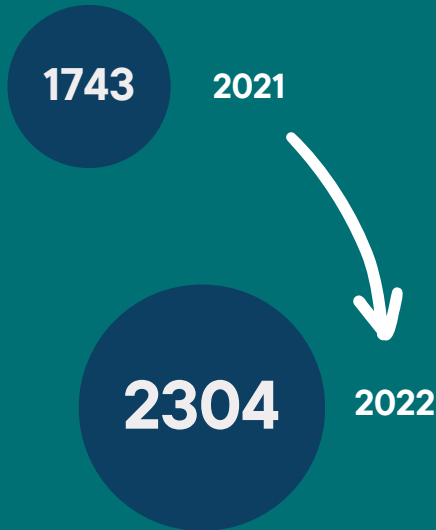


THE NEED



THE SOLUTION

Smallsats
94%
Of the overall market



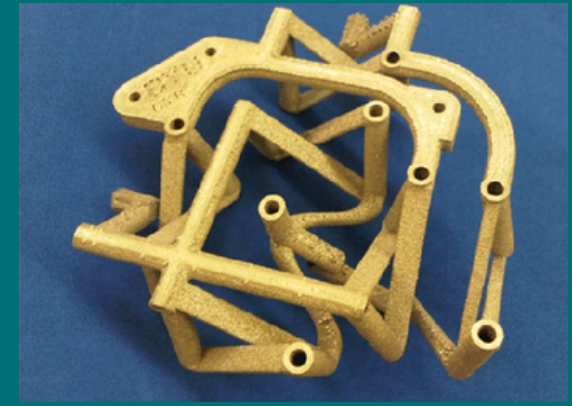
Smallsat Limitations:

- Mass
- Volume
- Multiple thrusters

Achieving thrust vectoring with a compliant mechanism, where pointing is attained through elastic body deformation.

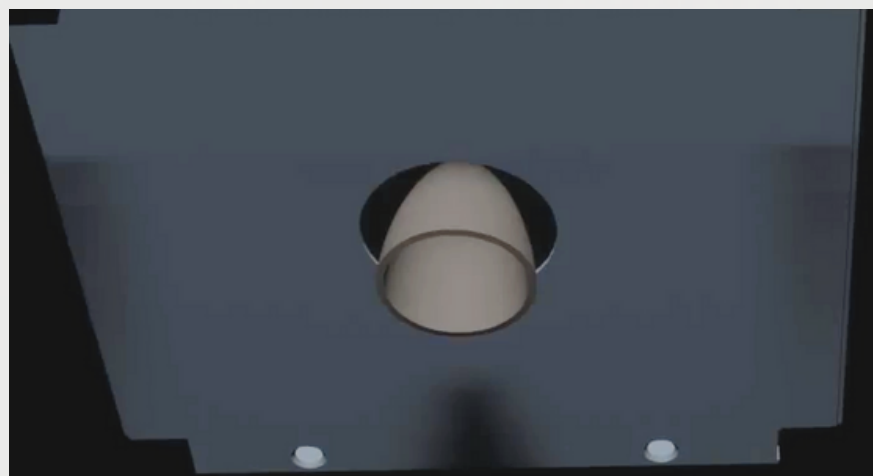
Advantages:

- Lower mass and volume
- Increased reliability due to fewer numbers of parts
- Increased precision and accuracy due to frictionless motion
- Easily scalable to fit to different satellite sizes
- Reduced costs



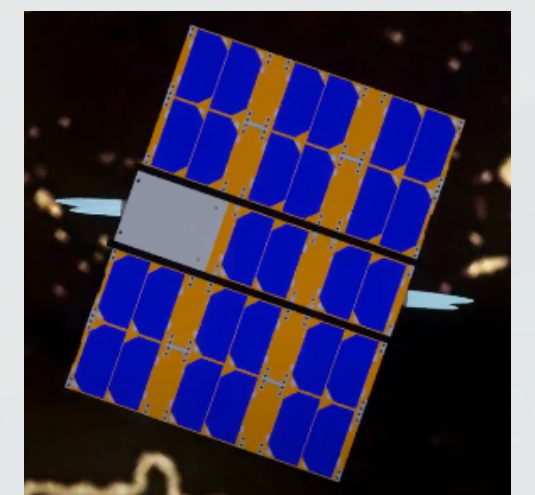
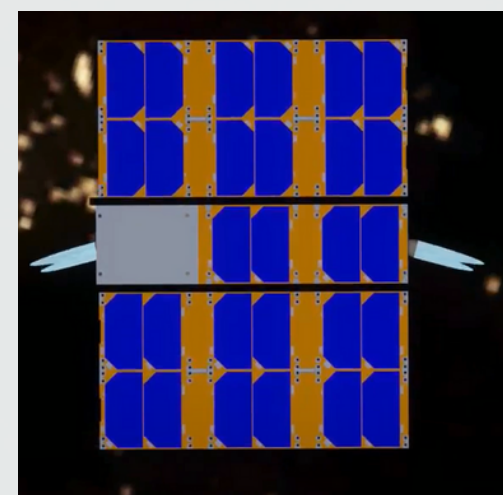
META FLEX

A novel attitude and orbit control system tailored for Smallsats



A single compliant gimbal mechanism can replace the standard 4-thruster setup often used for orbit transfers.

By actively moving two thrusters we unlock capabilities that traditionally required 8 thruster systems.



In addition, our technology can be implemented in other applications such as sensor pointing, center of gravity adjustments, station keeping, and numerous other space applications.

MARKET

UK SPACE SECTOR IN 2020/2021

£17.5B

SPACE MANUFACTURING

£2.15B

ANNUAL GROWTH

4.8%

POTENTIAL CUSTOMERS

SmallSats integrators:

OneWeb

Surrey Satellite Technology Ltd.

COMPETITORS

Issues:

Other attitude control systems for Smallsats:

Clyde Space
CubeSpace

- Reaction wheels mechanisms
- Limited orientation control
- Sliding parts

Similar design:

Moog's Gimbal thruster

- For large spacecraft
- Sliding parts

TIMELINE



THE TEAM



Fabrizio Pisani

Pedro Rodriguez

Elena Carulla

Aleks Tammiksaar

Marcin Badowski

Nestoras Papageorgiu