
HOUSEKEEPING
CONSTELLATION
Space Cluster Collaboration from
Oxford to Cambridge and beyond.
UK SPACE AGENCY
HARWELL SPACE
SPACE EAST
Westcott Space Cluster
The Welding Institute
TWI

Stuart Catchpole
Regional Director
Space East

CONSTELLATION

Space Cluster Collaboration from
Oxford to Cambridge and beyond.

UK SPACE AGENCY
HARWELL SPACE
SPACE EAST
Westcott Space Cluster
The Welding Institute | TWI

AGENDA:

- Welcome Intros: Malcom Lee & Stuart Catchpole
- Cambridgeshire Capabilities: Paul Gibbons
- Space, Research & Industry: Prof Nikku Madhusudhan
- Case studies & insights: Richard Jacklin
- Supersharp Space Systems: Elizabeth Seward
- Quick Pitches & Networking: Matt Bagley
- Networking Lunch
- Panel: Accelerating Collaboration across the Ox-Cam Corridor
- TWI Capabilities & ESA Technology Broker: Dr Abassi Gandhi
- Closing Remarks - Harwell event
- Guided Tours & Networking

CONSTELLATION

Space Cluster Collaboration from
Oxford to Cambridge and beyond.

UK SPACE AGENCY · HARWELL SPACE · SPACE EAST · Westcott Space Cluster · The Welding Institute | TWI

Malcolm Lee
Director of Technology
TWI

CONSTELLATION

Space Cluster Collaboration from
Oxford to Cambridge and beyond.

UK SPACE AGENCY
HARWELL SPACE
SPACE EAST
Westcott Space Cluster
The Welding Institute | TWI

Welcome to TWI!

Technology

Independent Technical Authority

Trusted by 550+ industrial members globally

Applied through 2,000+ real projects every year

Impartial, independent advice delivered by globally recognised experts

TWI

- **Joining & Advanced Manufacturing**
- **Materials & Coatings**
- **Inspection & Structural Integrity**
- **Testing, Qualification & Validation**

Training

Global Competence & Assurance

15,000+ professionals qualified annually

Recognised by CSWIP, PCN, IIW/EWF, ASNT, IOSH, NEBOSH

Trusted by regulators, clients and asset owners

The Welding Institute

Certification

Shaping the Profession. Setting the Standard.

4,000+ professional engineers worldwide

Licensed by the Engineering Council (UK)

Driving standards, professionalism and career development

TWI CERT

Stuart Catchpole
Regional Director
Space East

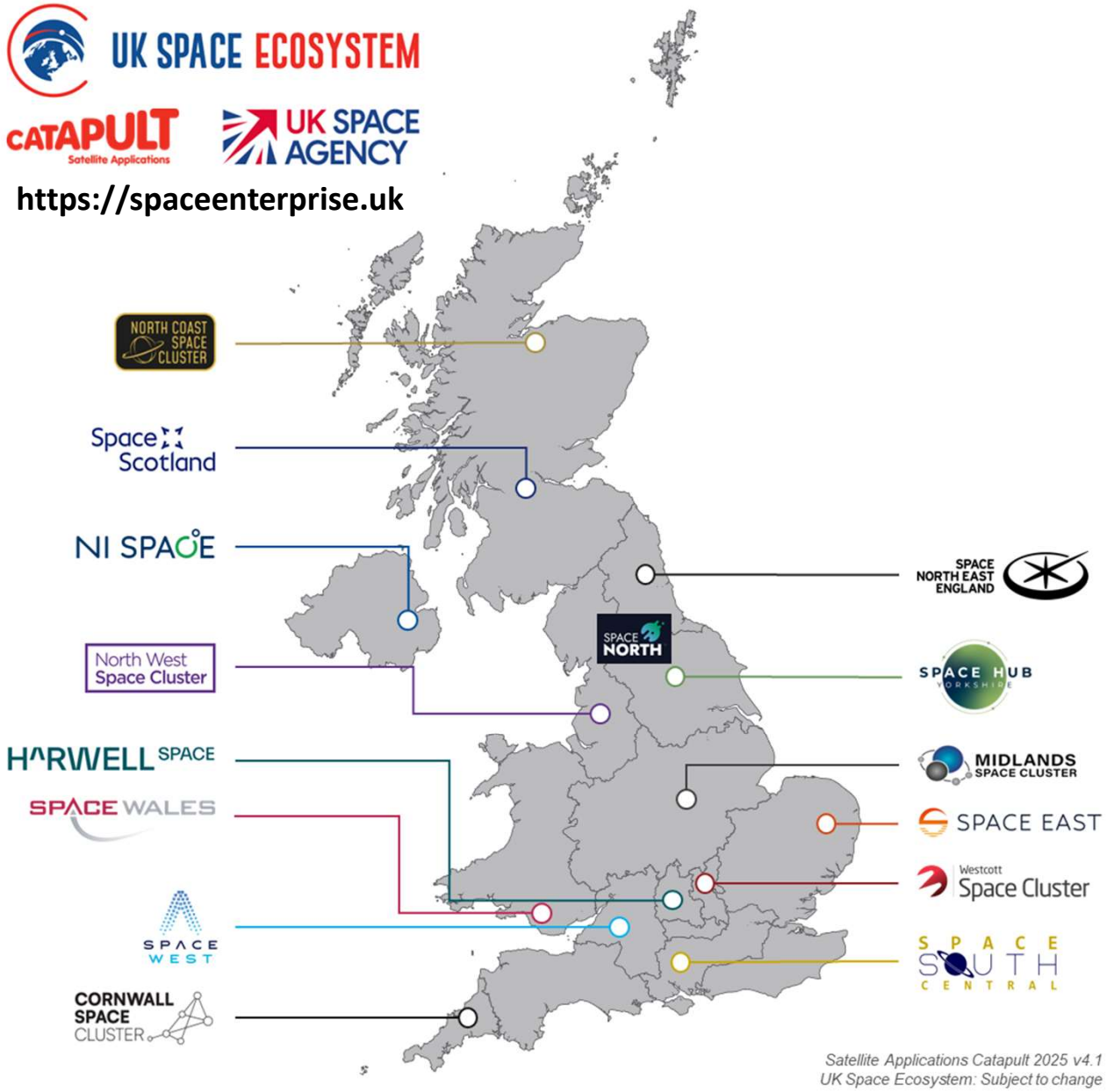
CONSTELLATION

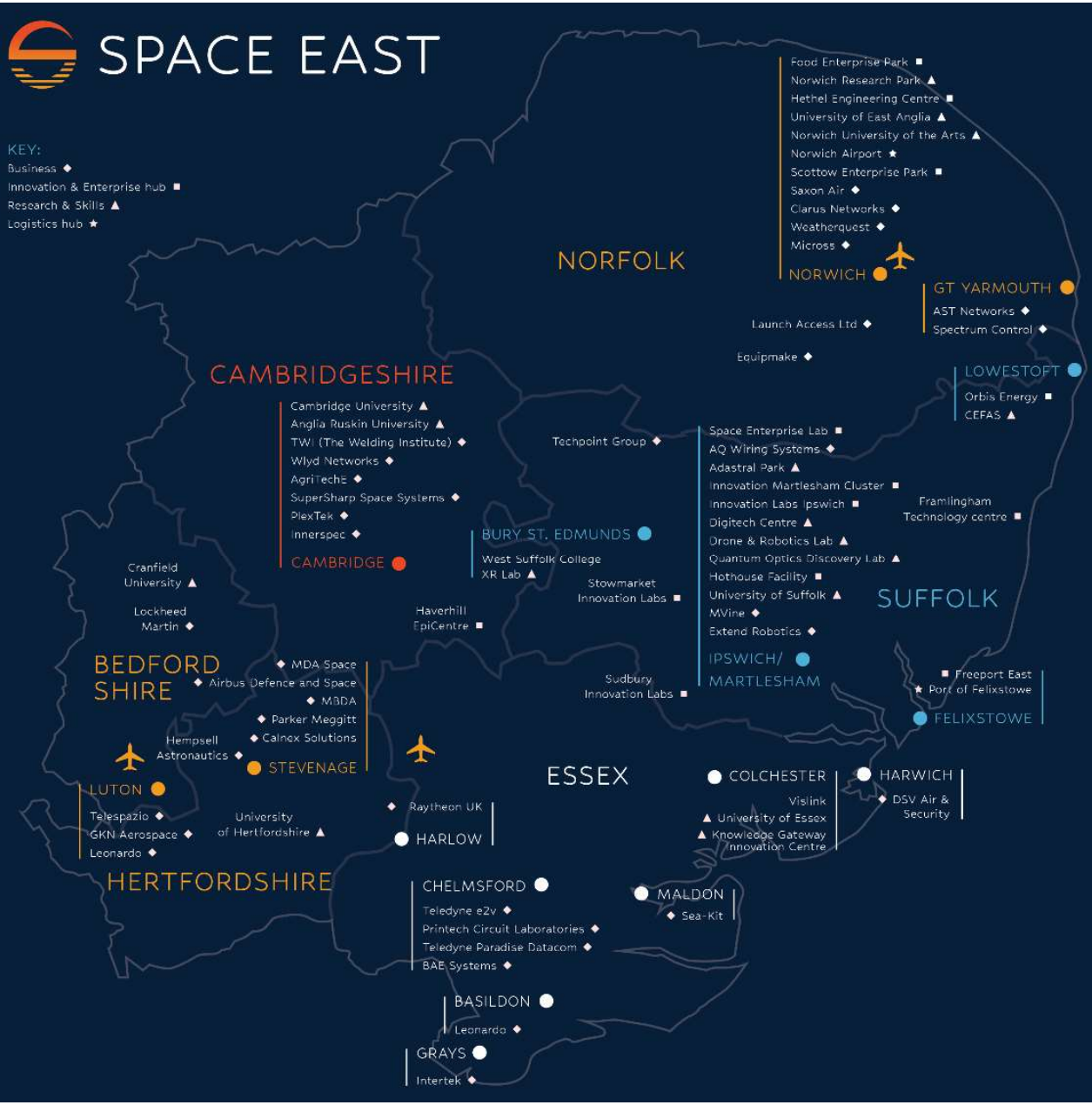
Space Cluster Collaboration from
Oxford to Cambridge and beyond.

UK SPACE AGENCY
HARWELL SPACE
SPACE EAST
Westcott Space Cluster
The Welding Institute | TWI


HM Government
National Space Strategy


THE UK'S MODERN
INDUSTRIAL
STRATEGY
GREAT
BRITAIN & NORTHERN IRELAND
Ministry of Defence
Strategic Defence Review
Making Britain Safer: secure at home, strong abroad
2025


UK SPACE ECOSYSTEM
CATAPULT
Satellite Applications
UK SPACE AGENCY
https://spaceenterprise.uk
NORTH COAST SPACE CLUSTER
Space Scotland
NI SPACE
North West Space Cluster
HARWELL SPACE
SPACE WALES
SPACE WEST
CORNWALL SPACE CLUSTER
SPACE NORTH EAST ENGLAND
SPACE NORTH
SPACE HUB YORKSHIRE
MIDLANDS SPACE CLUSTER
SPACE EAST
Westcott Space Cluster
SPACE SOUTH CENTRAL
Satellite Applications Catapult 2025 v4.1
UK Space Ecosystem: Subject to change


SPACE EAST
KEY:
Business ◆
Innovation & Enterprise hub ■
Research & Skills ▲
Logistics hub ★
NORFOLK
Food Enterprise Park ■
Norwich Research Park ▲
Hethel Engineering Centre ■
University of East Anglia ▲
Norwich University of the Arts ▲
Norwich Airport ★
Scottow Enterprise Park ■
Saxon Air ◆
Clarus Networks ◆
Weatherquest ◆
Micross ◆
NORWICH
GT YARMOUTH
AST Networks ◆
Spectrum Control ◆
Launch Access Ltd ◆
Equipmake ◆
LOWESTOFT
Orbis Energy ■
CEFAS ▲
CAMBRIDGESHIRE
Cambridge University ▲
Anglia Ruskin University ▲
TWI (The Welding Institute) ◆
Wlyd Networks ◆
AgriTechE ◆
SuperSharp Space Systems ◆
PlexTek ◆
Innerspec ◆
CAMBRIDGE
Techpoint Group ◆
BURY ST. EDMUNDS
West Suffolk College
XR Lab ▲
Space Enterprise Lab ■
AQ Wiring Systems ◆
Adastral Park ▲
Innovation Martlesham Cluster ■
Innovation Labs Ipswich ■
Digitech Centre ▲
Drone & Robotics Lab ▲
Quantum Optics Discovery Lab ▲
Hothouse Facility ■
University of Suffolk ▲
MVine ◆
Extend Robotics ◆
Framlingham Technology centre ■
SUFFOLK
Cranfield University ▲
Lockheed Martin ◆
Haverhill EpiCentre ■
Stowmarket Innovation Labs ■
IPSWICH/ MARTLESHAM
Sudbury Innovation Labs ■
Freeport East
Port of Felixstowe ★
FELIXSTOWE
BEDFORD SHIRE
MDA Space
Airbus Defence and Space
MBDA
Parker Meggitt
Calnex Solutions
Hempsell Astronautics ◆
STEVENAGE
ESSEX
COLCHESTER
Vislink
University of Essex ▲
Knowledge Gateway Innovation Centre ▲
HARWICH
DSV Air & Security ◆
LUTON
Telespazio ◆
GKN Aerospace ◆
Leonardo ◆
University of Hertfordshire ▲
Raytheon UK ◆
HARLOW
HERTFORDSHIRE
CHELMSFORD
Teledyne e2v ◆
Printech Circuit Laboratories ◆
Teledyne Paradise Datacom ◆
BAE Systems ◆
MALDON
Sea-Kit ◆
BASILDON
Leonardo ◆
GRAYS
Intertek ◆

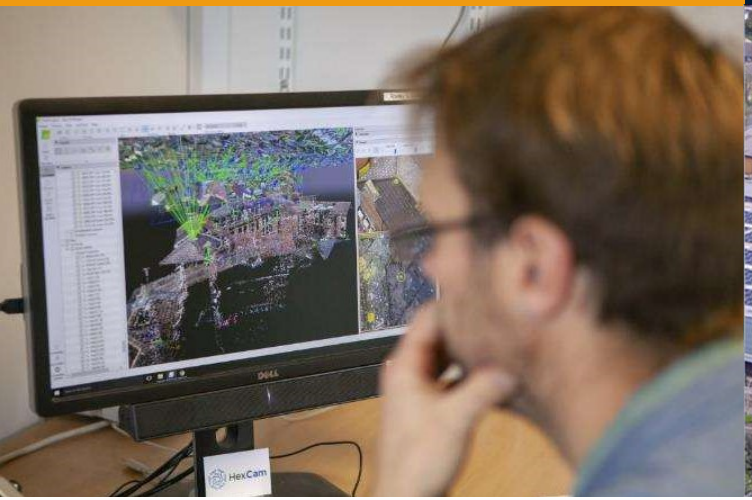
INTRODUCTIONS	**CLUSTER MEMBERS**	UNIQUE ENGAGEMENTS
500+	**370**	1300+
FUNDED PROJECTS	NETWORKING EVENTS	AGENCY MEETINGS
8 (£4m+)	110+	150+

TELEDYNE e2v

EQUIPMAKE

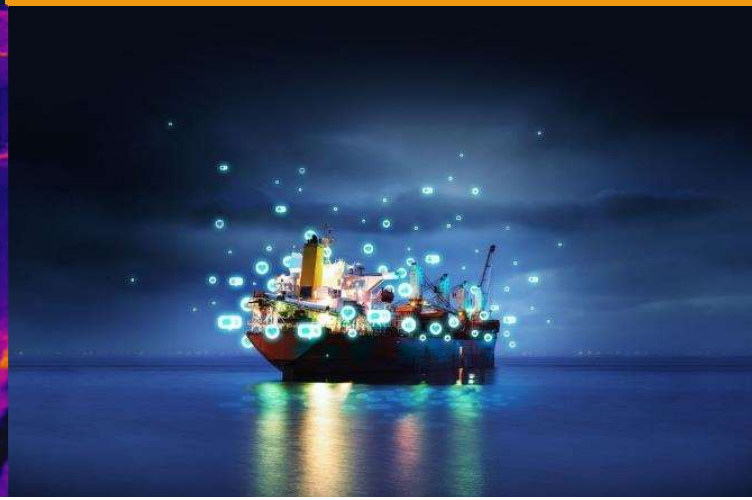
BT

STIRLING X

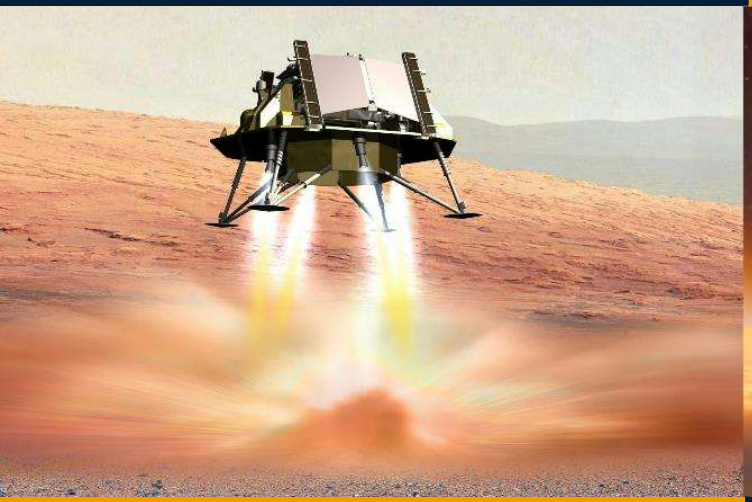


SUPERSHARP

AST NETWORKS



AIRBUS



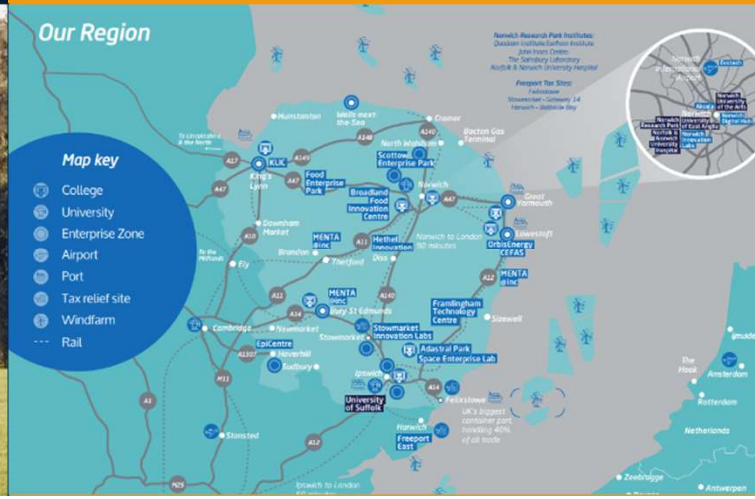
BAE SYSTEMS

CEFAS

PUBLIC SECTOR

UNIVERSITIES

CLUSTERS



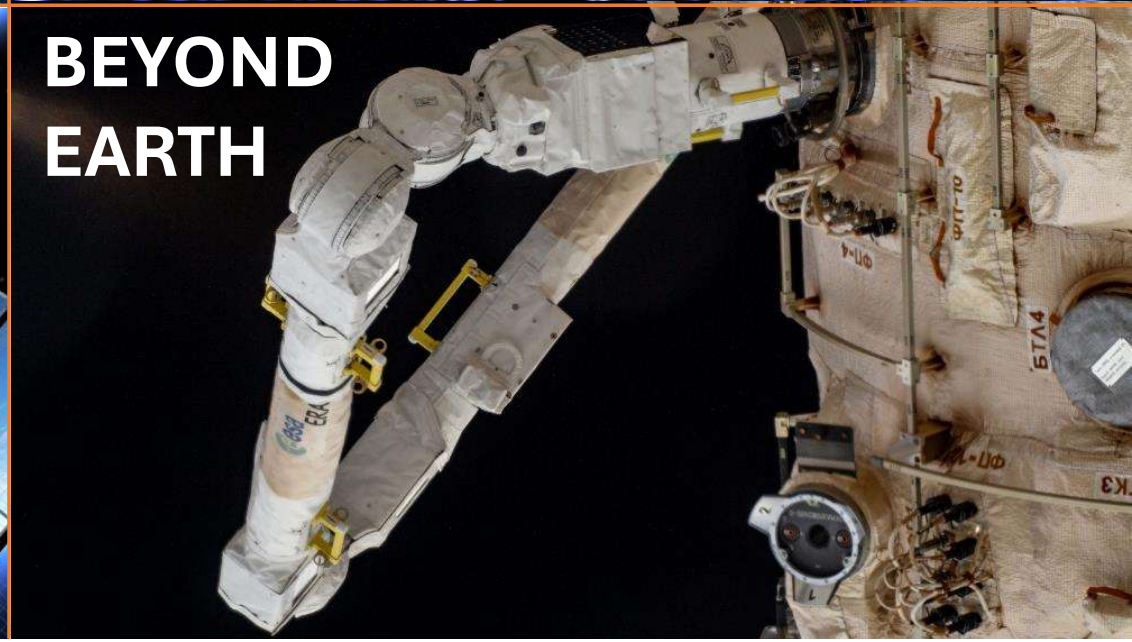

HARMFUL ALGAL BLOOMS
(HABs)
AND SEAWEED PRODUCTION:
CHALLENGES & OPPORTUNITIES
NI SPACE
SPACE EAST
SPACE WALES


SpaceScotland
SPACE EAST
SOUTH of SCOTLAND ENTERPRISE
UNLOCKING SPACE DERIVED DATA FOR OPPORTUNITIES ACROSS SCOTLAND & EAST ANGLIA


UK-EONS
Earth Observation Network
for Sustainability


ACE
UK Network for an
Autonomous and Connected Earth


CySpace
Connected Capability Network


BEYOND
EARTH

SPACE-ENABLED HEALTH REGION

UK SPACE AGENCY

CATAPULT Satellite Applications

NHS Norfolk and Norwich University Hospitals NHS Foundation Trust

OX-CAM CORRIDOR

HARWELL

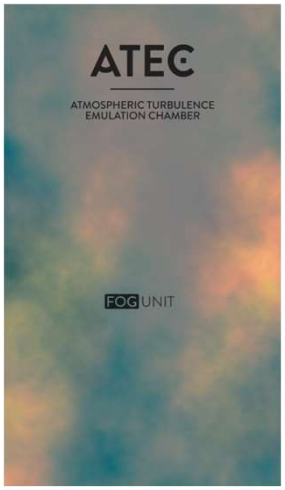
Westcott Space Cluster

CATAPULT Satellite Applications

Technical capabilities:
Indoor optical research test range

QUANTUM OPTICS DISCOVERY LABORATORY

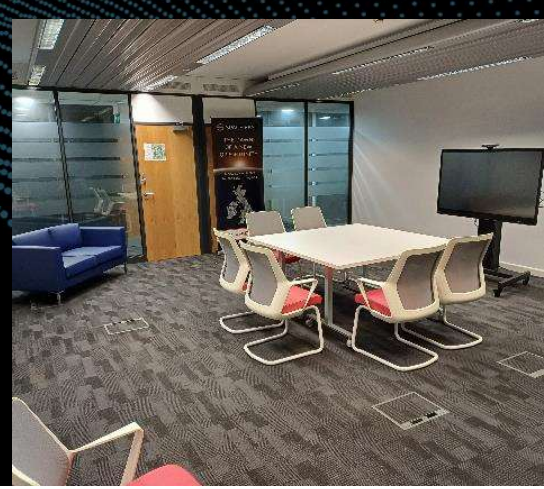
- UK's largest indoor optical test range
- 15-metre free space optics turbulence simulator
- Turbulence in vertical and horizontal paths
- Dynamic atmospheric simulation
- Modular rain, fog, temperature, wind control
- CFD-defined in-lab simulation of real-world scenarios



University of Suffolk · BT · University of Glasgow · Heriot-Watt University · Honeywell · Space East · UK Space Agency

SPACE ENTERPRISE LAB ADASTRAL

ROSS BUILDING



https://sa.catapult.org.uk/space-ecosystem/

https://spaceenterprise.uk/

The UK Space Ecosystem

UK SPACE ECOSYSTEM

A UK-Wide Network of Clusters

Bringing industry and **Academia** together to catalyse sector growth

A Range of Space Sector Resources

Databases and reports giving trends and insights into the UK Space Sector

A Virtual Community Platform

The SEC platform to connect, and learn about opportunities and events

Physical Spaces for Innovation

Rooms for meetings, workshops, and space events across the UK

Regular Networking Events

Monthly networking event held UK-wide to connect space-sector peers

Expert Technical & Business Support

Expert advice and facility access, getting UK-based innovators to market

UK SPACE AGENCY

CATAPULT Satellite Applications

SPACE ECOSYSTEM CHAMPION
VICTORIA CHRISTMAS

Clear and expert business support advice to a wide range of organisations, primarily those based within the local space cluster.

Includes guidance on the most appropriate business support programmes for their growth ambitions, as well as information on how to access them and broader funding and commercial opportunities across the UK's Space Ecosystem.

victoria.christmas@orangetreeltd.com

Paul Gibbons

Economic Growth Champion: Manufacturing
Cambridgeshire & Peterborough CA

CONSTELLATION

Space Cluster Collaboration from
Oxford to Cambridge and beyond.

UK SPACE AGENCY · HARWELL SPACE · SPACE EAST · Westcott Space Cluster · The Welding Institute | TWI

Cambridgeshire & Peterborough

Our region delivers global impact

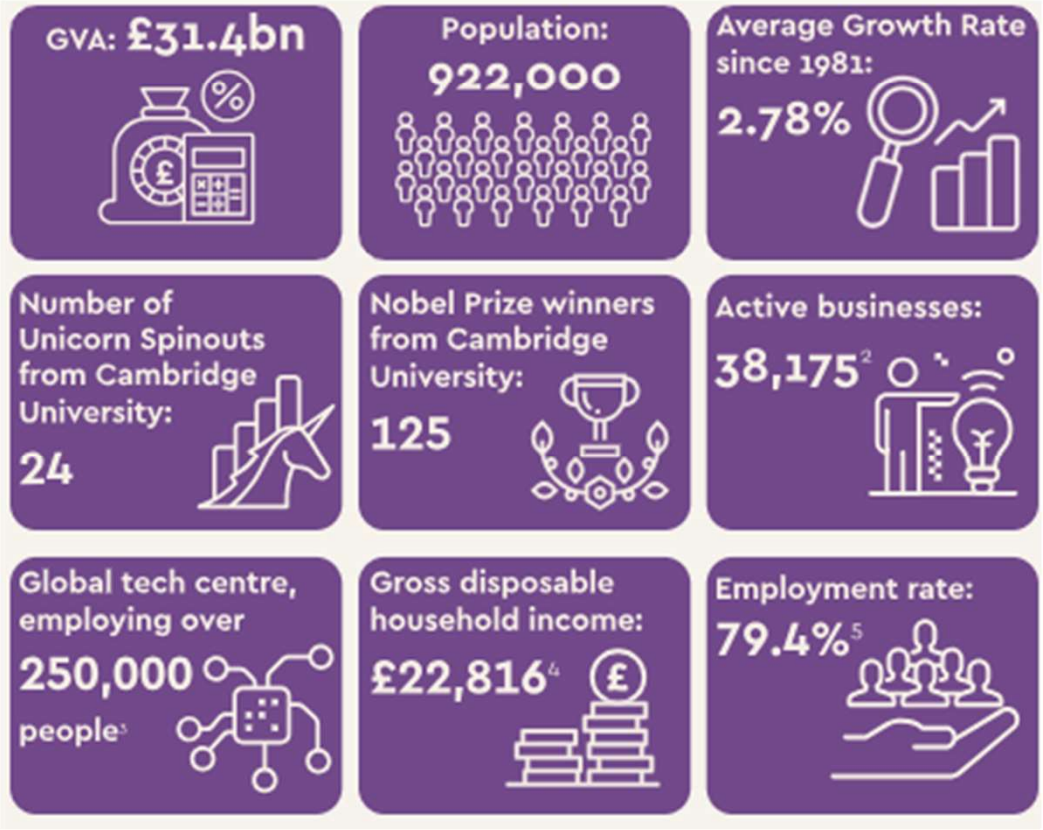
Our offer and ambition

To re-set our economy to secure an extra £66bn by 2050 meaning;

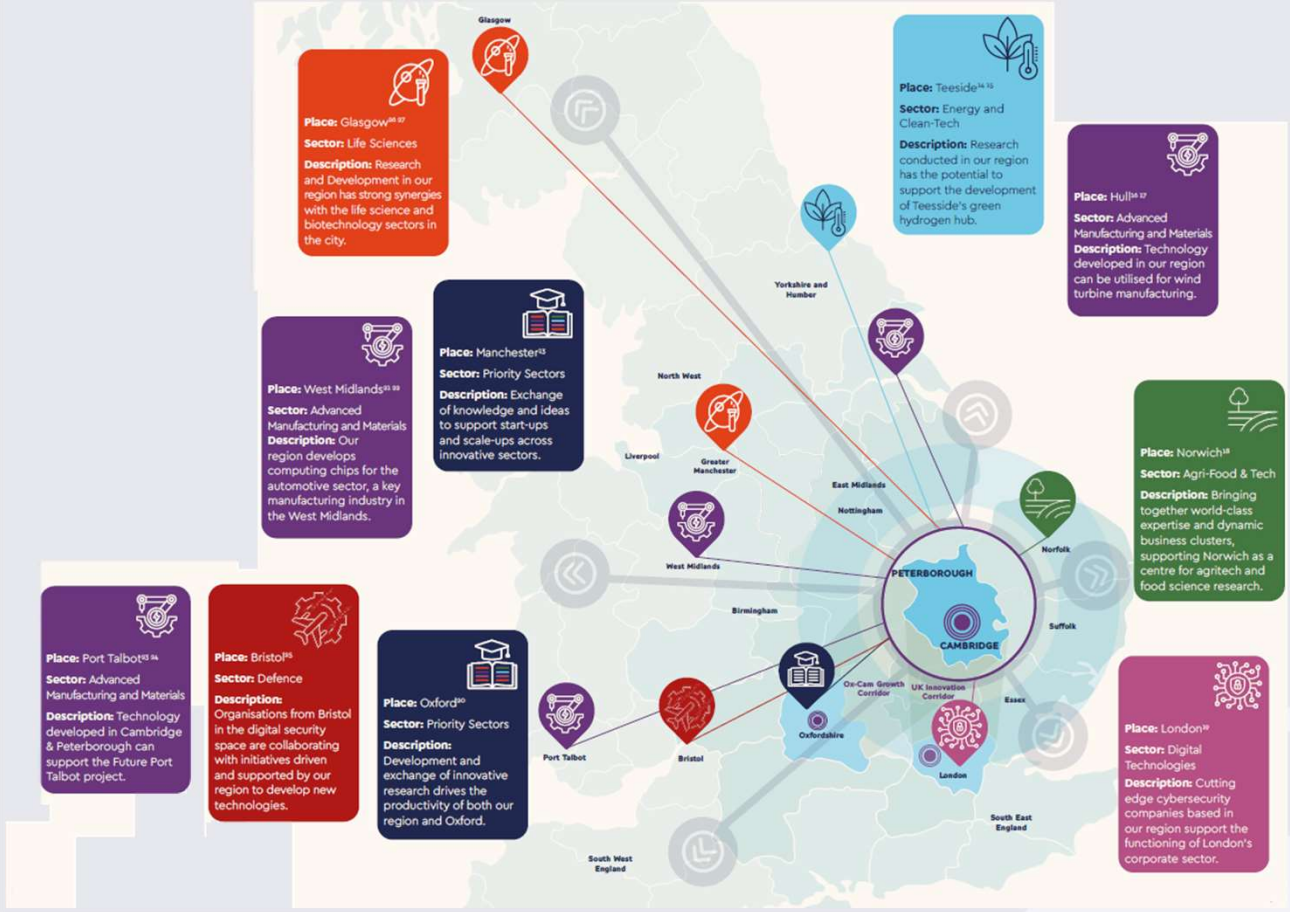
- **An extra £15bn by 2035**
- **CPCA's LGP represents an unprecedented opportunity to genuinely scale-up our region's unique economic contribution to kickstart Government's Growth Mission and accelerate investment in our Growth Driving Sectors**

Cambridgeshire & Peterborough is a UK Economic Powerhouse

- From our historic towns, cities and universities, our economy has grown into the globally recognised science and technology superpower it is today.
- In the UK context, our economy is uniquely focused on knowledge-intensive industries, with nearly 28% of GVA driven by innovation sectors.
- The strong foundations of the Cambridgeshire and Peterborough economy position it well for high growth over the next decade and beyond.



We are a national engine for UK industry and innovation



- Cambridgeshire & Peterborough is positioned as a national engine of innovation, driving industrial growth across the UK through strategic partnerships and sectoral leadership - from life sciences in Manchester to wind turbine tech in Hull
- University of Cambridge spinouts and start-ups alone, contributed an estimated £18 billion to the UK economy in a single academic year, underscoring the region's pivotal role in UK PLC

Attracting a globally competitive talent pool

Cambridgeshire and Peterborough has been named one of the best areas to work in the UK, demonstrated through one of the highest employment rates in the country (79.4%).

Driven by one of the world's pre-eminent universities, the University of Cambridge which leads in Biological Sciences, Chemical Engineering, Electrical & Electronic Engineering and Mathematics, our local talent pool is home to 125 Nobel Prize winners.

Anglia Ruskin University was awarded THE University of the Year 2023 for its novel, business led education provision.

Cambridgeshire and Peterborough Combined Authority has worked hand in glove with the skills and education sector and businesses to develop a skills ecosystem that supports industry. This has included working with partners to establish:

- Award winning Anglian Ruskin Peterborough
- £13.5 million Green Skills Centre at Peterborough College

With the world's leading science and technology cluster

Over 5,000 knowledge-intensive firms will drive the regional and national economy, empowering this Government to deliver its ambition

A top destination for global investment with two of the fastest growing cities in the UK.

We will deliver our growth ambition through our priority sectors:

Sector	Life Sciences	Advanced Manufacturing & Materials	Agri-Food & Tech	Digital & Technology	Defence	Energy & Clean-Tech
Frontier sub-industries	Pharma, biotech, cell & gene therapy, medical technologies & digital health, omics, novel therapuetic drug discovery	Materials science, Robotics, Life science manufacturing, Auto/Aero supply chain , Battery technology, Space	Genetics Feed and nutrition Robotics Soil Imp.	AI, Cyber, Semiconductors, Quantum, Software & digital infrastructure, Advanced connective technologies	Military intelligence & cyber security, Digital primes, Autonomous vehicles & systems, Electronics & communications, Sensors & robotics	Energy generation, Clean-tech, Energy storage (inc. CCUS), Energy management
Turnover	£16.5bn	£13bn	£922m	£13bn	£2.7bn	£740m

Advanced Materials & Manufacturing

Paul Gibbons

February 2026

CAMBRIDGESHIRE & PETERBOROUGH COMBINED AUTHORITY
PAUL BRISTOW MAYOR OF CAMBRIDGESHIRE & PETERBOROUGH

Cambridgeshire & Peterborough Advanced Manufacturing Cluster*

		SME Less than 249 Employees	Large More than 249 Employees	Totals
CPCA Region	Companies	715	34	749
	Est Revenue	7.25 billion	1.25 billion	8.5 billion
	Est Employees	7.8K	3K	10.8K
Totals	Revenue All	4.7 billion	7.4 billion	12.1 billion
	Employees All	12.2K	129.6K	141.8K
	Est GVA	1.13 billion	24.4 billion	25.5 billion
	GVA Per head All	£92,622	188,271	179,786
	Investment Funding All	1.59 billion	0.22 billion	1.81 billion
	Estimated Growth All	4.2%	8.6%	4.8%

*Data City July 2024

Headlines –

A Region like no other with
Twice* the UK Average** of manufacturing Jobs

749
Companies

38%
With over £500K Rev

97%
Less than 250 Employees

113
Foreign Owned

350
Female Directors

38%
With over £500K Rev

*CBR Data - Judge Business School 2025
**Cambridge Industrial Innovation Policy - UK Innovation Report 2025

Advanced Manufacturing Strengths

2nd

East of England has the *2nd most positive sentiment by region for investment intentions
*BDO Manufacturing Outlook Sept 2025

28% of K.I jobs

According to the Cebtre for business research (CBR) at the Judge Business School, 28% of all knowledge intensive jobs are attributed to advanced manufacturing.

Home to multiple spin-outs

The value of Cambridge University to UK economy is approx. £30 BN and 86,000 jobs, the biggest department is the department of engineering.

Cambridgeshire & Peterborough has substantial opportunities in frontier industries such as:

- Automotive
- Batteries
- Aerospace
- Defence
- Space
- Advanced Materials

Frontier Industries

£1.2 BN Investments

Dealroom suggests a total investment portfolio of over 1.2 billion from 450+ companies spanning, Advanced Materials, artificial intelligence, quantum and robotics and electronics manufacturing.

World Leading Research & Skills

University of Cambridge, Department of Engineering, IFM, Dept of metal and metallurgy, Henry Royce, Whittle lab, Maxwell Centre supporting new discoveries in frontier industries

95%+ SME's

A rich community of SME's supporting each of the frontier industries and into tier 1 suppliers in areas such as defence and aerospace. One of the most diverse and resilient Manufacturing communities in the UK

Cambridgeshire & Peterborough has a substantial presence in frontier industries such as:

Automotive — Perkins

Batteries — ECHION TECHNOLOGIES

Aerospace — HEXCEL Composites

Defence — TWI

Space — Supersharp SUPERSHARP

Advanced Materials — PARAGRAF

Join a world-leading innovation ecosystem

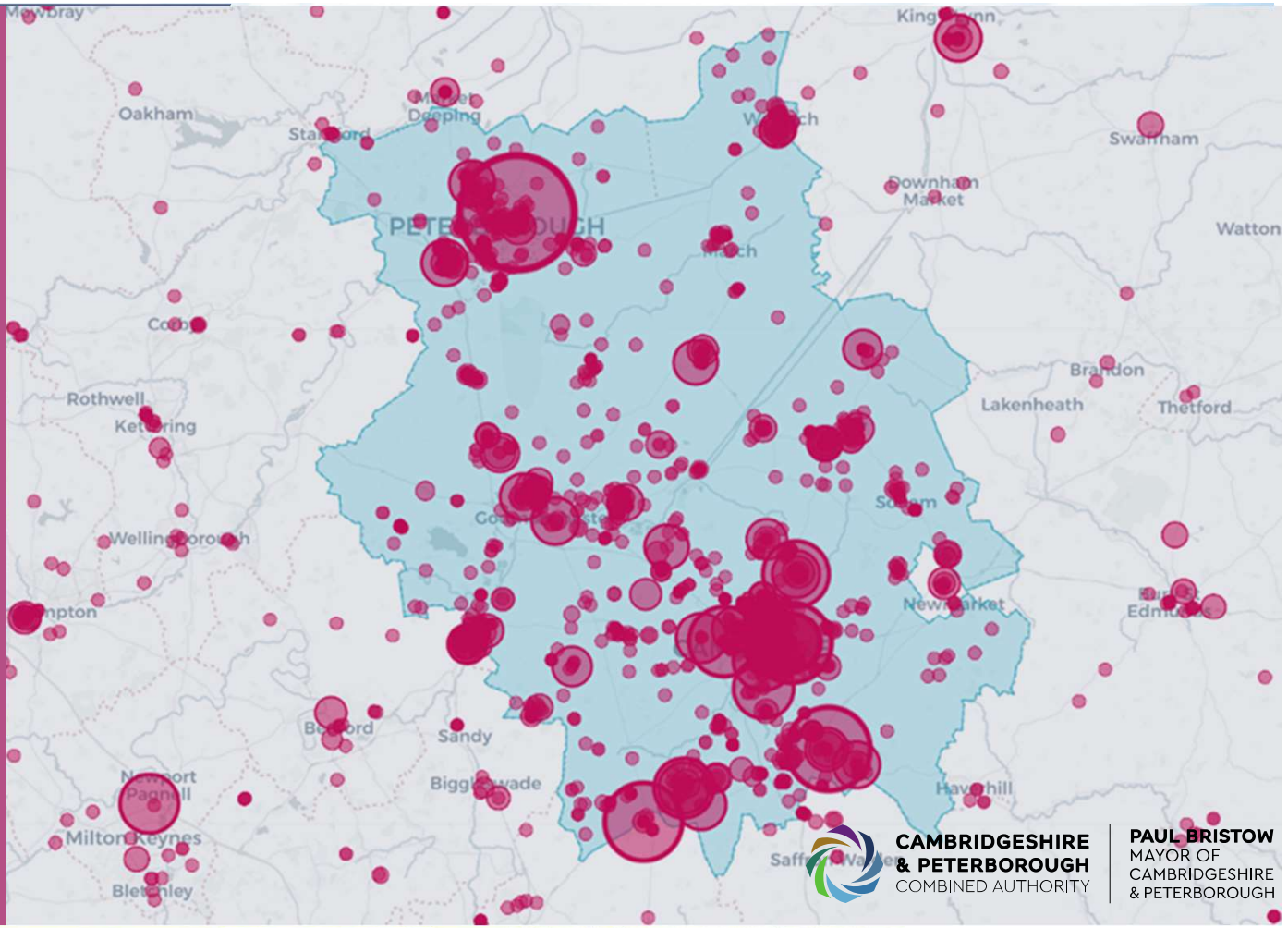
NATIONAL CENTRES OF EXCELLENCE & SUPPORT

REGIONAL CENTRES OF EXCELLENCE & SUPPORT

EMPLOYMENT AREAS

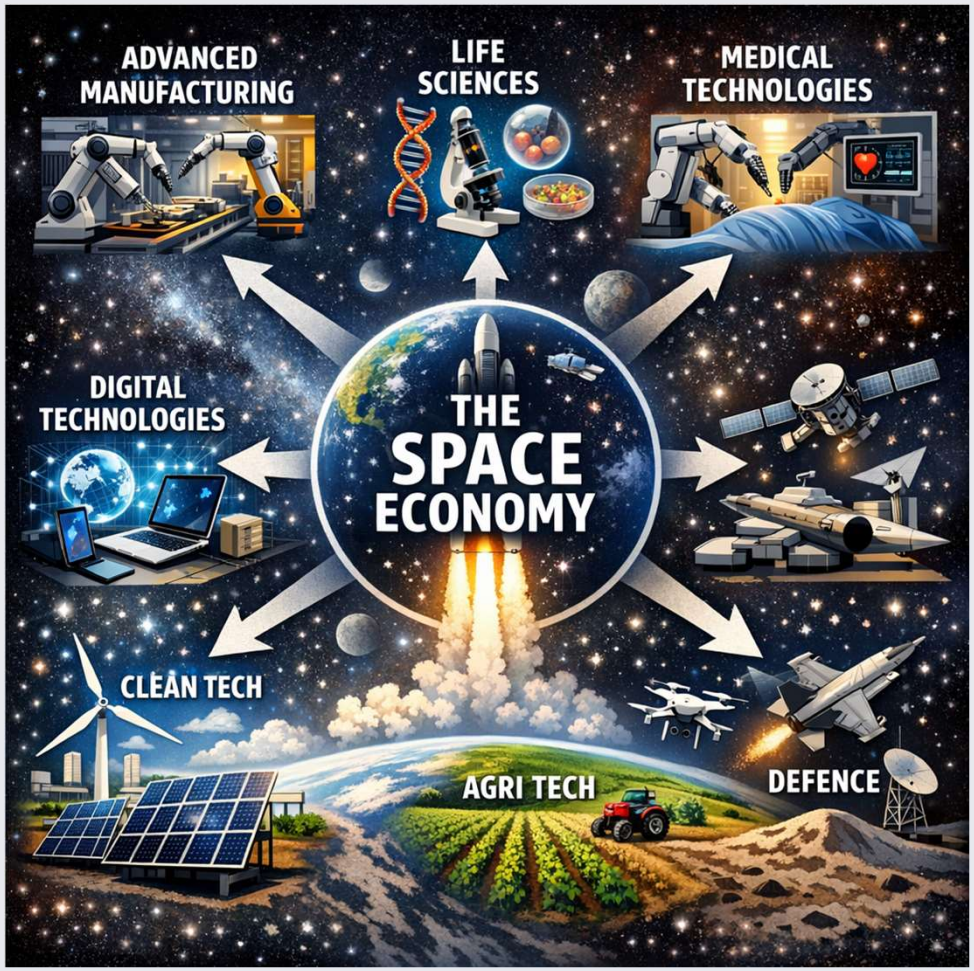
SECTOR NETWORKS

Investing in Cambridgeshire & Peterborough provides access to an advanced materials and manufacturing supply chain that accelerates your R&D, prototyping, testing and manufacturing through to export.



DataCity Map of Advanced Manufacturing Companies

CAMBRIDGESHIRE & PETERBOROUGH COMBINED AUTHORITY
PAUL BRISTOW
MAYOR OF CAMBRIDGESHIRE & PETERBOROUGH



CPCA Growth Sectors & Space Tech

Life Sciences & Health

Satellite data enhances disease modelling, epidemiology, logistics, and environmental health monitoring in life sciences.

Advanced Manufacturing

Space-derived data optimises manufacturing processes and strengthens supply-chain resilience for space hardware production.

Digital Technologies

AI, quantum computing, and cybersecurity support satellite operations, data analytics, and secure communications.

Agri-Tech and Environmental

Earth observation data advances precision agriculture, water management, and climate adaptation strategies in farming.

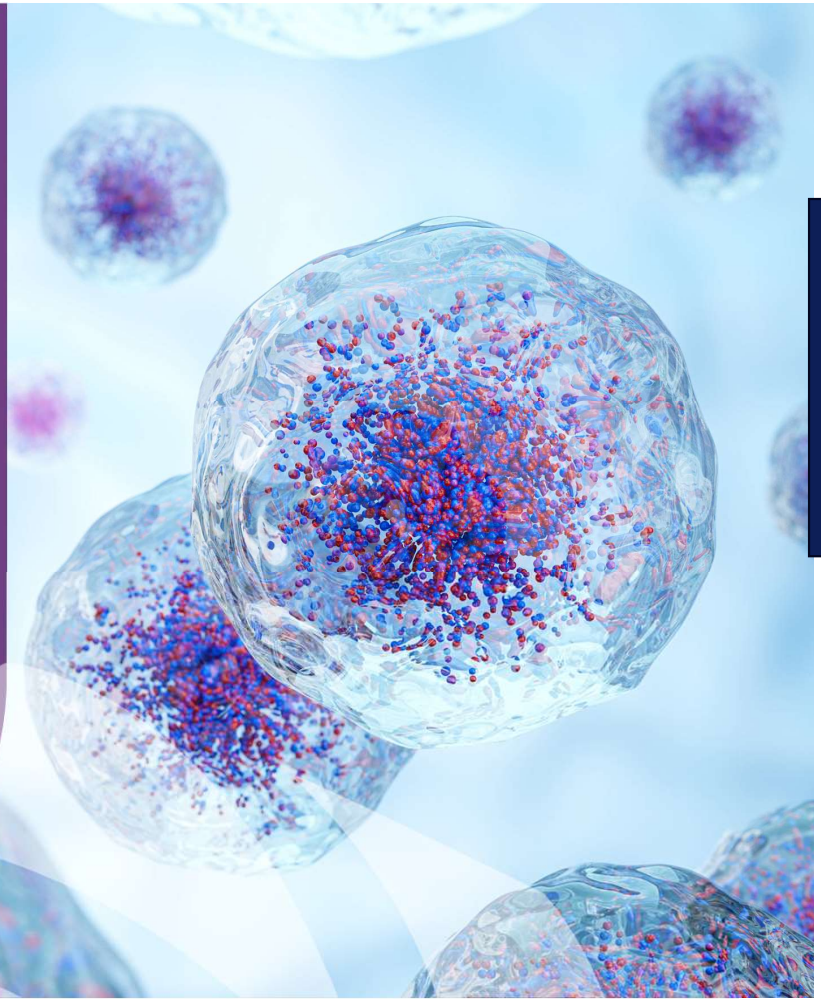
Clean Tech and Energy

Satellite-enabled carbon monitoring and renewable asset management support net-zero infrastructure development.

Space-Enabled Companies: Life Sciences

Companies intersecting with Life Sciences:

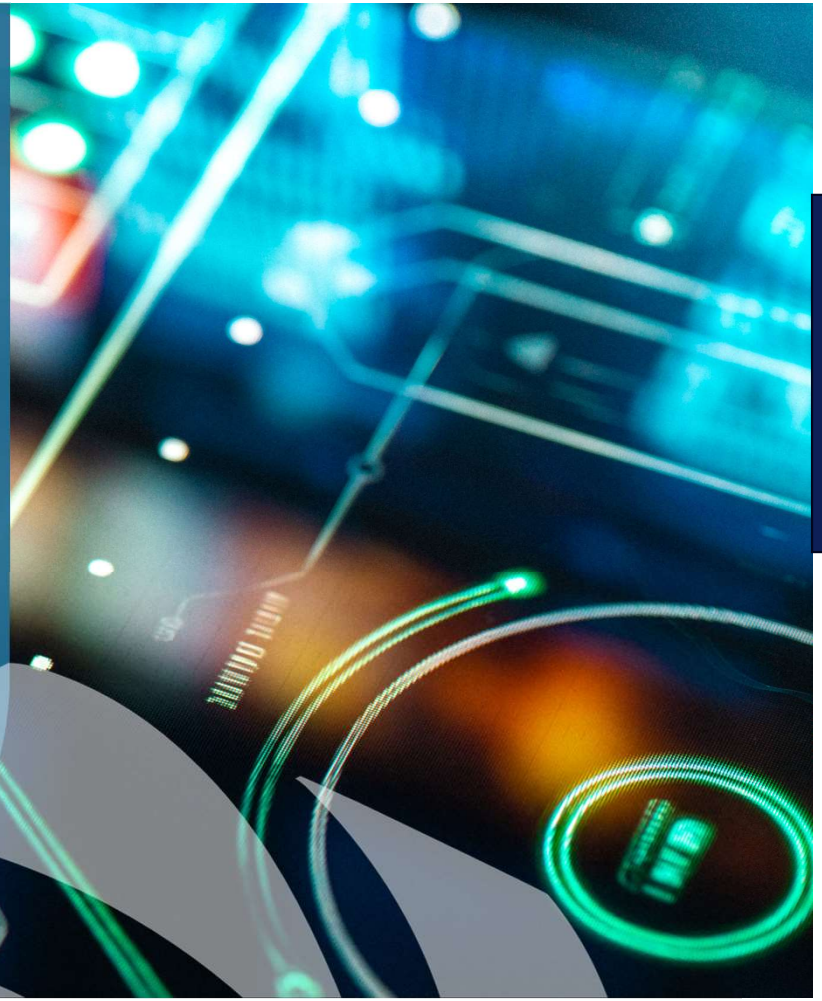
- Omnisense Limited
- RAND Europe UK Ltd
- TWI Limited
- U-BLOX LUTON LIMITED
- XILINX LIMITED
- Oxford Instruments PLC
- TTP PLC
- Focal Point Positioning Ltd
- Frazer-Nash Consultancy



Space-Enabled Companies: Digital Technology

Companies intersecting with Digital Technology:

- 1SPATIAL PLC
- Wyld Networks Limited
- Super-Sharp Space Systems Limited
- XILINX LIMITED
- Ensilica PLC
- Nu Quantum Ltd
- CRFS Limited
- Quantinuum Ltd

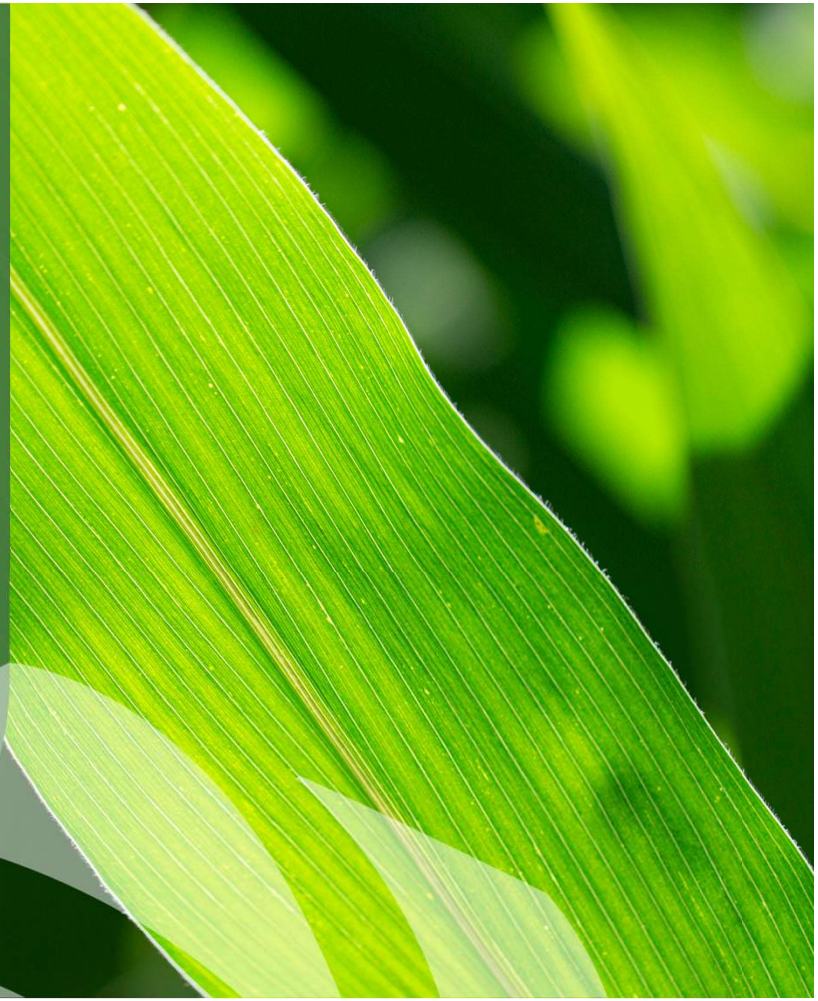


Wyld

Space-Enabled Companies: Agri-Tech

Companies intersecting with Agri-Tech:

- Crop Performance Ltd
- Super-Sharp Space Systems Limited
- Wyld Networks Limited
- TTP PLC



Supersharp

SUPERSHARP

Space-Enabled Companies: Advanced Manufacturing

Companies intersecting with Advanced Manufacturing:

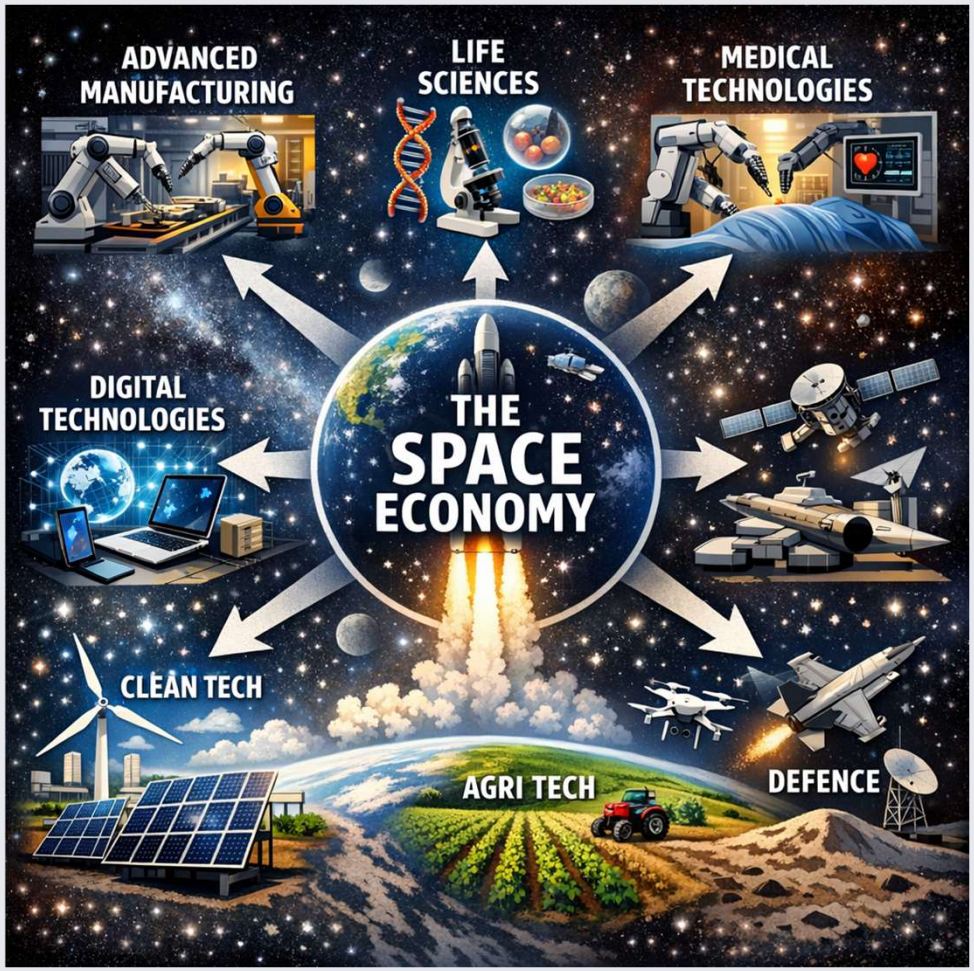
- Hexcel UK
- Rakon UK
- QIOPTIQ LIMITED
- Oxford Instruments PLC
- Alpha 3 Manufacturing Limited
- Versarien PLC
- Cambridge MicroFab Limited
- Atik Cameras Limited
- Advanced Scientific Materials

HEXCEL Composites

Space-Enabled Companies: Clean Tech

Companies intersecting with Clean Tech:

- Cambridge Environmental Research Consultants
- RAND Europe UK Ltd
- 1Spatial PLC
- Super-Sharp Space Systems Ltd
- Wyld Networks
- Ambiental Technical Solutions
- Frazer-Nash Consultancy
- Oxford Instruments PLC
- Versarien PLC
- U-Blox Luton Ltd
- Nu Quantum Ltd



CPCA Growth Sectors & Space Tech

Space tech powers our growth sectors

And amplifies our global impact

CAMBRIDGESHIRE & PETERBOROUGH COMBINED AUTHORITY
PAUL BRISTOW
MAYOR OF CAMBRIDGESHIRE & PETERBOROUGH

Prof. Nikku Madhusudhan
Astrophysics & Exoplanetary Science
University of Cambridge

CONSTELLATION

Space Cluster Collaboration from
Oxford to Cambridge and beyond.

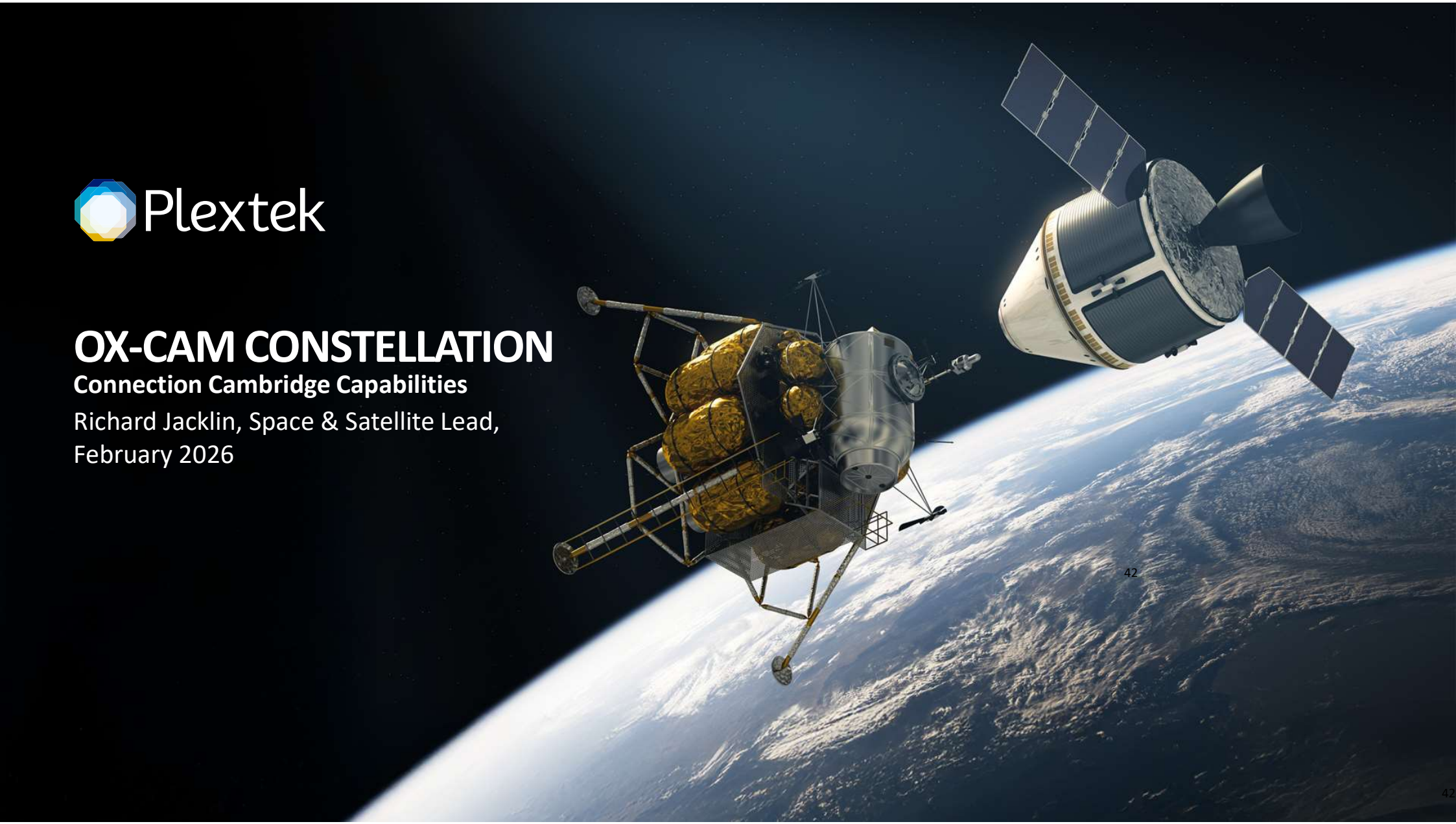
UK SPACE AGENCY
HARWELL SPACE
SPACE EAST
Westcott Space Cluster
The Welding Institute | TWI

Richard Jacklin
Commercial Lead; Space & Satellite
Plextek

CONSTELLATION

Space Cluster Collaboration from
Oxford to Cambridge and beyond.

UK SPACE AGENCY
HARWELL SPACE
SPACE EAST
Westcott Space Cluster
The Welding Institute | TWI



Plextek

OX-CAM CONSTELLATION

Connection Cambridge Capabilities

Richard Jacklin, Space & Satellite Lead,

February 2026

42

Plextek

Plextek Services Limited

- Over 35 years heritage designing and delivering RF communications and radar-based technology solutions
- Cambridge, UK
  ~90 FTE
  Many spinouts including Blighter, Redtail, Telensa
- Address many markets including; Defence, MedTech, Automotive and Space & Satellite

2025 Winner Global Business Tech Awards

GOLD 2025 STEVIE WINNER FOR TECHNOLOGY EXCELLENCE

Plextek

The Plextek Process

Concept Generation

- Customer insight
- Concept generation
- Technical feasibility
- Concept selection

Proof of Concept

- Modelling & Simulation
- Proof of concept
- Capability Demonstration

Concept Development

- Planning
- Risk management
- Requirements
- System design

Hardware, Firmware, Software Design

- Detailed design
- Process definition

Prototype Development

- Prototype Development
- Hardware, firmware and software

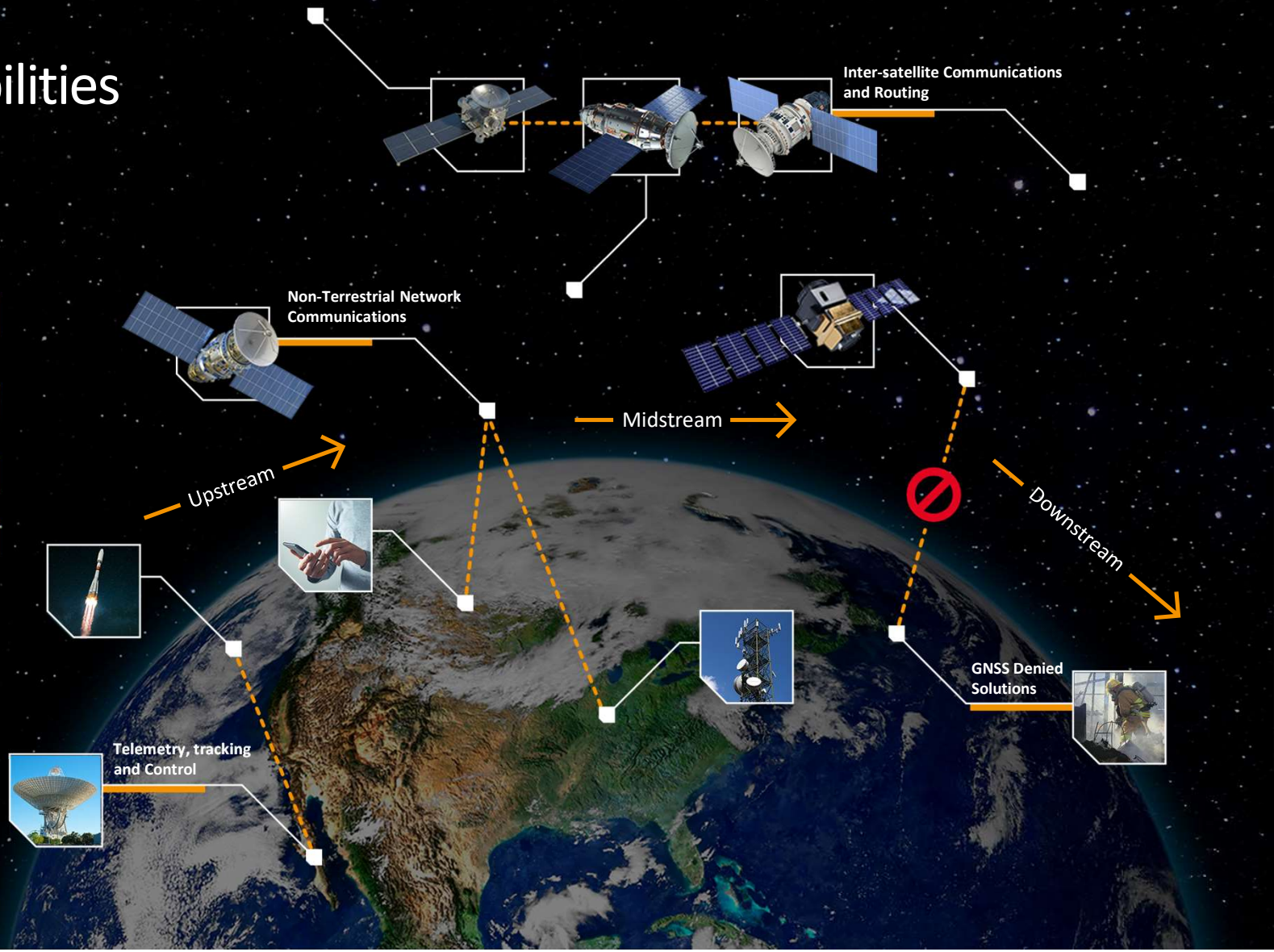
Production and Integration

- System Integration
- Mass production

Plextek

Space Market Capabilities in Communications

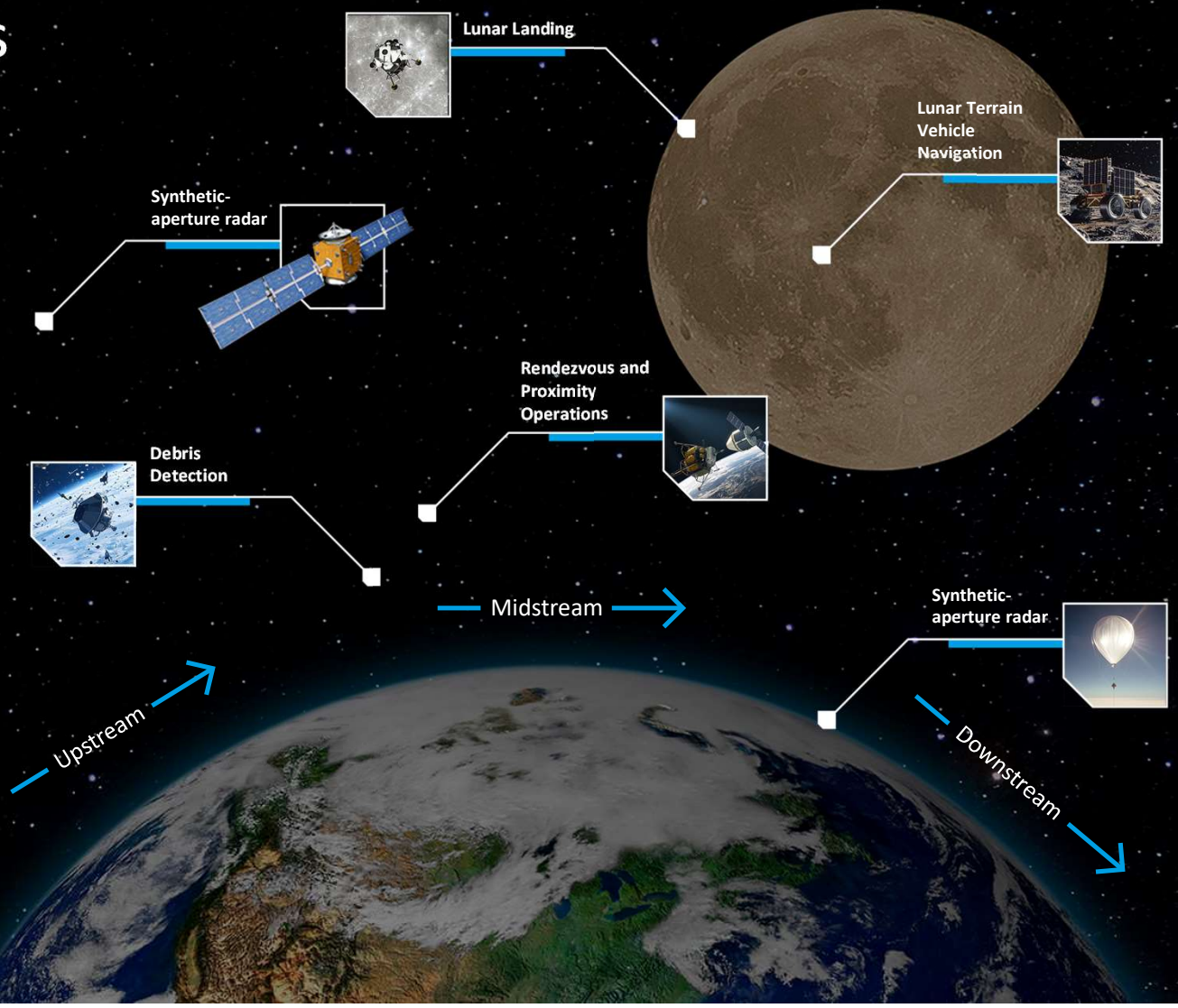
APPLICATION	› Local and cloud based › Secure communications
AI / ML	› Comms routing › Hardware optimisation
PROTOCOL	› L2 – L3 stack development
PHY	› DSP / FPGA signal processing
RADIO INTERFACE	› Tx / Rx RF Front End › Antenna development



Plextek

Space Market Capabilities in Radar

APPLICATION	› Rendezvous & Proximity Operations › Lunar landing & terrain › Debris monitoring in LEO › Terrain (SAR)
DATA	› Range, position, Doppler › Pre-processed or raw streaming
PLATFORMS	› Discrete and SoC › X-band to mmWave
RADIO INTERFACE	› Tx / Rx RF Front End › Antenna development › Phased array / beamforming

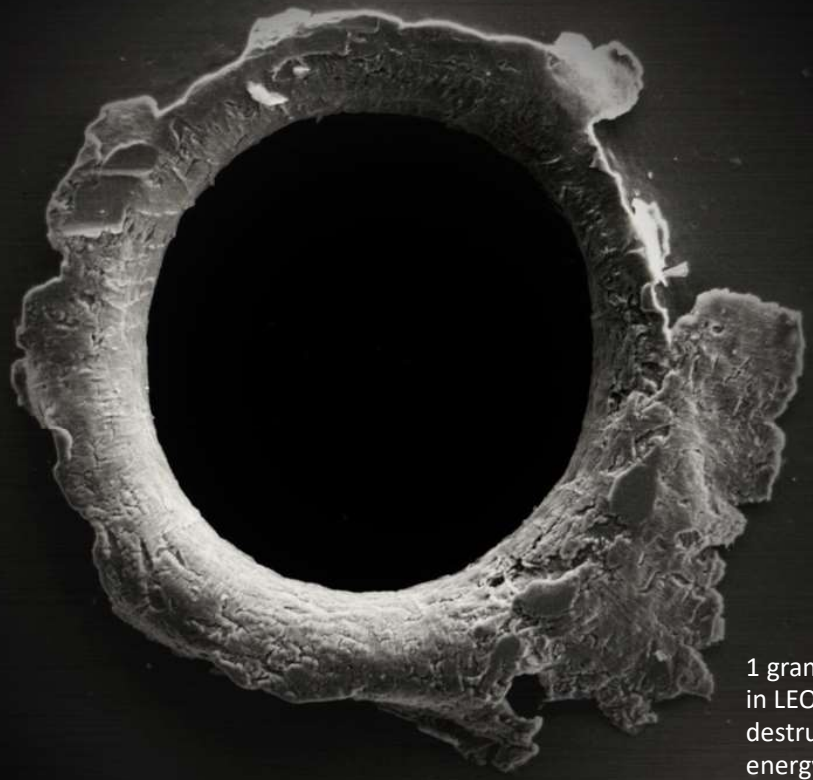


Plextek

Space Debris Threat

ESA's latest Space Debris Environment Report estimates 140 million untracked small debris pieces in LEO, posing a significant threat to satellite and spacecraft

The risks escalate as debris increases . . .
. . . and the debris is increasing!

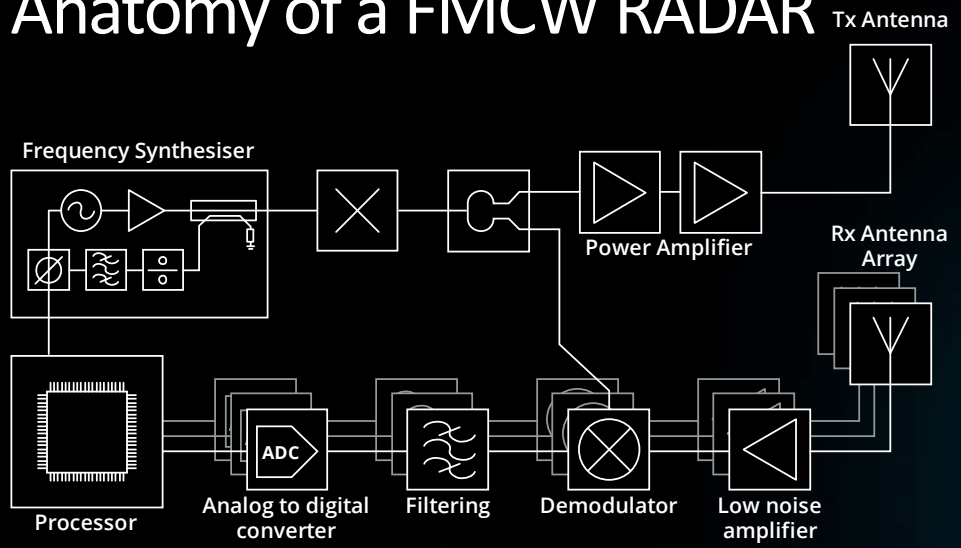


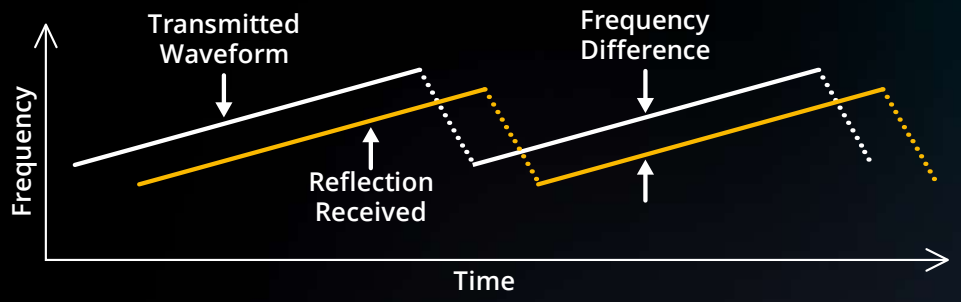
1 gram debris fragment in LEO has 100x more destructive kinetic energy than a 9mm bullet on Earth

Source: Space Environment Statistics · Space Debris

Plextek

Anatomy of a FMCW RADAR





< 1mm debris detection radar

Plextek

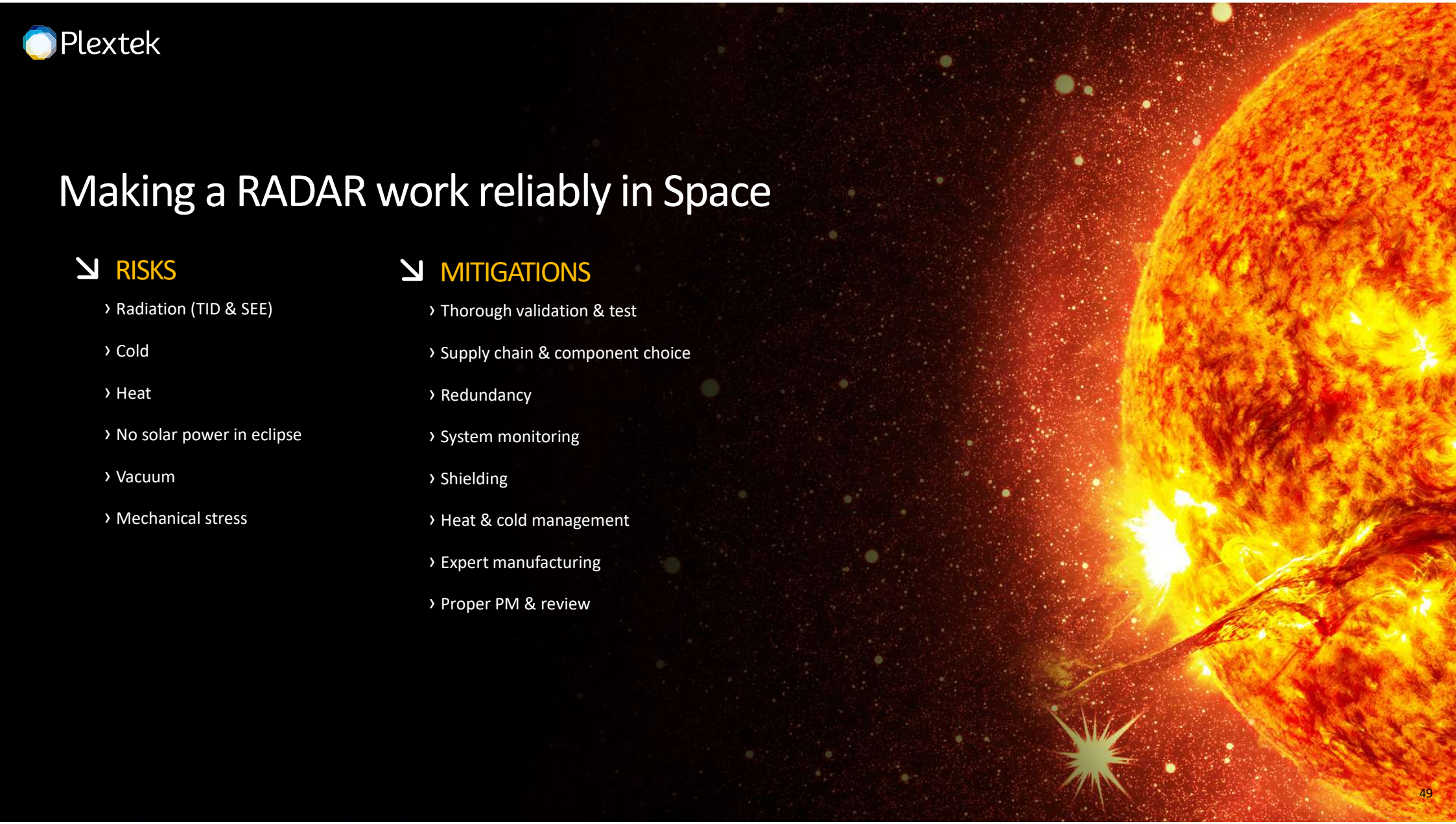
Making a RADAR work reliably in Space

↘ RISKS

- Radiation (TID & SEE)
- Cold
- Heat
- No solar power in eclipse
- Vacuum
- Mechanical stress

↘ MITIGATIONS

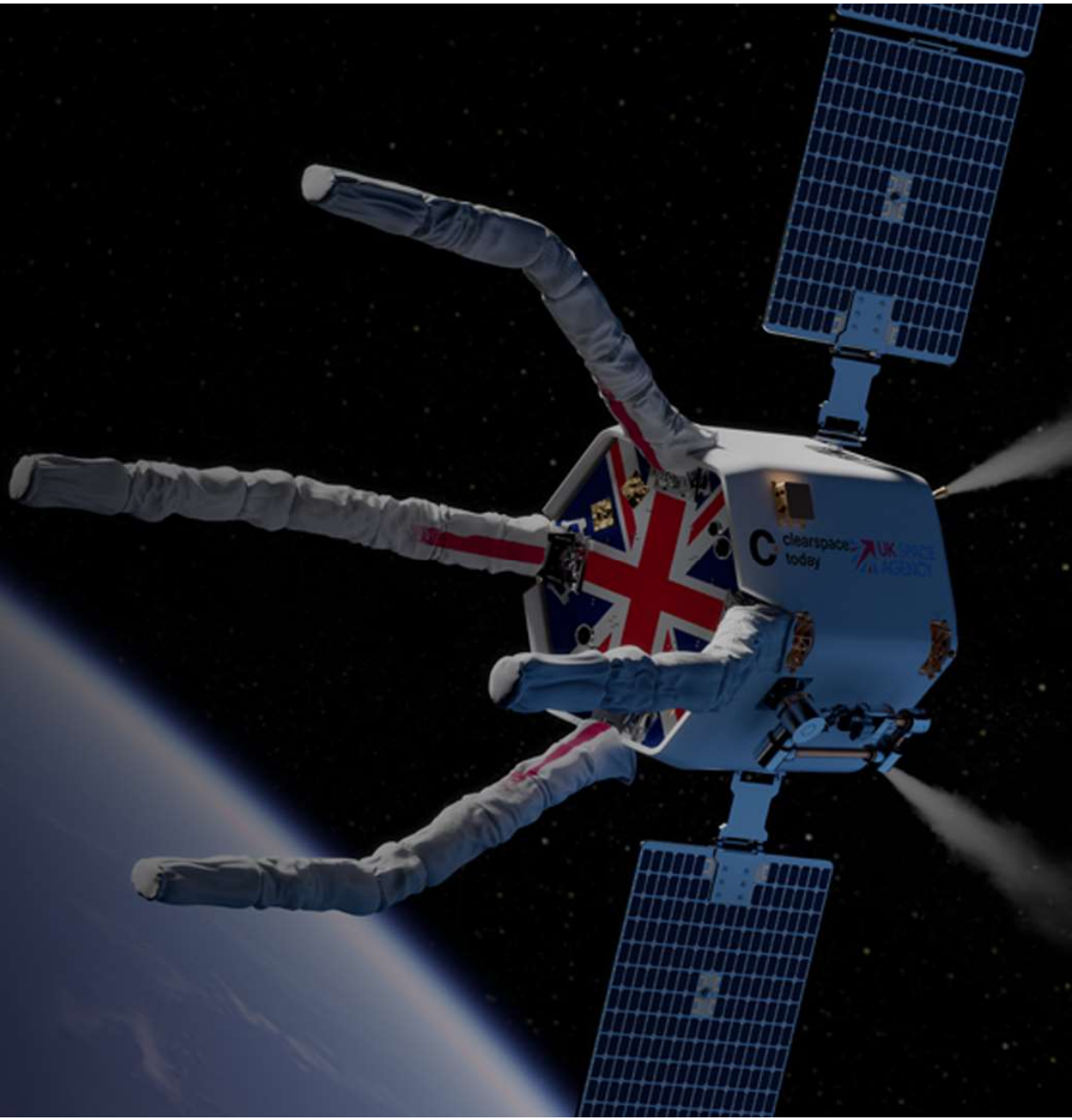
- Thorough validation & test
- Supply chain & component choice
- Redundancy
- System monitoring
- Shielding
- Heat & cold management
- Expert manufacturing
- Proper PM & review



Plextek

CLEAR Mission & RPO RADAR

"PIONEERING IN-ORBIT SERVICES
FOR FUTURE SPACE OPERATIONS"

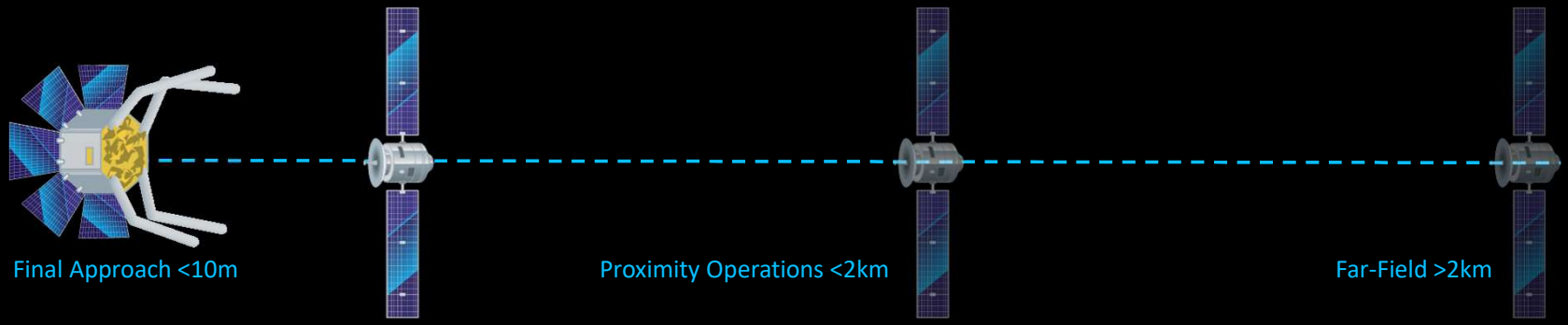


An artistic impression of the CLEAR mission. © ClearSpace

Plextek

Snapshot of Sensors for Rendezvous & Proximity Operations

Rendezvous and Proximity Operations (RPO) are critical components of space missions involving two or more spacecraft that must SAFELY approach, align, and interact in orbit.



RPO APPLICATIONS

- Debris removal
- Docking & re-supply
- Service extension
- In-orbit assembly

SENSOR TECHNOLOGIES

- Camera
- Infra-red
- LIDAR
- RADAR

SENSOR CHALLENGES

- Un-cooperative targets
- Darkness / eclipse – visibility
- Darkness / eclipse – power
- Obscured FoV – plume / thruster
- Reliability for autonomous operation

$$$

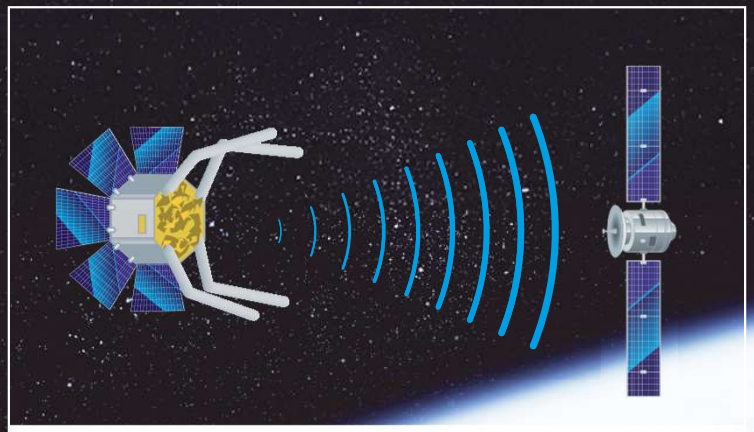
- Sensors are critical enabler, technology and component of a ~$4.4bn market*
  (* Satellite Catapult estimate for 2030)

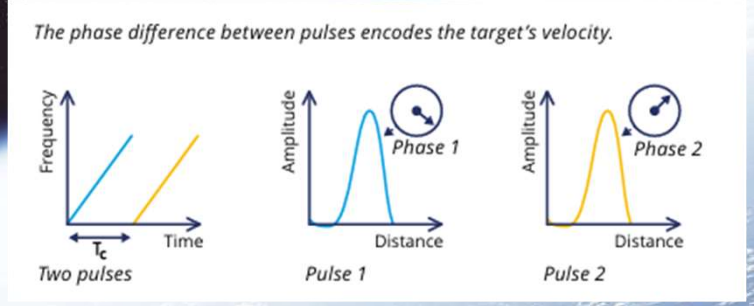
Plextek

Rendezvous & Proximity Operations (RPO) RADAR

↘ RPO RADAR Typical SWaP

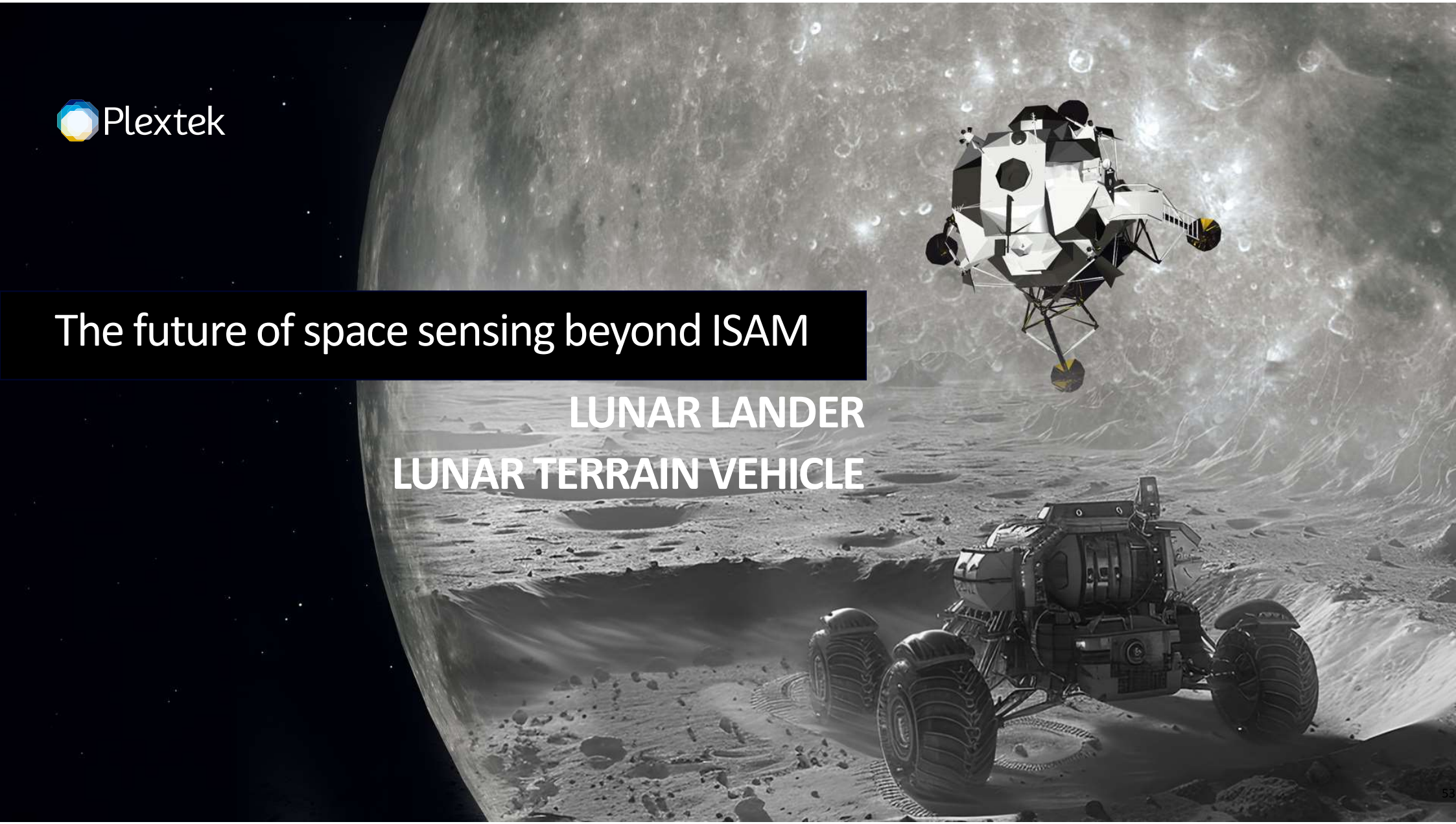
- Frequency: 60 to 80 GHz
- Footprint: 15 x 10 x 5 cm
- Weight: 250 gram
- Power: < 10W average





Plextek

The future of space sensing beyond ISAM



LUNAR LANDER

LUNAR TERRAIN VEHICLE

Plextek

Enablers…..Plextek's journey into space

>30 years experience

Core capability RADAR & Communications Expertise

~2020

Debris detector RADAR mm size

~2023

Active Debris Removal (ADR) RADAR - ClearSpace

~2026

Synthetic Aperture Radar (SAR)

Rendezvous & Proximity Operations / ISAM RADAR

Lunar landing & exploration RADAR

Enablers

Partnership with TI

Deep knowledge in mmWave

Fast commercial project

Basics of space electronics

ClearSpace expertise: ESA/UKSA/ECSS/Primes

Switched on BD & outreach: Clusters, Catapult, Conferences (Bremen, SpaceComm etc.)

Enablers for scale: Dedicated tech, project managers, PA/QA

Build heritage and test data

Reputation in radio and radar development

Plextek

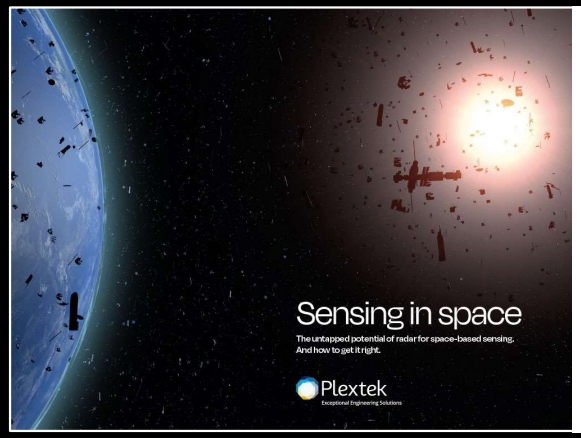
Thank you

To discuss radar for space sensing applications, contact:

Richard Jacklin

richard.jacklin@plextek.com

+44 7801 398 701



Download our technical paper

www.plextek.com | hello@plextek.com

+44 (0) 1799 533200

The Plextek Building, London Road, Great Chesterford,
Saffron Walden, CB10 1NY, United Kingdom

Elizabeth Seward
Deputy CEO
Supersharp Space Systems

CONSTELLATION

Space Cluster Collaboration from
Oxford to Cambridge and beyond.

UK SPACE AGENCY
HARWELL SPACE
SPACE EAST
Westcott Space Cluster
The Welding Institute | TWI

SUPERSHARP

A SATLANTIS COMPANY

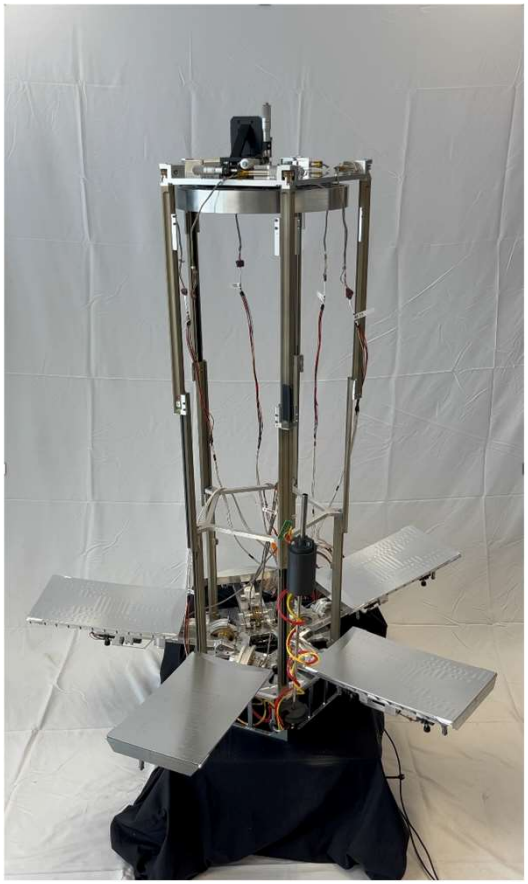
FOCUSING THE FUTURE

USING ADVANCED OBSERVATIONAL SATELLITE TECHNOLOGY

Marco Gomez-Jenkins, CEO
Elizabeth Seward, Deputy CEO
December 2025

ABOUT SUPERSHARP

- SuperSharp is a University of Cambridge spin out company, developing thermal infra-red space telescopes, including a self-aligning telescope concept that delivers low-cost, high-resolution mapping solutions.
- The vision is to become a global leader in infra-red imaging solutions using a user centric approach.
- Alliance with Satlantis, a Spanish payload specialist with expertise in aerospace, optical, mechanical, electronics, software and geoinformation



SUPERSHARP
A SATLANTIS COMPANY

FOCUSING THE FUTURE

THERMAL INFRARED (TIR) SATELLITE IMAGERY

What would you discover if you could take the temperature of everything on the planet, day and night?

Today, thermal satellite systems focus on short-wave or mid-wave infrared with lower sensitivities that require cooling

Our uncooled long-wave infrared telescopes measure ambient temperatures at a high-resolution, delivering actionable data for the planet

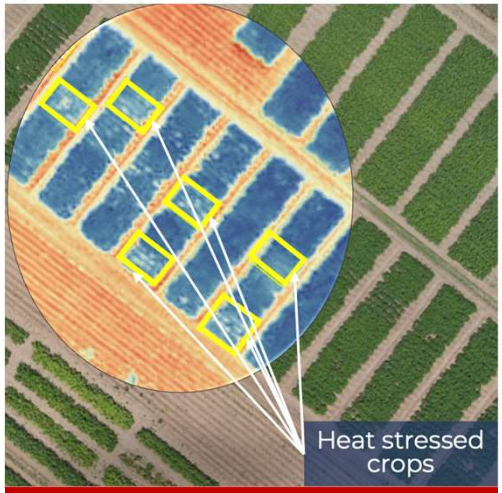
SUPERSHARP
A SATLANTIS COMPANY

FOCUSING THE FUTURE

THERMAL INFRARED (TIR) SATELLITE IMAGERY

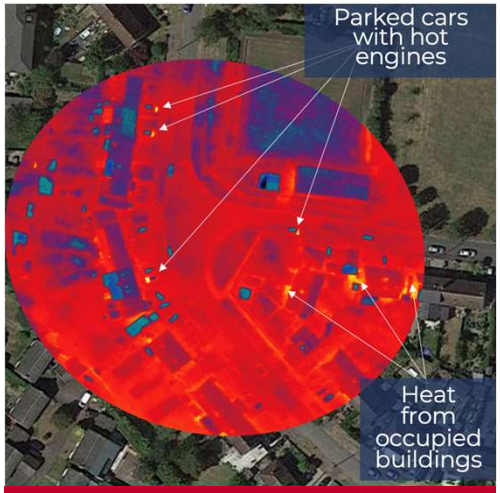
Civil

Monitoring energy efficiency of buildings

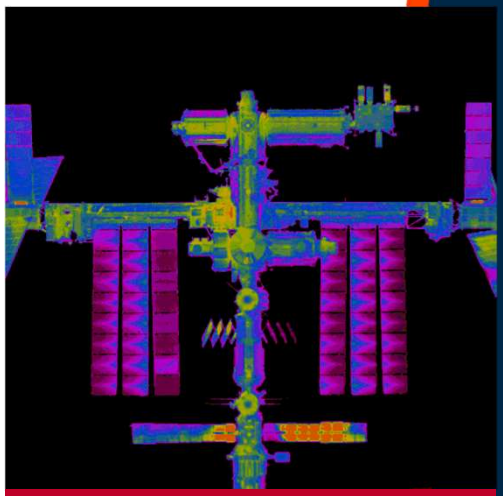


Early detection of heat in crops to boost yields

Defence



Monitoring activity for Defence and Security



Space Domain Awareness

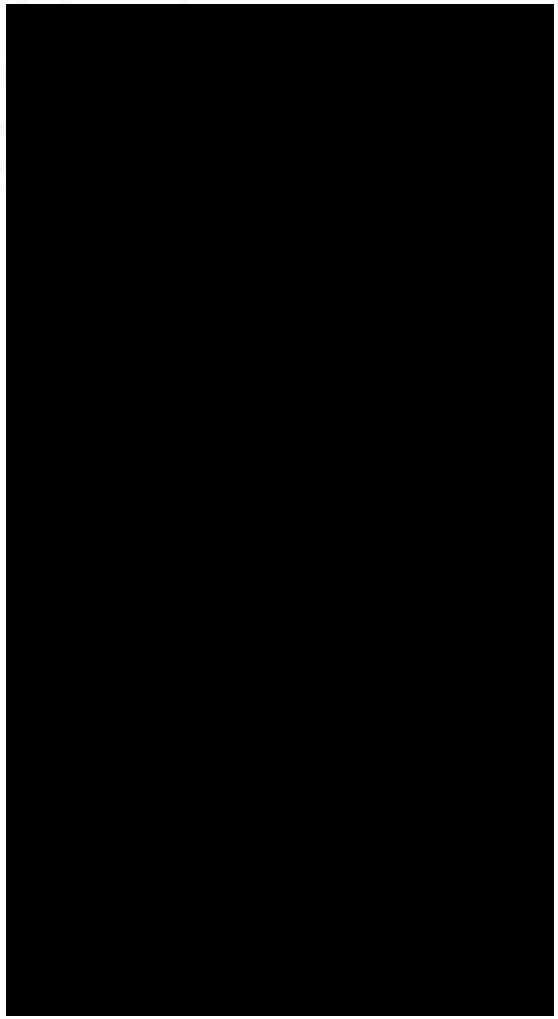
SUPERSHARP
A SATLANTIS COMPANY

FOCUSING THE FUTURE

THERMAL INFRARED (TIR) SATELLITE IMAGERY

SuperSharp's patented unfolding Telescope is designed using astronomy principles, in a spin-out from the University of Cambridge.

Technologies previously seen on large telescopes like the James Webb Space Telescope are adapted for the small sat, low-cost market



Hibiscus telescope

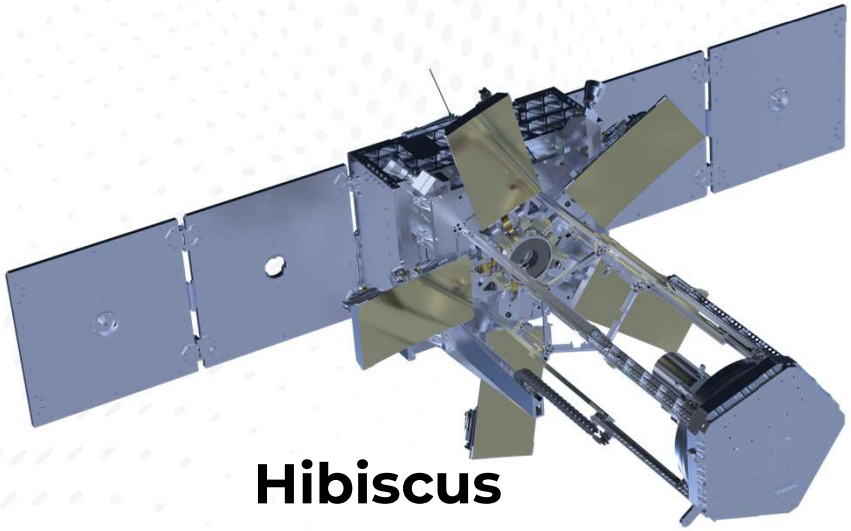
- Adaptive optics
- Active metrology
- Unfolding design
- Uncooled optics
- Strip-mapping capabilities

FOCUSING THE FUTURE

SUPERSHARP
A SATLANTIS COMPANY

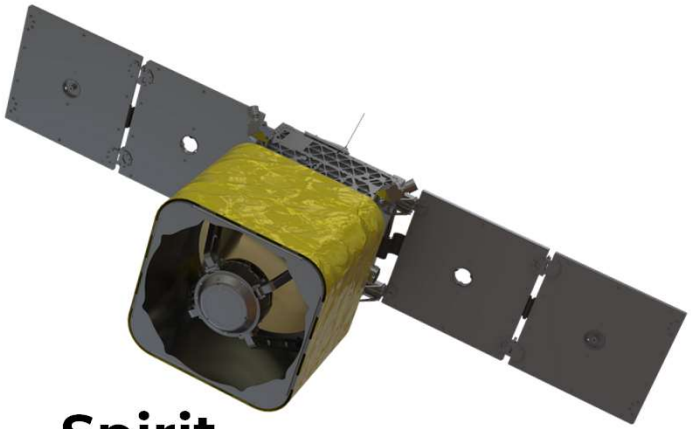
OUR PRODUCT LINE

Three telescopes delivering a range of resolutions and ground track coverage to meet all Thermal mapping needs designed for space, air/high altitude and ground platforms



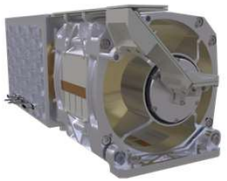
Hibiscus

3 m resolution
120 cm aperture
4km swath



Spirit

6 m resolution
60 cm aperture
31 km swath



Casper

27 m resolution
15 cm aperture
35 km swath

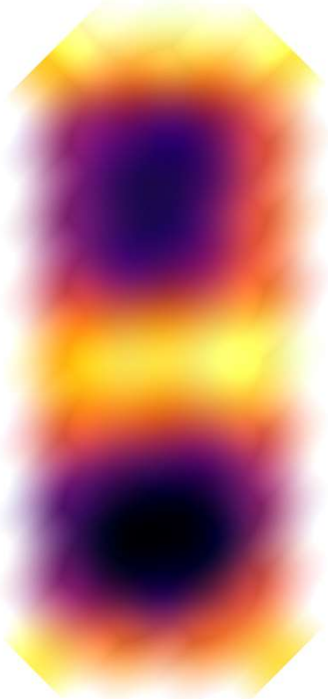
SUPERSHARP
A SATLANTIS COMPANY

FOCUSING THE FUTURE

COMPARING LONG-WAVE INFRARED (LWIR) RESOLUTION

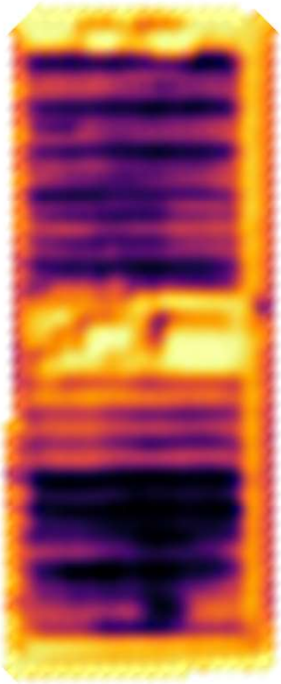
OPTICAL

LANDSAT 8 (30M)



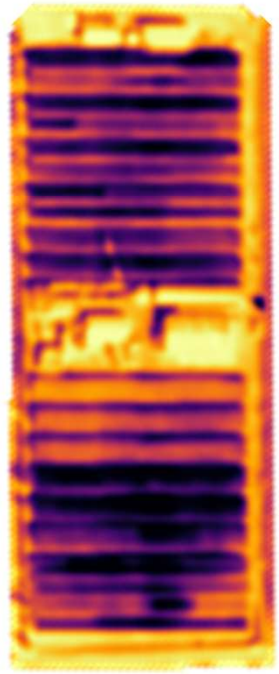
Average greenhouse temperatures measured

SPIRIT (6M)



Individual greenhouse temperatures observed

HIBISCUS (3M)

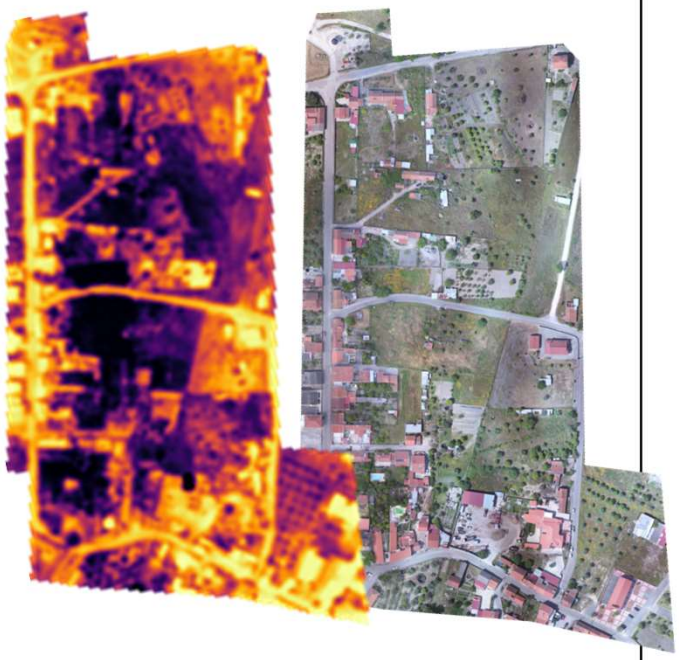


Across the greenhouse temperatures measured

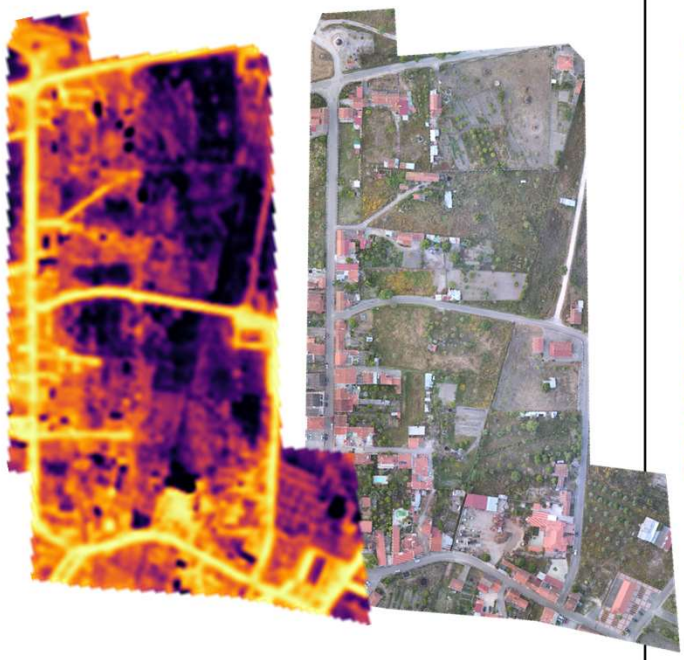
Greenhouses at Triplanta, Viveiros do Oeste, Portugal 39.2160, -8.6081

TIME OF DAY COMPARISON - FOROS DO ARRÃO (3M HIBISCUS RESOLUTION)

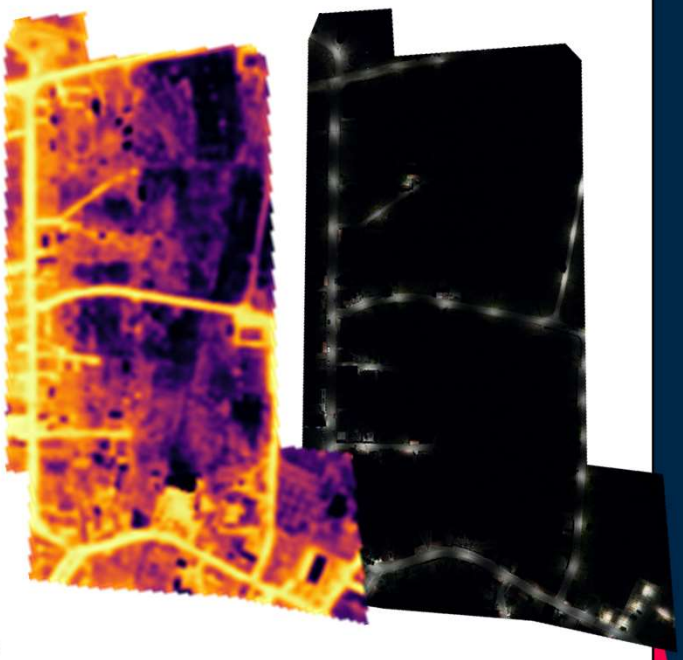
DAY



SUNSET



NIGHT



SUPERSHARP
A SATLANTIS COMPANY

FOCUSING THE FUTURE

DELIVERING FOR THE UK AND INTERNATIONALLY

Institutional Programmes

+£8M in grant funding and successfully delivered 6 tech development contracts

UK SPACE

3 x National Space Innovation Programme

esa

Incubed Business Incubation Centre

Defence and Security Accelerator

3 x Technology development contract

UKRI Innovate UK

ceo Centre for Earth Observation Instrumentation

2 x Grant

SUPERSHARP
A SATLANTIS COMPANY

Industrial Contracts

Projects signed with leading space companies

SATLANTIS

nano avionics
A KONGSBERG COMPANY

In-orbit verification

creotech

Lunar payloads

BAE SYSTEMS

OPEN COSMOS

Mission development

FOCUSING THE FUTURE

OUR TEAM

Prof Ian Parry
CTO & Co-founder
+30 years global experience working with the world's largest telescopes

Marco Gomez-Jenkins
CEO & Co-founder
MBA Cambridge Judge Business School & Vice-Chair SpaceEast, the East of England Space Cluster

Dr George Hawker
CEngO & Co-founder
Built the proof-of-concept prototype of the self-aligning technology

Elizabeth Seward
Deputy/Incoming CEO
+20 years global experience working in space industry primes & supporting start-ups

Miguel Goncalves
COO
+30 years managing complex engineering operations in industry and academia

Andrea Perticati
Head of Engineering
+20 years of cross-sector program leadership in automotive, robotics, and industrial sectors

Board Governance

Lord Stuart Peach
Non-Executive Chairman

Mark Garnier MP
Non-Executive Director

Juan Thomas Hernani
Non-Executive Director

UNIVERSITY OF CAMBRIDGE
ioa
BAE SYSTEMS
SATLANTIS
AIRBUS
FOCUSING THE FUTURE

OUR TEAM 2025

38 employees from diverse backgrounds

SUPERSHARP
A SATLANTIS COMPANY

FOCUSING THE FUTURE

FULL TEAM – NOVEMBER 2025

Team size
38 people

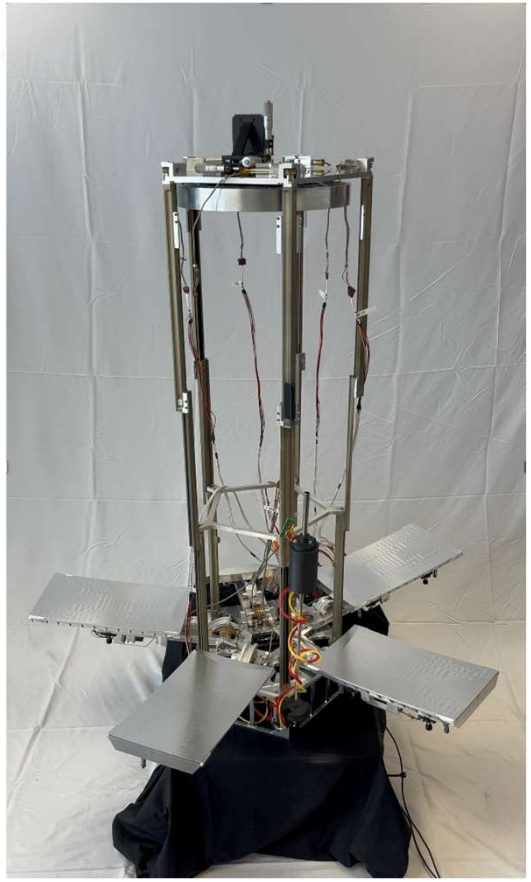
SUPERSHARP
A SATLANTIS COMPANY

FOCUSING THE FUTURE

HIBISCUS: ULTRA HIGH-RESOLUTION THERMAL IMAGING

Hibiscus delivers high resolution at a low price point through a patented unfolding telescope design and adaptive optics

Specification	Value
TIR aperture	120 cm
Launch configuration	~150kg platform
TIR band	LWIR and MWIR
LWIR GSD (from LEO)	3 m per pixel
MWIR GSD (from LEO)	1.5 m per pixel
Technology	Unfolding/self-aligning
TIR Sensor format	1920 x 1200 pixels
FOV (from LEO)	5.8 km x 3.6 km
Launch Date (LWIR version)	Q4 2026



SUPERSHARP
A SATLANTIS COMPANY

UK SPACE AGENCY

nano avionics
A KONGSBERG COMPANY

UNIVERSITY OF CAMBRIDGE

SUPERSHARP · BLUE MOON · UNIVERSITY OF CAMBRIDGE · UK SPACE AGENCY ·

FOCUSING THE FUTURE

SPIRIT: WFOV TELESCOPE

SPIRIT delivers 6m resolution with a wide, long ground track through an innovative sensor image following system

Specification	Value
Payload Volume	60cm x 60cm x 60cm
TIR aperture	60 cm
TIR band	8 – 13 microns
TIR GSD (from LEO)	6 m per pixel
Swath (from LEO)	31 km
Technology	Extreme telephoto
Noise Equivalent Delta T	<200mK
TIR Sensor	UMBA
TIR Sensor format	4 x 1280 x 1024 pixels
Tech Readiness Level	7 (Q1 2026)

SUPERSHARP
A SATLANTIS COMPANY

esa

UNIVERSITY OF CAMBRIDGE

GEOSPATIAL INSIGHT

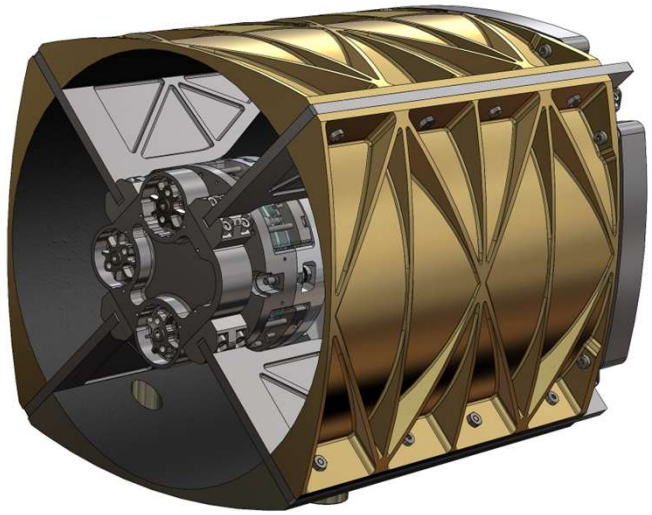
FOCUSING THE FUTURE

CASPER: COMPACT THERMAL IMAGING SOLUTION

Casper delivers low-cost thermal mapping for small and cubesat missions, enabling multi-sensor platform integration

Specification	Value
Payload Volume	16 cm x 16 cm x 17.7 cm
TIR aperture	15 cm
TIR band	8 – 13 microns
TIR GSD (from LEO)	27.2 m per pixel
Swath (from LEO)	35 km
Technology	Extreme telephoto
TIR Sensor format	1280 x 1024 pixels
Launch date*	Q1 2027

*Camera was sold to Satlantis and will fly on their Garai-NEO mission on a Nanoavionics Platform.



SATLANTIS

nano avionics
A KONGSBERG COMPANY

SUPERSHARP
A SATLANTIS COMPANY

FOCUSING THE FUTURE

ALERT – SPACE DOMAIN AWARENESS PROJECT

ALERT delivers new capabilities in orbital awareness and satellite diagnostics through ground-based thermal SDA tracking based on the SPIRIT product

Specification	Value
System	Ground-based TIR
TIR band	8 – 13 microns
Technology	Extreme telephoto
TIR Sensor format	1280 x 1024 pixels
Operational date	Q1 2026
Monitoring modes	Satellite health checks, anomaly detection

SUPERSHARP
A SATLANTIS COMPANY

FOCUSING THE FUTURE

OUR CURRENT MISSIONS

Blue Moon
Domain: Space
Product: Hibiscus
Launch date: Q2 2027
Customer: NSIP funding

Alert
Domain: Ground
Product: Spirit
Launch date: Q1 2027
Customer: NSIP funding

Elcano
Domain: Space
Product: Casper
Launch date: Q1 2027
Customer: Satlantis

Haleos
Domain: Air
Product: Spirit
Operational: Q1 2026
Customer: DASA

SUPERSHARP
A SATLANTIS COMPANY

FOCUSING THE FUTURE


Thanks for your time.
Marco Gomez-Jenkins
CEO
marco.gomez@supersharp.space
Elizabeth Seward
Deputy CEO
elizabeth.seward@supersharp.space
SUPERSHARP
A SATLANTIS COMPANY
FOCUSING THE FUTURE

Matt Bagley
Operations Executive
Space East

CONSTELLATION

Space Cluster Collaboration from
Oxford to Cambridge and beyond.

UK SPACE AGENCY
HARWELL SPACE
SPACE EAST
Westcott Space Cluster
The Welding Institute | TWI

Ox – Cam Constellation

TWI, 11th Feb 2026

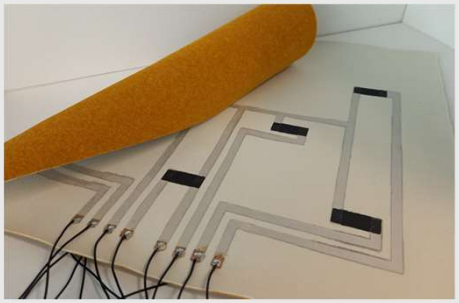
TECHNOLOGIES
Printed electronics innovation

Advanced Materials
for novel electronics:
printed, flexible, stretchable.

Silver, graphene, carbon.

Printed components and devices

Sensors, heaters, stretchable wires.

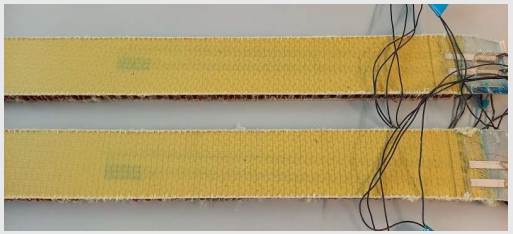


Why Space?

Smart, sensorised structures with new functionalities.

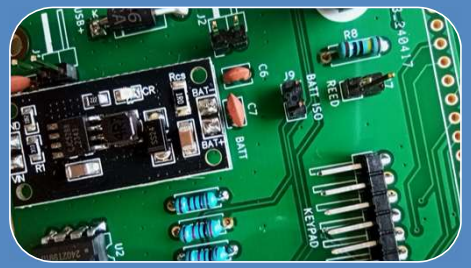
Lighter, more intelligent spacecraft.

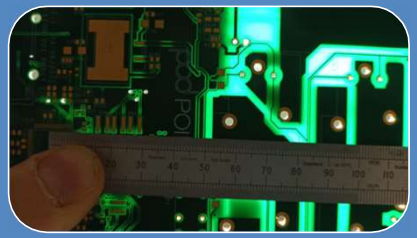
Dexterous robots for space exploration.



engineering the blue

- Innovation Support
- Human Factors Analysis
- Requirements Capture
- Project and Risk Planning
- Stakeholder Engagement





UCL

VOQA Effortless Charging Every Day

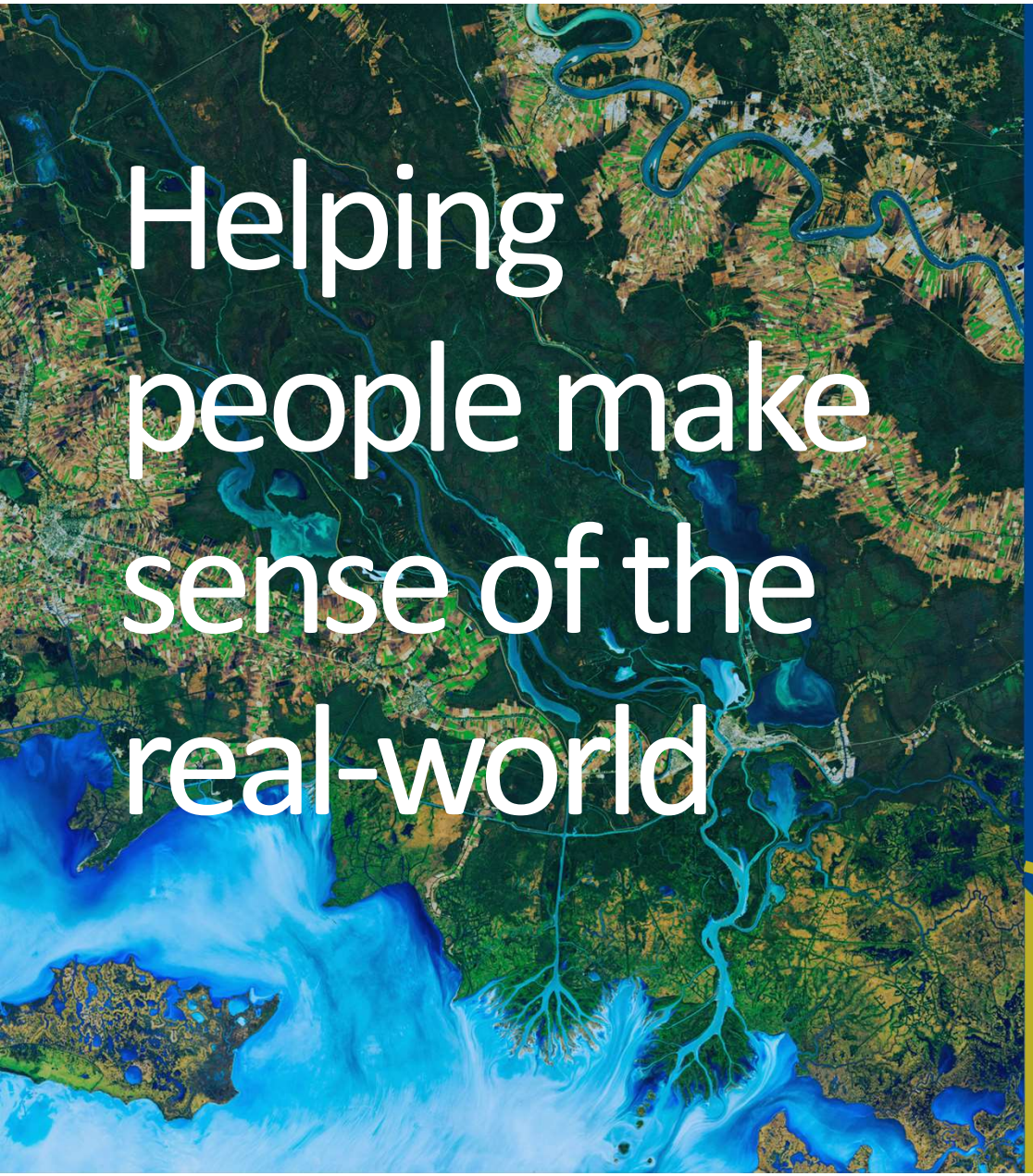
CYCLOPS MARINE

T S M SYSTEMS LTD

ev

VETS in MIND

RVC Royal Veterinary College University of London



LAMPATA

BRINGING TECHNOLOGY TO THE REAL WORLD

Our clients have valuable insights into their domain challenges. We have the geo-spatial solutions and engineering mindset to solve them.

lampata.eu

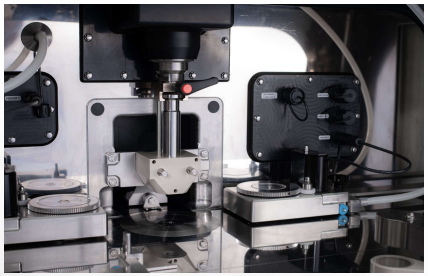
+44 07842881257

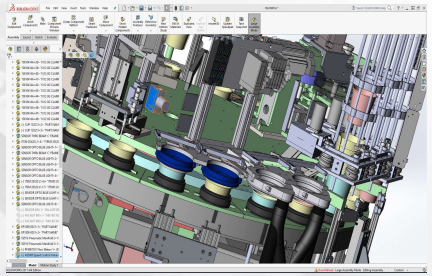
www.lampata.eu

Lampata, Wellington House,
Cambridge, UK

Huxley Bertram

engineering transformation





Huxley Bertram Engineering
Develops, Designs and Builds
Special Purpose Machines and Automated Systems

British Assessment Bureau
ISO 9001
QUALITY MANAGEMENT

Huxley Bertram

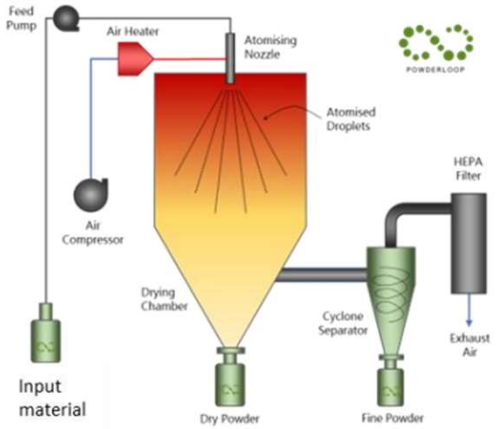
Powderloop Technology Ltd.

POWDERLOOP

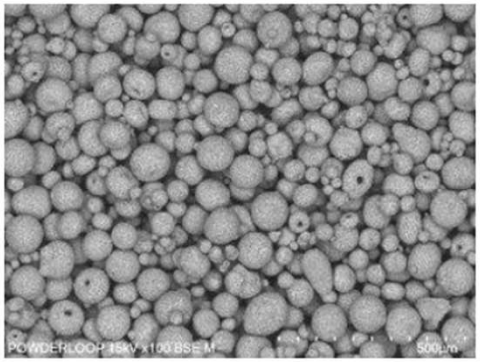
We help you overcome material challenges and achieve better performance coatings

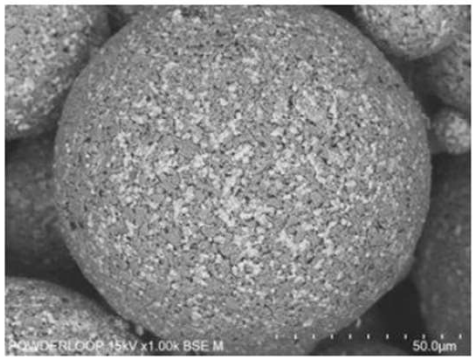
yin.kok@powderloop.com
www.powderloop.com

Proprietary Resource-Efficient Powder Manufacturing

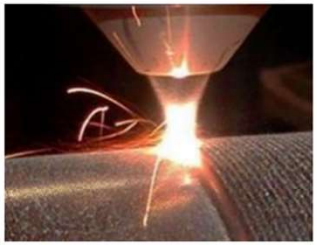


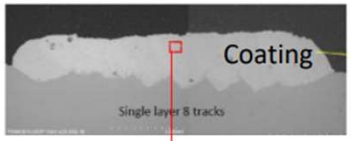
Customised In-situ Alloying Powder

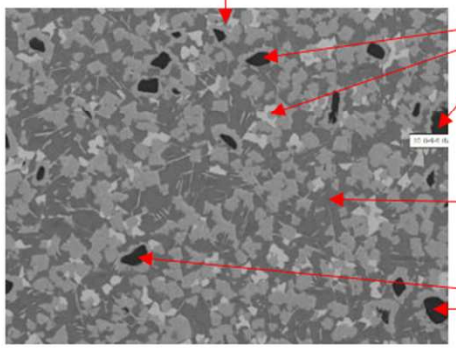




Applications Development with AM Users







Benefits:

- ✓ Reduces material loss.
- ✓ Reduces energy and water consumption.
- ✓ Quick turnaround time.
- ✓ Wide selection of material combinations.

Development of a high-speed optical intersatellite link (OISL) terminal based on a low-complexity platform

UNIVERSITY OF CAMBRIDGE

LiFi Research and Development Centre

esa

- **The project aims to develop an optical inter-satellite link (OISL) terminal which is more SWaP-efficient, provides high data rates, and is more reliable/resilient.**

- The de-risk phase of the project, worth €250k, has started in January 2026 and is funded under ESA's General Technology Support Program (GSTP).
- The initial target is a multi-link OISL terminal with a minimum data rate of 5 Gbps over 1000 km.
- The de-risk phase aims to;
  - Design the OISL terminal and define the system requirements.
  - Demonstrate the proof-of-concept based on LRDC's recent breakthroughs in transceiver arrays and photovoltaic cell receivers.
  - Develop a collaborative follow-on phase with industry collaboration.
- Two follow-on phases are envisioned aiming towards flight testing of the OISL terminal.

Iman Tavakkolnia – it360@cam.ac.uk

CML Micro
COMMUNICATION SEMICONDUCTORS

RF and Microwave Active Components for Space Applications

Rob Smith

Product Line Director

rsmith@cmlmicro.com





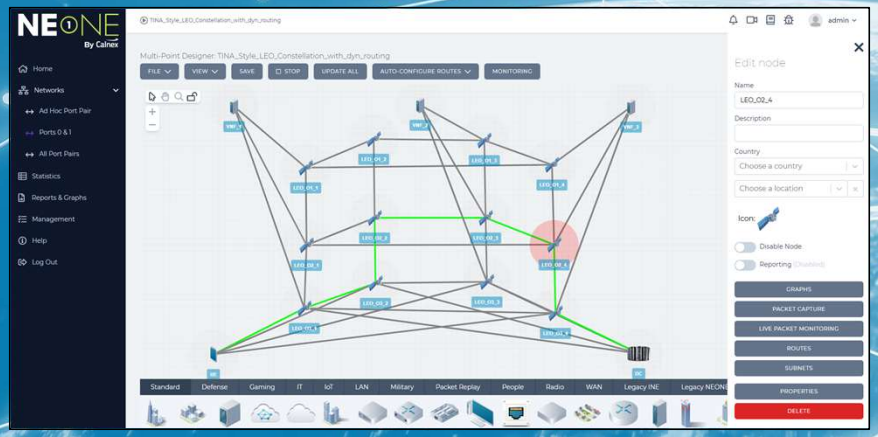


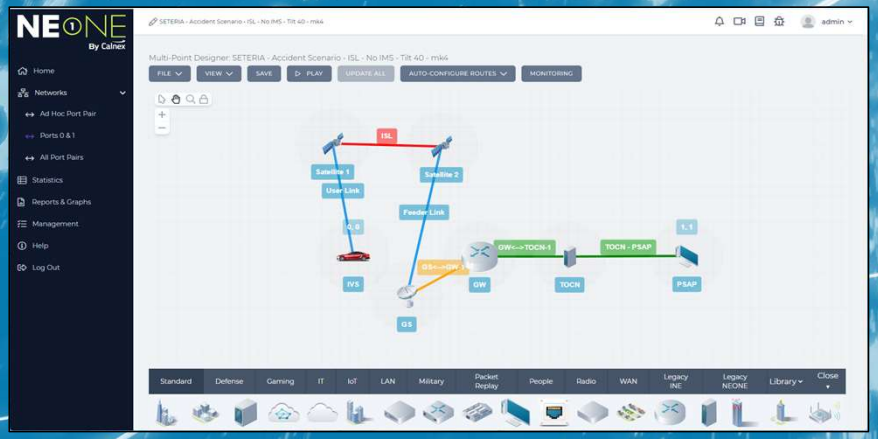

Advanced Integrated Technologies Limited

Turning Complexities into Simplicities

- *Calnex Satellite Network Emulators enable you to validate **real-time** downstream applications & service performance/resilience over all types of satellite networks.*
- *Replicate, **on-demand**, real-world dynamic conditions in a controlled, repeatable test environment.*
- *Reduce the need to use expensive live satellite networks.*
- *Used in defence, commercial and education sectors*

Calnex





SPACE-COMM EXPO EUROPE
in partnership with ADS

Thursday March 5th

11:40 - 12:10 | SPACE DATA CONFERENCE THEATRE

Validating Tomorrow's SatComs Services Today: ESA Project Case Studies with SAC & Calnex

DR ASHWEENI BEEHAREE

Head of the Ubiquitous Connectivity Department ,
Satellite Applications Catapult

FRANK PURANIK

Principal Technologist,
Calnex

Ask me for a free conference pass code – save £258!

calnexsol.com/satellite

Photo by Nataliya Vaitkevich: https://www.pexels.com/photo/white-and-brown-round-fruits-6275217/

Vito Di Pietro
Senior Industry Sector Manager – Space
TWI

Jon Hulks
Space Ecosystem Development Manager
UKSA

Simone Hartless
Head of Partnerships, Policy & Place.
Satellite Applications Catapult

Hugh Mortimer
Director of the National Laboratories
STFC

Paul Gibbons
Economic Growth Champion- AME
Cambridgeshire & Peteborough CA

Panel Discussion:
Accelerating Collaboration across the Ox-Cam Corridor

CONSTELLATION

Space Cluster Collaboration from Oxford to Cambridge and beyond.

UK SPACE AGENCY
HARWELL SPACE
SPACE EAST
Westcott Space Cluster
The Welding Institute | TWI

Vito Di Pietro

Senior Industry Sector Manager - Space

TWI

CONSTELLATION

Space Cluster Collaboration from
Oxford to Cambridge and beyond.

UK SPACE AGENCY

HARWELL SPACE

SPACE EAST

Westcott Space Cluster

The Welding Institute | TWI

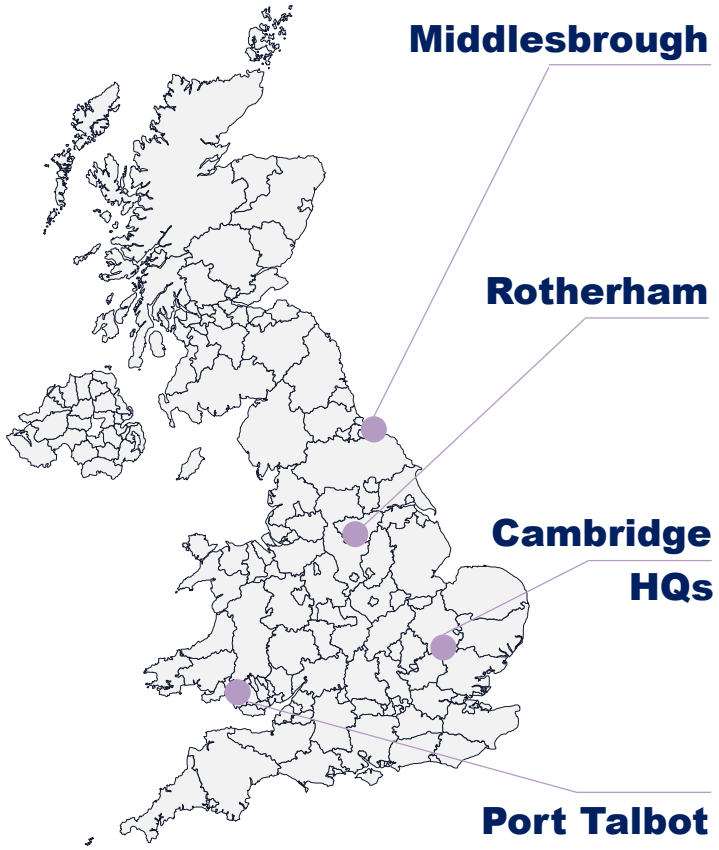
TWI work in the Space industry

Vito Di Pietro

TWI Ltd – Snapshot

Non-profit distributing, membership driven RTO

- 100 years of heritage
- 500+ Industrial Members
- 500+ staff globally
- 2000+ professional members
- 4 main UK R&D centres
- International presence



Our mission:

To provide our Industrial Members with authoritative and impartial expert advice, knowhow and safety assurance through engineering, materials and joining technologies.

TECHNOLOGY DOMAINS

Advanced Manufacturing Technologies

Arc Welding Engineering
Electron Beam Welding
Friction Welding Processes
Thermal Processes
Laser Welding & Cutting Processes
Laser Additive Manufacturing
Numerical Modelling and Simulation

Materials and Structural Integrity

Materials Performance & Ferrous Alloys
Corrosion Testing
Stainless Steels & Non-Ferrous Alloys
Asset Integrity Management
Fracture Integrity Management
Fatigue Integrity Management
Thermal Spray & Surfacing

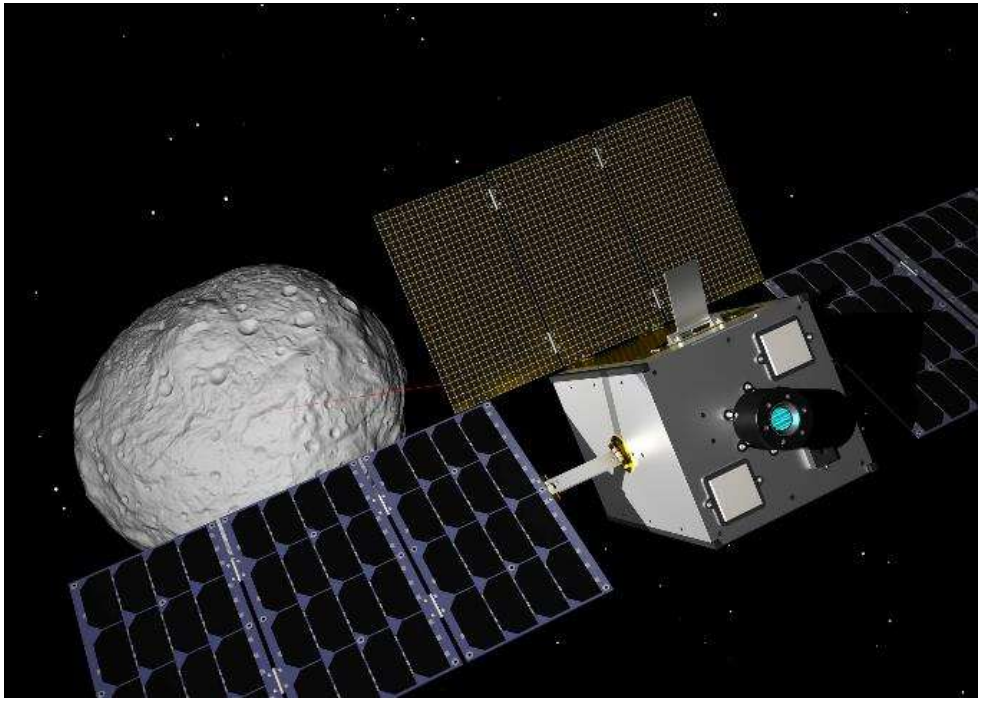
Polymer and Composite Technologies

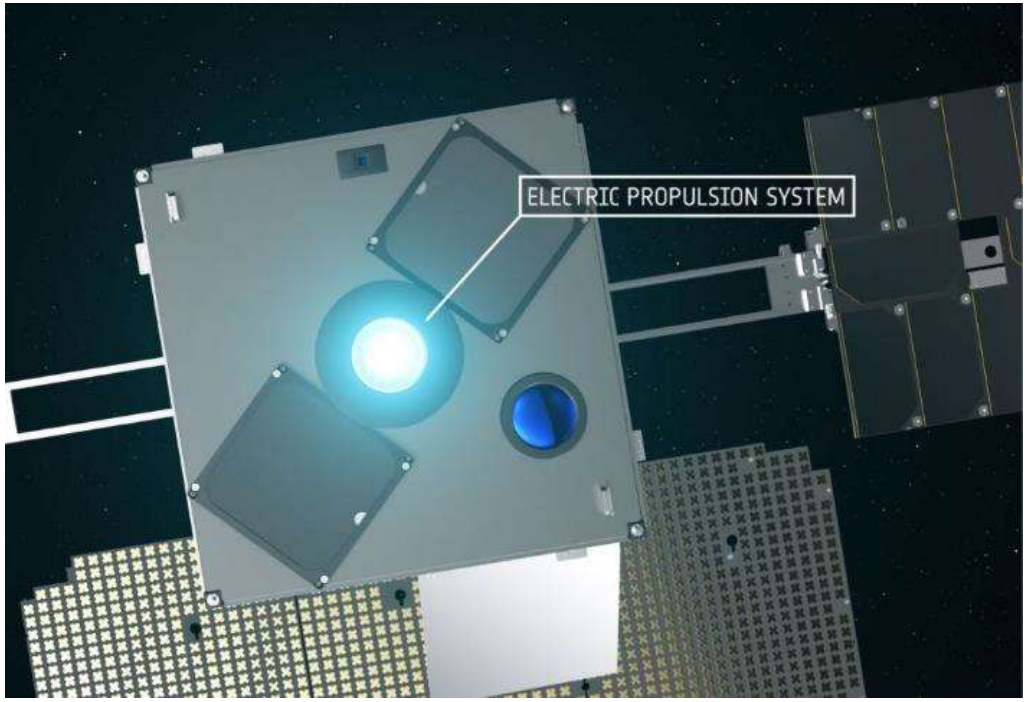
Polymers & Elastomers
Functional Coatings & Resins
Adhesives & Sealants
Composites

Non-destructive testing

Long Range Ultrasonic Testing
Non-Destructive Testing
NDT Validation
Condition & Structural Health Monitoring

M–Argo, the ‘Miniaturised – Asteroid Remote Geophysical Observer’, is ESA’s first stand-alone CubeSat mission for deep space.



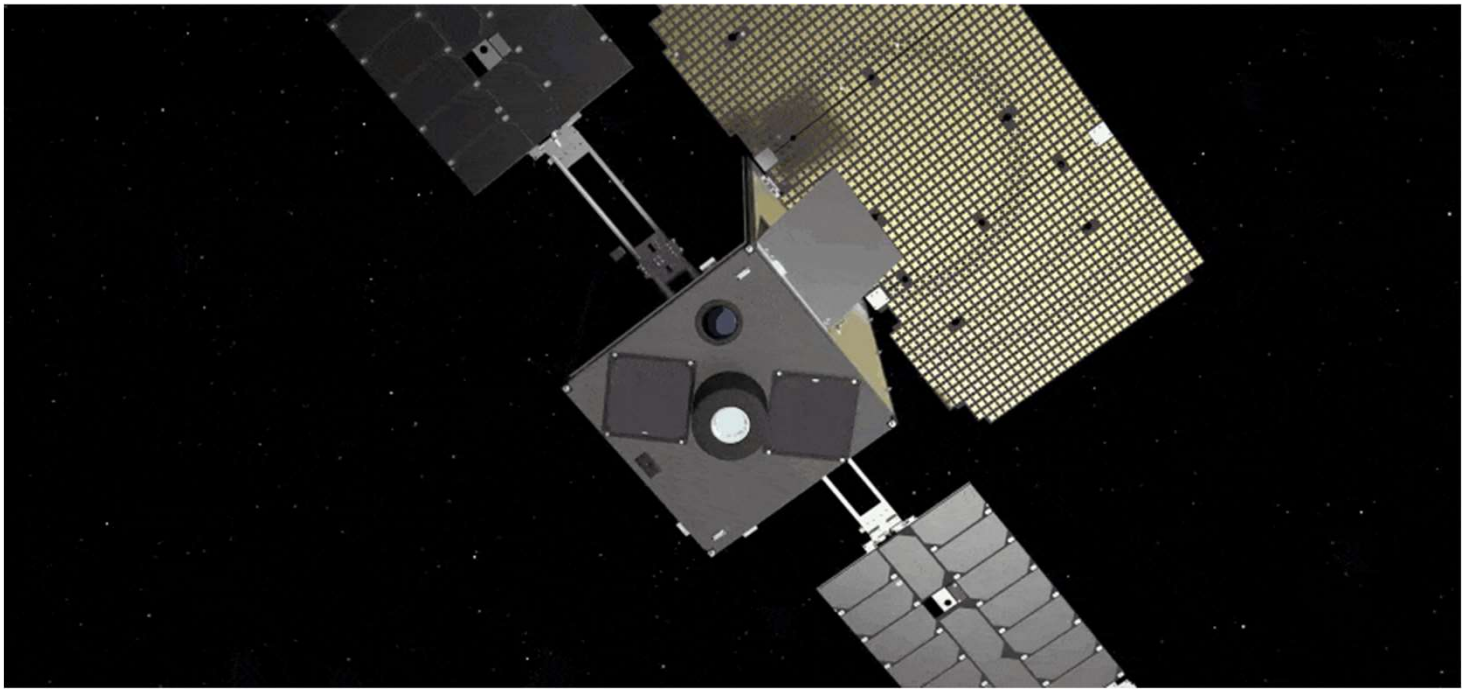


MARS SPACE LTD
SPACE AND PLASMA TECHNOLOGIES

TWI Industrial Member Mars Space Ltd is developing the propulsion system for M-ARGO and using TWI’s cold spray propellant tank technology

GOMSPACE

M–Argo, the ‘Miniaturised – Asteroid Remote Geophysical Observer’, is ESA’s first stand-alone CubeSat mission for deep space.

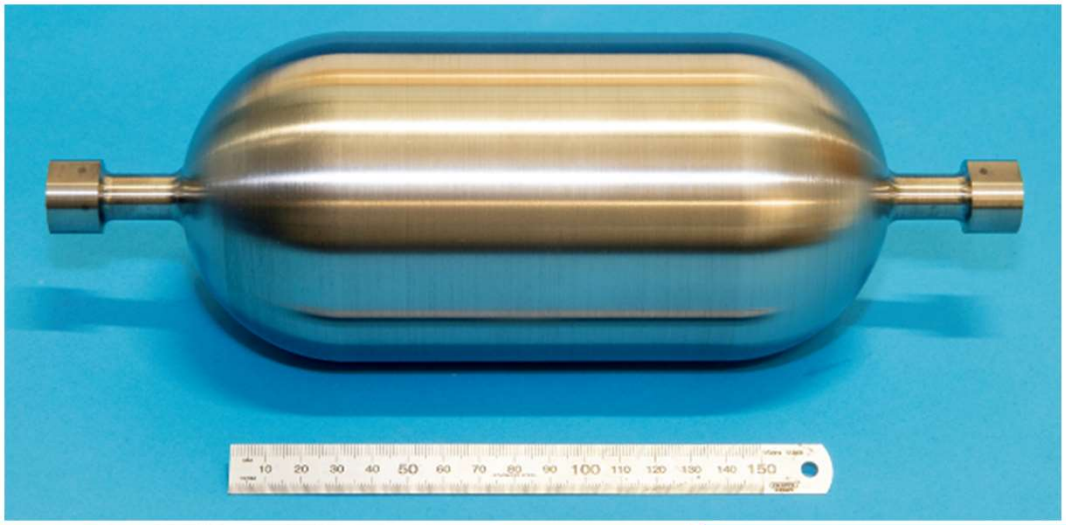


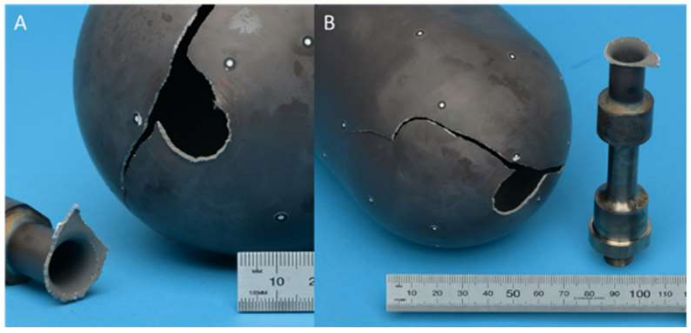
MARS SPACE LTD
SPACE AND PLASMA TECHNOLOGIES

TWI Industrial Member Mars Space Ltd is developing the propulsion system for M-ARGO and using TWI’s cold spray propellant tank technology

GOMSPACE

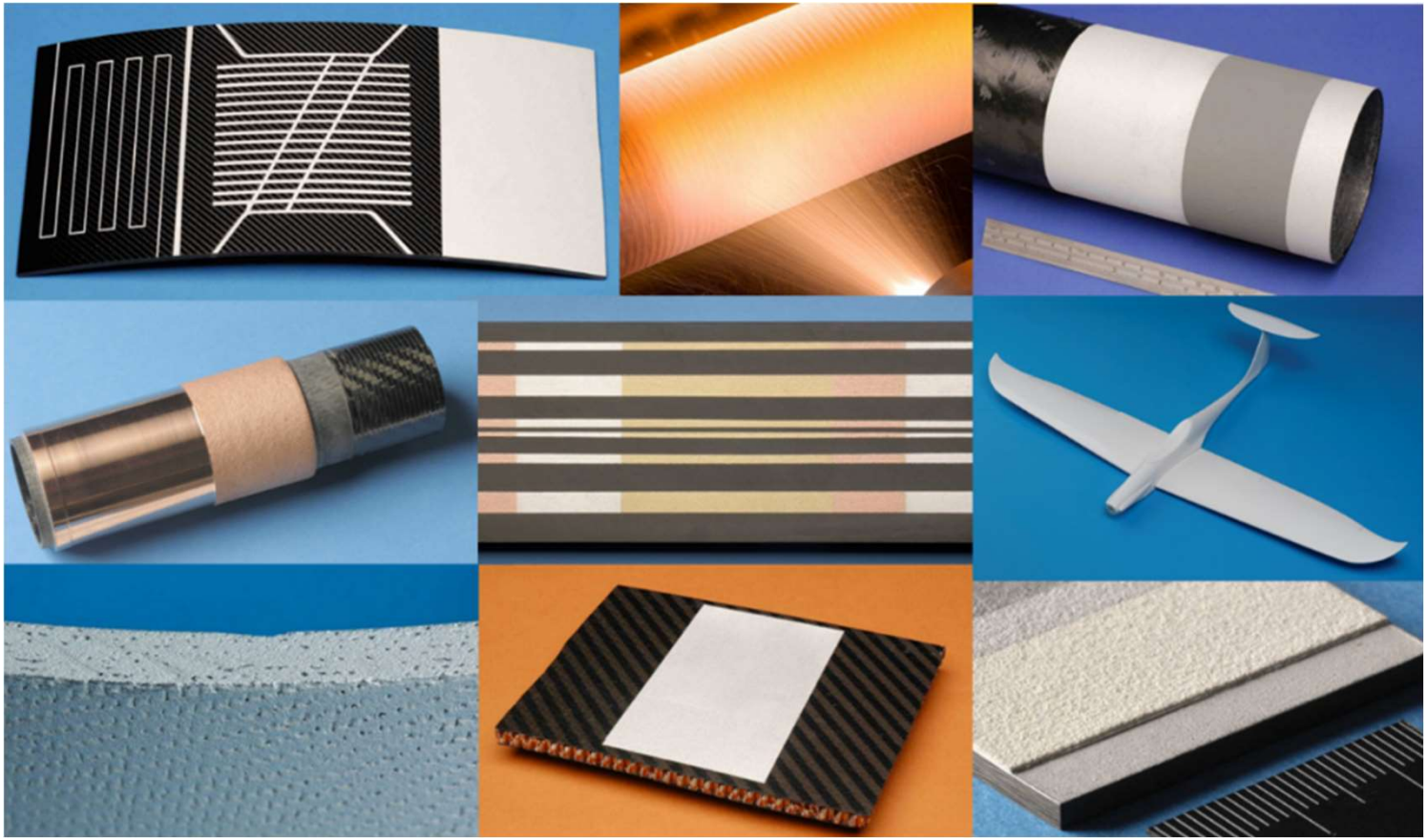
Cold Spray Propellant Tank Development for CubeSats

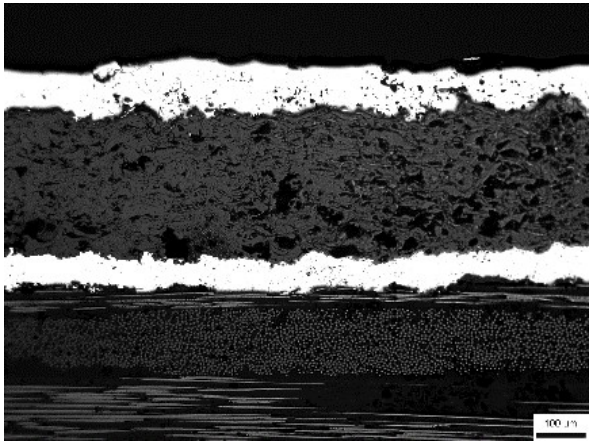


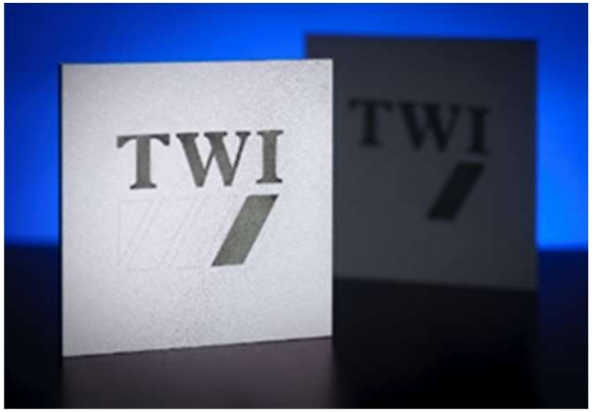


Lightweight radiation shielding solutions

Radtest Ltd



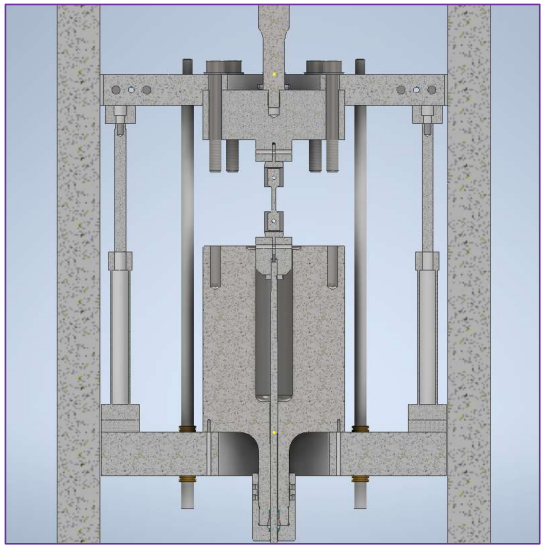




“ETHER”: Elevated temperature hydrogen embrittlement rig

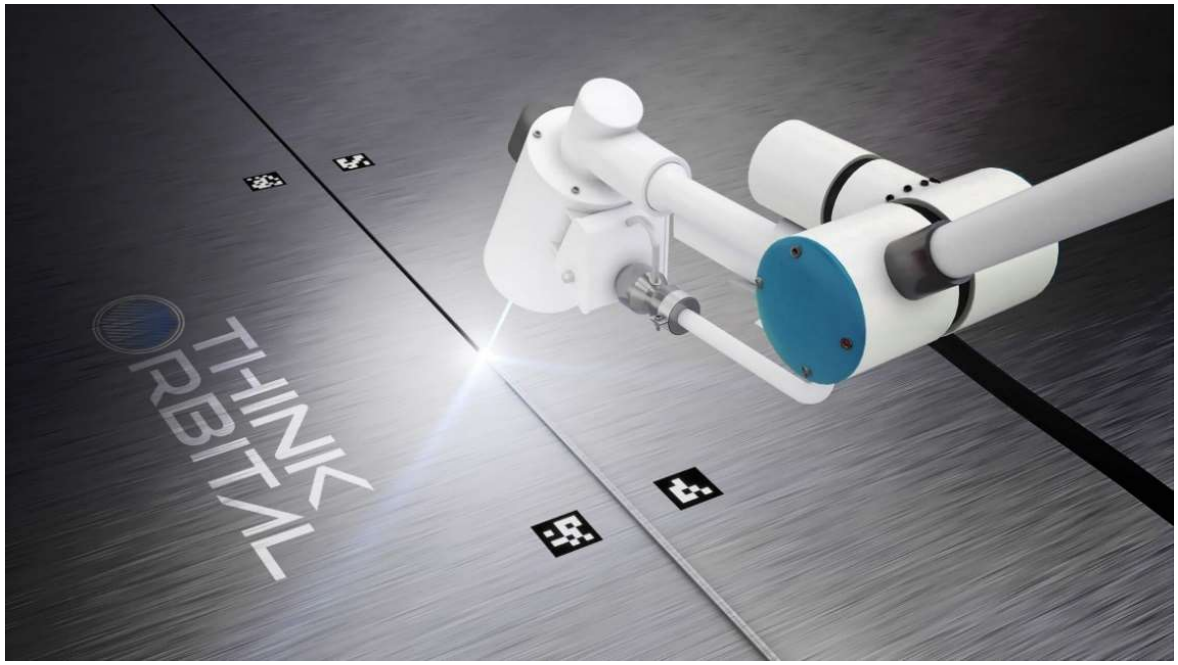
- Contracted by the European Space Agency and UK Space Agency
- Unique facility to help TWI Member companies to qualify components for high temperature hydrogen service.
- **Aiming to perform dynamic tests in H_2 gas at pressures up to 500 Bar and temperatures up to 425°C**
- 24 month development project, started September 2024

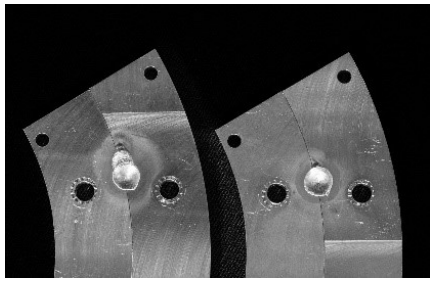
Cutaway view of vessel/load train



Preliminary design concept

In-space welding developments at TWI





- Further ESA GSTP contract to start in Q2 2026 to develop co-axial EB gun.
- UKSA funding in collaboration with Leicester University for developing space compatible arc-welding technologies.

YouTube video

THINK ORBITAL

I HAVE BEEN TO SPACE!!

Compact electron gun and focussing lens for remotely controlled in-orbit welding – a development by TWI for ThinkOrbital

The Welding Institute | TWI

Technical Excellence.

Vito Di Pietro

Senior Industry Sector Manager

Mob: +44 (0)78602 70150

E-mail: Vito.DiPietro@twi.co.uk

Dr Abbasi Gandhi
Business Development Executive
TWI

CONSTELLATION

Space Cluster Collaboration from
Oxford to Cambridge and beyond.

UK SPACE AGENCY
HARWELL SPACE
SPACE EAST
Westcott Space Cluster
The Welding Institute | TWI

The Welding Institute | TWI

esa

ESA COMMERCIALISATION GATEWAY

SPACE FOR BUSINESS
BUSINESS FOR SPACE

ESA Technology Broker - UK

Dr Abbasi Gandhi

Business Development Executive – Space Sector

ESA Technology Broker UK – Project Manager

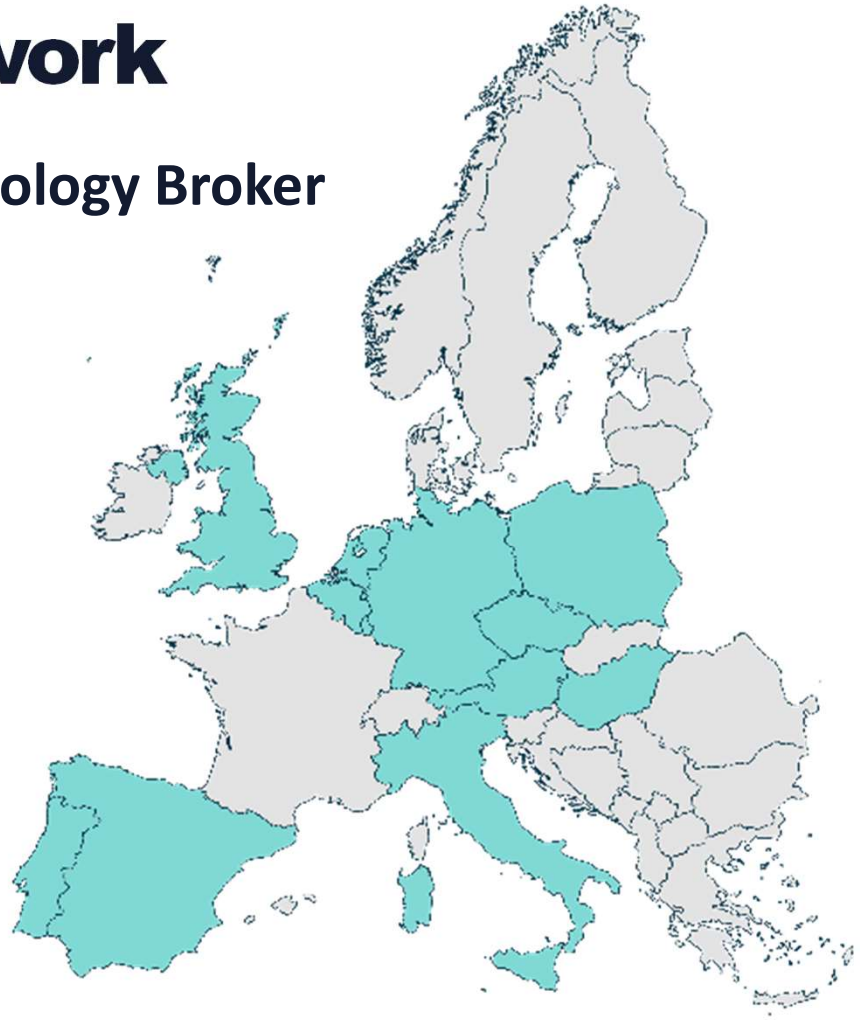
TWI Ltd.

ESA Commercialisation Network

- ESA BICs
- ESA Phi-Lab
- ESA Business Application Ambassadors

More info

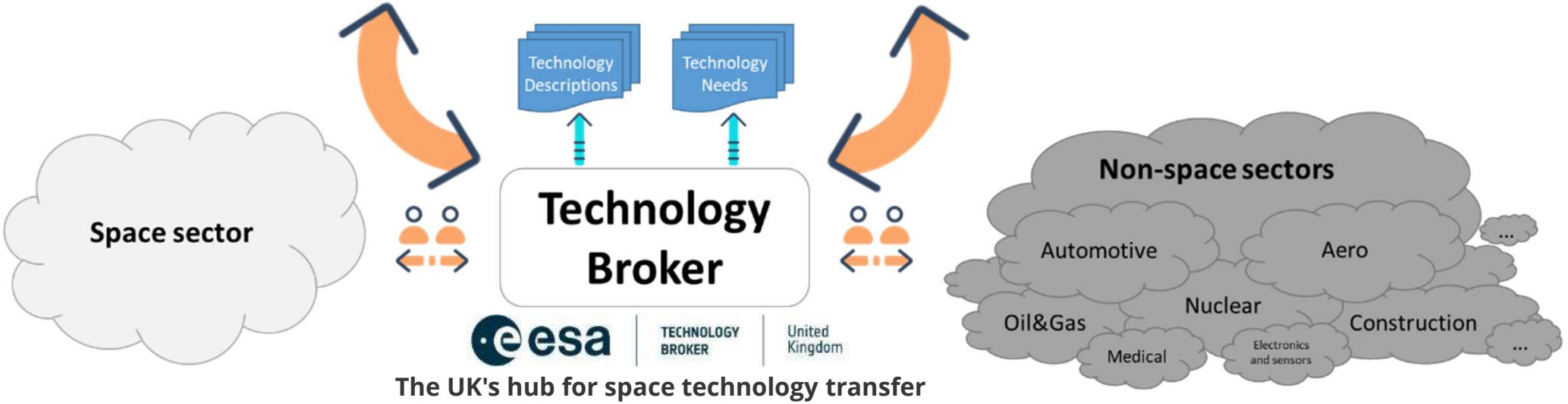
ESA Technology Broker



TWI is the ESA Technology Broker in the UK

- 15 regional space clusters
- UK space agency
- Space trade association
- Space digital communities
- ESA Commercialisation Network

- Industry trade associations
- TWI Industrial Members
- Other RTOs, universities and research entities
- ESA Commercialisation Network

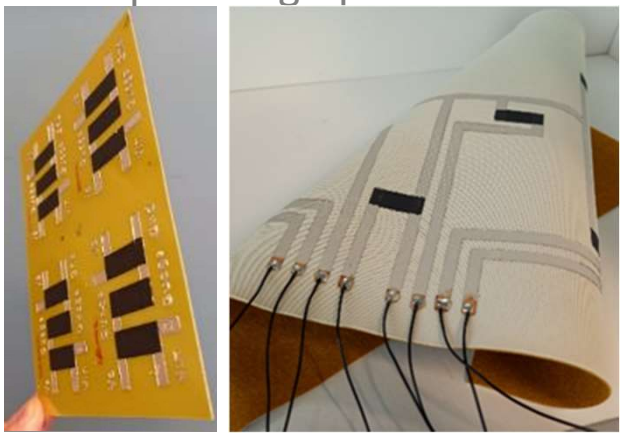


The UK's hub for space technology transfer

Technology Descriptions (examples)

DZP Technologies

Structural health monitoring and predictive maintenance using novel printed graphene sensors



- Structural health monitoring and digital twin sensors for composite spacecraft structures
- Monitoring of curing process of composite spacecraft structures
- Embedding sensor in CFRP winding of propellant tanks and struts
- Embedding sensors in deployable structures made of textiles and astronaut's spacesuits, including in stretchable and elastic structures
- Dexterous robotic manipulators including soft robotics
- Printed heaters

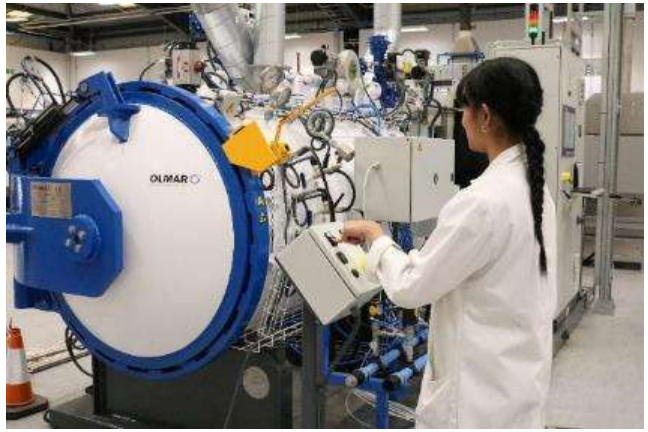
Deacon Innovations

Small scale, lightweight and high-accuracy turn-key bespoke robot integration solutions

- Assembly of propulsion systems
- Precision components placements in electronics and sensing
- Robotic manufacturing/inspecting features on composite panels
- Robot-assisted additive manufacturing
- Automation/handling scientific experiments on a space station
- Automated maintenance on space stations or space habitats. E.g. adjusting equipment or managing inventory in confined spaces
- Micro-scale astro-material curation

Lucideon

Ceramic Matrix Composites / Ultra High Temperature Ceramic Matrix Composites Development



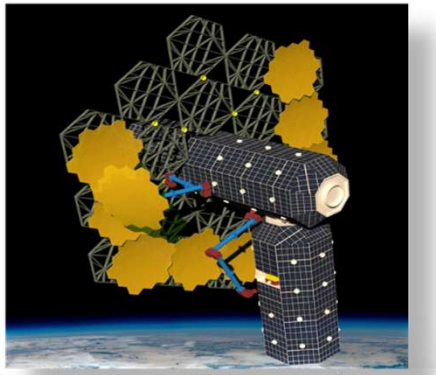
- Reusable thermal protection systems for hypersonic re-entry vehicles
- Combustion chambers and nozzles in rocket engines
- Lightweight structural components for spacecraft
- Radiators and heat exchangers for spacecraft thermal management
- High-temperature mirrors and optical components for space telescopes
- Nuclear thermal propulsion system components
- Ground infrastructure, including rocket test stands and launch pads
- High-temperature electronics and sensors for space environments

Technology Needs

- Challenges from industry. We collect from:
  - Companies in the space sector for spin-in
  - Companies in other industries for spin-out

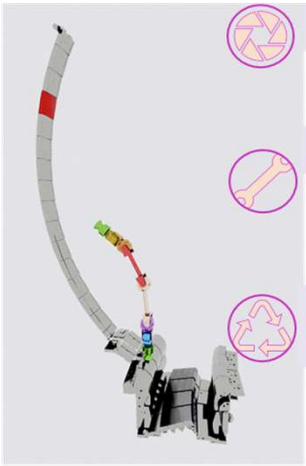
- Examples:
  - High-performance/low-power computing systems
  - Technologies for marking/labelling of composites compatible with space environments
  - Algorithms for error correction and fault tolerance
  - Data storage solutions compatible with space environment

Tech Transfer: Space Robotics to Fusion Robotics

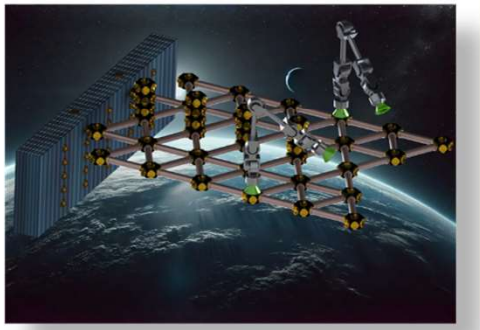


Large Aperture Space Telescope Assembly

UNIVERSITY OF LINCOLN
UNIVERSITY OF SURREY
AIRBUS DEFENCE & SPACE
OrbitRise - Innovation in Space -
SPACE SOLAR
RACE
UK Atomic Energy Authority

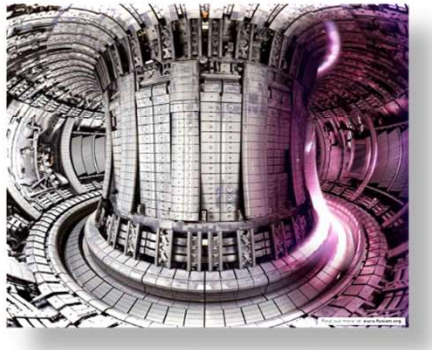


- In-Situ Inspection
- Remote Maintenance
- (Dis)assembly & Decommissioning



Space-Based Solar Power Truss Assembly

- End-Over-End Walking Robot (E-Walker)
- 7 Degrees of Freedom (DoF)
- B_{sc} and Truss to incorporate connector points
- 3D Workspace – Queen in the game of chess
- Access to available Connector ports



Joint European Torus (JET) Fusion Tokamak

dr_minicrai@orbitrise.co.uk

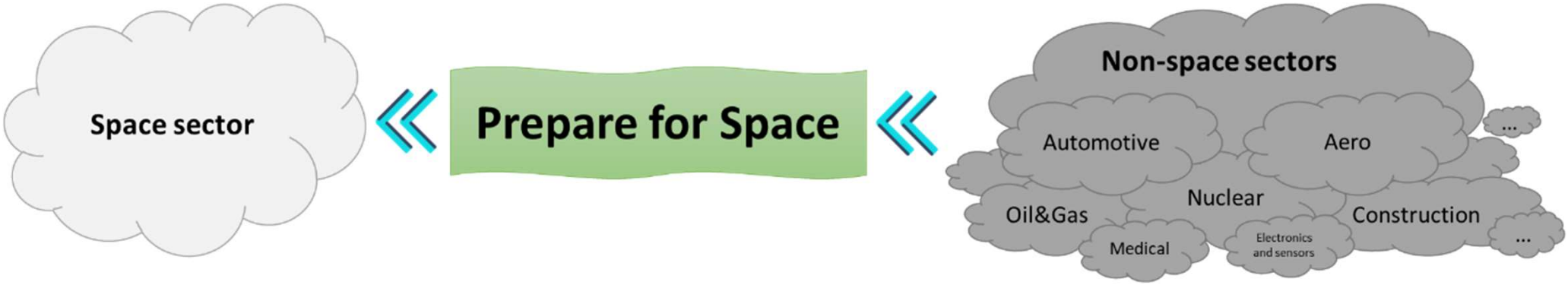
Design Engineering a Walking Robotic Manipulator for In-Space Assembly Missions. Manu et al. Frontiers in Robotics and AI, 2022
Fusion Robotics: Analysing Mobility Modes of an End-Over-End Walking Manipulator for Maintenance and Decommissioning. Sarah Reade et al. TAROS 2025

Prepare for Space

Aim: to support and encourage the entry of new companies and organisations in the United Kingdom to the space industry to ensure that technological innovations from other market verticals can provide benefit to the commercial agenda of the Agency.

Eligibility criteria:

- Primarily targeted at SMEs or larger entities new to the space market.
- To be a legal entity registered under the laws of the United Kingdom.
- To be headquartered in the United Kingdom.



Examples of Services for Prepare for Space

BUSINESS SERVICES

Market Analysis

Business Case Development

Long-term Coaching

Funding Guidance

Networking Opportunities

Marketing as a Service

TECHNICAL SERVICES

Technology Assessment

Space Qualification

Prototyping and Testing

Collaborative Research

Technology Transfer Guidance

Training and Workshops

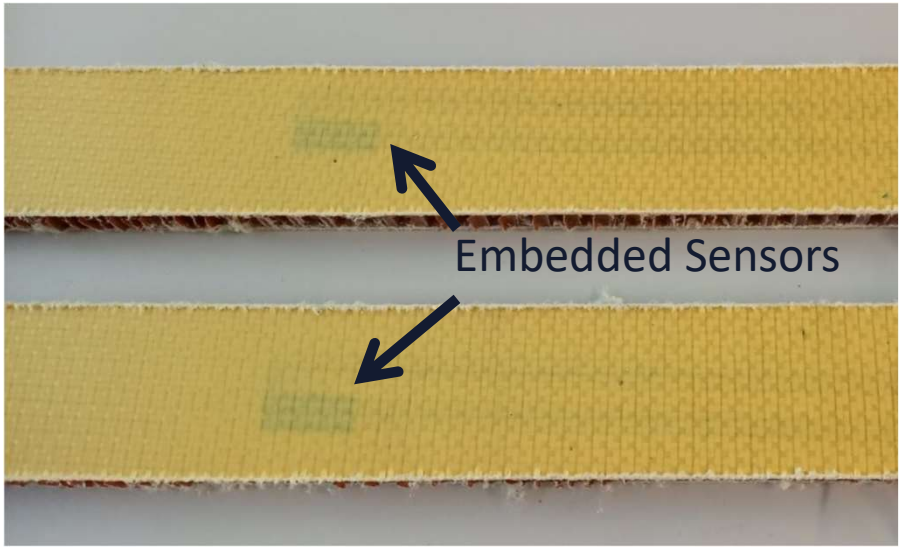
Prepare for Space – DZP Technologies

Main outcomes:

- Reviewed the capabilities and skills of the company and assessed their relevance to the space sector.
- Identified one specific technology (multi-functional graphene sensor for monitoring composite materials) which appears to be most relevant and promising.
- Helped company to focus on one specific opportunity (among many others) and develop a strategy about how this opportunity can be addressed.
- Successfully carried out prototyping using TWI facilities, producing demonstration samples which show how graphene sensor technology can be used in the space sector, for monitoring the cure process of composites during manufacture, and for structural health monitoring during service life of the composite part.

The trials have shown how DZP technology can be implemented in real life manufacture, and how it can be used to provide functionalities which are impossible by other means.

During project we also reviewed different funding programmes run by ESA and identified OSIP as the most suitable next step towards commercialisation, in terms of both technical development and the development of strategic business partnerships to commercialise innovation.



Graphene Sensors Embedded in the skin of Aramid Honeycomb structure

"The support from TWI was very useful and helped our company understand better the business opportunities in the space sector; as well as understand better how ESA works. The support was very professional and TWI clearly had the capabilities, knowledge and skills to provide high quality and high impact advice and support specific to our company."

Zlatka– CEO, DZP Technologies

Application Process for Prepare for Space

Open Call

Next steps

- **Do you have a product, service or technology with potential to spin into the space industry or to spin out?** Get in touch with us now

- Prepare for Space Open Call is open for submission! Arrange a meeting with us

esa TECHNOLOGY BROKER | United Kingdom

More info

OFFICIAL WEBSITE

www.esa-technology-broker.co.uk

LINKEDIN SHOWPAGE

https://www.linkedin.com/showcase/esa-technology-broker-uk/

More info

THANK YOU

Engage with the future of space manufacturing

Dr Abbasi Gandhi

ESA Technology Broker UK - Project Manager
TWI Ltd.
Mob: +44 (0)7525 910546
E-mail: abbasi.gandhi@twi.co.uk

Web: https://www.twi-global.com

Generic enquiries:
contactus@esa-technology-broker.co.uk

For over 100 years, our customers have trusted us to deliver...

Technical Excellence.


HARWELL 11TH MARCH
TOURS
CONSTELLATION
Space Cluster Collaboration from
Oxford to Cambridge and beyond.
UK SPACE AGENCY
HARWELL SPACE
SPACE EAST
Westcott
Space Cluster
The
Welding
Institute
TWI

HERTS & MINDS:

EXPLORING OPPORTUNITIES IN THE SPACE & DEFENCE SECTOR AT THE UNIVERSITY OF HERTFORDSHIRE

31.03.26 SPECTRA BUILDING. UoH. HATFIELD

HERTFORDSHIRE FUTURES

SPACE EAST

University of Hertfordshire UH