

Could a Space Technology and Innovation Centre help accelerate the commercialisation of new EO technologies

Michael Lawrence

Head of Special Projects

michael.lawrence@tsb.gov.uk

What are TICs?

Business-focused centres that make world-leading technical capability available to businesses to solve their technical challenges.

Provide access to world-leading technical expertise, infrastructure, skills and equipment

Technology and innovation centres

Maximising the commercial impact
of UK R&D – a prospectus

expertise
development
global market
opportunities
investment
working with business

What does a Technology and Innovation Centre (TIC) do? (1)

- Establish and maintain a world-leading technical development capability aimed at **accelerating** the development and **commercialisation** of ideas and new technologies.
- Work with **businesses, the existing research base and research institutes**
- Identify excellence and opportunities from across the UK supported by **in-house applied R&D**

What does a Technology and Innovation Centre (TIC) do? (2)

- Provide businesses with **access** to technology, skills and equipment that would otherwise be outside their reach and carry out technical development to enable realisation of the commercial potential of discoveries, products, etc. For example through **technical demonstrators and process scale-up**
- Support and protect the **development of IP**, both their own and that of others;

What does a Technology and Innovation Centre (TIC) do? (3)

- Provide assistance with the **commercialisation** of, or identifying funding for, development projects
- Provide a mechanism for **interaction** between industry and academia to facilitate knowledge transfer, training and skills development at all levels
- Help to develop **value/supply chains**

Next phase of TICs - 3 from this list operational by 2013

- Complex Systems
- Digital media/creative industries
- Future cities
- Future internet systems
- Photonics
- Resource efficiency
- Sensor systems
- Smart grids and distribution
- **Space**
- Transport systems and integration

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Driving Innovation

Timeline

2011



Announcement



Publish EOI Docs



Review



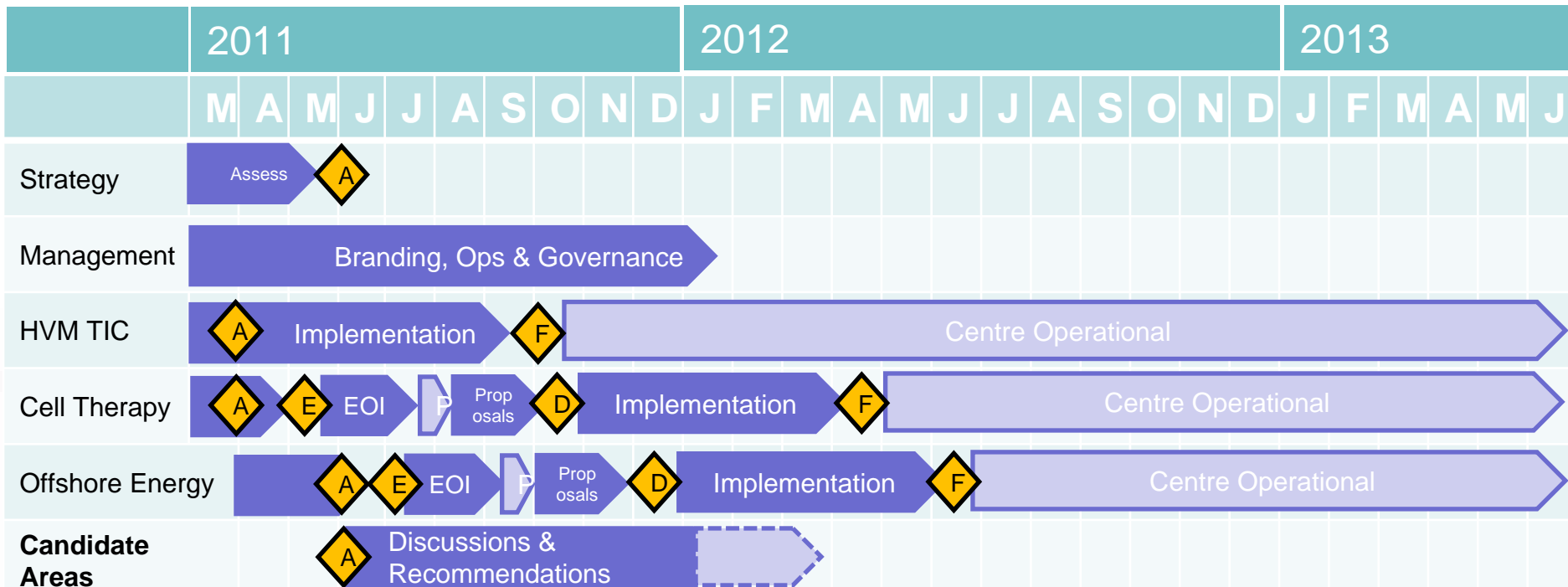
Decision Announced



Gov Board Mtg



Funding in place



Future announcements subject to discussion with Governing Board and BIS

Timeliness and impact - establish a centre if...

- **Investment in infrastructure and expertise is needed to acceleration the commercialisation of research**

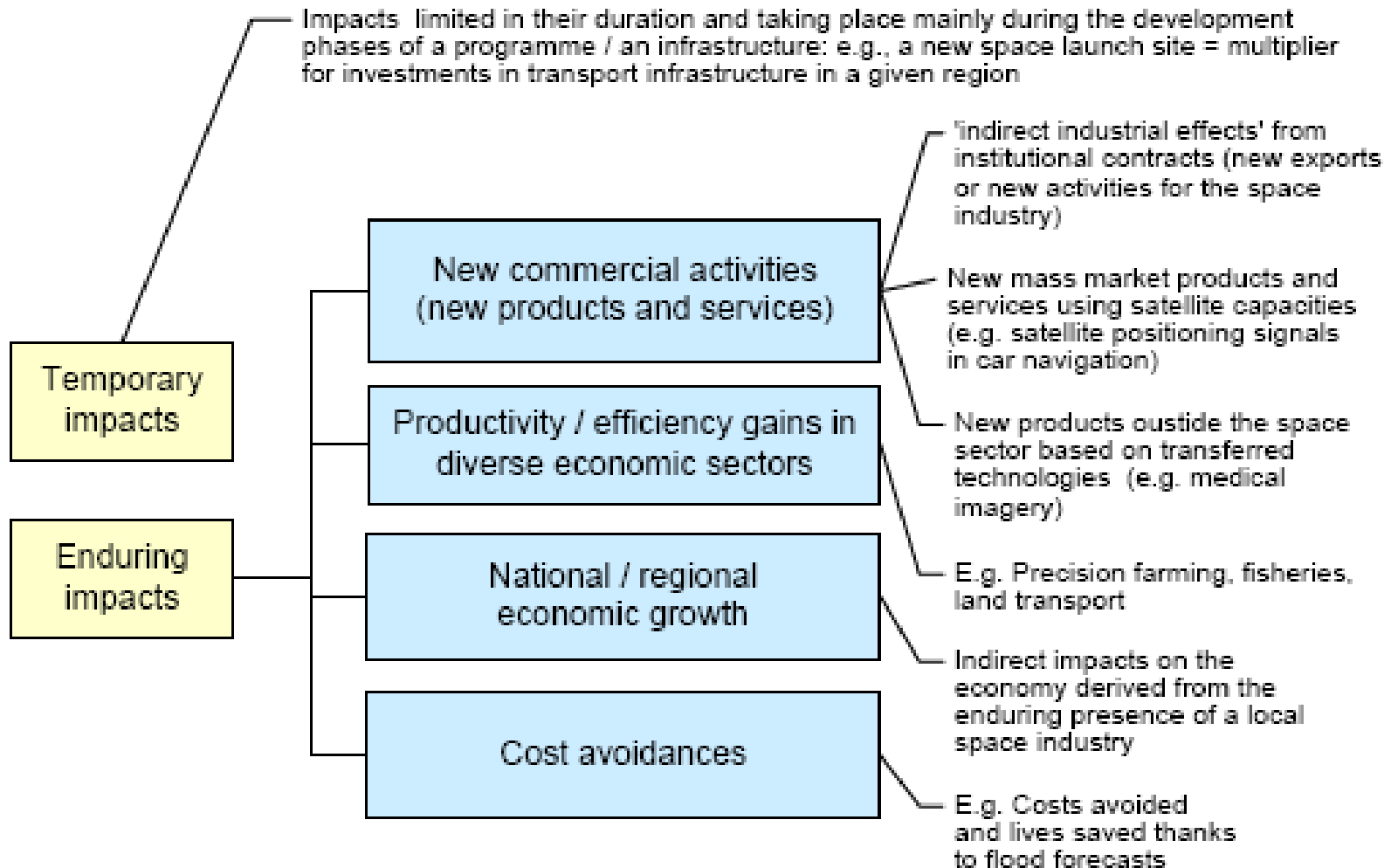
Key issues for candidate areas

- **Confirm the market opportunity for the UK and TIC**
- **Confirm UK capability, including active engagement and support for TIC**
- **Confirm challenges preventing greater commercialisation of research**
- **Define the role of TIC in addressing these challenges**

Impact of investment in Space

OECD report – The Space Economy at a glance 2011

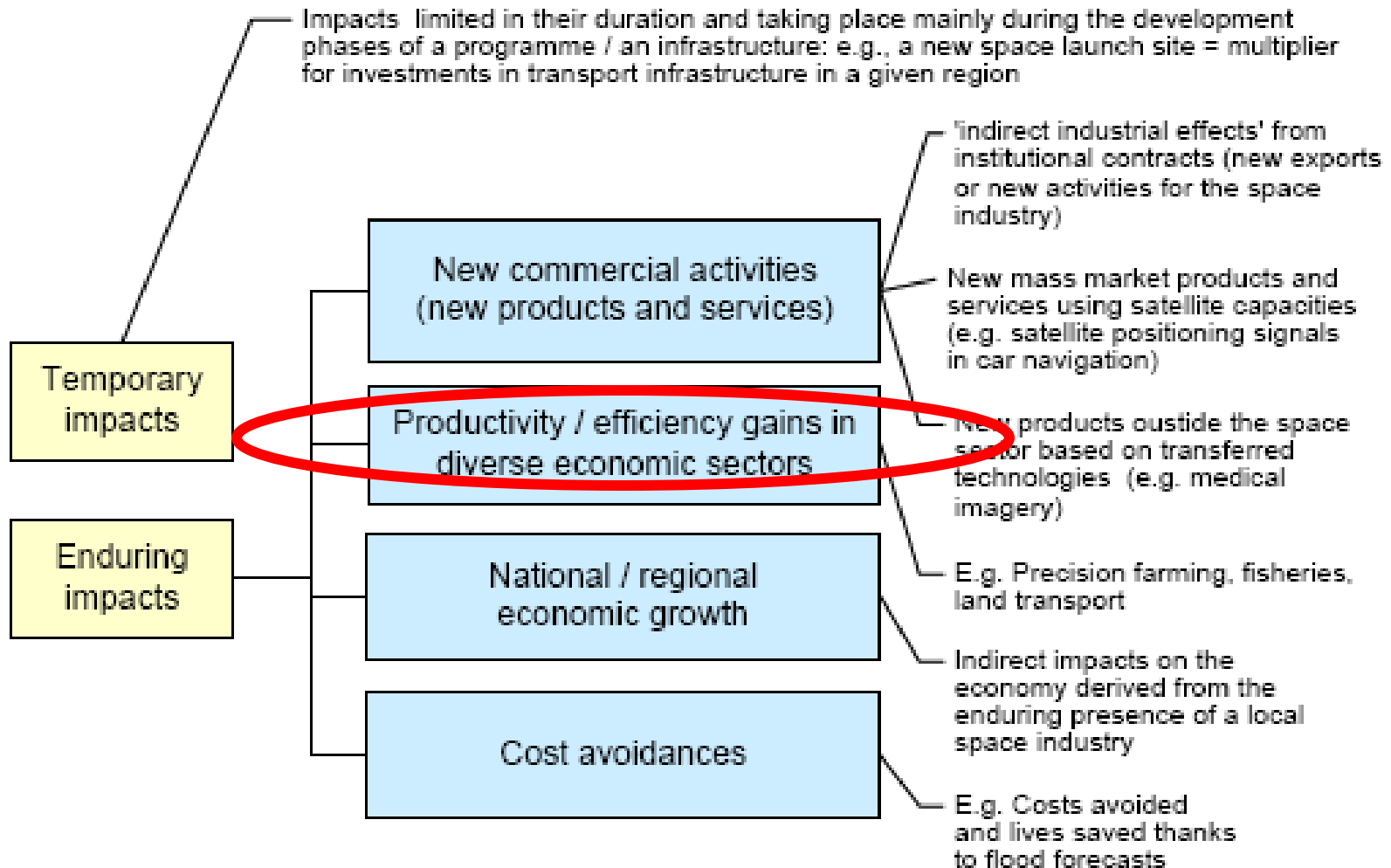
Review of possible impacts derived from investments in space programme



Impact of investment in Space

OECD report – The Space Economy at a glance 2011

Review of possible impacts derived from investments in space programme



What could the Space TIC do?

- 1. Technology Demonstration**
- 2. Rapid prototyping**
 - Hardware
 - Data products/software
- 3. Systems to aid applications development**
 - simulation
 - testing
 - data integrity services
 - calibration and validation
- 4. End to end satellite operations and data handling**
- 5. Professional Development and Training**
- 6. Business support services**

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What could the Space TIC look like?

- **Strategic national facilities providing 'end to end' capability**
 - EO Hub (satellite operations centre)
 - Visualisation Centre
 - Security and Resilience Centre (secure data links and servers)
 - CEMS (Centre for Environmental Monitoring Services)
- **Technology Demonstration capability – home of TechDemoSat programme** (mission planning, satellite operation, data management, service demonstrations)
- **Open Access to lab, test and data management facilities -** providing access to capabilities beyond the reach of smaller companies
 - Cutting edge **collaboration facilities**
 - Concurrent Design Facility
 - Innovation and Applications Centre
- **Conference, meeting and training facilities**
- **'Shop window' to showcase UK capability**
- **Link to Business Incubation facilities**

Summary - Key elements of a TIC

- **Infrastructure**
- **R&D Resource**
- **Open Innovation activity**

Summary – building the case for a Space TIC

- **The right time for the sector**
- **Business commitment**
- **Clearly defined scope and role**
- **Critical mass**
- **Step change in ability to commercialise research**

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www.innovateuk.org

