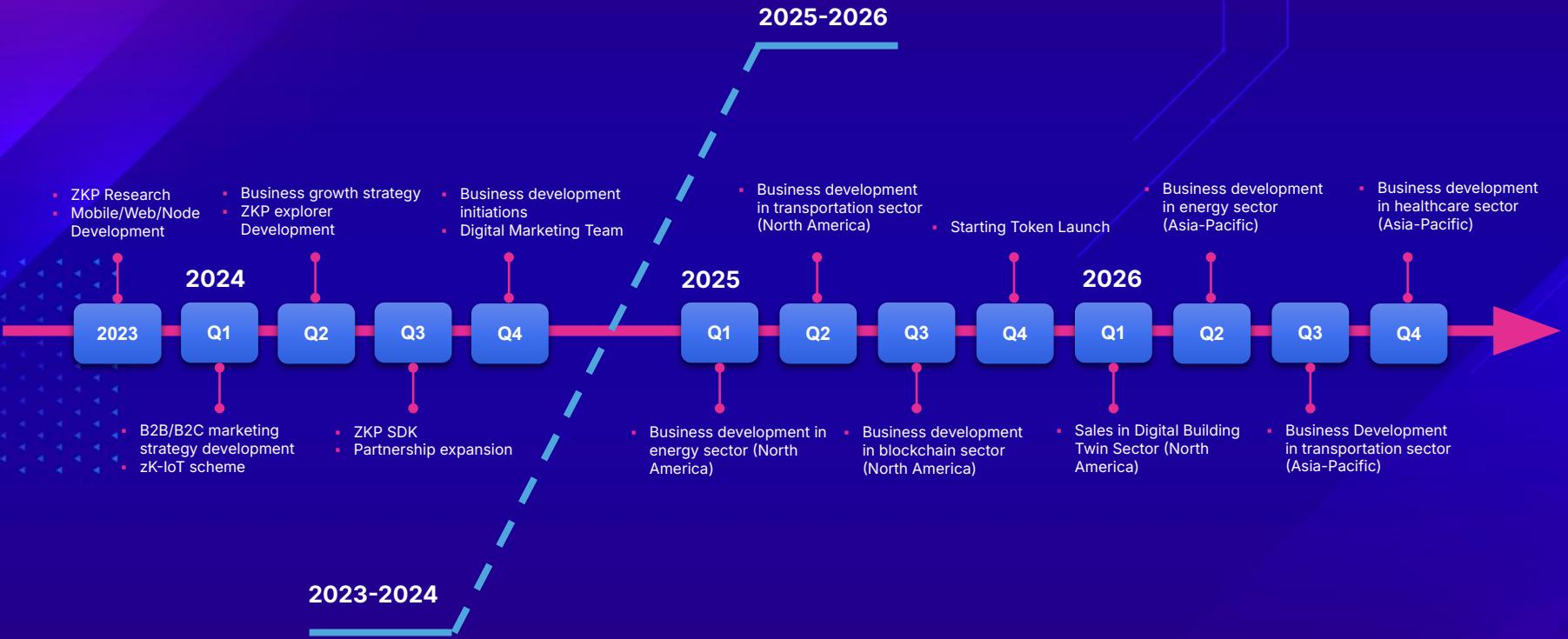
- We are a team of twenty
- Headquartered in Canada
- Self-funded
- Founders
- Hardware engineers
- Blockchain engineers
- IoT & web & mobile developers

Partners



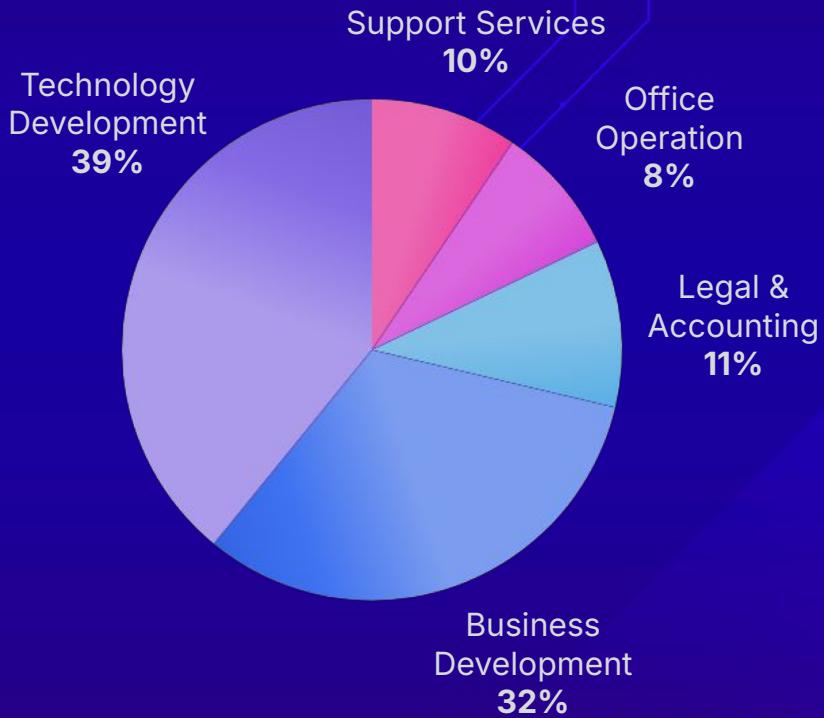
Current Verifiable Computing Network Servers/Nodes

ROADMAP



EXTENDING RUNWAY TO ACHIEVE OUR GOALS

Required Funding:
12-18 Months Runway
\$1.5 Million USD



THANK YOU

Invest in
Fidesinnova, and
become an architect
of trust for the
world's devices



CONTACT US



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