

Space South Central Advisory Board Terms of Reference – 27th September 2023 (Catering for Board representative name changes only)

Background

The global nano and micro satellite sector is projected to grow from \$2.6bn to 13.9bn by 2030. The Surrey and Hampshire regions are home to up to 25% (£4.2bn) of the UK's current Space business turnover. However, the sheer breadth of activity and the lack of a clearly defined "centre" has proved a barrier to efficient coordination of this activity and to promoting more effective links with other UK regions.

To fill that gap we have formed a new space cluster, Space South Central. In fact, Space S-C builds heavily on the foundations of the South Coast Centre of Excellence in Satellite Applications (SCCoE) and the Enterprise M3 Space Hub and these two pre-existing initiatives have been merged to form Space S-C. The extra efficiencies which will be gained by this merger, as well as the extra resources which will be added to crucial areas such Space Missions and Skills, will have a positive impact in achieving the Space sector growth targets set out in the National Space Strategy.

This initiative is being spearheaded by three Universities with significant Space expertise, the Universities of Portsmouth, Southampton and Surrey. Working together with industry, LEPs, and County Economy representatives our overarching goal is to generate the cohesion needed to fully deliver regional and national Space priorities, creating new opportunities for international partnerships and playing an integral role in coordinating the training necessary to fill the skills gap. The Space South Central partnership has been endorsed by the UK Space Agency, Satellite Applications Catapult, Airbus, UKSpace, SSTL and other important regional organisations. The combination of these factors places the region the strongest position it has been in for many years to capitalise on its long track record in Space.

Purpose of the Space South Central Advisory Board

Plans for Space South Central have been discussed with the UK Space Agency and the Satellite Applications Catapult regional team to dovetail with wider national strategy and focus on seven main objectives listed below. The Space South Central Advisory Board will help translate these objectives into actions relevant to the region, promote strategic regional coherence, set priorities and provide direction to ensure objectives are delivered. The underlying objective is to increase economic growth, inward investments, private financial investment and the take up of skills relevant to the space sector. The Board will also help coordinate collaborative bids for funding, particularly bids aligned with the National Space Strategy and UKSA priorities (see Annex 1).

1. **Mission Capabilities** Ensure that UK scientists and entrepreneurs have access to end-to-end capabilities and the support that they need, to go from initial idea to completed project.
2. **Skills** Demonstrate best practices in inclusion, diversity, recruitment, retention and training to make space careers as attractive and rewarding as possible.
3. **Outreach** Connect, educate and inspire people of all ages and backgrounds so that we all appreciate the value of space in our everyday lives.
4. **Sovereign Capability** Strengthen space-related supply chains to make UK space activities resilient to external threats while protecting national interests.
5. **Levelling Up by Promoting Growth** Use our knowledge and expertise to increase growth across Space South Central to maximise economic benefit for the UK from its largest regional space cluster. To collaborate with other regions and create prosperity across the nation.
6. **Maximising Service Capabilities** Enable the growth of new downstream space application opportunities and boost space-derived revenue.
7. **Securing International Partnership and Private Investment** Proactively create collaboration opportunities and develop mutually beneficial relationships with partners abroad as well as leveraging more effectively on the region's potential to raise private investment.

Structure of the Advisory Board

Members of the advisory board are to be drawn from industry, regional organisations, national bodies and academia to represent the balanced mix of skills that will be required to drive regional innovation in the fast moving and highly complex Space sector. Space South Central aims to be “institutionally agnostic” which is to say to always act in the interests of the wider region.

To achieve this balance, as a minimum, the board will comprise directors from the Centre for Space Missions (CSM), Surrey Space Centre (SSC), Space at Southampton (SAT), Space South Central Enterprise Network (SSCEN), representatives from LEPs, counties, industry (both primes and SMEs), a Further Education representative and an international advisor. In addition, the Universities will nominate a member of their management team with senior oversight of institutional strategy and finance. We will also offer a standing invitation to a representative from the UK Space Agency and/or the Satellite Applications Catapult and UK Space. The appointment of new board members will require approval from existing members. An external Chair with requisite profile will be identified and recruited by the Advisory Board with a tenure to be agreed.

Board Membership selection criteria

It is imperative that the Board has members covering the full range of experience, skills and insight derived from backgrounds in space research/innovation/strategy and commercial/industry together with regional growth, inward investment and skills development. For example, required capabilities might include one or more of:

- Senior responsibility within/across one or more regional or national organisations
- Expertise in Space technologies, research and innovation
- Relevant businesses that might provide insight into the needs of SMEs
- Deep sector knowledge for specific Space industries
- Inward investment and international trade expertise

Board Responsibilities

- Ensure strategic coherence between CSM, SSC, SAT and SSCEN (see below), define long term vision and strategy and approve proposals for new activity.
- Members will serve 3-year terms, with the option to serve additional terms with approval of other Board members.
- Meet at four to six month intervals, depending on volume of activity. To meet ad-hoc, on line or in person, if required to respond to an unexpected priority, as agreed by a majority of the Board.
- Set up Working Groups to focus on areas of particular priority.
- Set monitor and review impact/KPIs.
- Support operational team in developing resources to continue to grow activity.

Additional Information

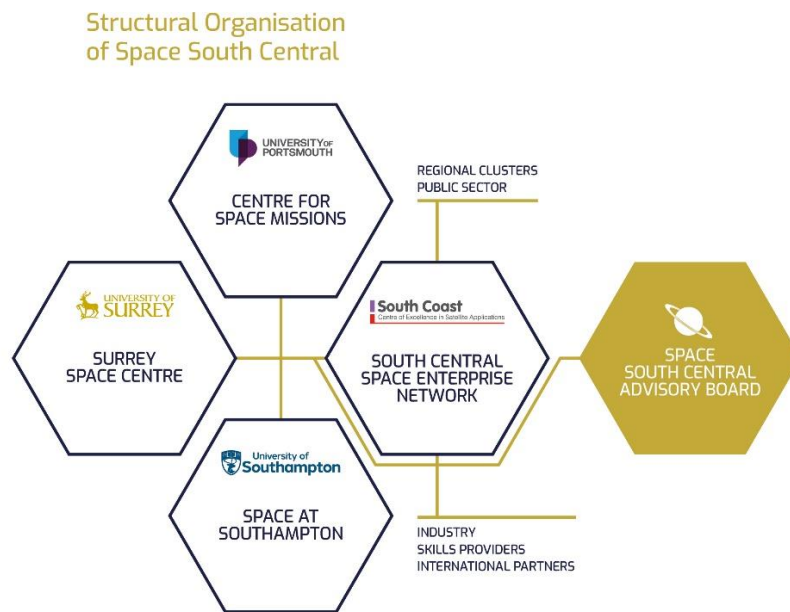
In addition to the Advisory Board, Space South Central will have three other elements:

South Central Space Enterprise Network (SSCEN) Given the strong synergies between the SCCoE and the EM3 Space Hub, it made sense to combine the two initiatives to form South Central Space Enterprise Network, which will promote partnerships with other regional clusters, be a focal point for understanding regional capabilities and act as an effective first point of contact for the region and for national and international stakeholders.

Centre for Space Missions (CSM) Portsmouth’s Institute of Cosmology and Gravitation (ICG) will lead the establishment of a new research centre at the University of Portsmouth called the Centre for Space Missions.

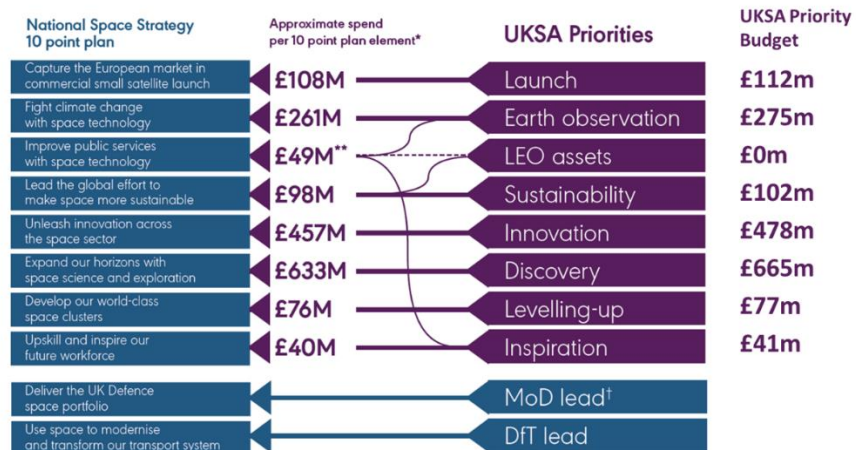
Surrey Space Centre (SSC) The Surrey Space Centre has a long history in delivering innovative engineering solutions to complex space challenges. In the proposed structure SSC will coordinate closely with the newly established CSM to accelerate the development of the next generation of satellites.

Space at Southampton (SAT) Breaking new research ground in the space arena; whether in space weather, spacecraft design, integrating quantum technology, data analytics for informing approaches to environmental change or space based solar power; while growing our national and international space collaborations with industry.



Annex 1

UKSA Budget vs 10 point plan



The breakdown above is indicative and does not exactly map Agency priority budgets.

Advisory Board Members and Alternates – 27th September 2023

- **Airbus Defence and Space (Two members)**
Roy Haworth
Simon Rose
- **UKspace**
Colin Baldwin
- **SSTL**
Zoë Bowden
- **In-Space Missions**
Doug Liddle
- **Farnborough Aerospace Consortium (Two members)**
Alan Fisher
Kim Yeomans
- **Hants County Council**
Michelle McClean
- **Surrey County Council**
Nicholas Royal
- **Enterprise M3 LEP**
Chris Burchill
Merida Cable-Lewis (Alternate)
- **Solent LEP**
Darren Coventry
- **University of Portsmouth**
Centre for Space Missions
Prof Adam Amara
- **Portsmouth Centre of Excellence in Satellite Applications**
Dr Lou Butt (also representing Space South Central)
Professor Future and Emerging Technologies (Skills)
Prof Adrian Hopgood
- **University of Southampton**
Representing Space at Southampton
Prof Ian Williams
Director Enterprise & Knowledge Exchange (Enterprise and Innovation)
Diana Galpin
- **University of Surrey**
Surrey Space Centre
Prof Keith Ryden
Director for Innovation Strategy (International)
Dr Will Lovegrove
- **Space South Central (Acting Chair)**
Interim Head
Keith Robson
- **Secretary to the Board**
Harry Lintott