



Enabling a  
Sustainable Use  
of Space

# INTRODUCTION LMO



# LMO OVERVIEW



## SHAREHOLDINGS

Investment Fund (26%)



Private Shareholders (74%)



LMO Sarl  
Luxemboug



LIFT ME OFF LTD  
(100% Owned LMO Sarl)

## BOARD



Yannick Vancoppenolle  
LMO Board Member



Louis de Schorlemer  
LMO Board Member



Yves Elsen  
Chairman



Michel Poucet  
LMO Board Member  
CEO



Marcos Perez  
LMO Board Member  
CTO

**FOUNDED MARCH 2020**

€ 1,500,000 PRIVATE FINANCE RAISED UNTIL DATE  
24 FTE  
3 BUSINESS UNITS

## PROPULSION



## IOS



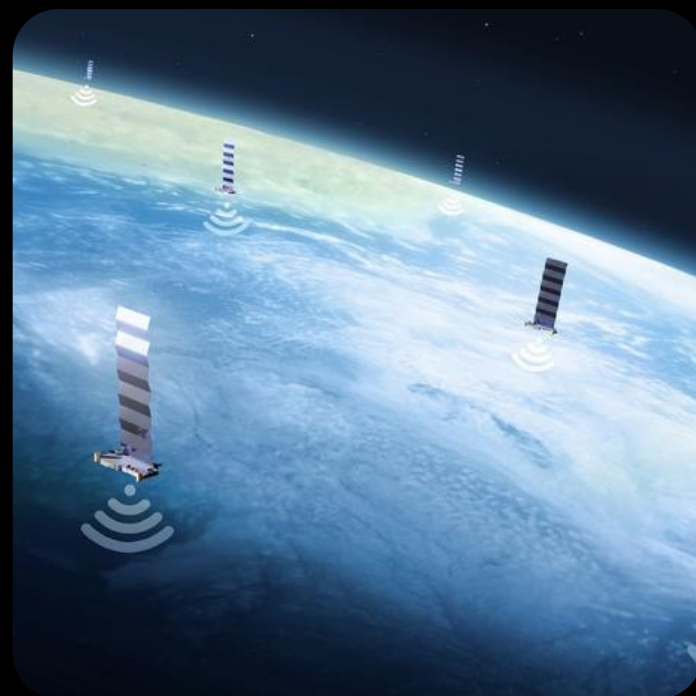
## SSA





# TRENDS - SPACE A GROWING MARKET & DOMAIN

MORE USE OF SPACE  
COMMERCIAL SERVICES



**TODAY**

\$630 BILLION  
9,000 SATELLITES

**2030**

\$1.1 TRILLION (CAGR 11%)  
>60,000 SATELLITES

CRITICAL NATIONAL  
INFRASTRUCTURE



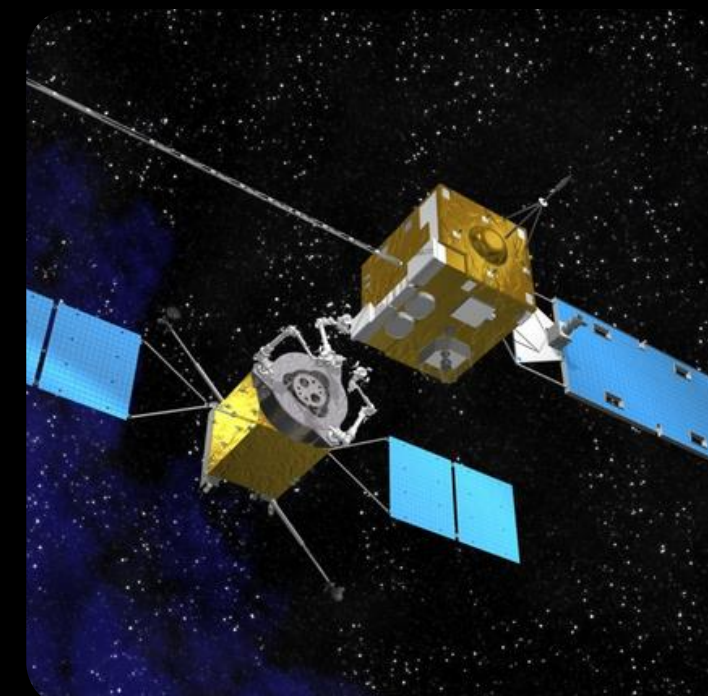
**TODAY**

KEY DOMAIN  
LAND, SEA, AIR, CYBER, **SPACE**

**2030**

DEFENCE SPENDING WILL BE  
2X,3X IN EUROPE TO REACH  
NATO TARGETS

NEW IN SPACE  
ECONOMY



**TODAY**

SATELLITES ARE SINGLE-USE  
NON-SUSTAINABLE

**2030**

SATELLITES WILL BE  
ASSEMBLED, REPAIRED AND  
RECYCLES IN SPACE

# PROBLEM

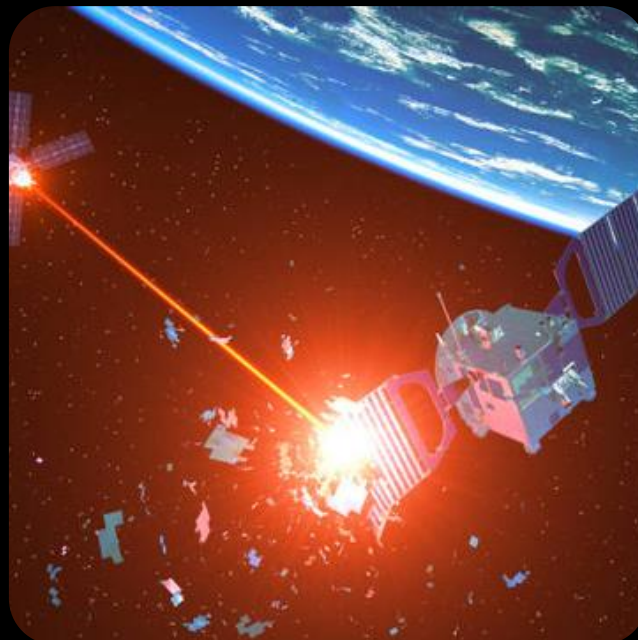
TODAY **>\$100 BILLION** OF SPACE INFRASTRUCTURE IS AT RISK DUE TO THE FACT THAT EVERYTHING WE LAUNCH INTO SPACE **HAS NO CAPABILITY TO REACT** TO THE ENVIRONMENT AROUND IT.

AS SPACE GETS MORE **CONGESTED, CONTESTED & COMPLEX** THAT RISK HAS BECOME **UNACCEPTABLE**.

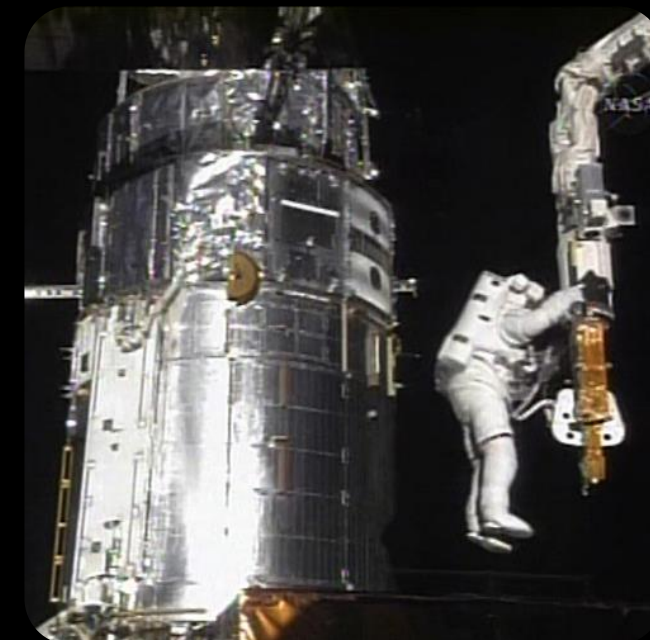
CONGESTED  
>6000s SATELLITES  
& DEBRIS IN SIMILAR ORBITS



CONTESTED  
MILITARY ASSETS ARE  
REGULARLY INTERFERED



COMPLEX  
REPAIRS IN SPACE ARE  
DONE BY FEW ASTRONAUTS





# SOLUTION



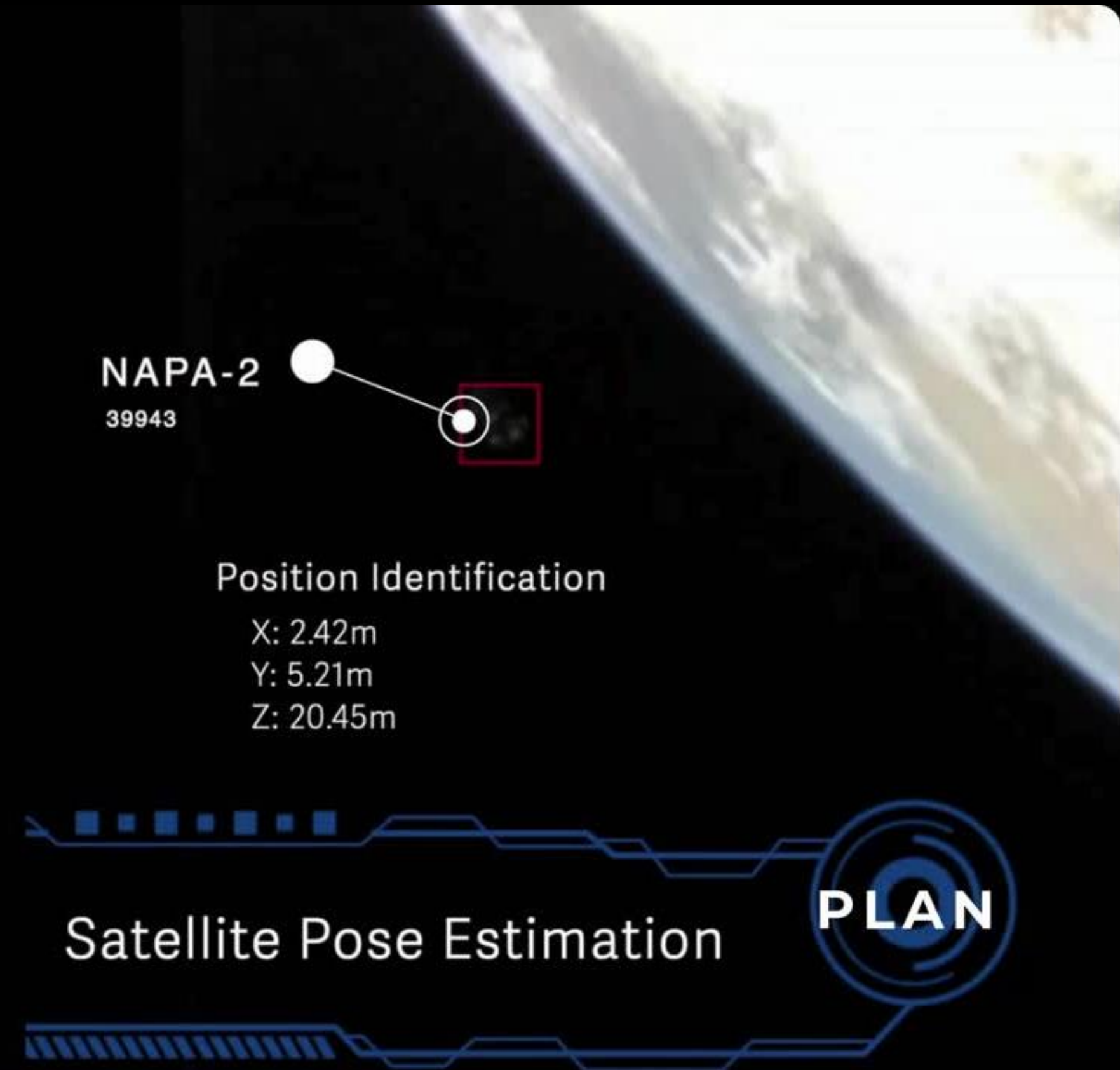
**LMO** PROVIDES CAPABILITIES  
FOR SATELLITES TO AUTONOMOUSLY:

**SEE, PLAN & ACT**  
IN SPACE

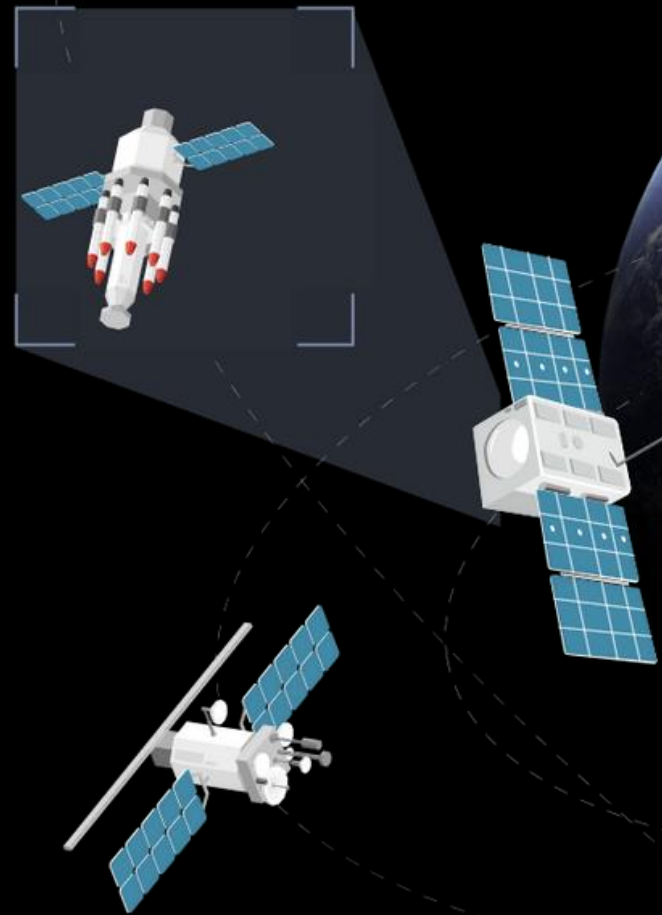
ALLOWING US TO  
**PROTECT, DEFEND & FIX**  
CRITICAL SPACE INFRASTRUCTURE

TACKLING SPACE  
**CONGESTION & FOREIGN INTERFERENCE**

ENABLING A SUSTAINABLE USE OF SPACE  
AND OPENING A **NEW IN-SPACE ECONOMY**



# OUR 3 PRODUCTLINES



## SEE



### SPACE SITUATIONAL AWARENESS

SPACE BASED SENSING USING AI WHICH  
RUN REAL-TIME IN SPACE PROVIDING  
ANALYTICS OF OTHER SPACE OBJECTS FROM  
SPACE

## PLAN



### IN-ORBIT SERVICING

SPACE BASED NAVIGATION USING AI TO  
ALLOW AUTONOMOUS NAVIGATION,  
DOCKING  
AND OPERATIONS

## ACT



### PROPULSION

AGILE PROPULSION SYSTEMS &  
COMPONENTS  
TO ALLOW SATELLITES TO REACT QUICKLY  
AND DECOMMISSION AT END OF LIFE



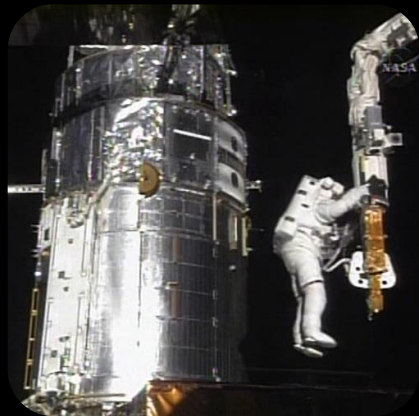
# VALUE PROPOSITION



## TODAY W/O LMO



OUR MILITARY ASSETS ARE SITTING DUCKS AND REGULARLY INTERFERED WHILE WE CAN ONLY MONITOR WHAT HAPPENED FROM GROUND

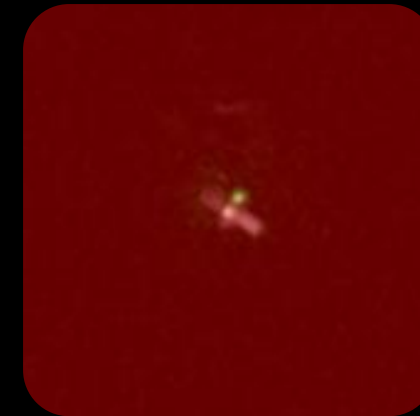


OUR SATELLITES ARE SINGLE USE AS THEY CANNOT BE REPAIRED MEANING WE LOSE \$10 BILLION OF I/F A YEAR

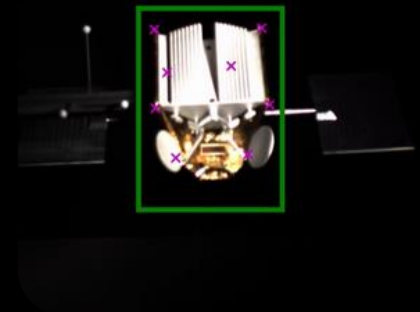


RISK OF COLLISIONS AS SATELLITES ARE LEFT IN SPACE WITH LITTLE ROOM FOR MANEUVER

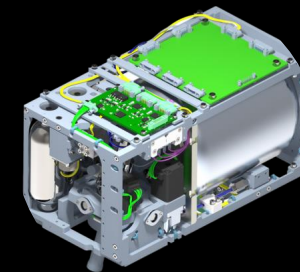
## FUTURE WITH LMO



USE AI TO IDENTIFY & TRACK ALL ITEMS IN REAL-TIME FROM SPACE  
AUTOMATE COLLISION AVOIDANCE



AUTONOMOUS SYSTEM TO KEEP AN EYE & REACT TO OPPONENT TO PROTECT & DEFEND OUR ASSETS



AGILE PROPULSION SYSTEMS TO AVOID COLLISIONS & DE-ORBIT ACTIVELY & QUICKLY

# OUR UNIQUE AI IP

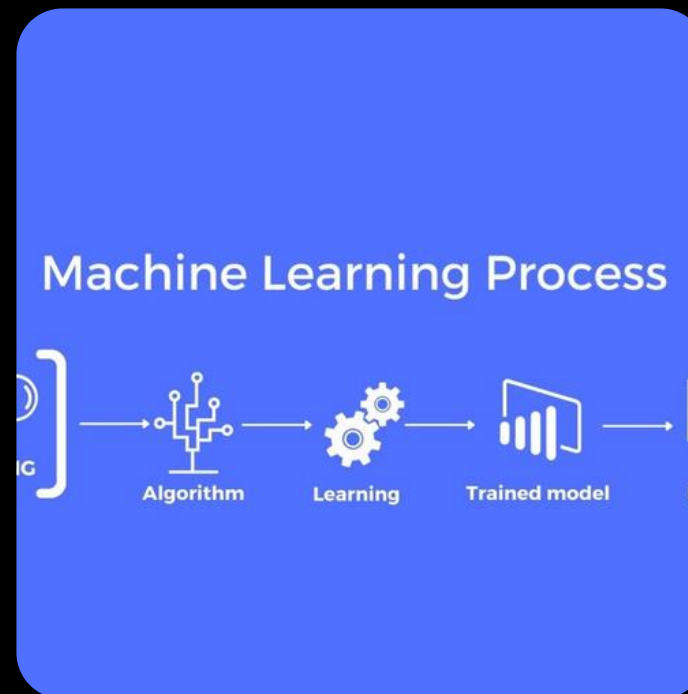
SYNTHETIC DATA &  
ENVIRONMENT  
SIMULATOR



FULL MODELLING OF  
SCENARIOS & SENSORS

BRIDGES THE DOMAIN GAP  
BETWEEN EARTH & SPACE

MACHINE LEARNING PIPELINE  
PROCESS



AUTOMATED ML MODEL  
DEVELOPMENT & TRAINING

ADAPT MODELS TO VARIOUS  
APPLICATIONS & SENSORS

ON-EDGE COMPATIBILITY WITH  
SPACE HARDWARE VIA  
DEDICATED EMBEDDING PIPELINE



ENABLES MAXIMAL PERFORMANCE  
ON-EDGE IN SPACE

DEMONSTRATED ON-GROUND & IN-  
SPACE



# LUXEMBOURG HEADQUARTERS



## TEAM & COLLABORATIONS

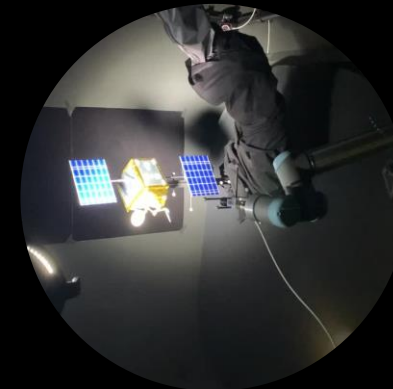
TEAM OF 16 EXPERTS  
IN CIVIL & DEFENCE



COLLABORATION WITH  
LUX ECOSYSTEM

## GROUND & SPACE DEMONSTRATIONS

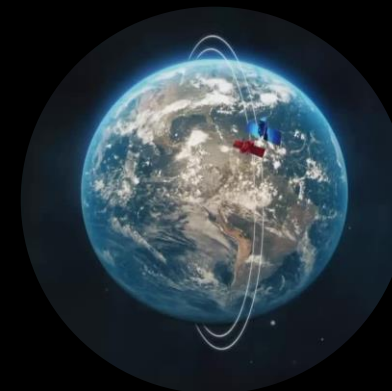
SNT



ESTEC



SPACE



## VALIDATION & ENGAGEMENT

2 CIVIL MISSIONS



4 ACTIVE DEFENCE PROGRAMMES



**DEFENSIE  
LA DÉFENSE**



ENGAGEMENT WITH 6 MODS

# UK SUBSIDIARY

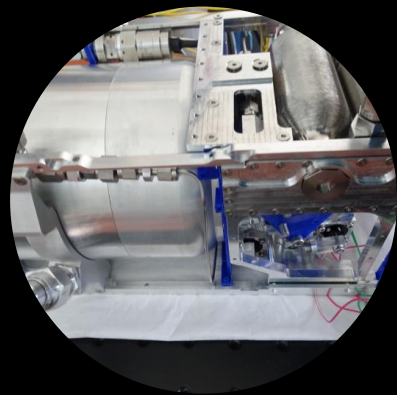


## TEAM & TECHNOLOGY

TEAM OF  
8 EXPERTS



3 RECURRING  
PRODUCTLINES



STATE OF THE  
ART FACILITIES



## RECOGNITION & OPPORTUNITIES

KNOWN UK SPACE SUBSIDIARY



ACCESS TO  
UK CIVIL & DEFENCE OPPORTUNITIES



DRAKE SSA  
MISSION



RISE IOS  
MISSION

## FLIGHT HERITAGE

5 MISSIONS





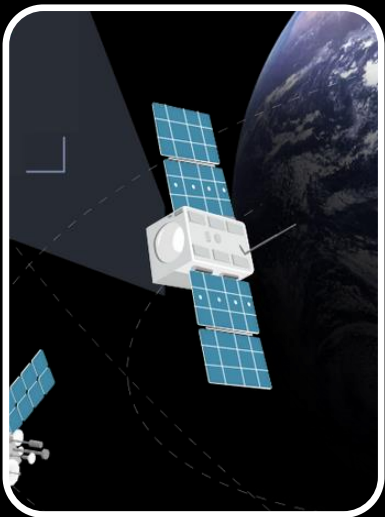
# BUSINESS MODEL - B2B2C/G

## 3 PRODUCTLINES



**SEE  
SSA**

BODYGUARD  
SATELLITE



€50-100  
MILLION  
MISSION

SSA/IOS  
PAYLOAD



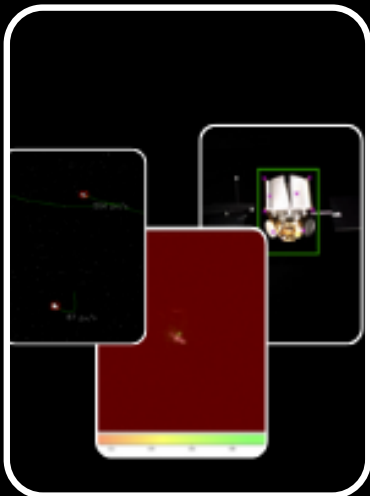
€3-5  
MILLION  
UNIT

**PLAN  
IOS**

SSA/IOS DATASOFTWARE, LICENSING  
& TRAINING



€2-3  
MILLION  
UNIT



€0.5 - 1  
MILLION  
YEAR/UNIT

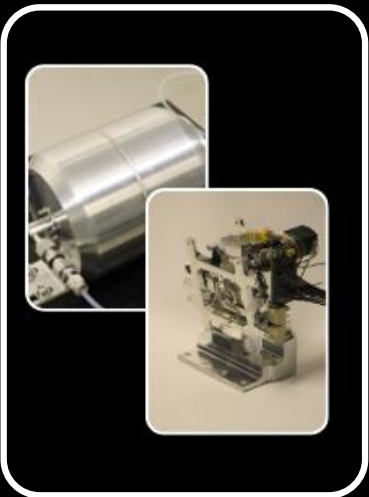
**ACT  
PROPULSION**

PROPULSION  
SYSTEMS



€0.5 - 2.5  
MILLION  
UNIT

PROPULSION  
COMPONENTS



€0.1 - 0.5  
MILLION  
UNIT

€300 MILLION / YEAR  
SALES POTENTIAL

€50 MILLION / YEAR  
SALES POTENTIAL

# LMO WORKING CIVIL & DEFENCE



## 5 MISSIONS PROPULSION



2 CIVIL MISSIONS IOS/SSA  
1 TO SPACE  
1 IN EARLY DEVELOPMENT  
2 COLLABORATION FOR FUTURE MISSIONS



5 DEFENCE PROGRAMMES  
WITH FRANCE, ITALY, BELGIUM, UK, &  
LUXEMBOURG & US





# SOLID BACKLOG FOR COMING YEARS

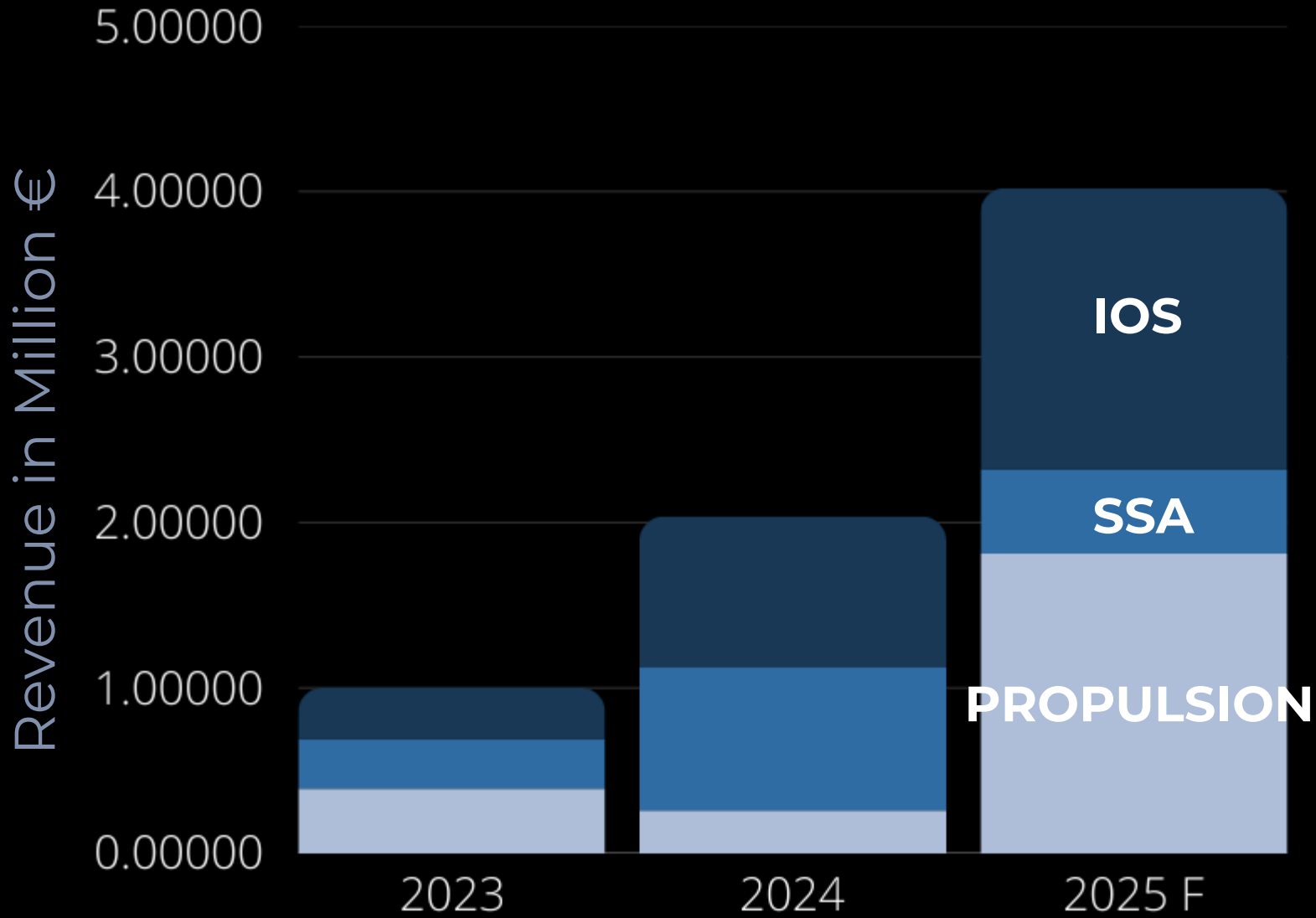


	EXISTING CONTRACTS	Q1 25 CONTRACTS IN FINAL NEGOTIATIONS	COMMITTED PROGRAMME BUDGETS TO LMO
	SSA € 1,392,000	SSA € 0	SSA € 2,300,000
	IOS € 2,713,000	IOS € 236,000	IOS € 4,800,000
	PROPULSION € 773,000	PROPULSION €1,401,000	PROPULSION €887,000
TOTAL	€ 4,878,000	€ 1,637,000	€ 8,187,000

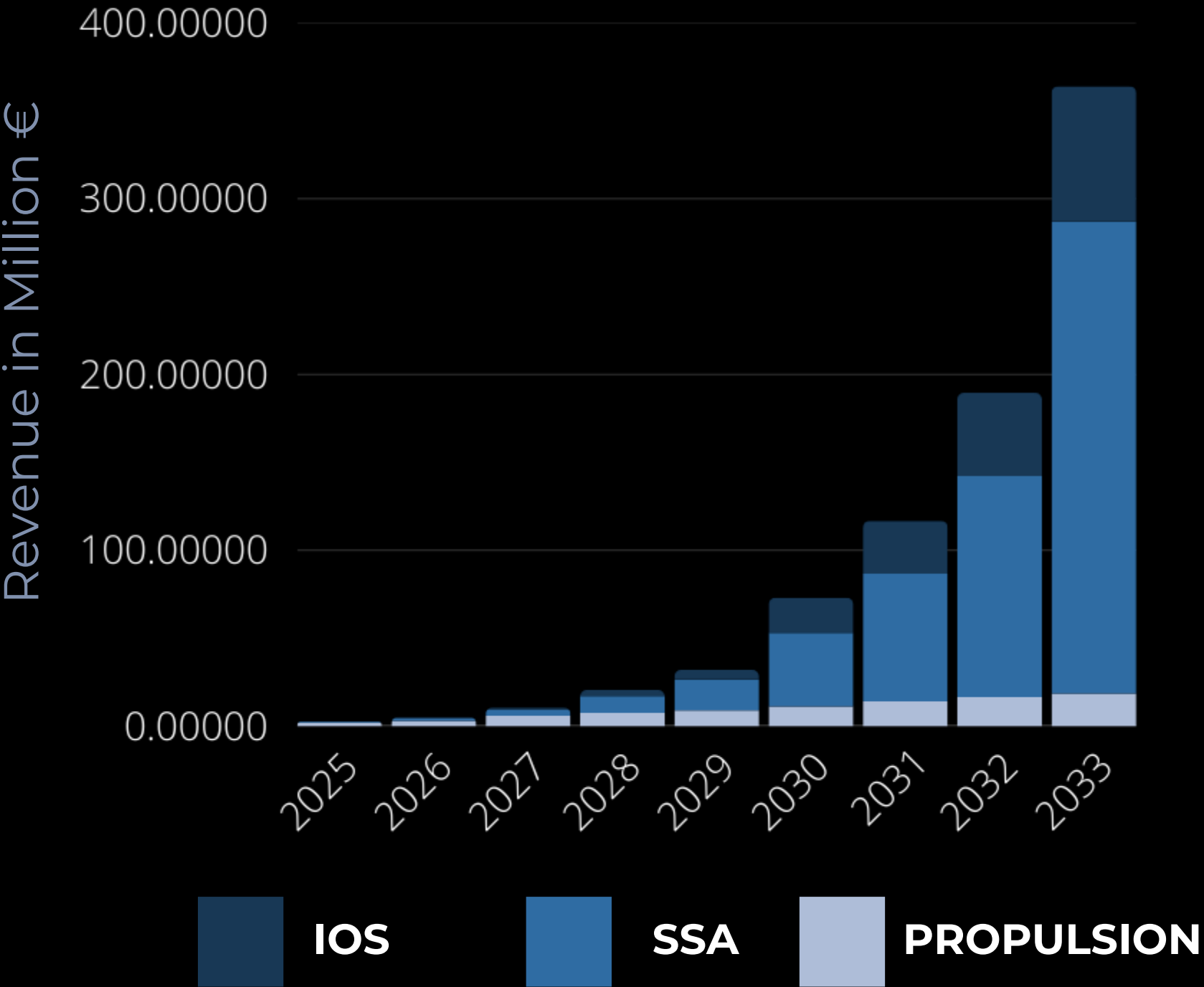
REVENUES



BASED ON ACTUALS /  
CURRENT CONTRACTS



FINANCIAL  
PLAN





# KEY TEAM MEMBERS



MICHEL POUCET\*

CEO

12 YEAR SPACE ENGINEERING  
& MANAGEMENT ROLES  
IN PROPULSION, SSA & IOS



MARCOS PEREZ

CTO

12 YEAR SPACE ENGINEERING  
IN AOCS, PROPULSION  
OPTICAL SENSOR, IOS & SSA

\*NATIONAL, NATO AND/OR EU SECURITY  
CLEARANCE



DAVID REGAD - FRENCH

ENGINEERING MANAGER  
10 YEARS SPACE SYSTEM EXPERIENCE  
ON ELECTRONICS, ROBOTICS & IOS



ADAM STAINCLIFFE - BRITISH\*

SDA DELIVERY LEAD  
15 YEAR ROYAL AIR FORCE  
UK SPACE COMMAND SDA CAPABILITY DELIVERY



ODYSSEAS ARAPELLIS - GREEK\*

TECHNICAL LEAD DEFENCE  
INTELLIGENCE OFFICER GREEK MILITARY  
AI, EO & SITUATIONAL AWARENESS BACKGROUND  
FOR DRONES & SPACE



EUGENIO DAMBRAUSKAS - ARGENTINIAN

SENIOR PROPULSION ENGINEER  
12 YEARS PROPULSION & CONTROL  
SYSTEM EXPERIENCE

# COMPETITION

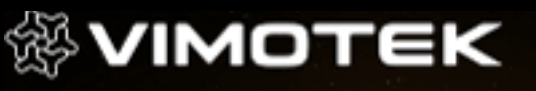
HARDWARE  
COMPANIES  
LACK THE SOFTWARE  
ELEMENT



EU MARKET  
PRESENCE



AUTONOMY



US BASED  
COMPETITORS  
STRUGGLE ENTER EU  
WHILE LMO HAS  
ENTRY IN US

\*WORK WITH LMO

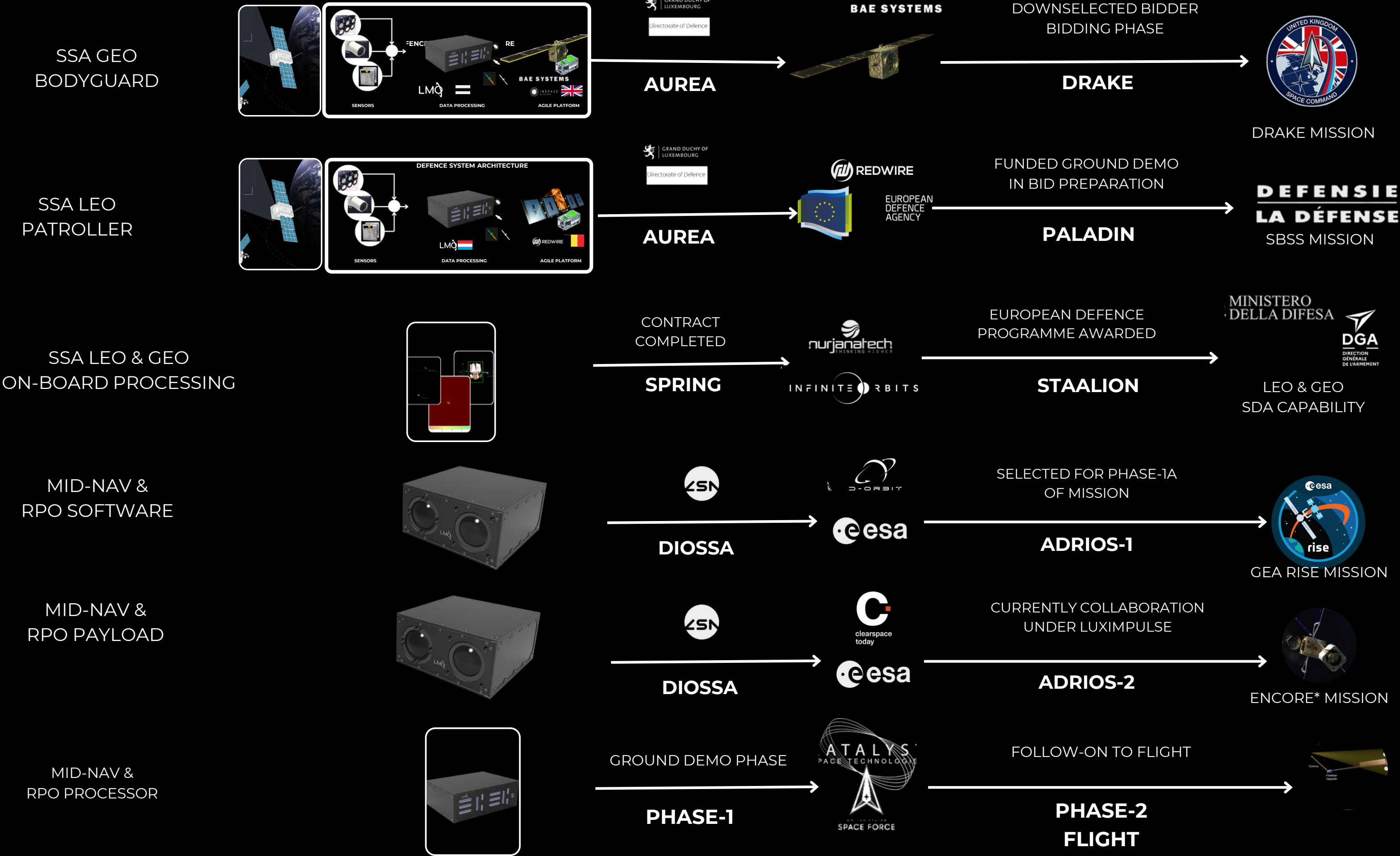
UNIQUE POSITION ON 4 DEFENCE & 2 CIVIL OPPORTUNITIES IN EU, UK & US



PRODUCT

ROADMAP

END-USER





# ROADMAP

BY RAISING **€25 MILLION** WE WILL BRING  
THE TECHNOLOGY TO MARKET AND EXPECT  
TO WIN **CIVIL & DEFENCE**



**PRIVATE**  
**DILUTIVE**

€ 5,000,000 VC\*  
24 Month Runway

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\*LMO is in discussion with  
SNCI in Luxembourg and for any investor which is EIF  
backed LMO could get matched investment from  
Luxembourg SNCI LFF-2 fund.

## Goals

### **1. Scale Team & Strengthen C-Suite**

40 Employees

### **2. Increase BD Towards UK, Be, Fr, Lux & IT Stakeholders for Defence**

Offices in Belgium (Collab Redwire) / UK (Existing)

Consultants/Partners in Italy & France

### **3. Further Demonstrate Capability on Ground and Rideshares**

Reach TRL-6 with IOS Payload

Have working SDA Payloads

Payload Demonstration with BAE / Redwire / Aerospacelab

### **4. Get contracts through EDA and DRAKE (UK MOD) for further steps with Government**

6 MEuro Be/Lux MOD to prepare Capability

Drake Contract by 2026

### **5. Continue Contracts/Revenue with Civil Customers**

Clearspace / D-Orbit for ADRIOS

Propulsion Scaling

### **6. Prepare next Round (15-20,000,000 Euro) with SNCI & Others for AUREA**

Belgium Federal Investment FunD (SFPIM)

Lux Investment Fund (SNCI)

Nato Innovation Fund

Private VC

IN 5 YEARS



# THE DUAL-USE ON-EDGE AI COMPANY FOR SSA & IOS

## IN-ORBIT SERVICING (IOS)

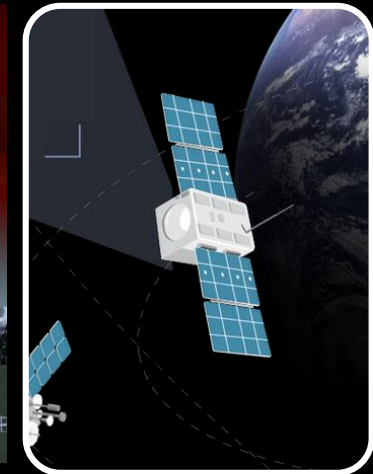
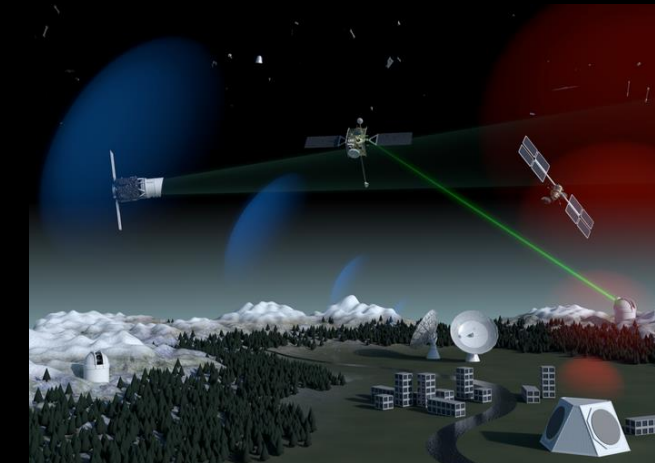


HAVE HERITAGE THANKS TO BOTH  
ESA ADRIOS MISSIONS IN SPACE

#1 EU PROVIDER FOR AUTONOMOUS NAVIGATION  
PAYLOADS FOR VARIOUS IN-ORBIT SERVICES FROM  
LIFE EXTENSION TO REFUELLING

INCORPORATE MORE SENSORS & SELF-LEARNING  
ALLOWING FOR MORE COMPLEX MISSIONS &  
RENDEZVOUS OF UNKNOWN OBJECTS.

## SPACE SITUATIONAL AWARENESS SPACE CONTROL (SSA)



HAVE HERITAGE THANKS  
TO BELGIAN & UK DEFENCE MISSIONS IN SPACE

#1 NATO PARTNER FOR AUTONOMOUS PROTECT &  
DEFEND CAPABILITIES FROM SPACE THANKS TO  
PARTNERSHIPS IN ITALY, FRANCE, GERMANY, US, UK

EXPAND CURRENT CAPABILITIES WITH ELECTRONIC  
WARFARE & RADIO FREQUENCY SYSTEMS

OFFER END-TO-END DEFENCE SOLUTIONS  
FROM SENSOR TO OPERATIONS





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Sustainable Use  
of Space

Let us keep in touch

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