

NEW FRONTIERS

SPACEPORT



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Context

Spaceport Cornwall offers a globally unique horizontal launch site, where human spaceflight, launch and scheduled passenger services are fully integrated. It will allow Cornwall and the UK to become a leader in Europe for the development of launch and rapid human transport technologies.



Unlocking barriers

The rationale for change

The Government aims to establish space launch capability at a UK Spaceport by 2020, to maximise the commercial opportunity from growth in spaceflight and satellite technologies. Cornwall and the Isles of Scilly offers the only site in England with potential for horizontal launch, and has all the ingredients for an influential new satellite technology-based space cluster, including:

- our Aerohub Enterprise Zone at Cornwall Airport Newquay and Goonhilly Earth Station;
- our Aerospace and Space Cluster Programme funding £3.19 million research, development and innovation in the sector and its upstream and downstream supply chains;
- the South West Centre of Excellence in Satellite Applications supporting space-focused research and business opportunities;
- incubation and acceleration support for start-ups to exploit space technology provided by SpaceTech SW;
- ▼ a strong Local Enterprise Partnership placing space at the heart of our strategies for growth with active collaboration from higher and further education, business and public sector partners.

Cornwall has all the ingredients for an influential new satellite space cluster



Spaceport Cornwall operations will involve launch of satellites from a commercial aircraft that will carry a launch rocket, space human flight experiences and scientific tasks. These aircraft could, for example, launch a satellite with 'payload' to monitor crops or control driverless cars, or a system that carries low gravity scientific experiments, or transports humans into space. More broadly, Spaceport Cornwall offers opportunities to develop a new supply chain around launch, attract inward investment and promote trade, create more highly-skilled employment opportunities, inspire children and young people in Cornwall to pursue STEM subjects and attract international researchers.

Alongside Spaceport Cornwall, the Space Technology Hub Cornwall proposed by the South West Centre of Excellence in Space Applications with lead partner University of Exeter will build on our considerable assets and investments to unlock the full space potential of our peninsula. Space Technology Hub Cornwall will provide specialist infrastructure, resources and services, expert science and technology support for incubation and innovation, supporting space-centric commercial ventures from scientific research and early stage technology.

Our ask

We are asking the UK Government to approve Spaceport Cornwall's bid, provide the airspace to operate systems, facilitate operational licence, and make UK Space Agency funding available to develop first stage infrastructure with our commercial launch partner.

We are also seeking support for the South West Centre of Excellence in Space Applications proposal to establish a Space Technology Hub Cornwall to unlock the full space potential of our peninsula, and cement the UK's competitive edge in this area building on Exeter's world-leading research.

Our offer

Spaceport Cornwall has the potential to transform our local and national economy by creating a high-value space cluster in support of the Industrial Strategy, National Space Policy, and the UK Space Growth Action Plan ambition to capture 10% of the £400 billion global space-enabled market by 2030.

Space Technology Hub Cornwall will bring together academics specialising in data analytics, data ethics, materials science, medicine, rare-earth materials, engineering, sports science, computer science, programming, mathematics, biology, astrobiology and robotic. It will use Exeter's world-leading research in extreme environments and alternative energy sources to leverage additional research backing and cement the UK's leadership in all these areas, as well as generating scientific research, innovation and early stage technology to support space-centric commercial ventures.

Benefits

The commercial spaceflight market could be worth £25bn over the next 20 years. Cornwall Spaceport has the potential to cumulatively realise over £290 million additional economic activity in Cornwall and 500 new jobs nationally in suborbital human spaceflight, satellite launch, regional tourism and microgravity research by 2028.

Space Technology Hub Cornwall's market-led, cross-sector approach will generate and incubate innovative research ideas with the commercial support mechanisms for companies of all sizes to build business and generate growth around these ideas in the future. It will enhance and accelerate the growth of the local space-economy, maximising our contribution to the targeted £40 billion UK global market-share.

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