

BSGN

Business in Space Growth Network

Advanced Materials and In-Orbit Manufacturing Accelerator

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Satellite Applications Catapult

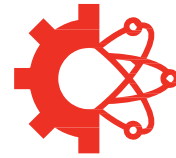


The Satellite Applications Catapult in Numbers



£700.3M

Total Private Sector Funding
Secured By Supported Companies



508

Industry
Collaboration
s



836

SMEs
Supporte
d



111

Internation
al Projects



Over

£15M

Of Research and
Development
Facilities



242

Academic
Collaboration
s



200

Employee
s

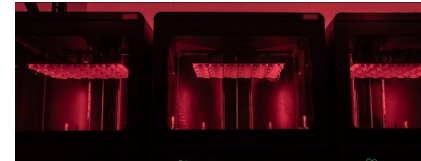
A European-wide multidisciplinary accelerator dedicated to new materials and in-orbit engineering solutions

Accelerator at a glance

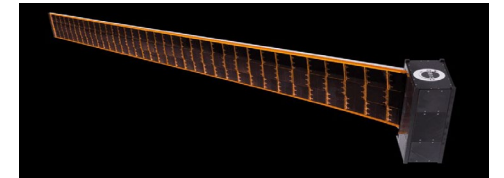
Generates, co-funds and de-risks commercial projects developing breakthrough materials and manufacturing solutions using in-orbit R&D and microgravity engineering platforms.

Current project portfolios

Photocentric



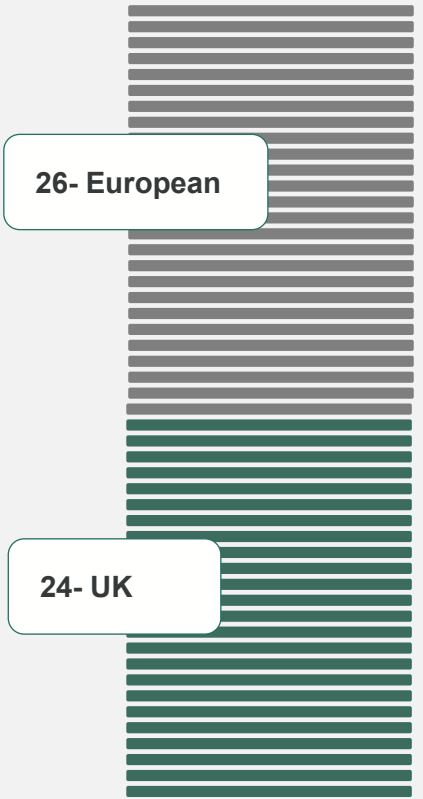
Developing an in-space R&D and production unit for space stations, capable of manufacturing silicon carbide components.



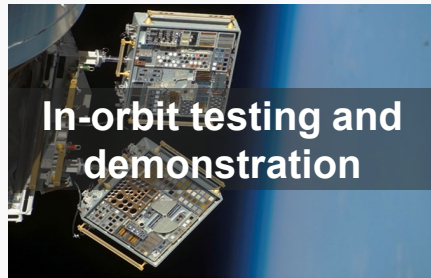
Integrating in-orbit manufactured solution in production of roll-out solar arrays for LEO spacecrafts and small satellites.

Advancing capabilities and commercial applications of in-orbit manufacturing and microgravity R&D

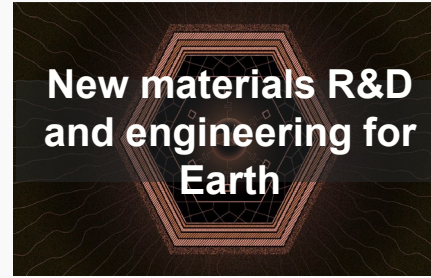
Recipient of **50** technology development proposals in Phase 1



Four diverse yet interrelating segments of interest



- Testing and qualification of new materials, components, subsystems –“space heritage”



- Microgravity R&D on speciality chemicals, novel materials and processing technologies
- E.g. Space-grade semiconductors



- Multipurpose in-orbit R&D and production facilities
 - Furnaces, combustion reactors, 3D printers, thin film deposition facilities and etc



- Manufacturing of large structures for enabling new in-orbit infrastructures
- Innovative utilisation of ISM in enabling new or improving of existing applications

Priority areas for the accelerator

The commercial opportunities for In-space R&D and production will evolve rapidly with the expansion of the supply chain in the coming years



Thank you

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