



**Security of distributed
renewable energy sources**

Albert David Lewandowski, CEO

About Magellanic Space

Our Mission: **Securing critical infrastructure always, everywhere.**

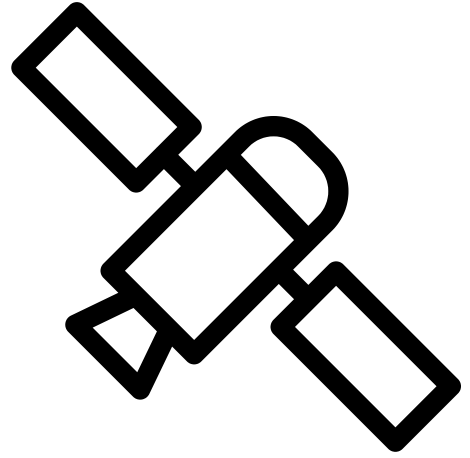
 **Magellanic**

Accelerator

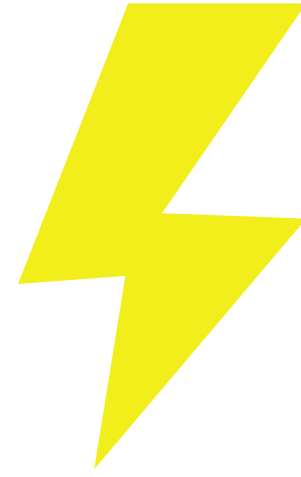
 **STARBURST**
 **ASTRA**

 **LIAI**

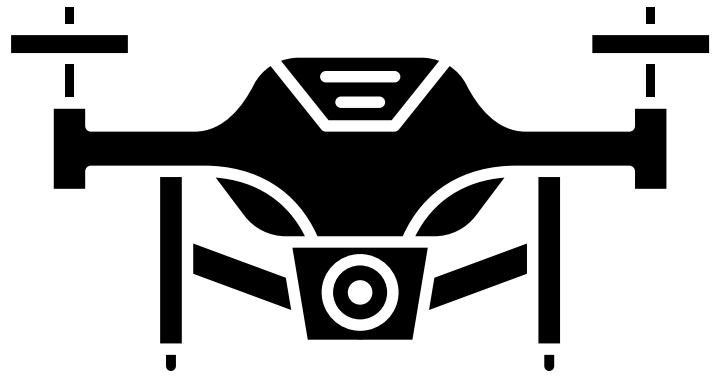
About Magellanic Space



Space Assets



Energy



Defense



Automotive

Major Challenges

Current Threats and Issues
To Be Addressed

Incidents in 2022

**\$50
million**

was extorted from **Saudi Aramco** after malware attack into their infrastructure

Sources: [EC](#), [CPO](#), [S&P](#)

**45
major**

discovered attacks on energy infrastructure since **2017** causing down time.

90%

of Delta-Montrose Electric Association's internal controls was turned off and **25 years** of historical data removed.

Major Threats



Complex Supply Chain starting with software



Access Management and systems interoperability



Large-Scale, dynamic infrastructure

Continuous Challenges



Growing need for energy



Multi-Entities Infrastructure



Legacy Applications & Infrastructure

Space

Technology

Galileo and Copernicus data

Space Guardians

Copernicus



Galileo



Infrastructure Monitoring

Day to day

Cost efficient method of monitoring infrastructure including land monitoring.

Plan

EO data can be used for future distributed network extension in addition to aerial images.

Detect

Detect change in in the infrastructure, especially in rural areas with less developed monitoring

Infrastructure Monitoring

EO Data

Quick insights

**Secured Shared
Data Repository**



Galileo Value

Time

Tamper-proof and protected against external interferences timing information.

Geolocation

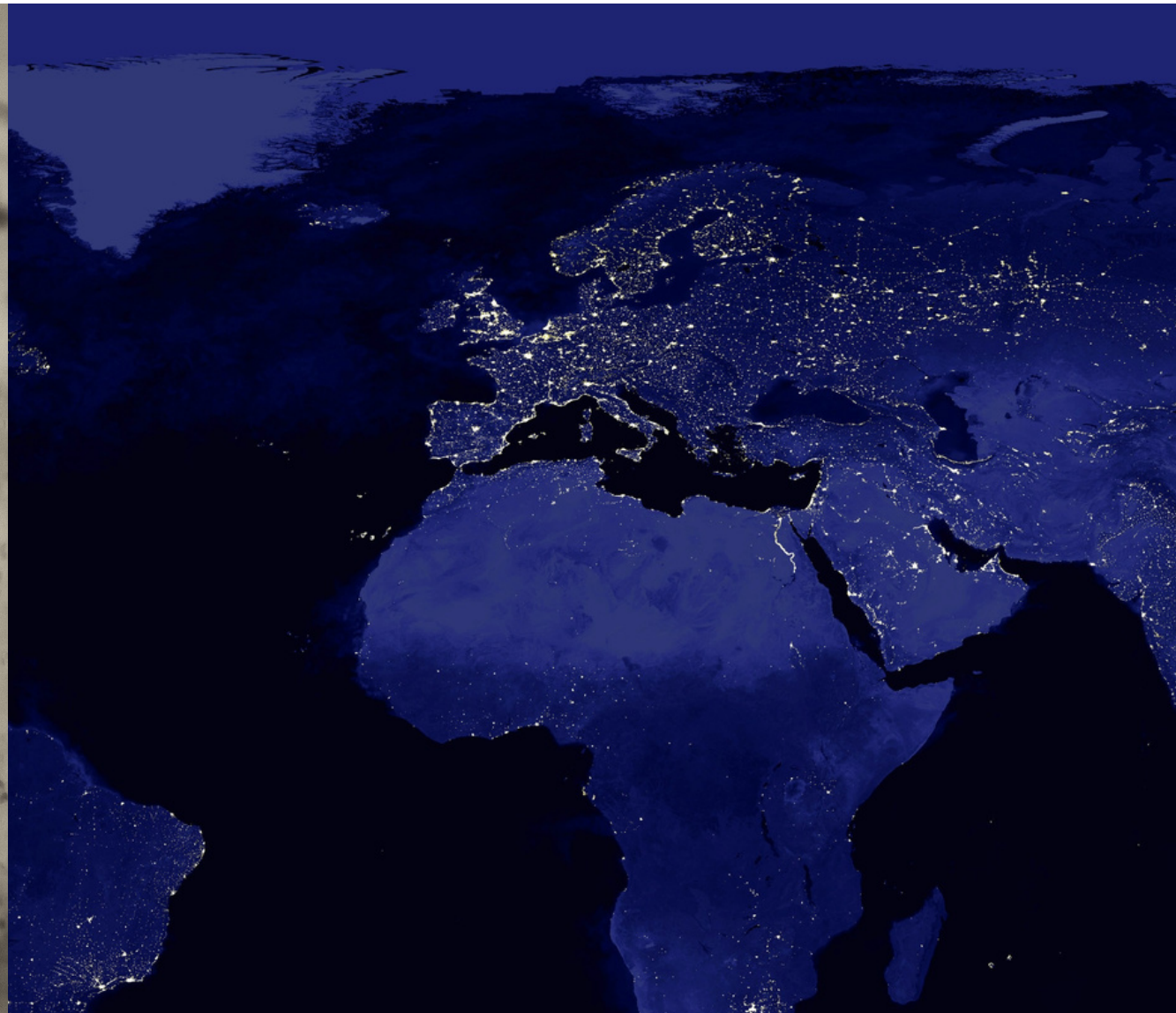
Precise GNSS receiver for drones to run maintenance tasks and monitoring.

Securing with Galileo

**Timestamping
Data**



**Access To
Robust Time Source**



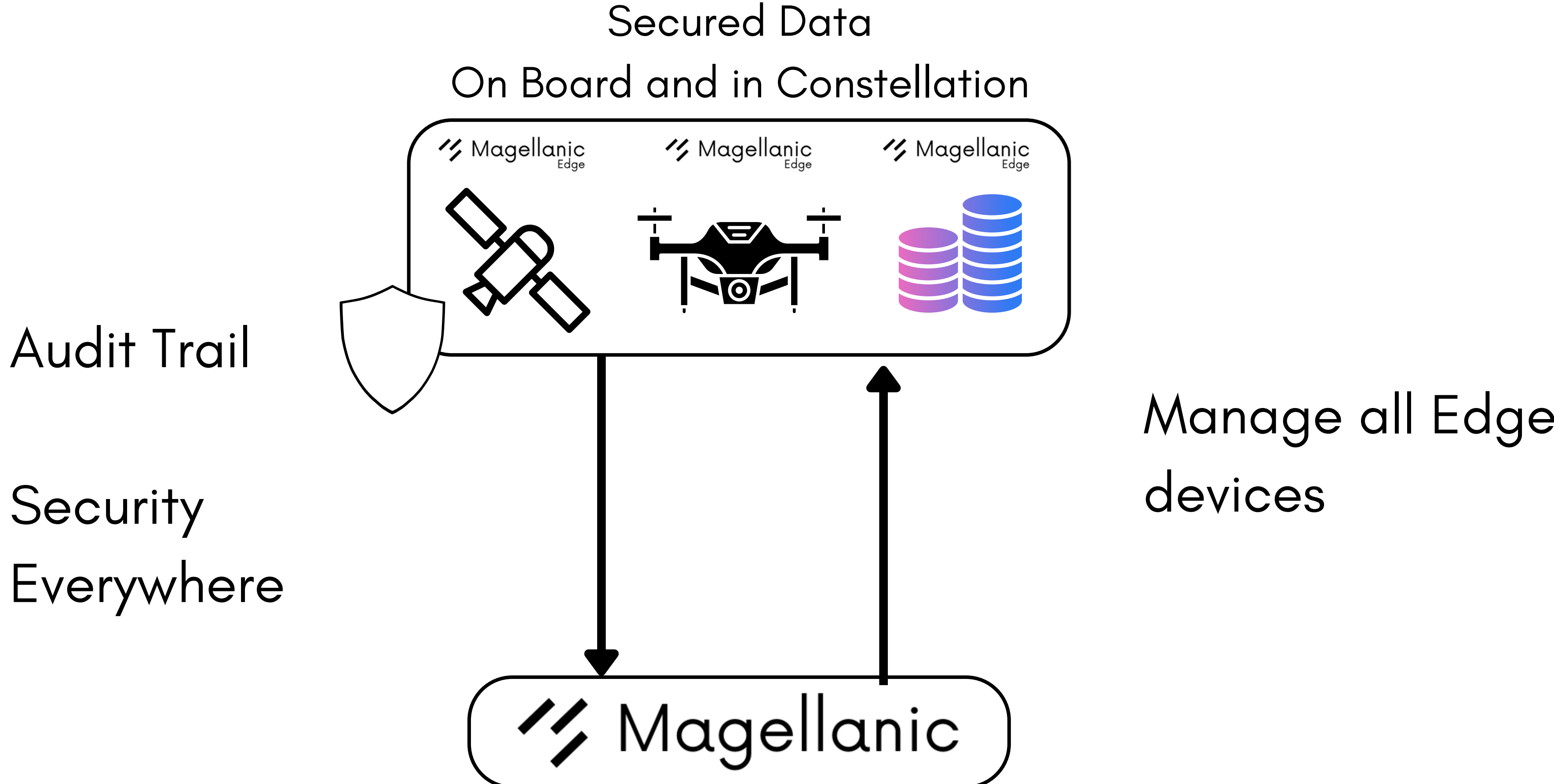
**Precise GNSS
system**



Distributed, Autonomous Security

Magellanic Space Solution

Magellanic Space



Space for Our Security

Data

Cost efficient method of monitoring infrastructure including land monitoring.

Scale

EO data can be used for future distributed network extension in addition to aerial images.

Real Time

Detect change in in the infrastructure, especially in rural areas with less developed monitoring

Magellanic - Case study

Company

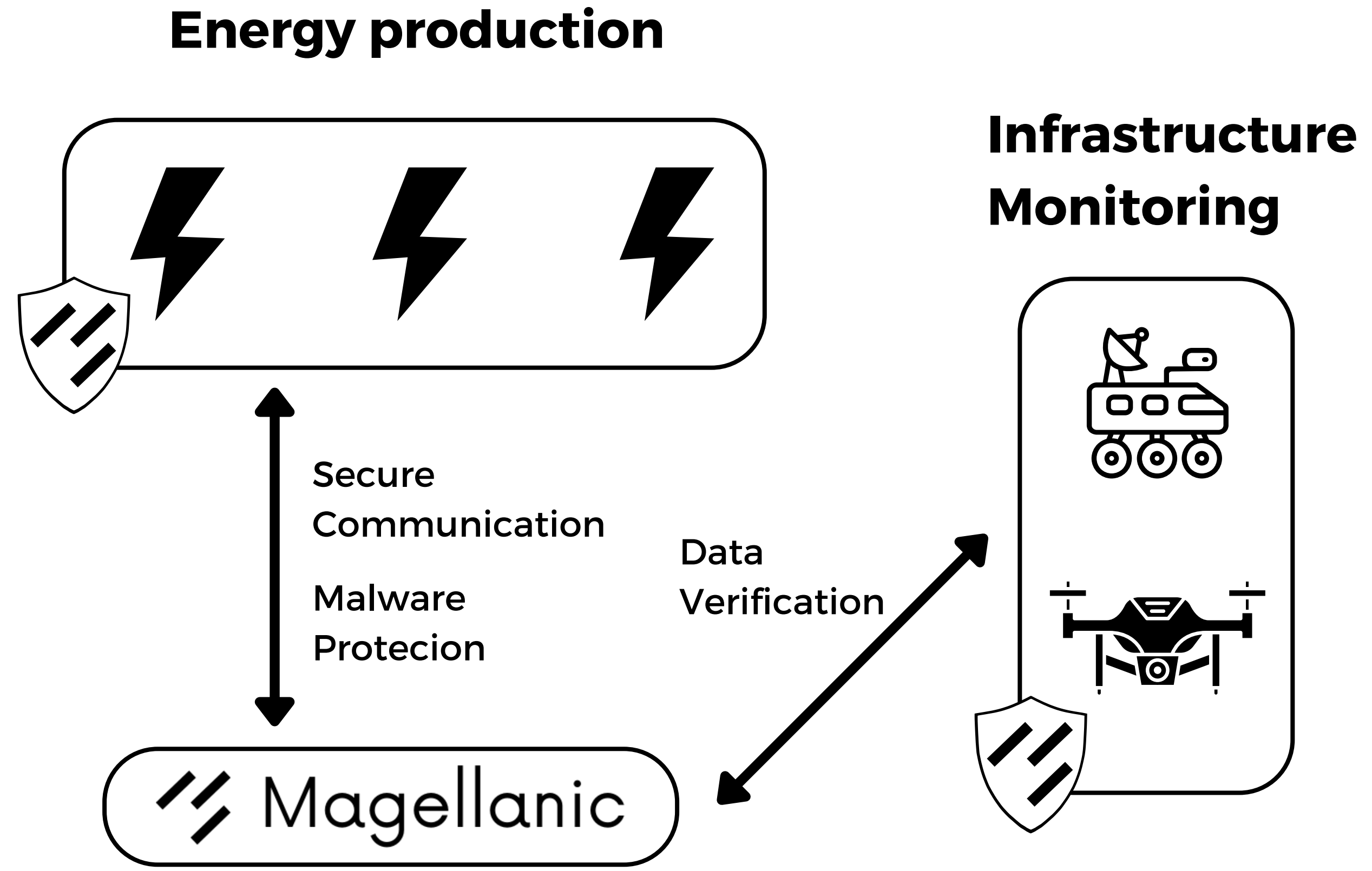
National oil&gas company implementing renewable energy production and green hydrogen.

Challenge

- Securing distributed energy IoT
- Verified passport of energy used for green hydrogen production

Magellanic - Case study

Solution



Magellanic - Value

Protect

Connected

Devices

Secure

Critical

Infrastructure

Prevent

Security

Threats

Automated

Distributed

Smart Grid

**Secure
World.
Together.**

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