

Introducing the Satellite Applications Catapult



Welcome

Welcome to the first issue of the Satellite Applications Catapult newsletter, providing an overview of what it is and its current status. It also presents a summary of the initial Programmes and Projects it will be working on and how you can get involved.

The Satellite Applications Catapult will operate through delivering Market-led and Technology Driven Programmes

Located on the Harwell Science and Innovation Campus in Oxfordshire

The Satellite Applications Catapult is one of a network of UK technology and innovation centres which aim to drive economic growth through commercialisation of research. The vision of the Satellite Applications Catapult is to support UK industry through the acceleration of the growth of satellite applications and to contribute to capturing a 10% share of the £400Bn global space market predicted by 2030. It aims to achieve this by exploiting the innovation potential in the UK industrial and academic communities, by being a focal point where small and medium enterprises, large industry and end-users can work together with researchers to challenge barriers, explore and develop new ideas, and bring these to commercial reality.

Location & Status

The Satellite Applications Catapult will be located on the Harwell Science and Innovation Campus in Oxfordshire. The location was chosen because of a growing cluster of organisations dedicated to advances in space technology and development of satellite applications at the Harwell site. The Catapult has already established an office in the Electron Building at Harwell.

During November, a five year Business Plan for the Catapult's activities was submitted to the Technology Strategy Board and subject to its approval a number of pilot Projects and Facilities will be initiated from 1 December 2012.

In the short-term, the key milestone for the Catapult is to formally open for business on 1st April 2013. A key focus over the next few months will be the process of continuing engagement with the wider community, with the aim of defining the work plans for 2013 and creating the commitments to undertake these as collaborative activities.

Programmes and Projects

The Catapult will operate through delivering Market-led and Technology Driven Programmes. The Programmes have been identified following extensive consultation with the community and selection based on criteria including, growth potential, academic strength, UK capability/interest and competition.

The initial Market-led Programmes are: Transport; Security and Civil Protection; Natural Resources Management, Energy & Climate; and Internet of Things - between them these markets have a global growth potential of over \$100Bn in the next decade. These Programmes will consist of Projects that are clustered around identified sectorial market requirements, and may bring together multiple satellite-based domains (Earth observation, navigation and communications) for addressing these needs.

Technology Driven Programmes will focus on developing and demonstrating the capabilities of existing or new satellite technologies and space-based assets, thereby removing barriers to their commercial application in a range of different market sectors. Further to the Catapult's consultation process, it was identified that the Catapult should initially address two technology driven programmes; space segment technologies and ground and user segment technologies.

The Catapult Programmes will consist of a number of Strategic, Catalytic, Collaborative and Commercial Projects. The Project portfolio will be shaped through consultation fora and using criteria developed to prioritise work. In carrying out Projects, the Catapult will be mindful of IPR and state aid issues – and policies have been drafted in both of these areas to provide a baseline position.

Facilities



The Satellite Applications Catapult requires a number of Facilities to deliver the Programmes and will also develop Facilities as part of its strategic activities. Many of the Facilities required for Programmes already exist as either public or private assets and will be made use of via negotiated service

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Ideation

We are also looking for organisations and individuals to come forward with ideas. If you have an idea for a satellite application and need support in understanding how to create or commercialise it then we want to hear from you:

- End-user organisations that think satellite applications might be able to help your organisation
- SMEs who want to grow and need access to expertise and high value facilities to support them
- Academics with research that might have commercial potential
- Individuals with an idea to exploit or turn into a business.

level agreements. Where a Facility that is integral to the successful delivery of Catapult Programmes and Projects is not available, the Catapult will develop it through its core grant, subject to a compelling business case. Facilities may be developed to support an individual Project, a portfolio of Projects within a Programme or an entire Programme. Three categories of Facilities are envisaged to support Catapult Programmes: Mission Platforms (supporting upstream technology developers); Application Development and Test Platforms; and Support Facilities.

The Satellite Applications Catapult & ISIC

Over the next few months, the Satellite Applications Catapult will be merging with the International Space Innovation Centre (ISIC), building upon and taking forward

ISIC's significant achievements and sharing a vision to become the catalyst for growth in the space sector. The newly formed Catapult centre, will enable the best businesses, researchers and end users to come together to develop new satellite-based products, services and applications. It will bring invaluable resources, including expertise and new facilities.

Further information regarding the merger will be announced over the coming months, but both organisations, together with the Department for Business Innovation and Skills (BIS), the Technology Strategy Board and the UK Space Agency believe that a single organisation will best help achieve the Innovation Growth Strategy's target of growing the UK space sector to a £40bn per annum sector by 2030.

How to Get Involved

The Catapult's vision is to drive innovation, bringing academia, industry and research organisation together. To achieve this, the Catapult will engage with a wide community, including industry, academia, centres of excellence, KTN's, funders and end users – more details on this will follow as the Catapult comes into operation.

An immediate way for key experts and community stakeholders to engage with the Catapult will be through our consultation fora to be held over the next few months. These fora will be on key topics to strategically shape the Catapult's Market-led Programmes. Each forum will:

- Identify specific Projects appropriate for the Catapult to undertake in each area
- Identify potential funding streams to align with Catapult support/engagement with Projects

- Prioritise potential Projects for Catapult support using defined criteria and make recommendations to the Catapult Programmes Team
- Identify organisations that will be well placed to engage with Projects selected for Catapult support.

The Table below lists the consultation fora that will be held over the next few months. If you have specialised expertise in this area, are involved in the market sector, or a potential end user of satellite derived data or services in relation to the topic, then now is your opportunity to get involved. Please contact: satelliteapplications@catapult.org.uk stating the fora of interest to you.

Market Led Programme	Topic Area	Time Frame
Transport	Road	Dec 2012- Mar 2013
	Maritime	Dec 2012- Mar 2013
Natural Resources, Energy & Climate	Water Management	Dec 2012- Mar 2013
	Living with Environmental Change	Dec 2012- Mar 2013
Security & Civil Protection	Environmental Disaster Prediction and Planning	Dec 2012- Mar 2013
Internet of Things	IoT - Generic	Dec 2012- Mar 2013
	Future Cities Opportunities	Feb - Mar 2013

Contact Us

The Catapult is here to help develop technologies, drive innovation and facilitate collaboration. If you want to get involved with the Catapult; believe it can help your organisation; if you are interested in helping to shape the Catapult's Programmes and Projects, or take part in the consultation fora, please contact: satelliteapplications@catapult.org.uk.

www.catapult.org.uk/satellite

Events



Space Solutions Challenge

The Satellite Applications Catapult is sponsoring a two-day technology development Hackathon taking place over the weekend of Saturday 1 & Sunday 2 December 2012. Hackathons enable people to work together to solve challenges relevant to using space technologies, and how they can be exploited to benefit other markets such as transport, healthcare, natural resources, etc.

The Hackathon has been set up prior to, and in support of, the European Space Solutions Conference taking place from the 3 - 5 December in London. The aim is to give participants an opportunity to work together to solve specific challenges relevant to the 11 sector streams featured in the EU conference. If you would like to register, please visit: <http://www.eventbrite.co.uk/event/4664531740>.

EU Space Solutions Conference

The Satellite Applications Catapult will be participating in the EU Space Solutions Conference, taking place at the City Hall Westminster and Horse Guards Parade, from

3 to 5 December 2012. The conference is a three day event, providing exhibition and business support to bring together business and the public-sector with users and developers of space-based solutions to explore how space can make a real difference to the lives, and livelihoods, of people across Europe – a subject very much aligned with the mission and vision of the Catapult. To find out more about the conference, please visit: www.space-solutions.eu.

London Satellite Finance Network

The Satellite Applications Catapult will be taking part in The London Satellite Finance Network Event on the 4 February 2013. This event has been organised to enable SMEs and start up organisations to network with Bankers, Venture Capitalists and other potential funders. Further information of this event will be published shortly.

Spacetech 13

Taking place in Durham on 21 March 2013, this event has been organised to demonstrate the benefits space can bring to the wider community. More information to follow shortly.

Careers

Career Opportunities

If you would like to work in a dynamic, innovative and forwarding thinking organisation, with boundless career potential for those who want to succeed, the Catapult could be the place for you.

We are currently looking for: Programme Managers for Market-led and Technology Driven Programmes; Project Managers; Project Support Staff; Domain Experts in

Earth Observation, Navigation, Communications and Security; Application Architects; Satellite Technologists; Procurement Specialists and Contracts Professionals.

For more information contact: satelliteapplications@catapult.org.uk, check out our website: <https://catapult.org.uk/satellite>, or follow us on Twitter #SatAppsCatapult