



Myriad AI: A LEON's Journey from Bar Menu to Space

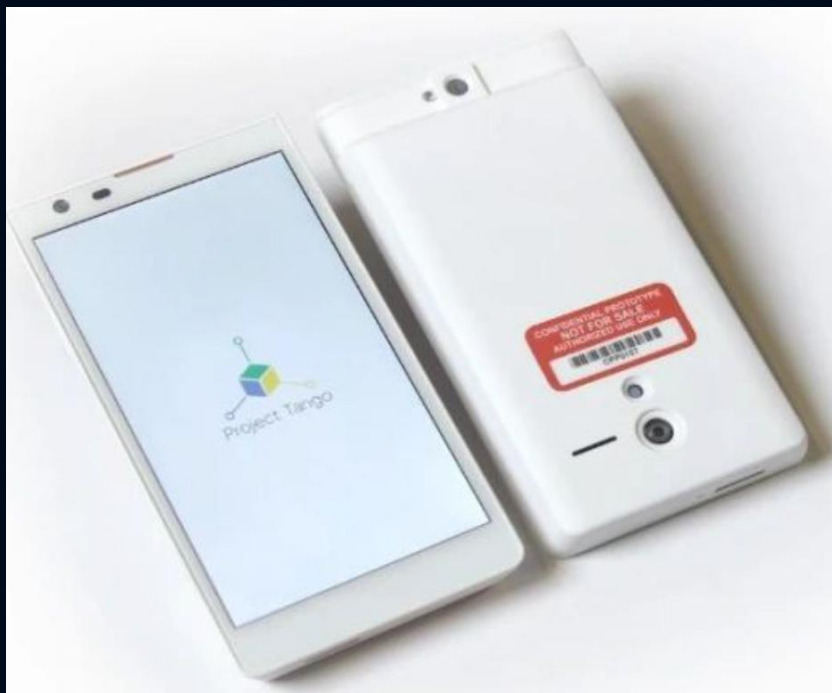
Aubrey Dunne
Ubotica Technologies

February 5th 2026


Mobile Vision, Myriad 2 & Drones


2014 - 2016

Google Project Tango




Myriad 2 Announced

Movidius 



Myriad 2:
"Eye of the Computational Vision Storm"

David Moloney, Co-founder & CTO
Co-Authors: Brendan Barry, Richard Richmond,
Fergal Connor, Cormac Brick, David Donohoe, et al.
Hot Chips 26 August 12, 2014

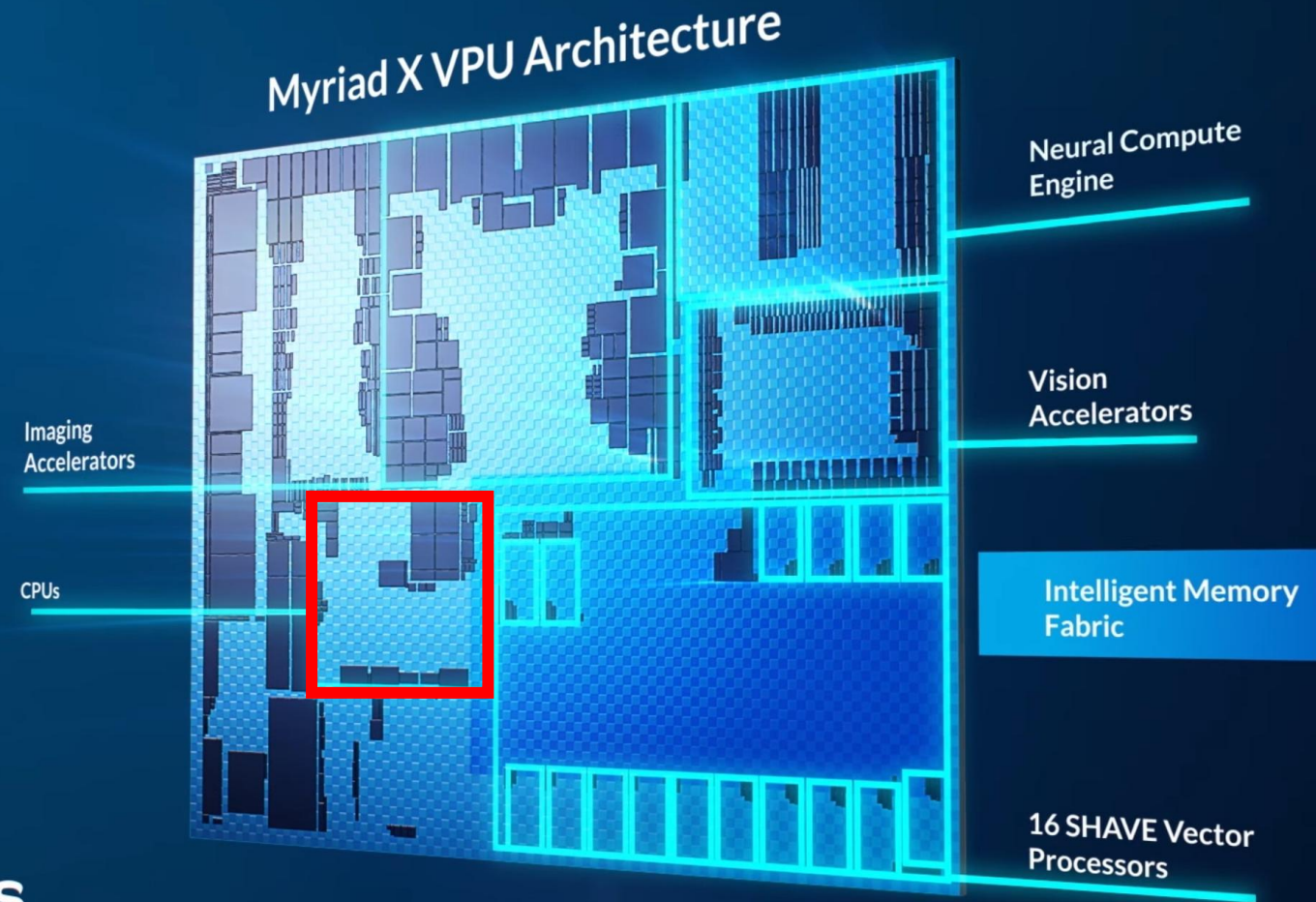


DJI Drone Integration



LEONs for SoC Management

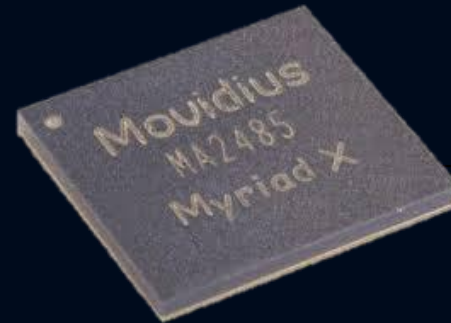
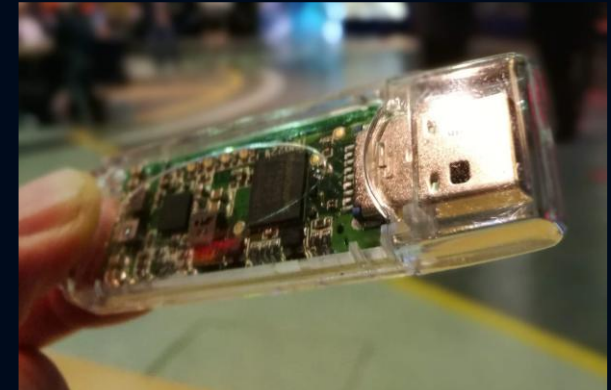
- 16 VLIW SHAVE vector cores
- 2 Deep Neural Network processors
- **2 LEON cores for SoC management**
- Efficient, low power (~2W)



ESTEC, Intel & Ubotica

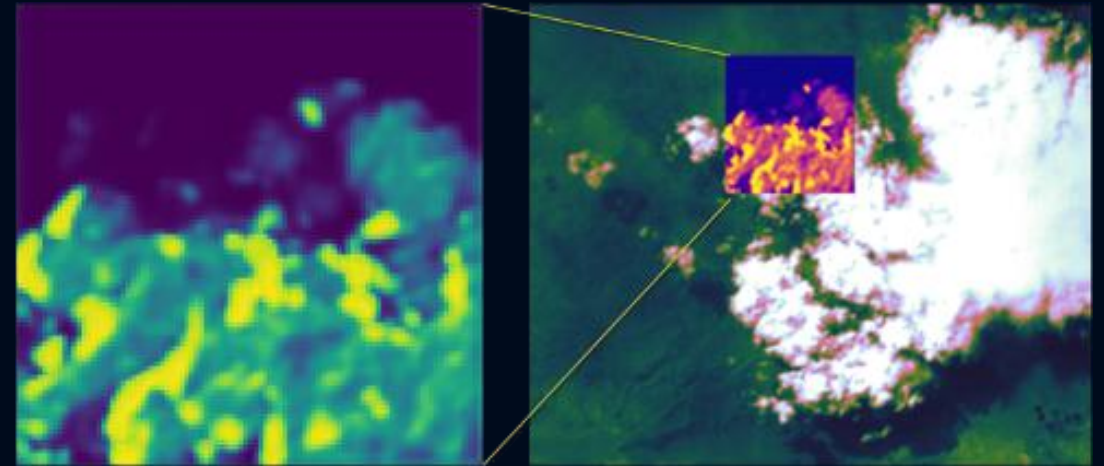
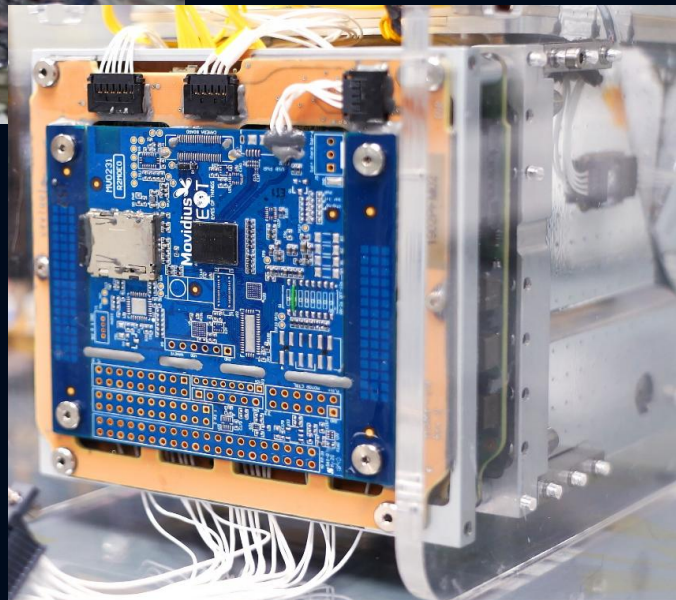
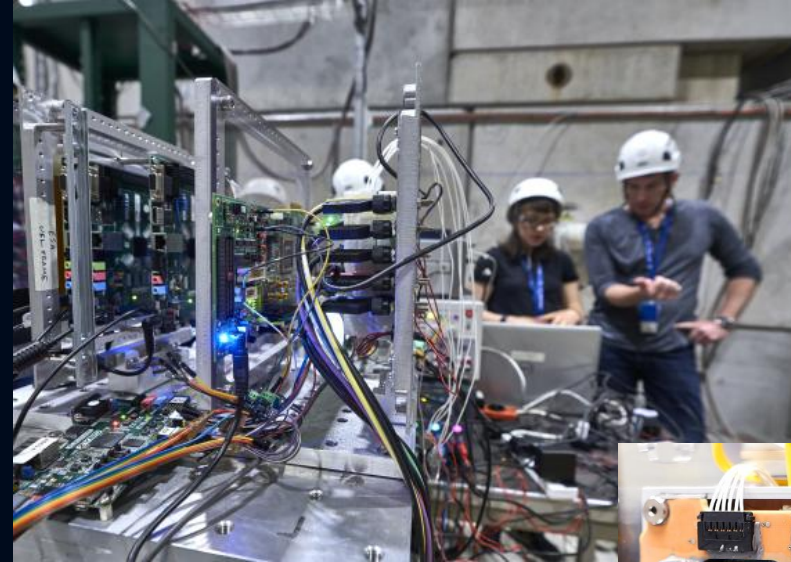
2017

- Trade mission to ESTEC
- Myriad X to market
- Intel acquires Movidius
- Ubotica is born



From Terrestrial Edge Back to Space

2018-2020



Ubotica + LEON SPACE:AI Missions

1st on board AI processing on a CubeSat

3rd party AI Models validated on the ISS

Intelligent Space Camera imaging & processing in-orbit

Autonomous Targeting on orbit

2020

2021

2022

2023

2024

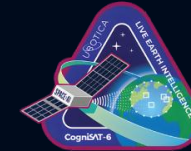
2024

2025

Deployed on 3rd party AI Accelerator on orbit

3rd Party Cloud Detection on-board

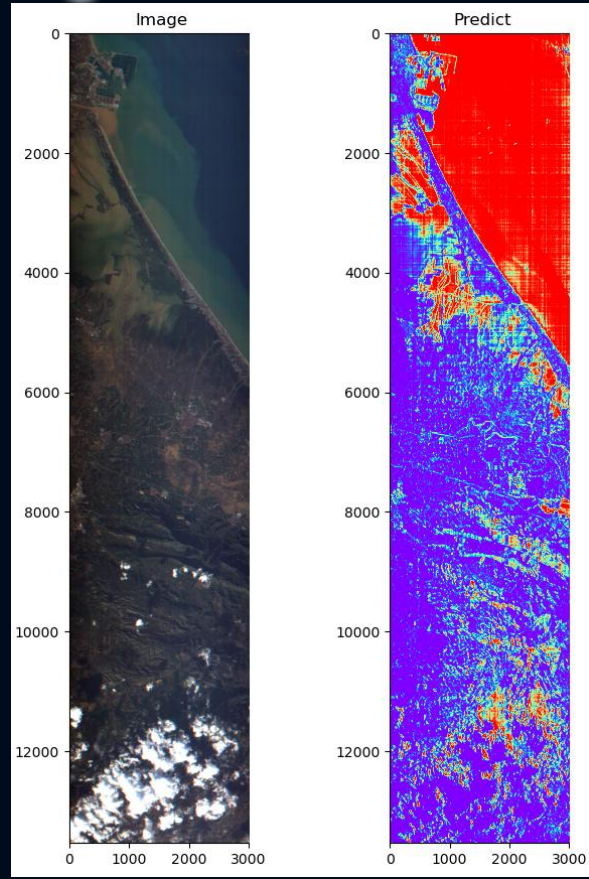
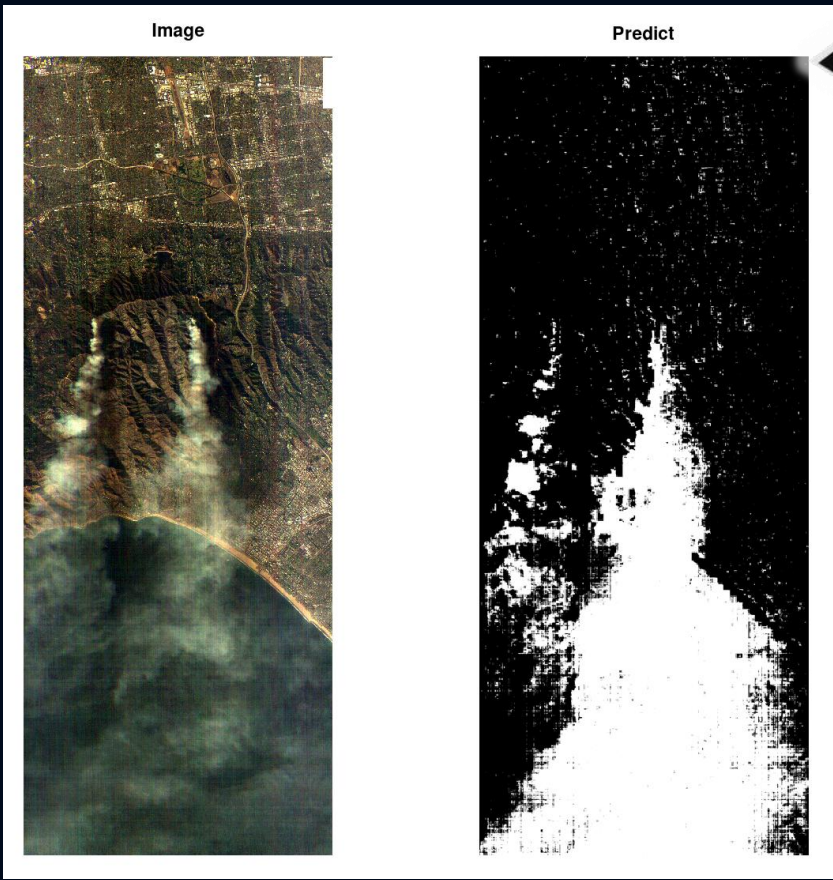
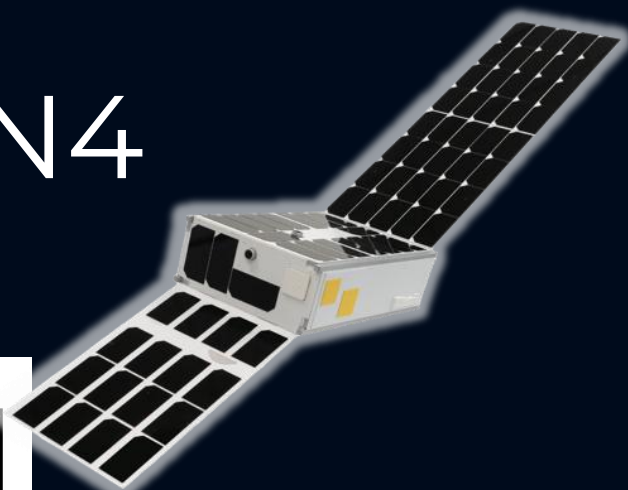
Insights to ground in < 10 minutes



All LEON controlled!



SPACE:AI ON COGNISAT-6 AI with LEON4



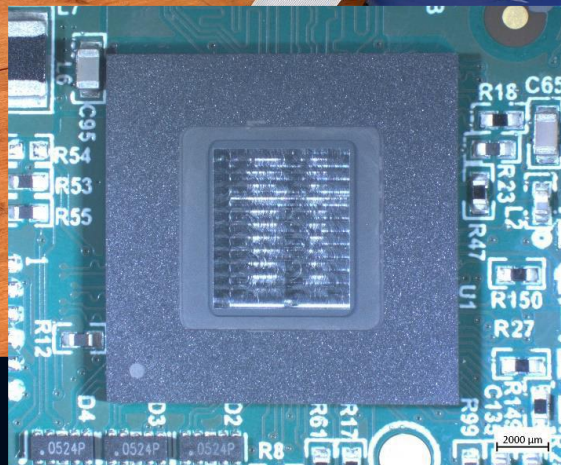
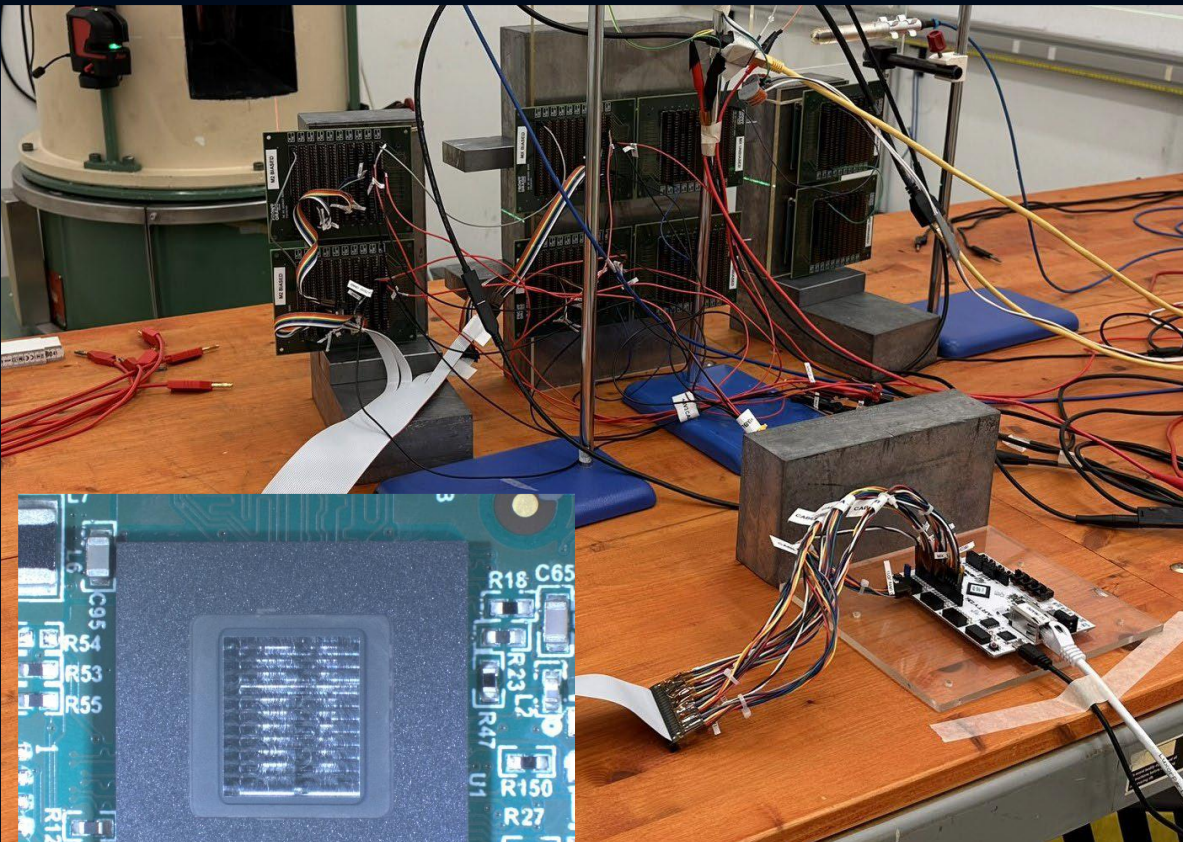


First image from CogniSAT-CAM, over California, from the APEX ARIES SN1 mission, June 2024

Gaisler & Ubotica Team Up

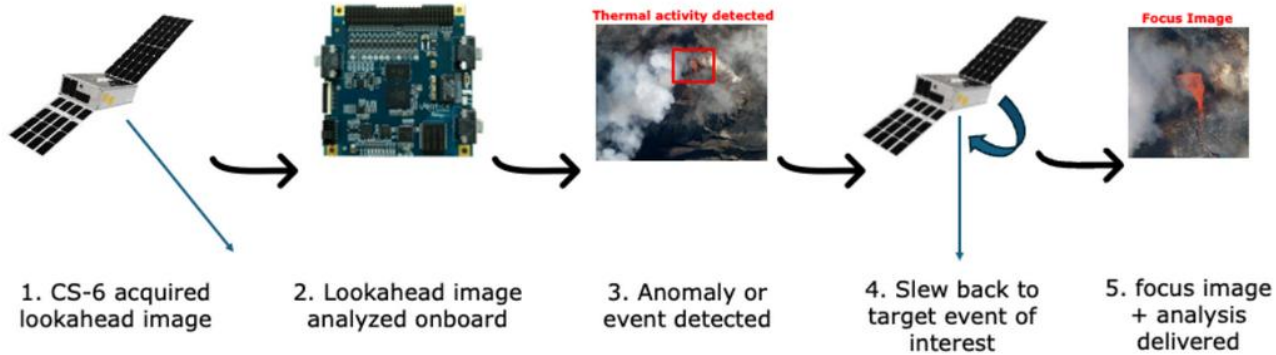
Radiation Characterisation

High Performance Compute

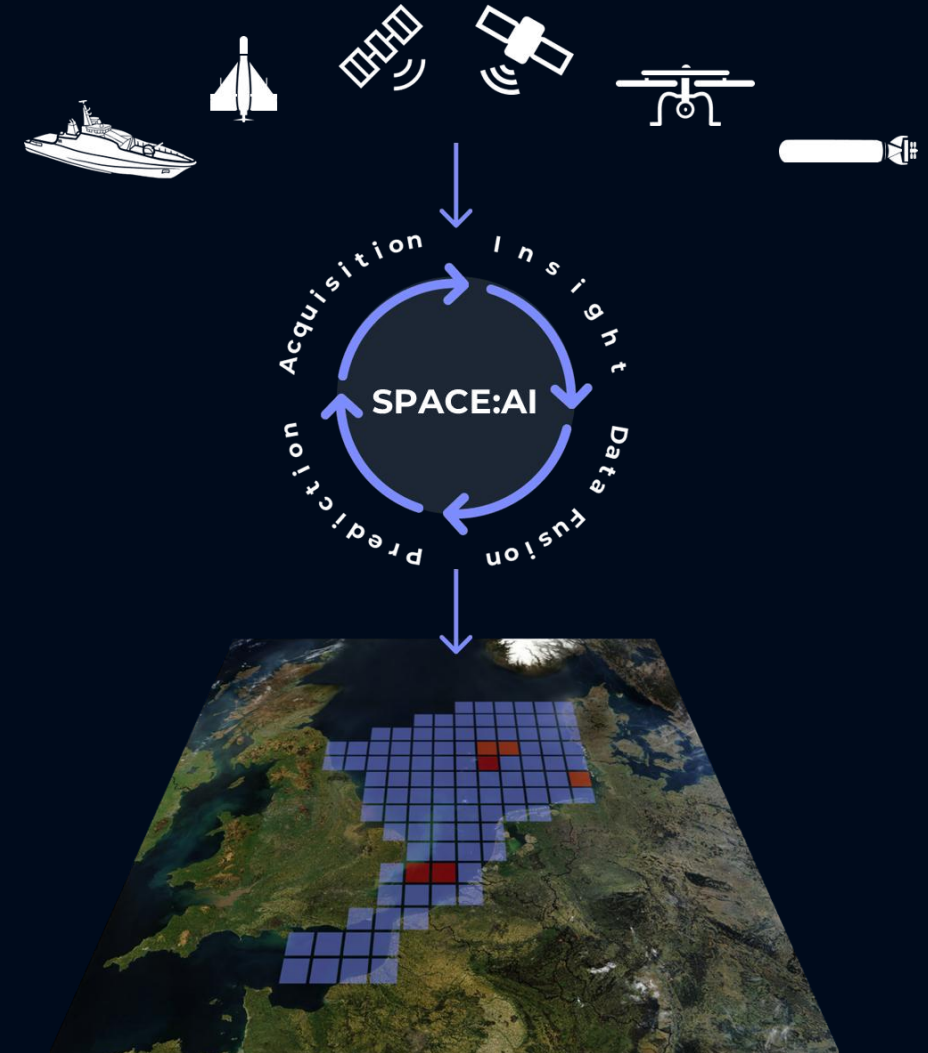


AI in Space – Now & Next

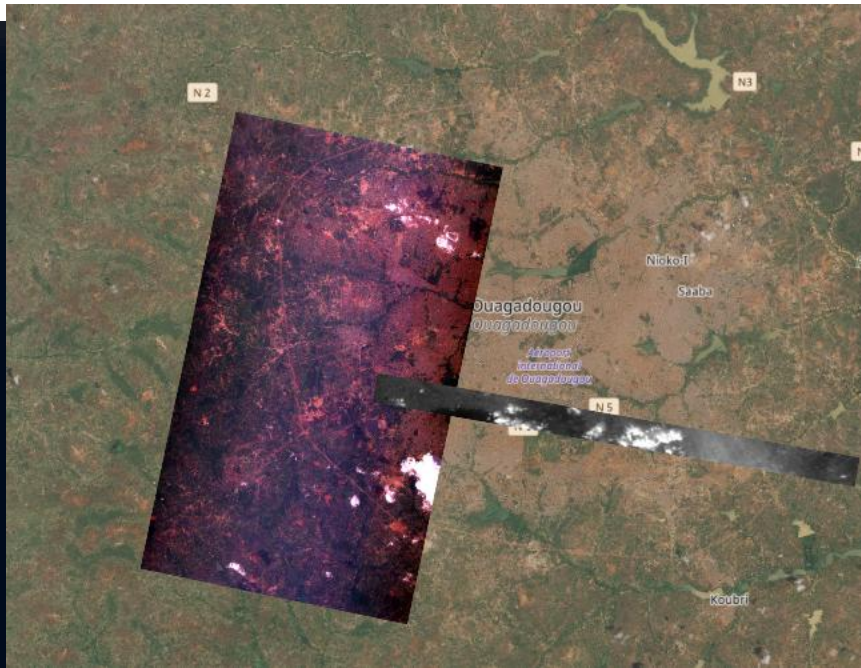
Dynamic Targeting Demonstration



Live Maritime Intelligence



JPL



UBOTICA™
SPACE:AI

Movidius | Ubotica | LEON

- LEON has been a core part of Movidius...
 - Myriad 1, Myriad 2 and Myriad X VPUs
- ... and Ubotica
 - AI co-processing board & solution
 - 11 AI-enabled missions flown
 - >100,000 inferences in orbit



Movidius | Ubotica | LEON



Congratulations to Gaisler on
25 years in Space!