Innovation from science – experience at STFC

Tim Bestwick
Science and Technology Facilities Council
Erice, October 2012

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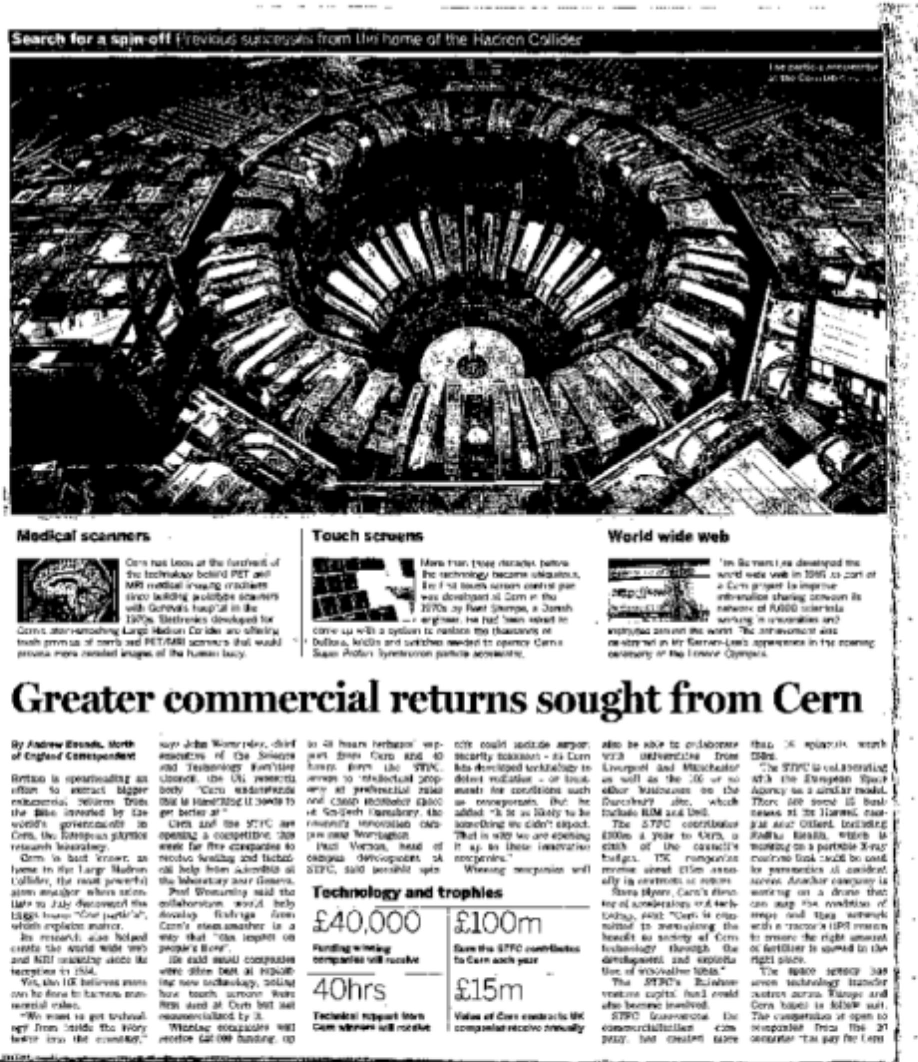

Search for a spin-off Previous successes from the home of the Hadron Collider

Medical scanners

Touch screens

World wide web

Greater commercial returns sought from Cern

Technology and trophies

£40,000

£100m

40hrs

£15m

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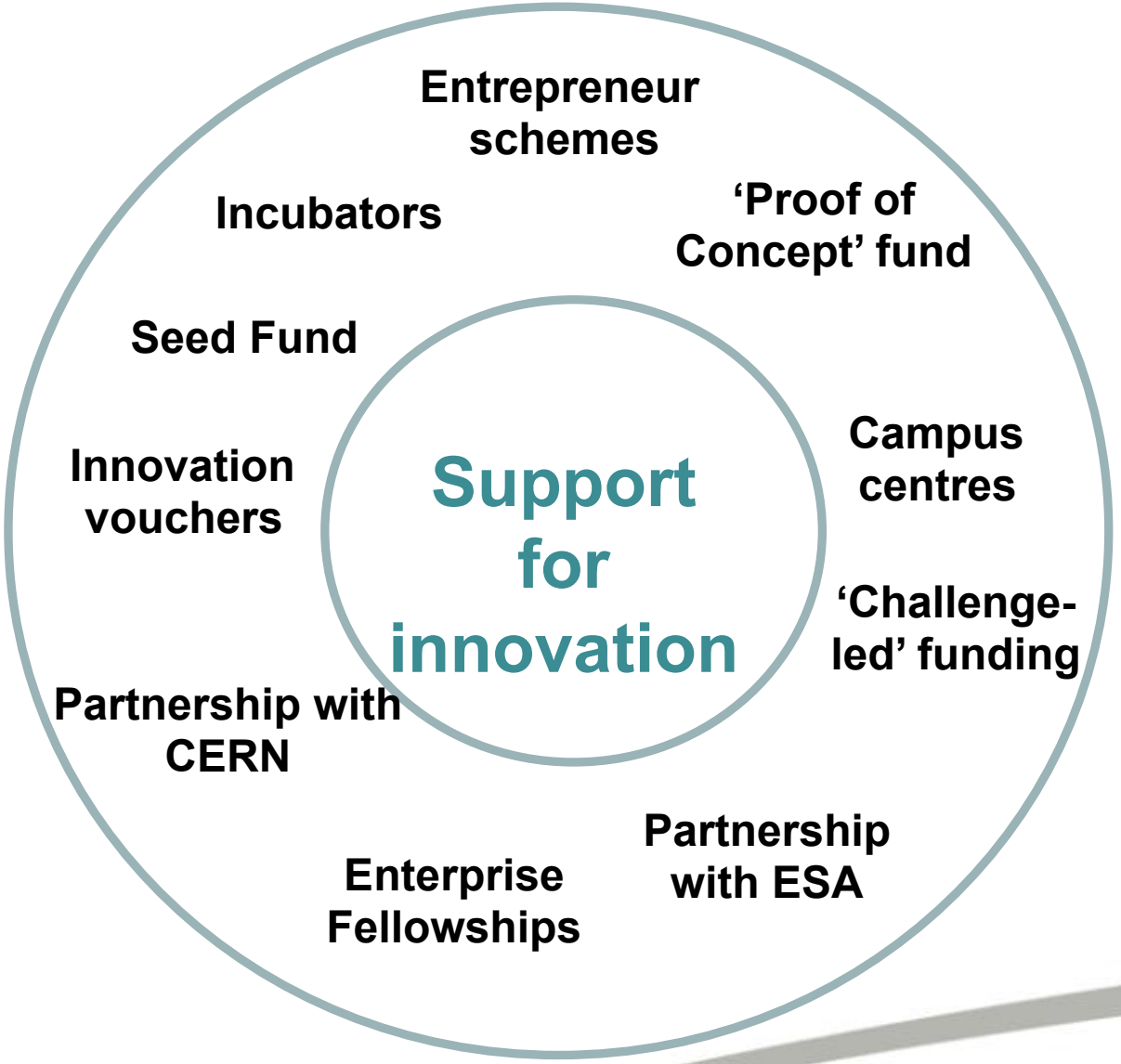

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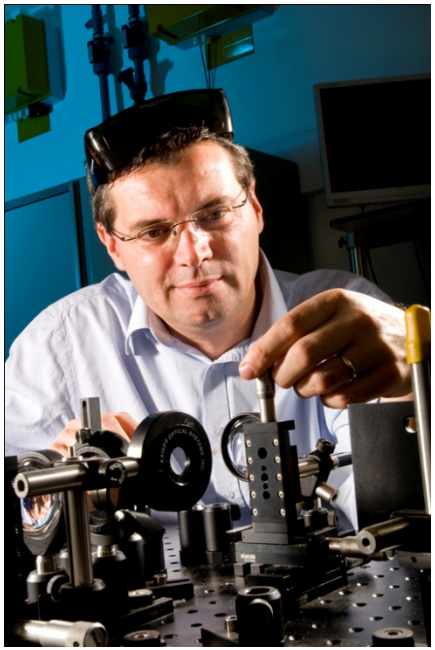

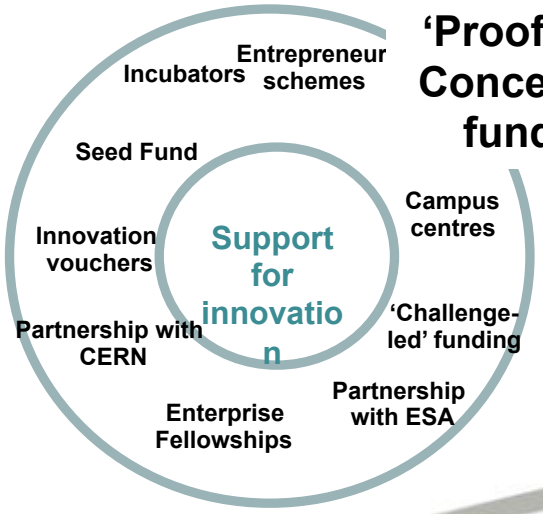

'Proof of Concept' fund

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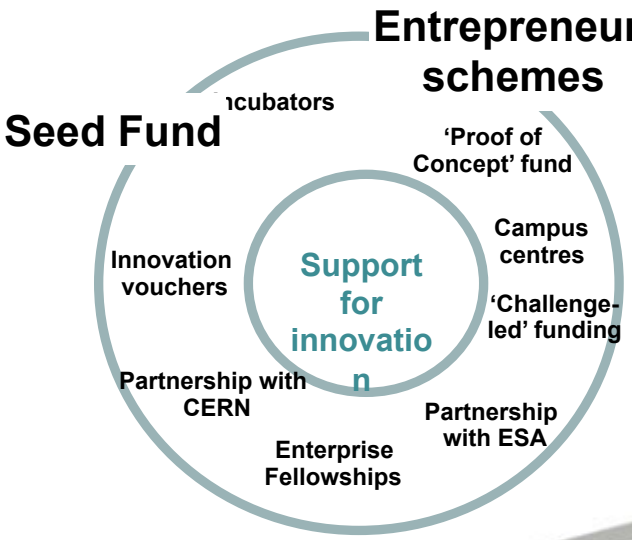
cobalt LIGHT SYSTEMS
INSIGHT FROM LIGHT



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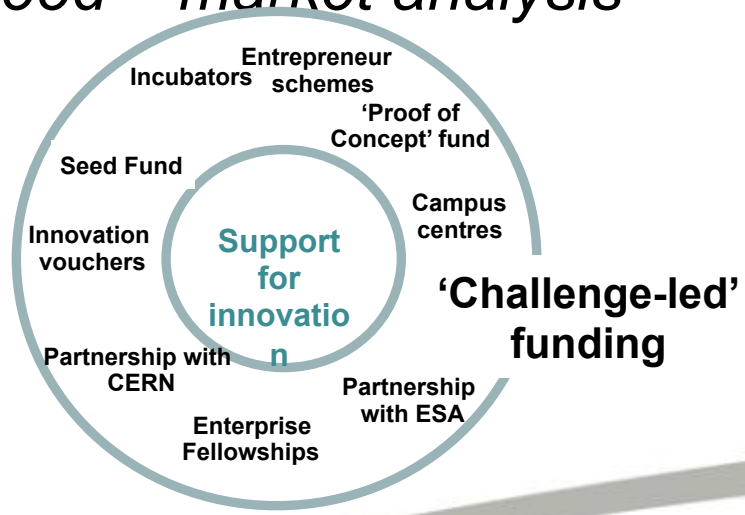
Challenge-Led Applied Systems Programme (CLASP)

- *Novel and imaginative projects from STFC research*
- *Theme for each call (e.g. 'medical')*
- *Demonstrate market need – market analysis*
- *Mentoring of projects*
- *Any size of project*



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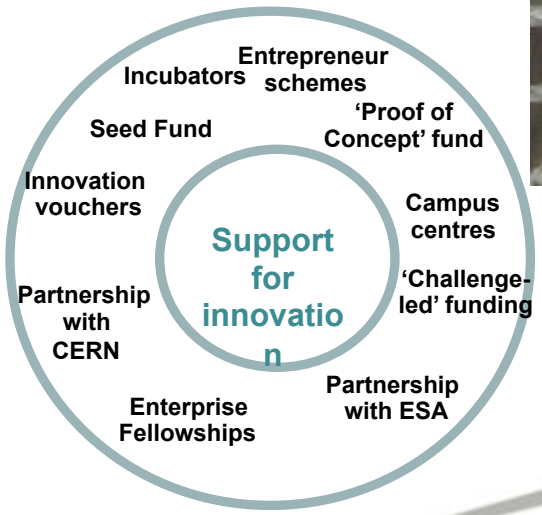
“Bridging the “valley of death”: improving the commercialisation of research “



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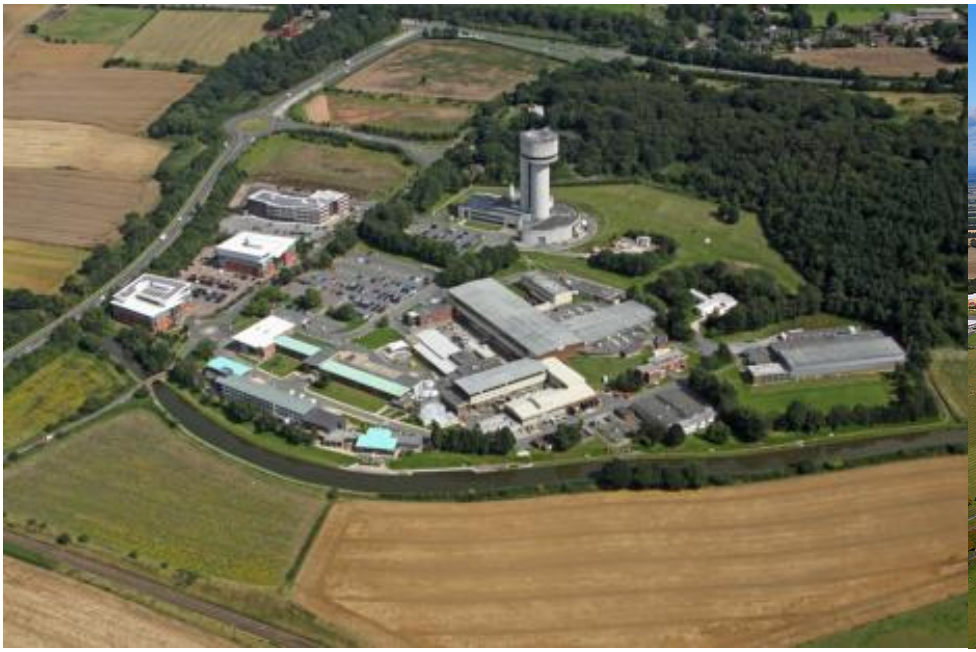

Sci-Tech DARESBURY

HARWELL OXFORD

SCIENCE | TECHNOLOGY | BUSINESS

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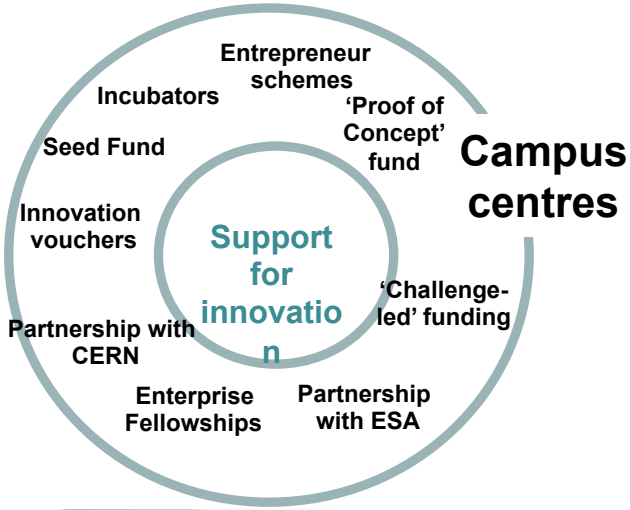

Daresbury Research Collaboratory leads the way in data-intensive computing

Daresbury Science & Innovation Campus

Overview

The need
Daresbury Research Collaboratory (DRC) has been established in association with IBM as part of a major UK government investment in business-focused high-performance computing. The DRC needed a powerful, energy-efficient infrastructure to support both general computing and Big Data projects.

The solution
DRC deployed Blue Wonder, an IBM System x iDataPlex cluster comprising 8,192 Intel Xeon E5-2670 processor cores. Software from IBM, ScaleMP and Platform enables shared file system access across the entire cluster and the rapid provisioning of large-scale shared memory environments, ideal for Big Data workloads.

The benefit
Provides an easy entry-point for high-performance computing for UK organisations of all sizes. Supports the development of business applications capable of taking advantage of HPC architectures. Complies with "Green IT" objectives and saves on electricity costs with energy-efficient design and energy-aware scheduling of tasks

Founded in 2012, Daresbury Research Collaboratory (DRC) is part of a new centre of expertise in computational science and engineering located at the Daresbury Science and Innovation Campus near Manchester. The DRC was created by the Science & Technology Facilities Council (STFC) in association with IBM, as a result of a

IBM

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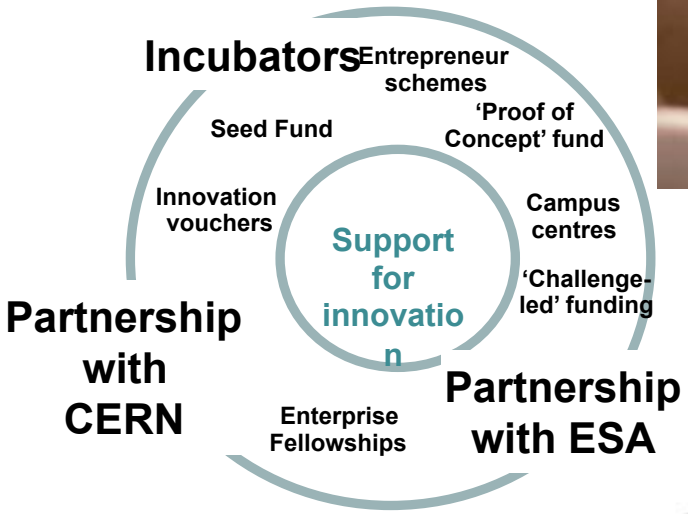

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I-TAC February 2010 to June 2012:

26 companies supported with access to laboratory space and equipment

34 new jobs created

Over £8.5 million has been secured in investment into those companies

5 new products have been taken

8 patent applications

2 licensing agreements

Innovations
Technology Access Centre

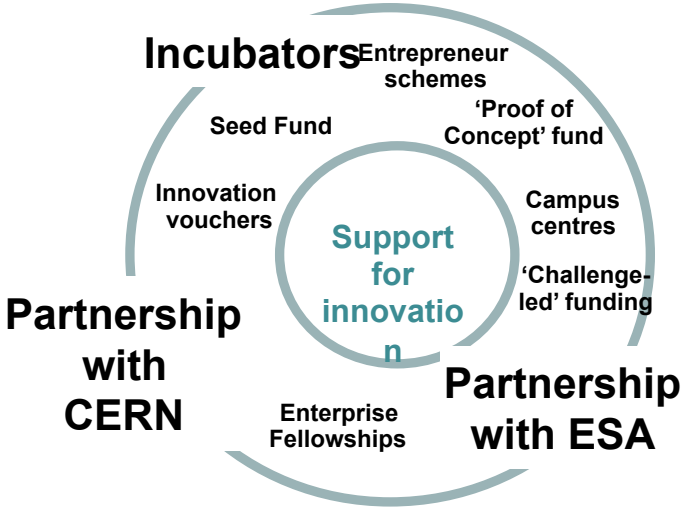



Science & Technology Facilities Council

CERN

technology

esa technology transfer programme



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STFC and CERN are pleased to announce the first call for applicants onto our new business incubation centre (BIC) programme.

If you are a high-tech start-up or SME looking to take high energy physics technologies to commercial applications, then the STFC CERN BIC's unique combination of funding, technical expertise, office space, and business support, could provide the perfect environment for your company to flourish.

This comprehensive offering includes:

- £40,000 of funding for use on intellectual property (IP) protection, design, prototyping, market studies etc.
- Access to up to 40 hours of CERN and 40 hours of STFC scientists and technical expertise
- Use of CERN IP with favourable conditions
- Opportunities for collaboration and networking on the Sci-Tech Daresbury science and innovation campus and through STFC and CERN networks

The scheme is open to up to 5 companies per year over its two-year pilot, and the deadline for the first selection day is **9th November 2012.**

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