Funding and Support schemes for Commercialisation in the UK

October 2013
IoP Business Forum meeting
NetPark, Sedgefield
Knowledge Transfer Networks

- Funded by Technology Strategy Board
- 15 networks including Nanotechnology
- Role to nationally connect and catalyse industrial innovation
- Activities include, events, brokerage, cross cutting activities with other projects
- My role is in Nanotechnology - metrology, instrumentation and standards with some experience in UK & Europe funding
Funding for research and development for small business

• Funding needed to carry out research activities.
• Many options but with different criteria
• Public funding needs a proposal and often is not 100% funded due to state aid rules
• Many different public bodies involved so take time to research and get connected.
• Decide what is best for YOU not just if the money is there.
Some current and upcoming TSB competitions for micro/nanofabrication

TSB Collaborative R&D - TRL (2-4) - Designed for rapid implementation, smaller project size and time to contract

• £180m TSB/MRC Biocatalyst fund round 5 competition closes on 12/2/2014 – 12month £200k Feasibility projects - https://www.innovateuk.org/competition-display-page/-/asset_publisher/RqEt2AKmEBhi/content/biomedical-catalyst-feasibility-studies?p_p_auth=Ey2F24xU

• Sustainable high-value chemical manufacture through industrial biotechnology 2 – (registration closes 23rd October) - Collaborative R&D/Feasibility/business models - https://www.innovateuk.org/competition-display-page/-/asset_publisher/RqEt2AKmEBhi/content/sustainable-high-value-chemical-manufacture-through-industrial-biotechnology-2-collaborative-r-d?p_p_auth=Ey2F24xU

• Lasers for industrial processing (registration closes 6/11/2013) - £175k, 6-9months – feasibility - https://www.innovateuk.org/competition-display-page/-/asset_publisher/RqEt2AKmEBhi/content/lasers-for-industrial-processing?p_p_auth=Ey2F24xU

• £70m Agri-Tech Catalyst - Industrial research awards (reg closes 4/12/2013) - £3m, 3-5 years, most types - https://www.innovateuk.org/competition-display-page/-/asset_publisher/RqEt2AKmEBhi/content/agri-tech-catalyst-industrial-research-awards?p_p_auth=Ey2F24xU

TSB SMART Awards and Vouchers - TRL (2-6)

TSB SMART (was Grant for R&D) (next evaluation deadline 24th November) –
• Market Surveys, Proof of Concept and Demonstration
  • https://www.innovateuk.org/competition-display-page/-/asset_publisher/RqEt2AKmEBhi/content/smart-round-4?p_p_auth=Ey2F24xU

• £5,000 (100% de minimus) TSB Innovation Vouchers
• Closes 23/10/2013
  – Can work with Uni’s, RTO’s, Catapults, IPR, Designers
SBRI, KTP and Catapult Schemes

TSB Small business Research Initiative (SBRI Scheme - TRL (2 - 4))

- CRACK IT Challenges (closes 30/10/13)
- Assistive technology (disabled learning) – closes 4/11/13
- Better health outcomes - closes 31/10/13
- Land vehicle exercise - LVEx - 2013 (MoD) – reg closes 16/10/13

TSB KTP Scheme – TRL (3-7)

- Knowledge Transfer Partnerships (KTP) is a UK-wide, Grant assisted programme enabling businesses to innovate. A KTP achieves this through the forming of a Partnership between your business and an academic institution and will deliver company based projects from 6 months to three years duration
http://www.ktponline.org.uk/
TSB Catapults

TSB Catapults – TRL (3 – 6)

• >£200m invested in open access facilities for high value manufacturing. http://www.innovateuk.org/deliveringinnovation/catalysts.ashx

• The following Catapults have Special Interest Groups already set up: Satellite Applications, Future Cities, Connected Digital Economy, Offshore Renewable Energy, Cell Therapy and Transport Systems.

• High Value Manufacturing - https://catapult.innovateuk.org/high-value-manufacturing includes CPI and also Warwick Energy Storage
EU Funding schemes

FP7 European Collaborative RTD Funding for micro and nanofabrication

- Waiting for Horizon2020 (subject to budget discussions) – Draft WP’s in circulation
- Many brokerage and dissemination events in October planned
  http://ec.europa.eu/research/participants/portal/page/home

- M-ERA.NET Call 2013 (Call closes 30/10/2013)
- https://www.innovateuk.org/competition-display-page/-/asset_publisher/RqEt2AKmEBhi/content/m-era-net?p_p_auth=40aggK9C
- Projects upto €360k
- The UK will support the following topics:
  - 2. Interfaces, Surfaces and Coatings
  - 4. Materials for Health
- The following topics are in the 2013 call, but are not eligible for funding in the UK.
  - 1. Integrated Computational Materials Engineering
  - 3. Composite Technology
  - 5. Materials for Sustainable and Affordable Low Carbon Energy Technologies

Eureka Eurostars – Smaller projects
(No more evaluation deadlines in 2013) – Waiting for H2020 - Eurostars II
http://www.eurostars-eureka.eu/home.do
After FP7

Horizon 2020 Structure

Societal Challenges
- Health, demographic change and wellbeing
- Food security, sustainable agriculture and bio-economy
- Secure, clean and efficient energy
- Smart, green and integrated transport
- Climate action, efficiency and raw materials
- Inclusive, innovative and secure societies

Industrial Leadership
- Leadership in enabling and industrial technologies
- Facilitate access to risk finance
- Support for innovation in SMEs

KET
- Advanced materials
- Biotechnologies
- Advanced Manufacturing
- Space
- Nanotechnologies

Excellence Science
- Marie Curie actions
- Support for Future and Emerging Technologies
- Research infrastructures (including e-infrastructures) accessible to all researchers in Europe
- Support the individuals and their teams to carry out frontier research by building on the success of the European Research Council

Non-Nuclear Direct Actions of the Joint Research Centre
Financial Horizon (proposal 30/11/2011)

- **Industrial Leadership**: 35.888M€
- **Societal Challenges**: 20.280M€
- **Excellent Science**: 27.818M€

**KETs**
- **Nanotechnology, Advanced material and Advanced manufacturing/processing**: 4.293M€
- **Photonics and microelectronics**: 1.795M€
- **Biotechnology**: 1.737M€
- **Space**: 575M€
- **ITC**: 7.180M€

- **Leadership in enabling industrial technologies**: 15.580M€
- **Innovation for SMEs**: 700M€
- **Access to risk finance**: 4.000M€

NANOfutures Joint Key Node Meeting
New instruments and activities for H2020

• Focus on SME participation and job growth to solve Euro crisis.

• New SME instrument to replace ‘Research for SME’s’
  – More akin to TSB SMART programme
  – 3 Phase, smaller projects, less money and faster to contract

• New €2.3Bn COSME programme on debt and equity instruments – useful for start-ups. Details still being decided!
  http://ec.europa.eu/cip/cosme/
### Phase 1: Concept and feasibility assessment

**Input:** Idea/Concept: "Business Plan I" (~ 10 pages)

**Activities:**
- Feasibility of concept
- Risk assessment
- IP regime
- Partner search
- Design study
- Pilot application etc.

**Output:** elaborated "Business plan II"

Lump sum: 50,000 €
~ 6 months

### Phase 2: R&D, demonstration, market replication

**Input:** "Business plan II" plus description of activities under Phase II (~ 30 pages)

**Activities:**
- Development,
- Prototyping, testing,
- Piloting,
- Miniaturisation,
- Scaling-up, market replication

**Output:** investor-ready "Business plan III"

Output based payments:
1 to 3 M€ EC funding
~ 12 to 24 months

### Phase 3: Commercialisation

Promote instrument as quality label for successful projects

Facilitate access to private finance

Support via networking, training, information, addressing i.a. IP management, knowledge sharing, dissemination

SME window in the EU financial facilities (debt facility and equity facility)

No direct funding

Source: Steve Bradley UK SME National Contact point

Steve.Bradley@tsb.gov.uk
Infrastructure Access Schemes

• QNano (now QualityNano)
• European Union-funded infrastructure for nanomaterial safety testing. This four year project which begins in February 2011 comprises 27 top European analytical & experimental facilities in nanotechnology, medicine and natural sciences. (open access for NM’s)
• http://www.qualitynano.eu/
Funds for up-scaling?

- Regional Growth Fund - [http://www.bis.gov.uk/rgf](http://www.bis.gov.uk/rgf)
- Previously supported by RDA’s and Devolved Administrations (Welsh and Scottish)
  - Support dependents on geography
- Corporate finance, EIS, SEIS, FFF Investors, Banks and VC’s
- Indirect support through Enterprise Zones,
Regional Growth Fund

- Round 5 will be almost exclusively capital funding support for example to create jobs. (closes 9/12/13)
- £2.6 Bn fund (2012 – 2016)
- Call budget - £300m
- Projects must be semi commercial
- Minimum size £1m
- Must leverage private investments (up to 50%)
- Infrastructure and scale up
- Used for many applications
- [https://www.gov.uk/understanding-the-regional-growth-fund](https://www.gov.uk/understanding-the-regional-growth-fund)
- Expressions of interest events around country NOW!
Business Support from BIS

• Visit GovUK for setting up and growing a business

• **A mentoring portal.** network of business mentors via [http://www.mentorsme.co.uk](http://www.mentorsme.co.uk). Aims to develop a network of 40,000 mentors and there are now over 22,000 mentors available through the portal.

• **Training for mentors.** Volunteers can register for free training via [www.getmentoring.org](http://www.getmentoring.org). Government is investing £1.8 million in Get Mentoring, an initiative to recruit and train 15,000 volunteer mentors from the small, medium and micro business community who will be accessible through the portal.

• **High Growth support.** Recently launched GrowthAccelerator (www.growthaccelerator.com), a new Government backed programme that will help England’s brightest businesses achieve their full potential. GrowthAccelerator is a new 3 year programme providing high quality tailored coaching support for up to 26,000 SMEs with high growth potential. It will also fast-track businesses to other trusted providers of business advice to help them achieve their ambitions, such as UKTI, business incubators and business and investor networks.
Export - UKTI

• Passport to Export
  – Passport to Export is an assessment and skills-based programme that provides new and inexperienced exporters with the training, planning and ongoing support they need to succeed overseas. The programme puts together in one simple responsive process all the tools that exporting companies need to grow their business.

  – Companies receive an in depth capability assessment, and face to face training from export professionals. This will help them understand the stages of export in relation to your own business, and develop a focused action plan. Passport can also help with market selection, market research and support for visits to potential markets.

• http://www.ukti.gov.uk/export/howwehelp/passporttoexport.html
• http://www.ukti.gov.uk/export/exporting/startingexporting.html
HMRC Support

- Seed Enterprise Investment Scheme (SEIS) - http://www.hmrc.gov.uk/seedeis/
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