ZAITRA®

We watch the world in the past tense

The information already exists. It just doesn't reach anyone in time.

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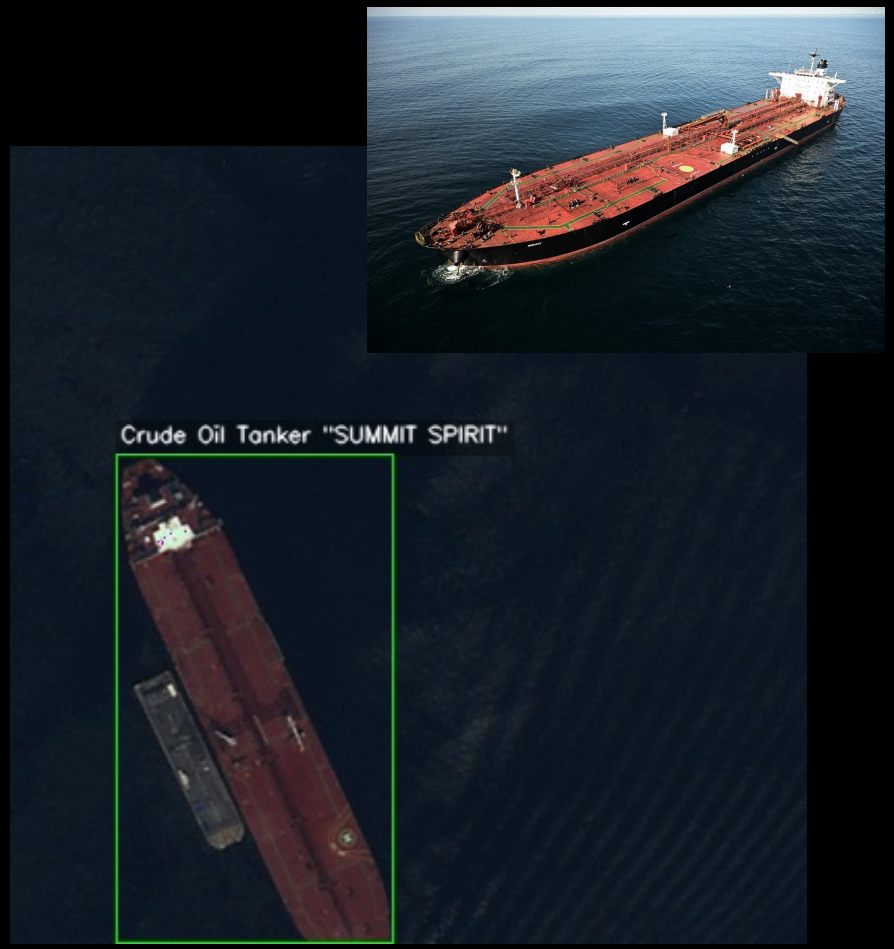
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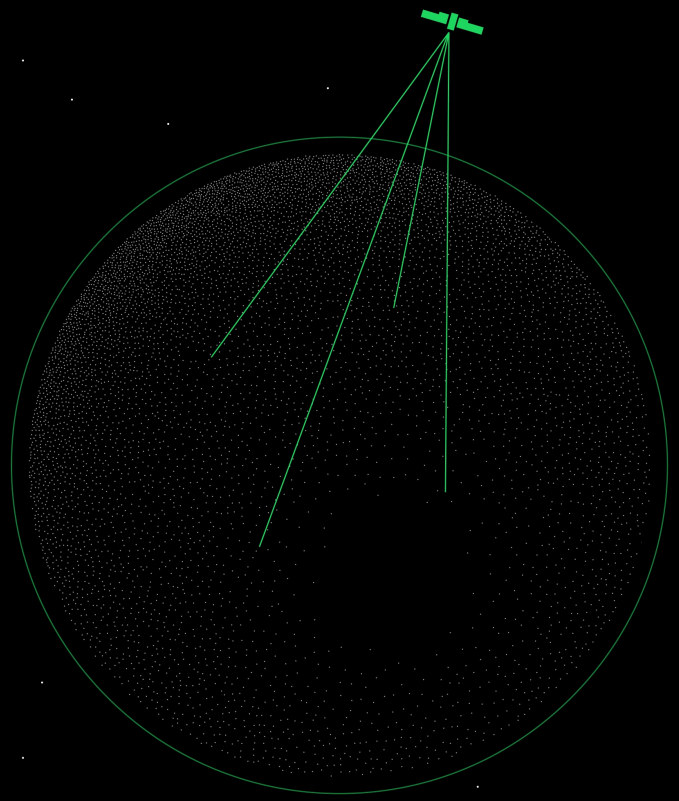




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Problem of Latency

End-users are waiting hours or days
for latency sensitive information from satellites



Petabytes of critical data are never delivered to any customer or delivered too late due to technical limitation

These delays can cost billions of USD in infrastructure damage or, worst, result in the loss of civilian or warfighter lives.

Latency remains one of the biggest challenges in the Earth Observation industry.

**Request an access to ZAITRA White Paper or Data Room for deeper problem understanding*

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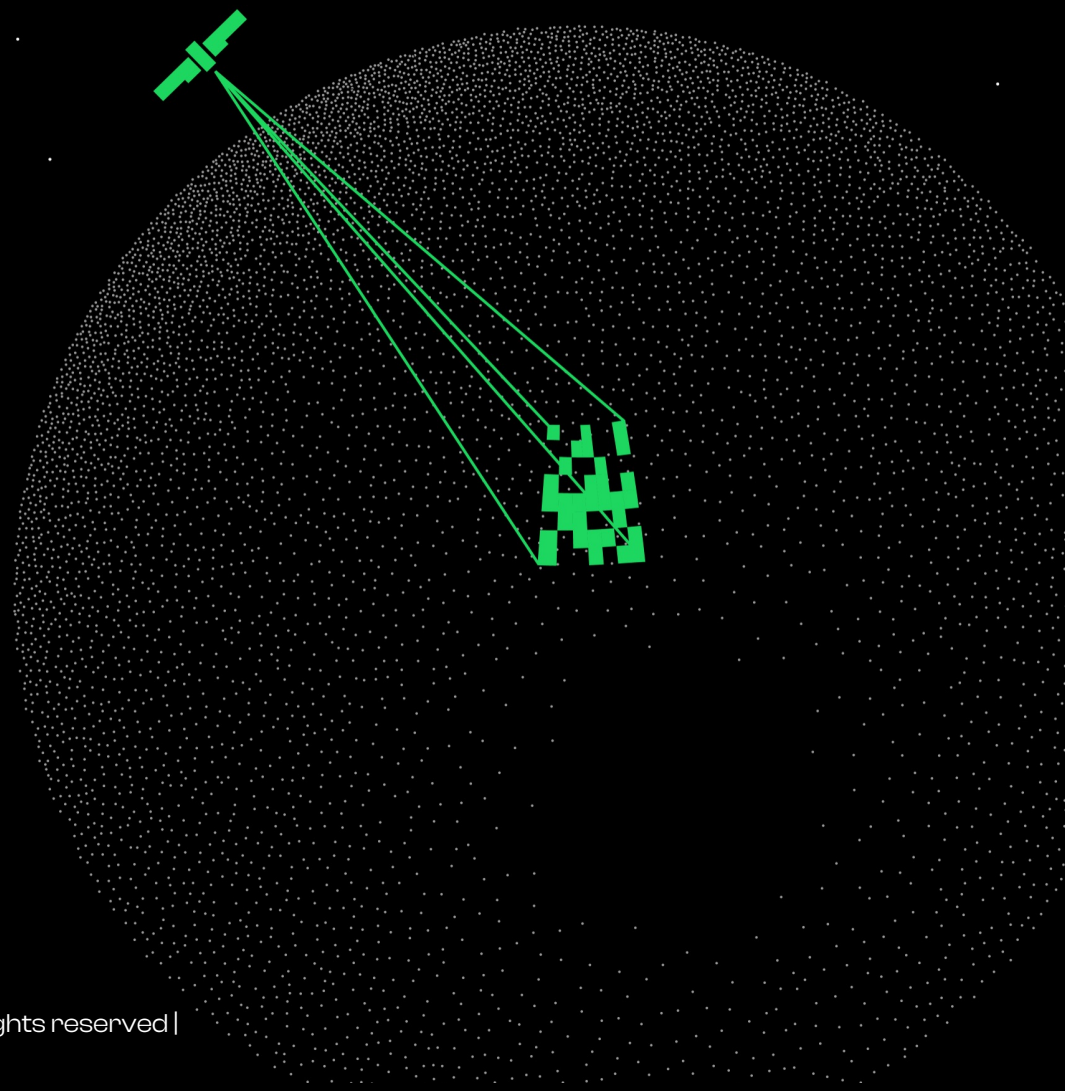
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Everything we call satellite intelligence is really satellite history

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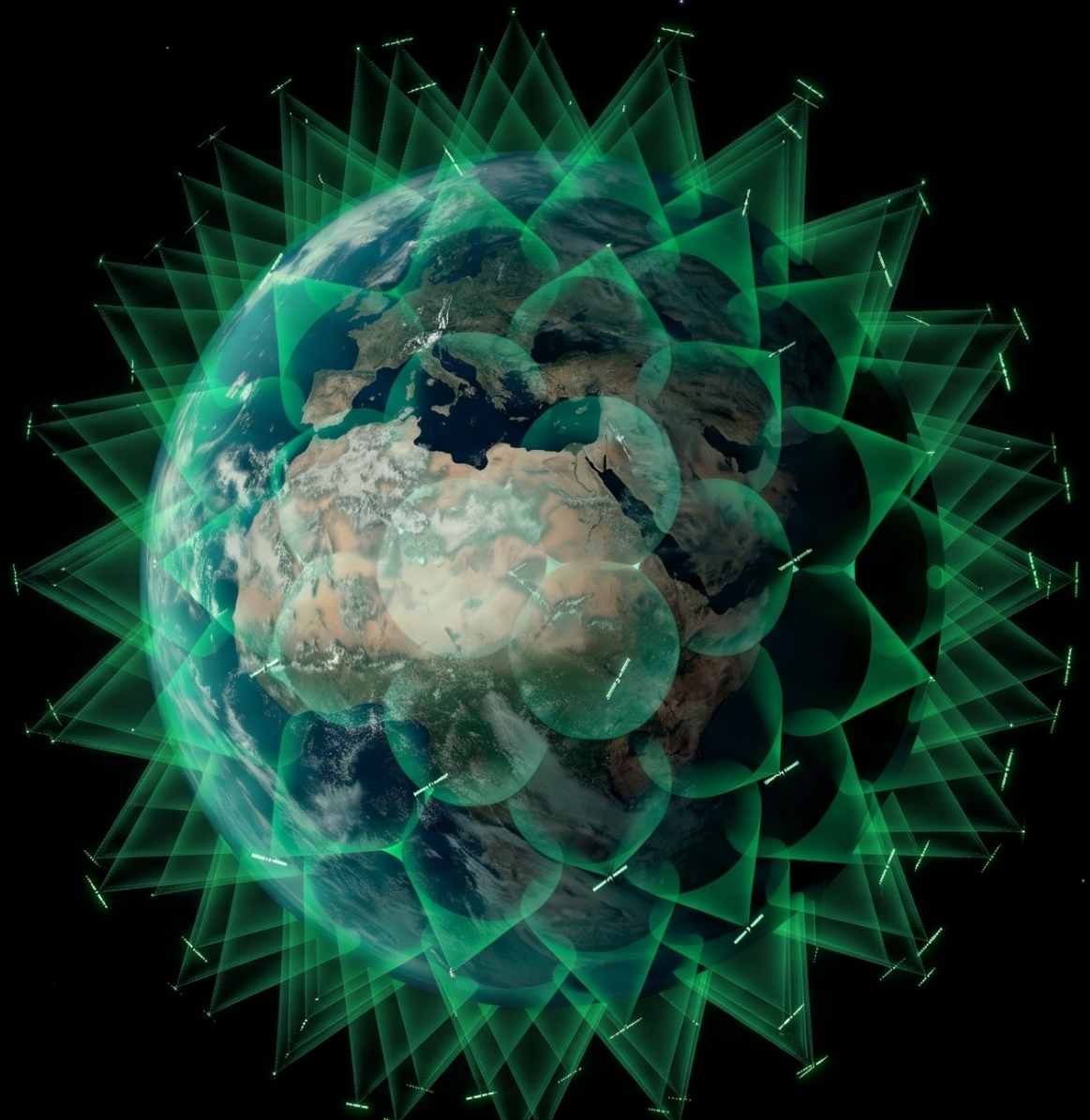
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Turning satellite data into action without delay.



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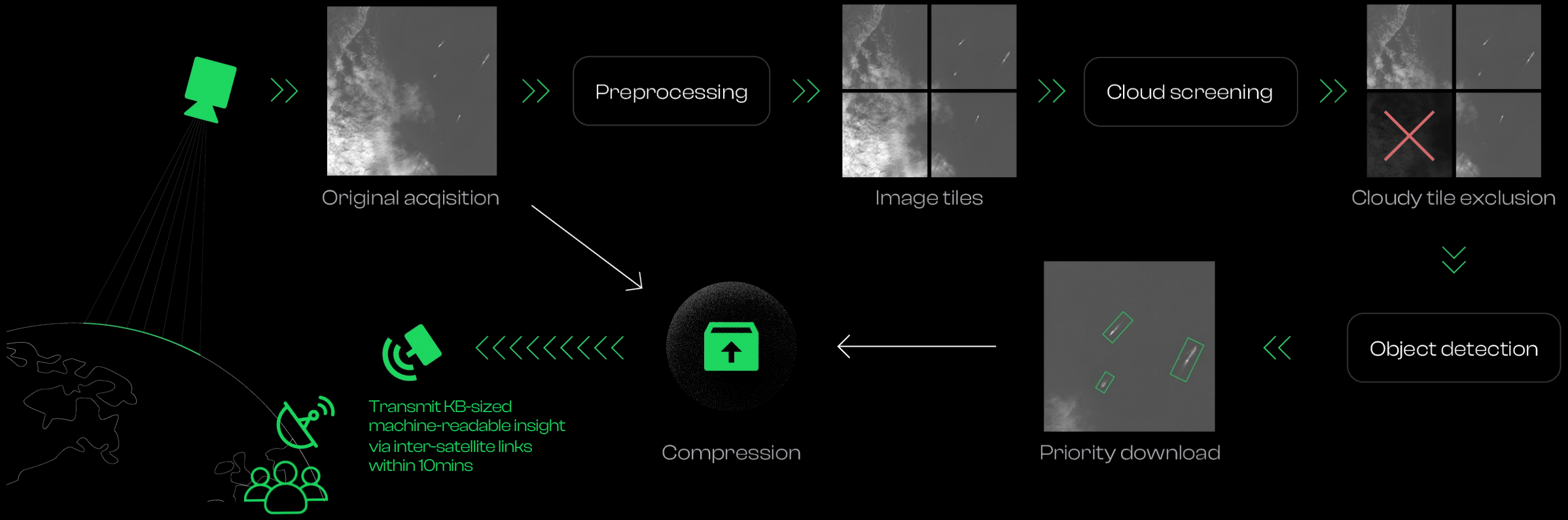


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SKAISEN

Sending compressed KB-size textual or visual insights instead of GB of raw data in minutes not hours or days



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Dual Use Applications

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Real-time analysis for enhancing tactical decision-making during missions

Instantly detect potential emergency threats entering a critical territory and create a machine-readable alert in minutes instead of hours.





Connected to existing operational systems, such as **drone operations,** missile defence systems, fighters jets, or automated **situational verification** and **data fusion.**

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SKAISEN Data Products

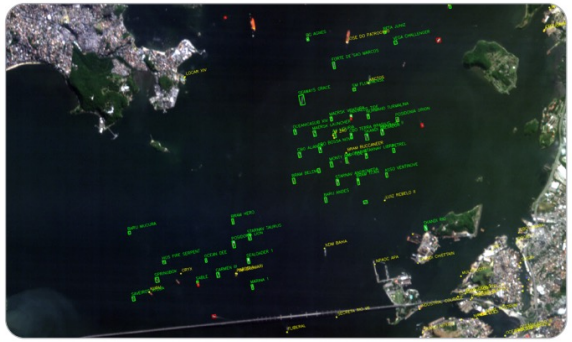
For low latency tactical target engagement and civil emergency situations


```
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    "detection": "Vessel",
    "confidence": 0.92,
    "sizeCategory": "Medium",
    "motion": {
    "isMoving": true,
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    },
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    "timestamp": "2025-07-08T15:48:53Z"
}
```

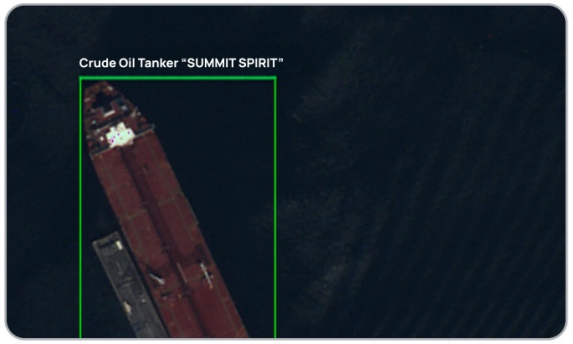

Real-time insight in machine-readable JSON format (<15kB) delivered to the end user within one minute from the moment a change is detected in orbit.



RoI Compressed image (<1MB): intelligently compressed imagery that preserves high-value areas in lossless quality, while compressing less relevant background to reduce bandwidth.



*Data fusion of optical sensor data with vessel Automatic Identification System (AIS) onboard a satellite to identify „dark vessels" candidates.



**Full-detail imagery can be requested with a slight delay to ensure maximum data integrity.

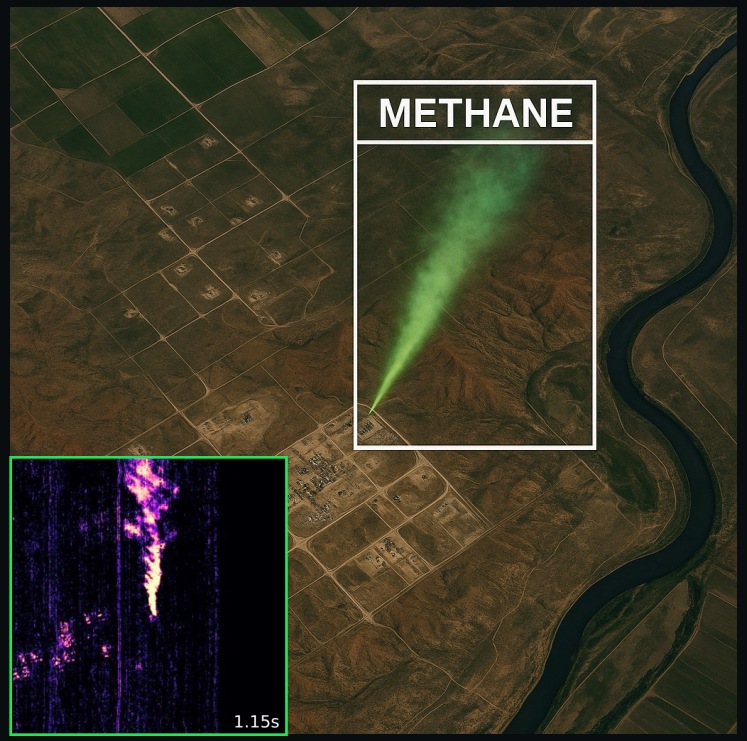
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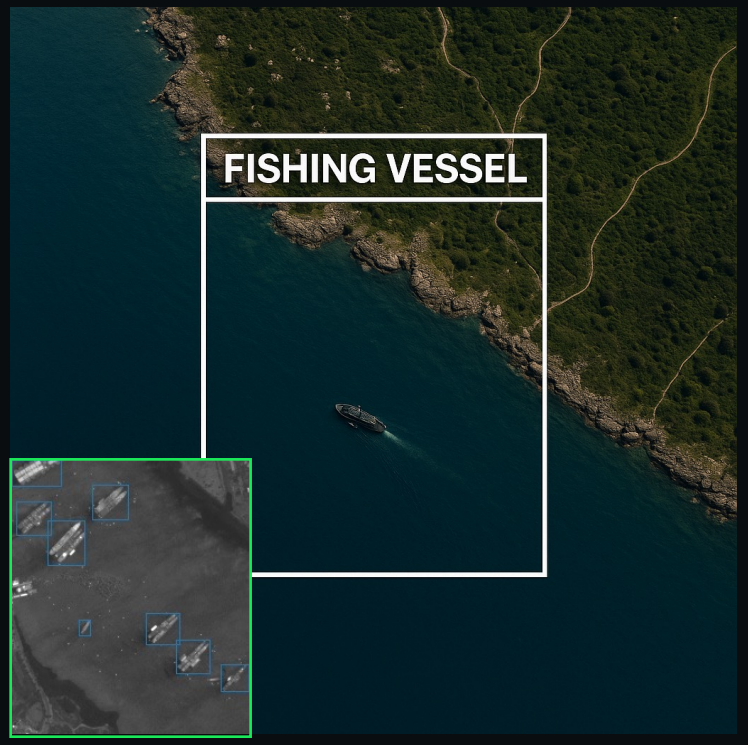
SKAISEN Applications

ZAITRA®

Receive actionable alerts for rapid intervention across surveillance, disaster response, and environmental enforcement.

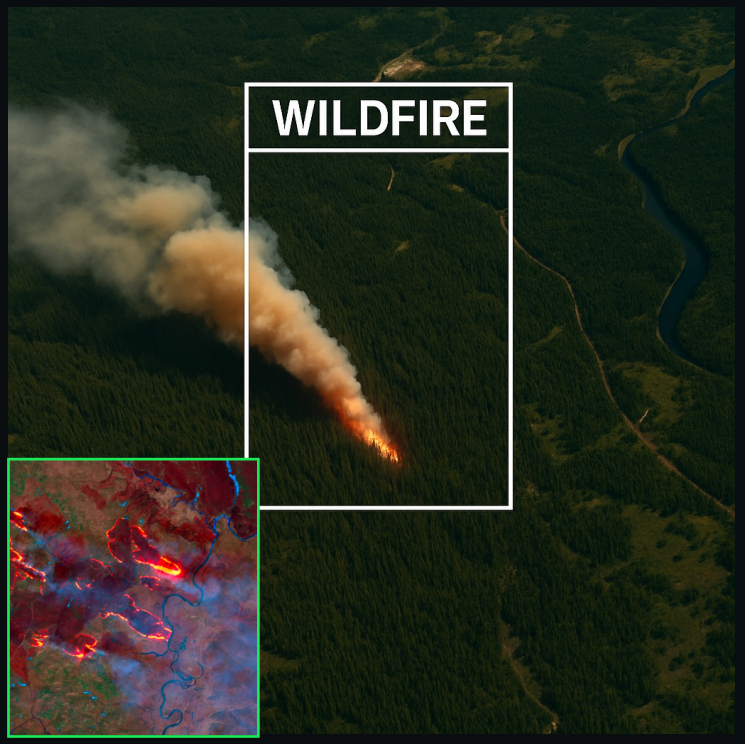
Methane Emissions





Illegal Fishing & Dark Vessels

Natural Disasters



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What targets we can recognize

We are building large proprietary self-annotated dataset for multiple MoD applications

Level 0: Domain	Level 1: Category	Level 2: Sub-Type	Level 3: Specific Model
Vessel	Cargo / Naval / Fishing	Container / Destroyer / Trawler	Maersk G-Class / Arleigh Burke / Longliner
Aircraft	Airplane/Helicopter/UAV	Commercial / Military / Rotary Wing	Boeing 787 / Mi-8 / MQ-9 Reaper
Ground Vehicle	Construction / Military / Logistics	Excavator / tank / semi-truck	CAT 320 / T-90 Tank / Volvo FH16

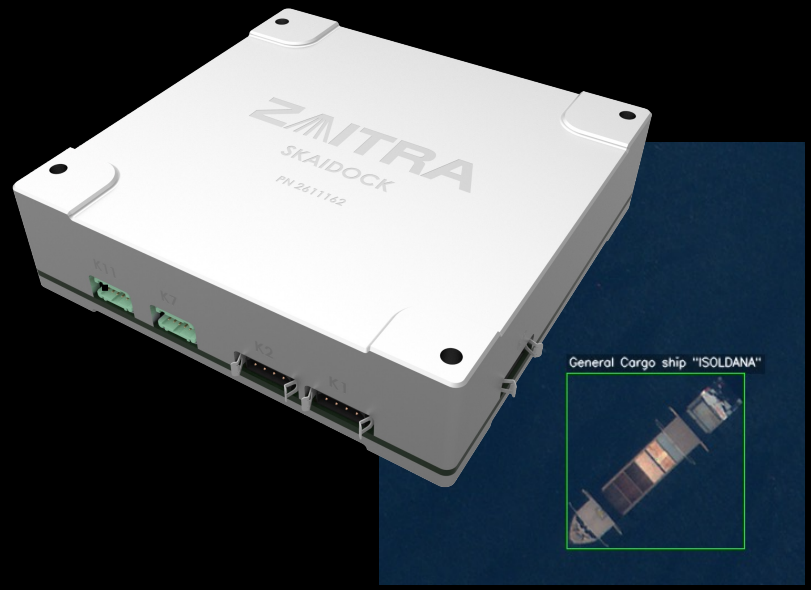
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Products Overview

Zaitra's proprietary AI and HW components :

1) SKAISEN

AI-based on-board software for in-orbit insights detection



2) SKAIDOCK

a high-performance & space qualified computer

3) SKAIVISION

On-board pre-processing L0-L2

4) SKAIVERSE

2nd generation of our HW data processing unit based on more powerful Versal chip

4) SKAIPACK

On-board Data Compression SW License

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SKAIDOCK

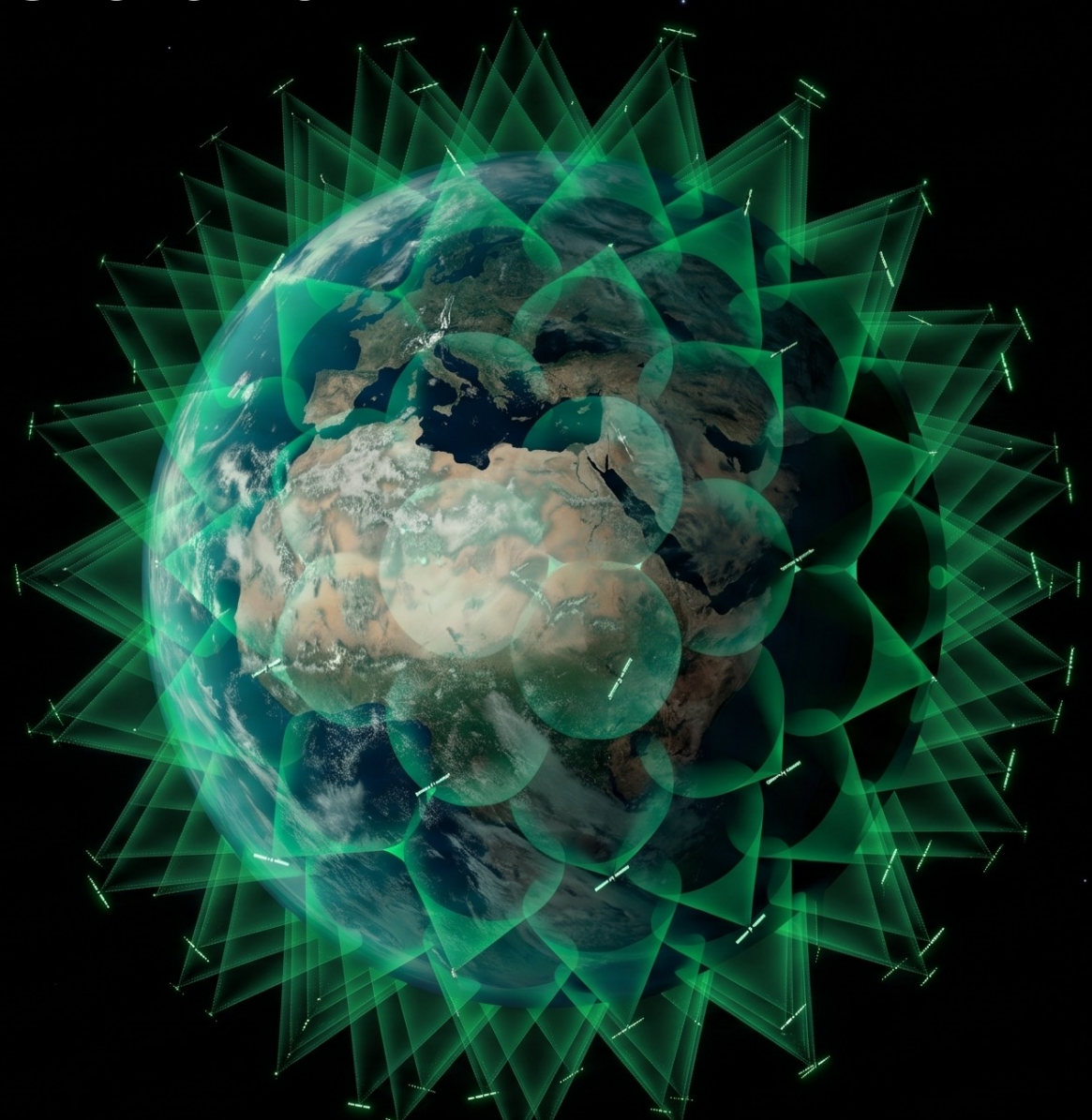
Flight Model ready for orbital deployment:



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SKAISEN Constellation

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SKAISEN intelligence products

The goal is to become a potential layer to certain defence/civil applications for low latency target engagement or emergency situations.











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SKAISEN Constellation Demo

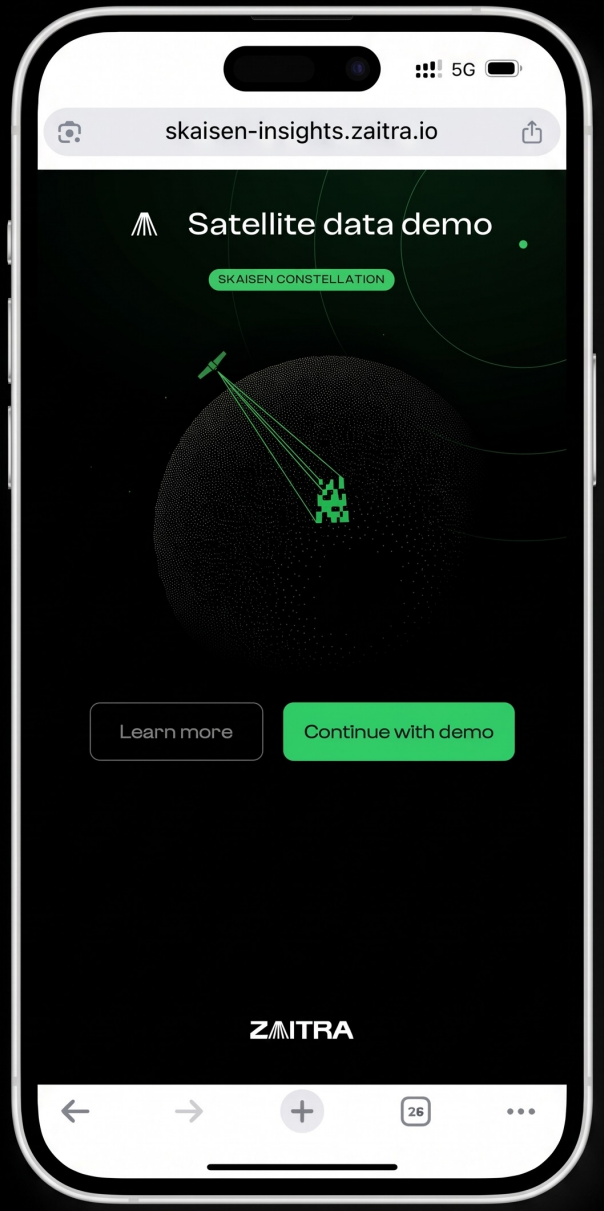
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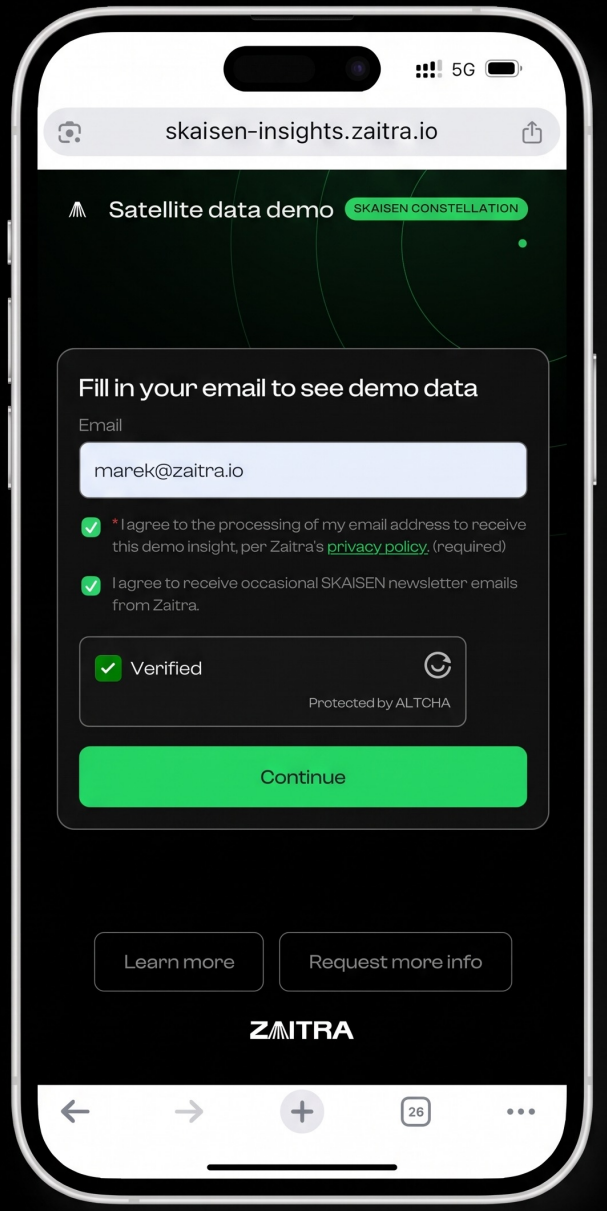
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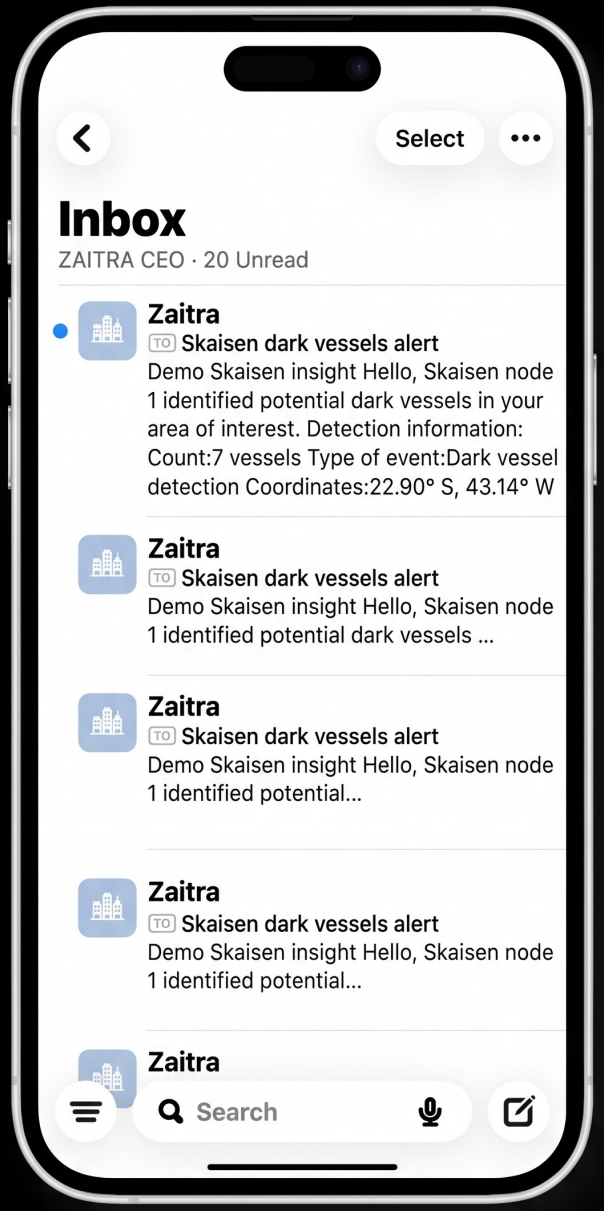
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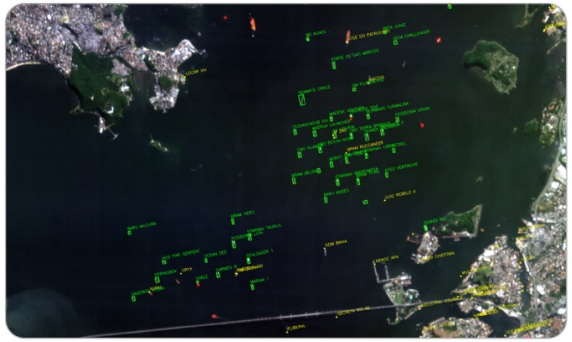
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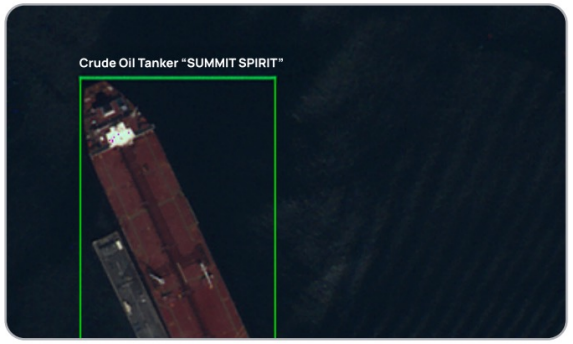

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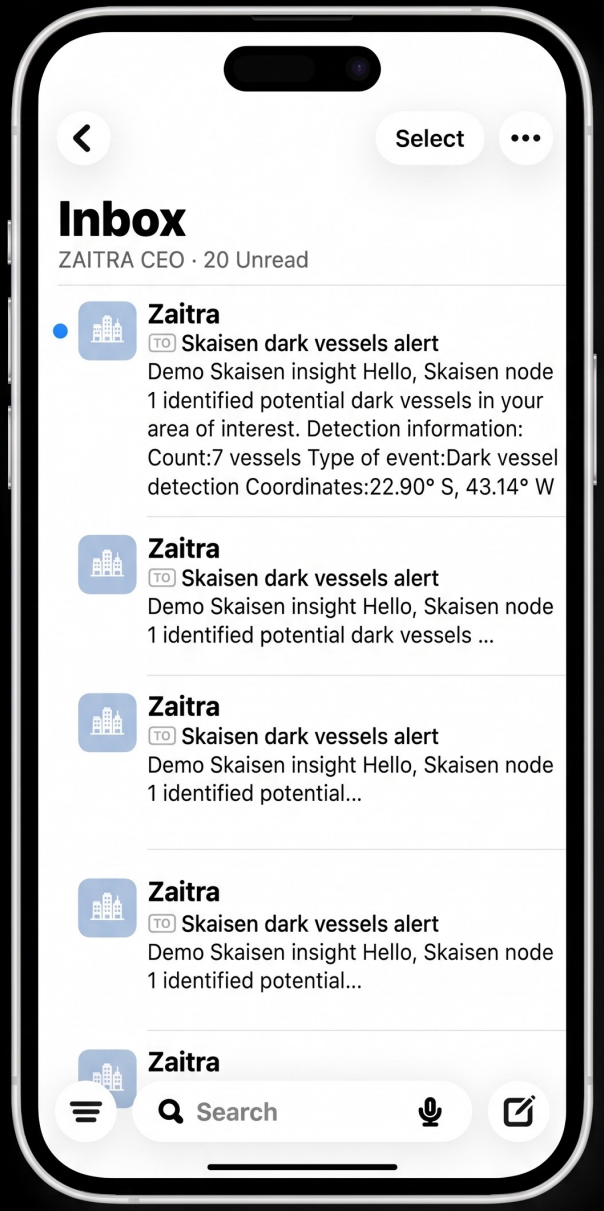
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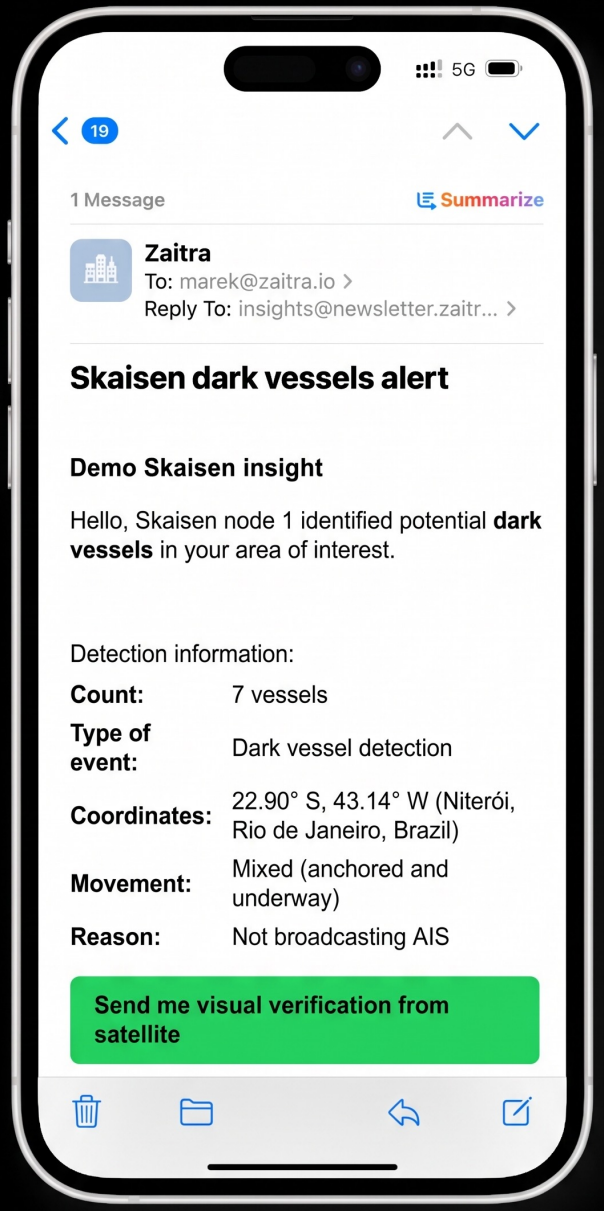
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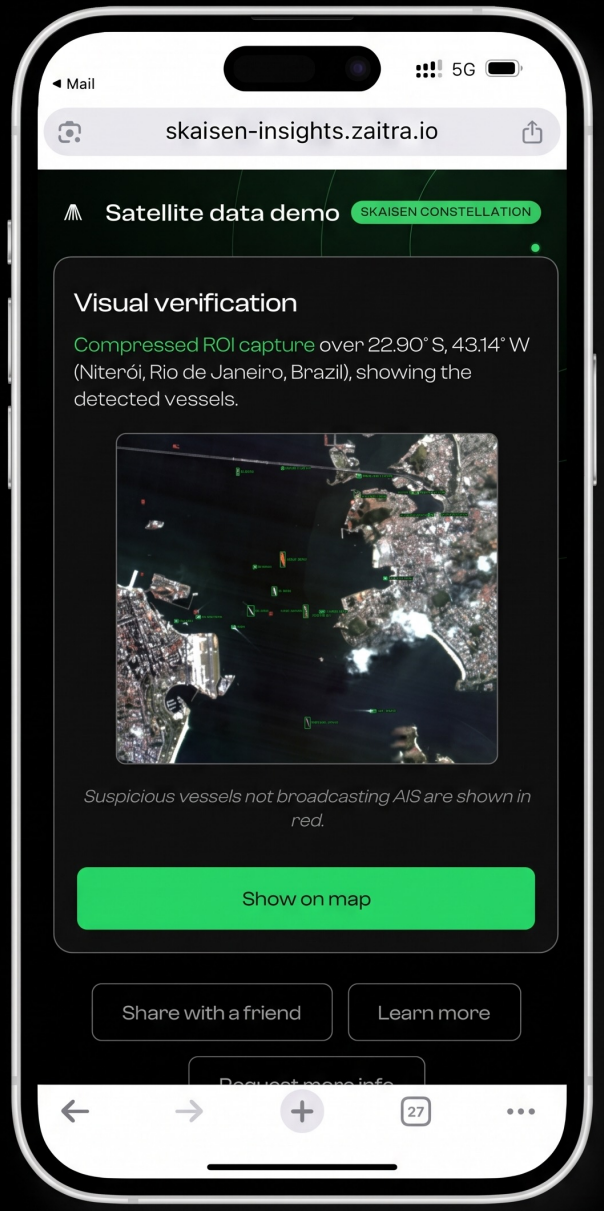
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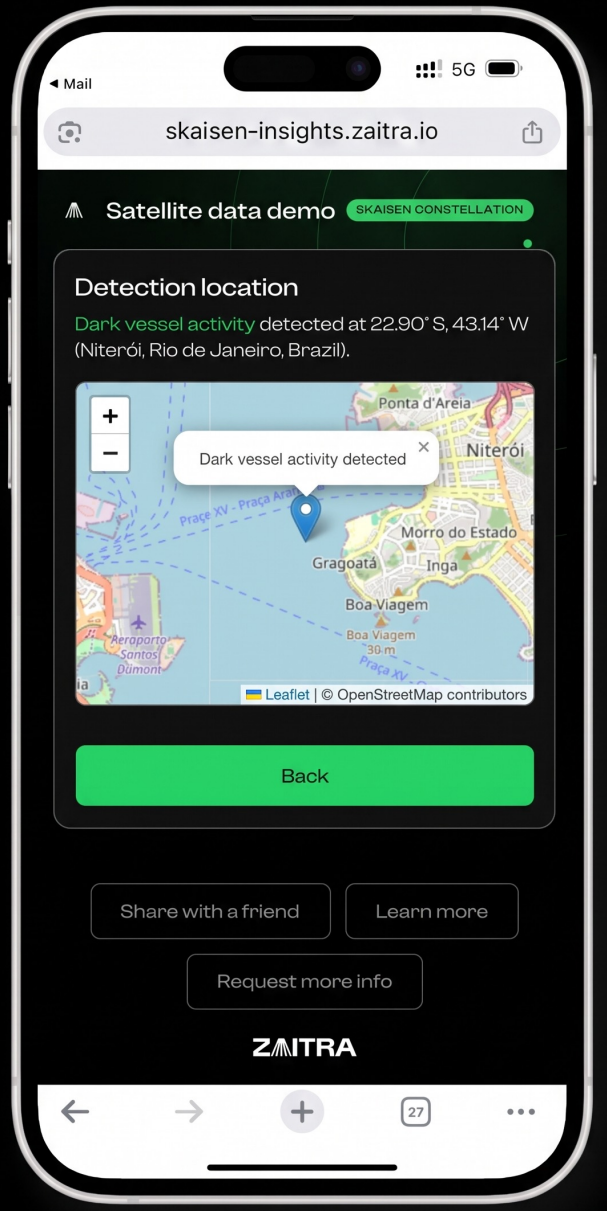
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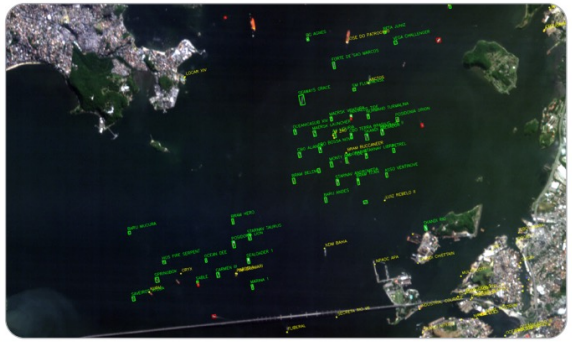
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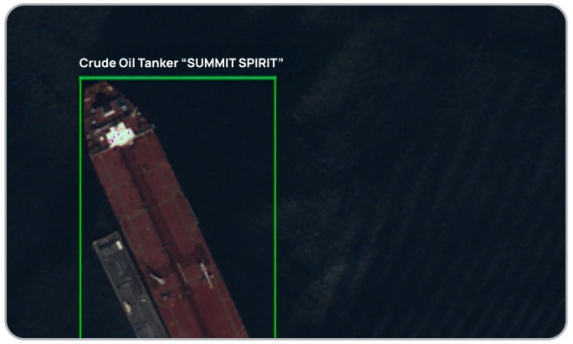

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SKAISEN Constellation Deployment

Using third-party sensors today, while we build our own infrastructure in space.

SKAISEN

In-Orbit AI SW License & Ground Platform



\+

ZAITRA DPU

In-Orbit HW accelerator



\+

Deployment

As SW or HW payload with 3rd. parties



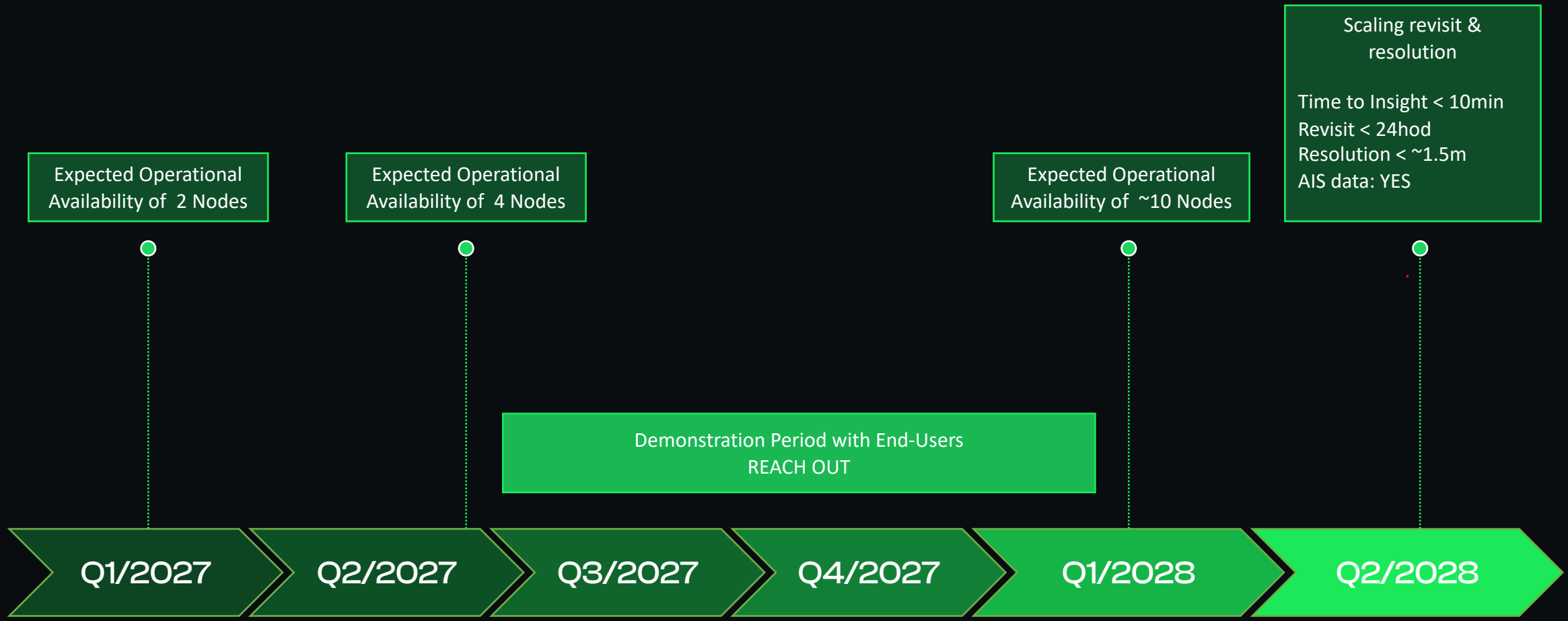
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SKAISEN Node

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SKAISEN Constellation Deployment Timeline

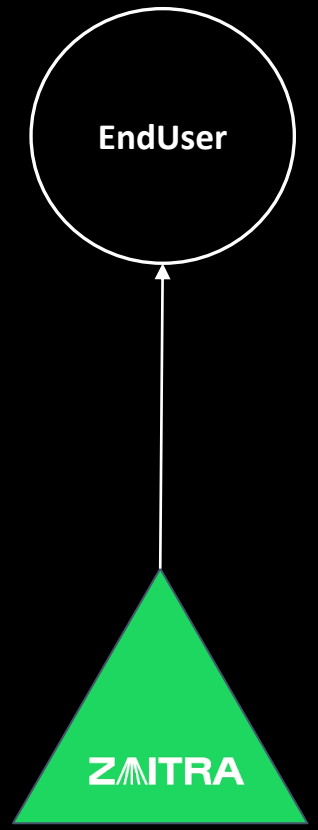
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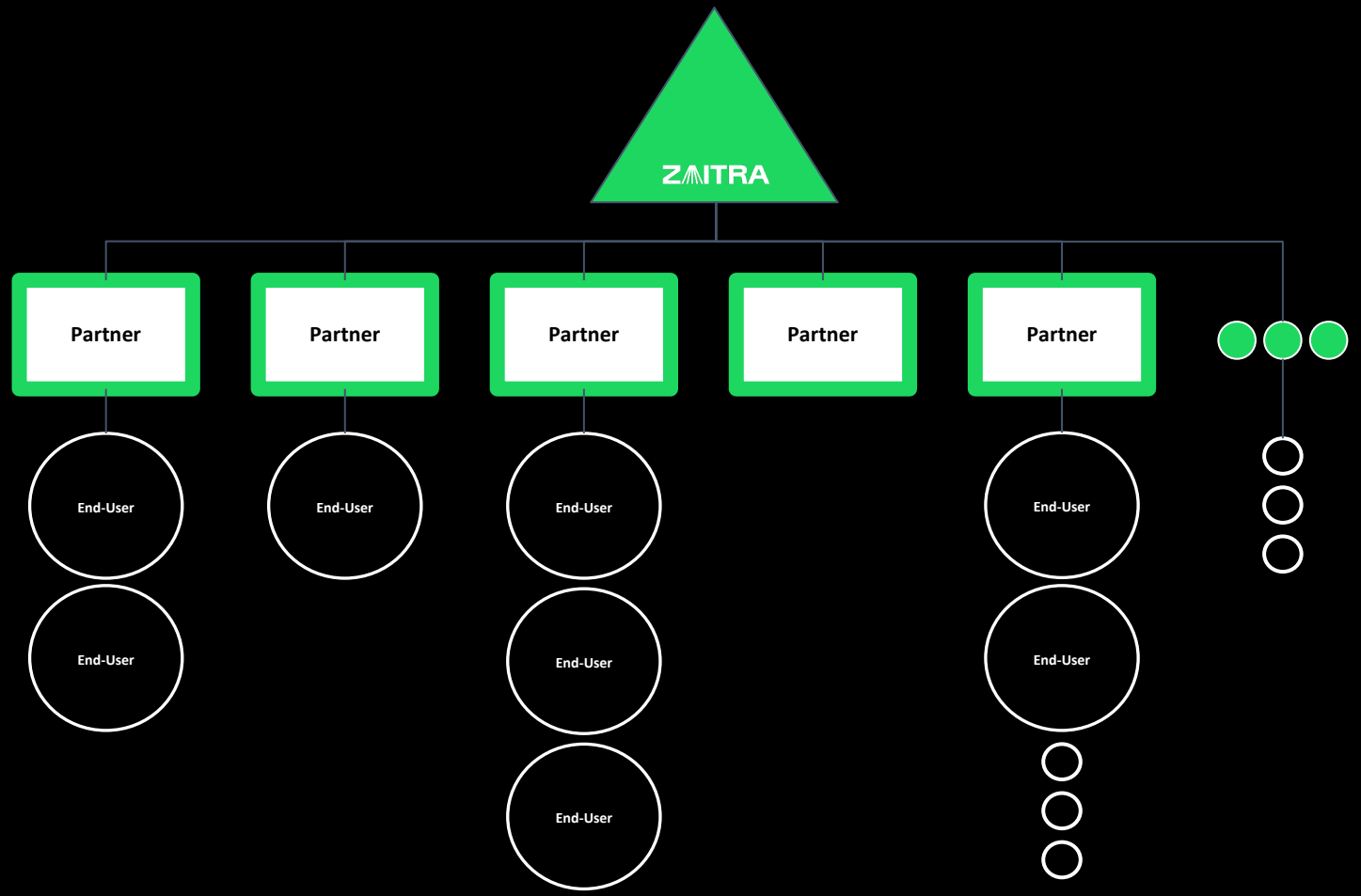
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We are searching for

Early Adopters and Distributors



&



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About

ISO Certification 9001 & 27001

On-going Implementation

Security Clearance

EU-Restricted (company),

EU-Confidential(key employees)

~30 people

On-going Hiring

New Facilities

Electro lab,

Server rooms

Security room

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Heritage

Commercial order from US Gov.



HW units + SW licences for governmental customer in US

EU Defence Fund (EDF)

Onboard data processing capabilities for Project ARGUS

ESA Prime Contractor

Coordinating multiple ESA projects and consortiums

European Innovation Council

Implementing larger projects on EU level

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Heritage

Part of Czech Defence Satellite Mission 🇨🇿

Successful commissioning of Saturnin-1

Part of the largest Czech Commercial Mission 🇨🇿

Satellite TROLL with follow-up order for TROLL next generation

Part of RAVEN Project 🇵🇱

30M EUR first demo mission, expecting follow-ons up missions

Part of the Czech Commercial demonstration 🇨🇿

Satellite Corvus by Spacemanic

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Contact



Marek Marusin
CEO & Co-Founder

marek@zaitra.io
+420 603 360 655