

The logo features the word "aiKO" in a bold, white, sans-serif font. The lowercase "ai" is followed by the uppercase "KO". The letters are surrounded by five decorative elements: a yellow solid dot above the "i", a cyan hollow circle to the left of the "a", a cyan hollow circle below the "i", a cyan hollow circle above the "O", and a blue hollow circle to the right of the "O". Dashed white lines connect these elements in a network pattern.

aiKO

AIKO Deck

15 April 2022

www.aikospace.com |   

The Company

AIKO is a deep-tech company with the mission of **optimizing** and **reducing costs** of the space missions.

We specialize in **AI** software for upstream space applications.

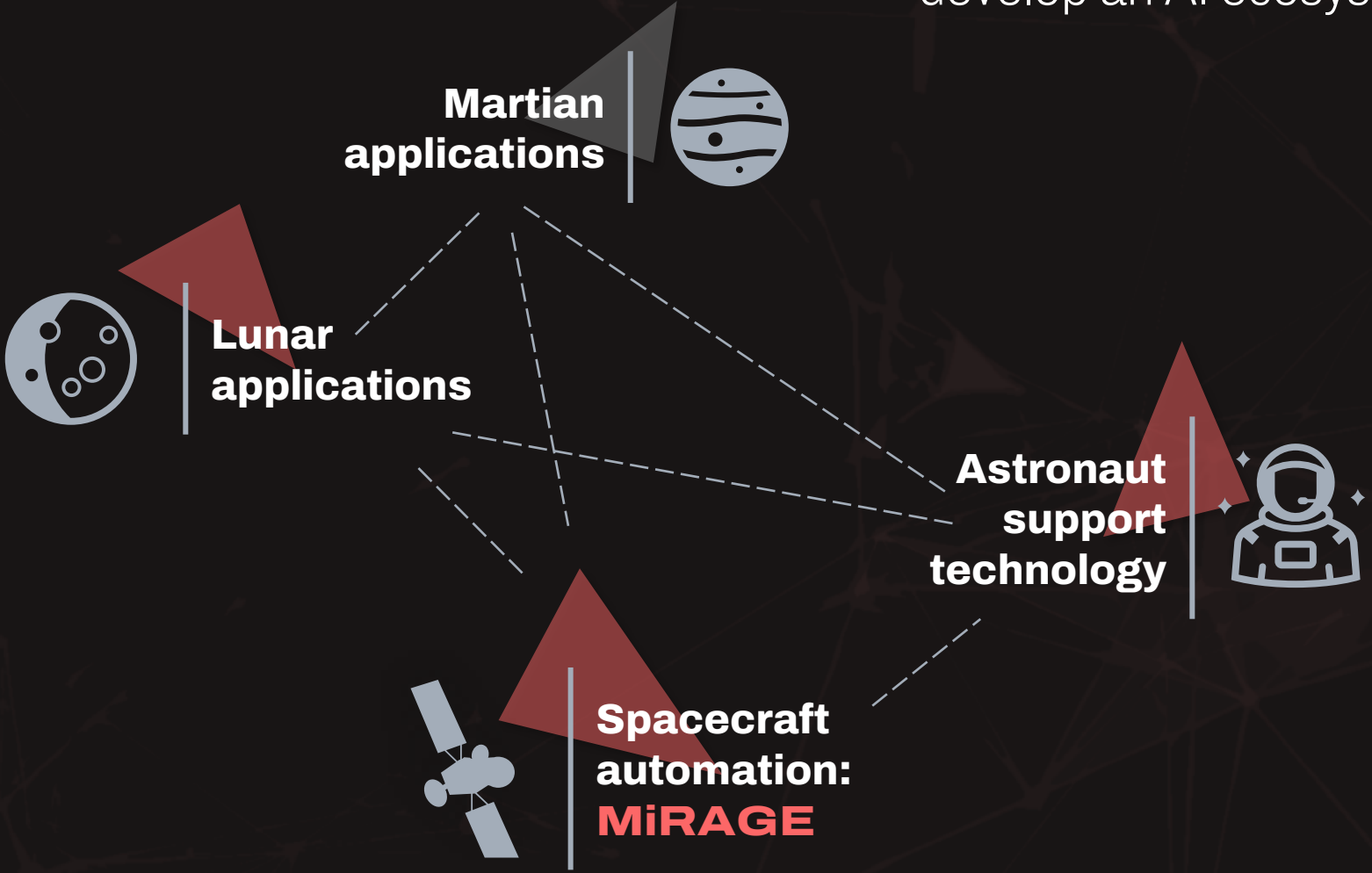
Our Deep Learning algorithms are flight proven; **TRL9**.

We raised over **€5M** between equity, grants and contracts.

28 employees, 35 by end of 2022.

Our Vision

develop an AI ecosystem for space autonomy



Future application in other relevant sectors: drones, stratospheric platforms, robotics



Business Lines

Earth Observation

Improving EO satellites capabilities

Telecom and Constellation

New technologies for constellations

Ground Operations

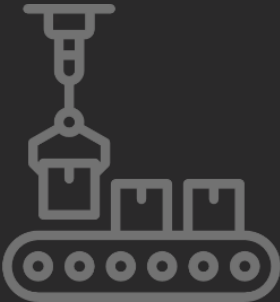
Operator support and autonomous control

Visual Navigation

Navigation tech for in-orbit servicing and deep space

Use Cases

Production



AI-based visual inspection

AIT / AIV



AI-based analysis of test data
Anomaly detection during test campaigns

Operations



Payload / Telemetry analysis
Scheduling and planning
Constellation management
Support to ground operators

Service



Traffic management for service optimization

Ecosystem Now



MiRAGE

automation software for satellite missions
on-board software,
TRL6



Clarity

deep-learning cloud detection and data optimization
on-board software,
TRL9



OptimalRouting

routing algorithm for inter-satellite link optimization
on-board software,
TRL7



Continuity

telemetry anomaly detection for operations optimization
ground software for mission control centres,
TRL4



Ecosystem 2026



visual navigation
astronaut support
rover automation



spacecraft autonomy
autonomous orbit control



payload data processing
smart FDIR
data management



network
optimization



distributed planning
constellation autonomy
reconfiguration



recommendation system
operations planning
telemetry data analysis

Customers and Projects

 **DEEPLIM**
DeepLearning for EO inversion models

 **InCubed+**
MiRAGE development for EO missions.

 **MSMO**
On-board automation for multi-payload coordination


 **AI-EXPRESS**
Automation of EO satellite operations


 **SDG**
Automation software for Telecomm Constellation


 **ATRIA**
Telecommunication payload automation


EO and Telecom missions

Prime role in five contracts with ESA/ASI with AIKO as prime.
Clear leading role for Artificial Intelligence and automation provision.

 **AIVIONICS**
Deep Learning for visual navigation

 **ATENA**
Deep Learning for asteroid navigation

 **DEEPNAV**
DeepLearning for deep-space navigation

 **LUNAR AI**
Ai for Lunar outpost and human support

Visual navigation and Deep Space

 **S MO**
Deep Learning for spacecraft telemetry analysis

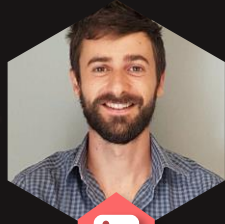
 **DL 4 SPACE**
DL technologies for space OPS and AIT

 **AGILE 4.0**
AI-based optimization for design

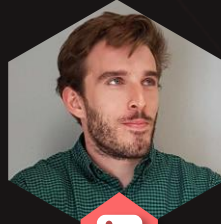
Ground operations

The Team

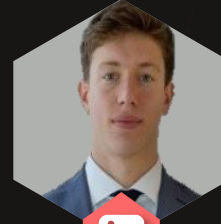
from vision to execution, AIKO is led by world-class young professionals delivering excellence and competitiveness.
AIKO counts 25 FTE members as of January 2022



**Lorenzo
Feruglio, PhD** | CEO



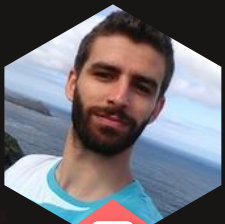
**Alessandro
Benetton** | CTO



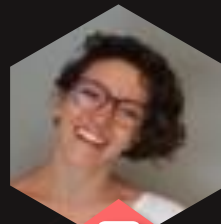
**Davide
Vittori** | COO



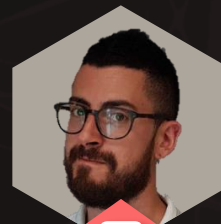
**Mattia
Varile** | CIO



**Riccardo
Maderna, PhD** | Head of
Automation



**Ilaria
Bloise** | Head of
Deep Learning



**Christian
Cardenio** | Head of
Software



**Sergio
De Florio, PhD** | Head of Autonomous
Space Operations

AIKO

Autonomous Space Missions

www.aikospace.com

