

Satellite Applications

Innovation at Harwell

Challenging the barriers to growth

Paul Febvre, Chief Technology Officer

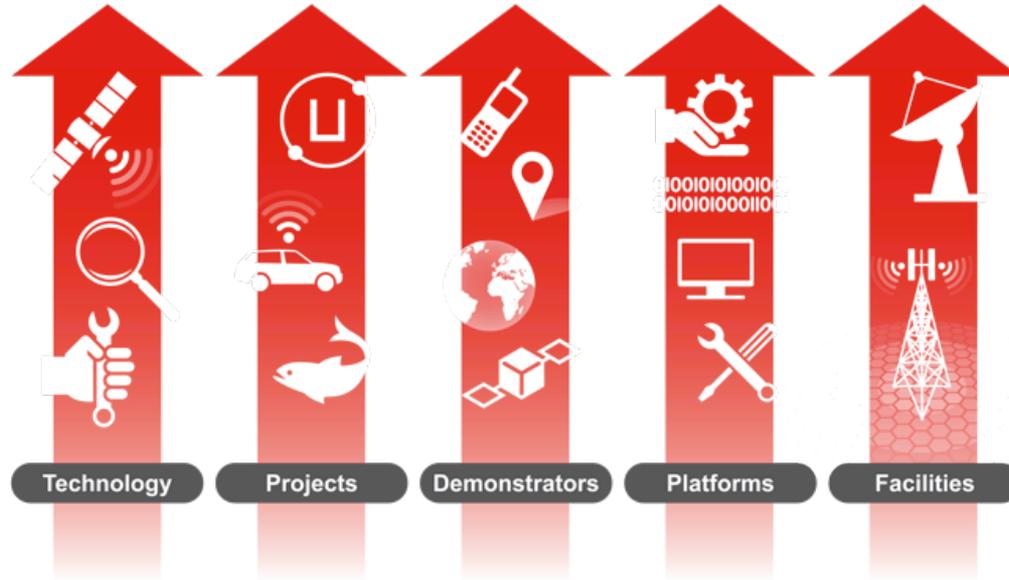
08 December 2017

We work with
Innovate UK

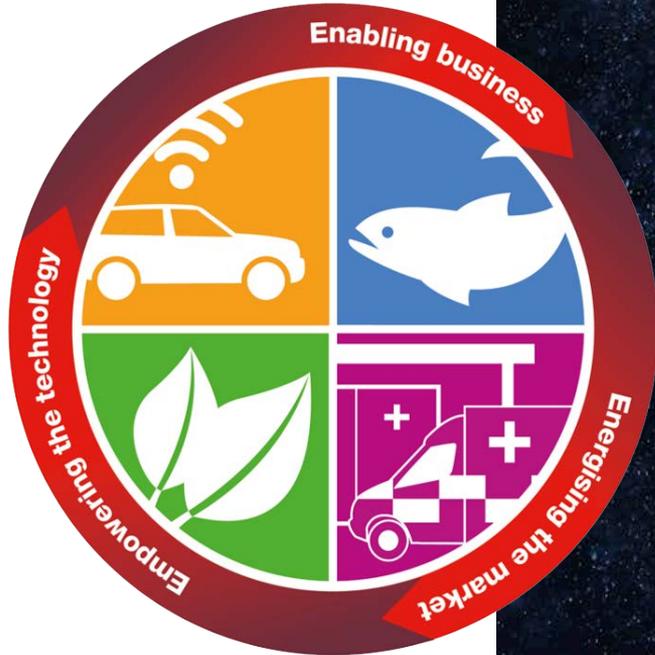
CATAPULT

The Pursuit of Impact

£40 billion



Opportunities for growth in global markets



Emerging Technologies: Underpinning Future Satellite Applications

Wireless Communications

Advanced Satellite Constellations

- Platforms & Payloads
- Device Technology
- Ground Segment Operations
- Novel Mission Concepts



Mobile Connectivity and Positioning Systems

- Advanced antenna
- 5G Hybrid Networks
- Semiconductors & Devices
- Novel PNT Concepts
- Hybrid Devices (IoT)



Digital Intelligence

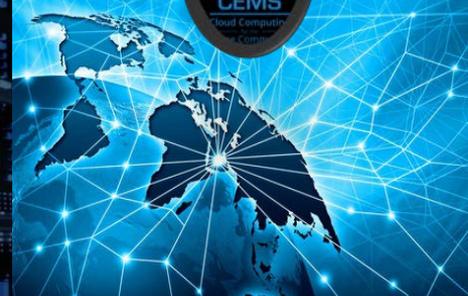
Robotics and Autonomous Systems

- Artificial Intelligence
- Autonomous systems
- Novel sensors and data processing architectures
- Multi Platform Operations (UAVs & HAPS)



Smart Geospatial Systems

- Computing architectures
- Geo-Visualisation
- Geospatial Media
- Edge & Fog Computing
- Data refinement
- Cyber Security



IOD supports space-enabled services empowered by new technologies

The programme offers regular
opportunities for new missions

IOD 1-4: 3U cubesat platforms
next opportunity
10 Jan 2018

IOD 5 : 6U platform
final selection:
15 Feb 2018



IOD

Innovate UK

CLYDE
SPACE



CATAPULT
Satellite Applications

IOD Mission 1

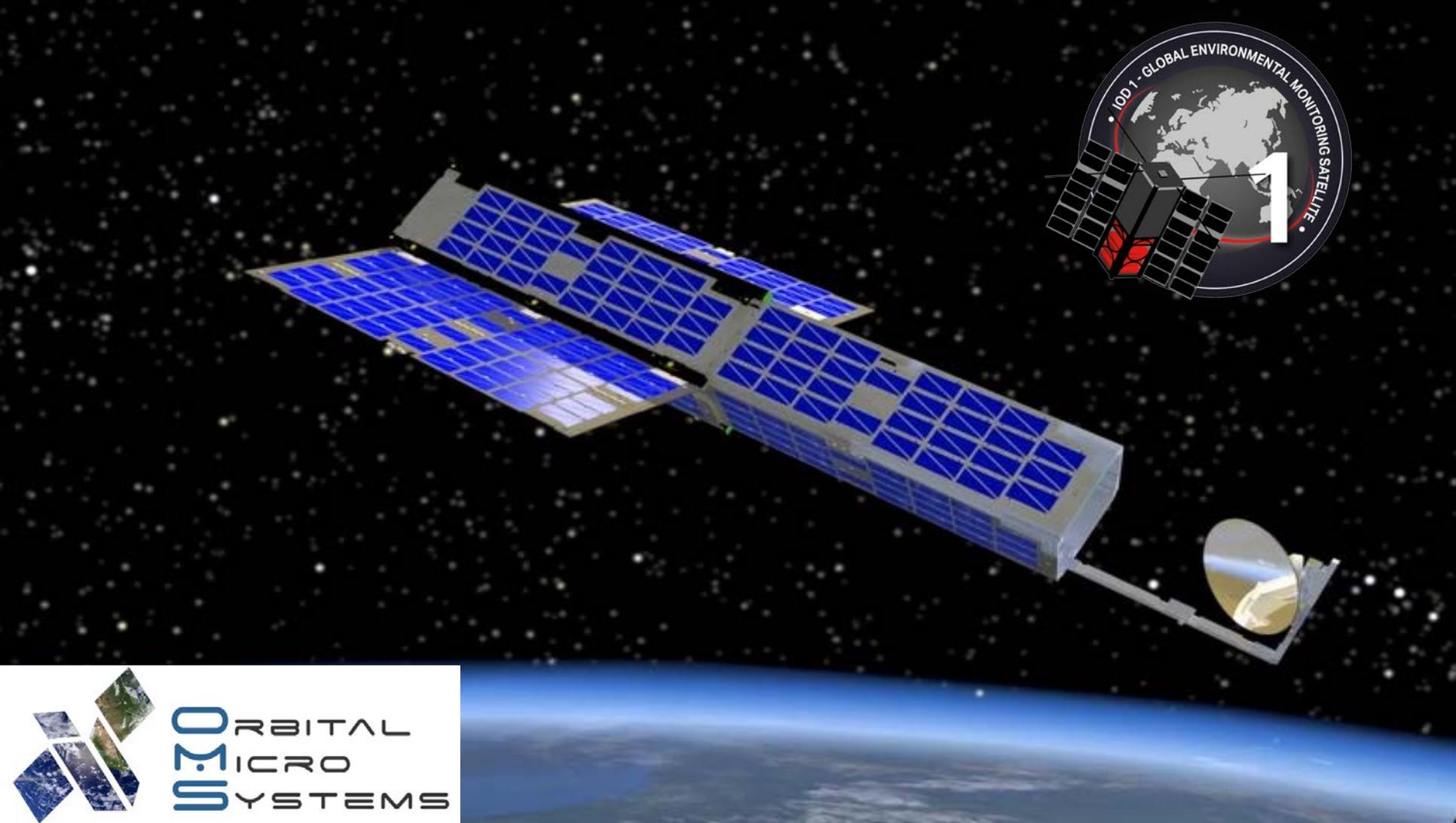
“An innovator with a bright idea could see their concept realised and working, in space, within 16 months.” Stuart Martin, CEO Satellite Applications Catapult



ORBITAL
MICRO
SYSTEMS

**Global Environmental Monitoring Satellite
Weather Observing and Forecasting Technology**





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