

European and UK Funding Opportunities in Coatings

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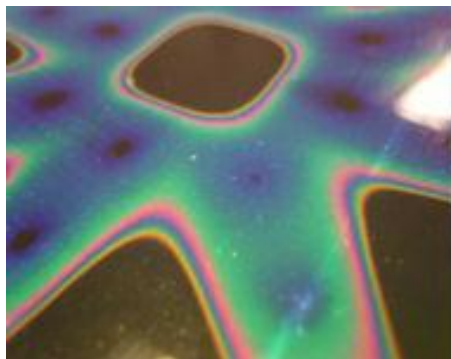
- Knowledge Transfer Networks (KTNs)
 - Materials KTN
 - Activities in the coatings area
- Sources of Funding for Research and Development
 - European Framework Programme
 - Technology Strategy Board
- Sources of Support

Knowledge Transfer Networks (KTNs)

- KTNs provide a dynamic channel for the business community to
 - Develop its ideas and interactions
 - A communications route between the community and the Government
- KTN activities are increasingly important in the development of the UK's
 - Technology Strategy
 - Sector policy

Materials KTN Vision

To bring together the materials supply chain to improve industrial innovation and global competitiveness of UK business

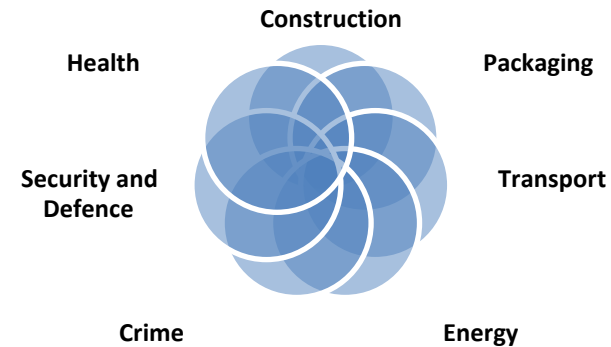


Scope and Coverage

Materials

- Metals
- Polymers
- Composites
- Smart materials
- Ceramics
- Natural materials
- Technical textiles

APPLICATIONS



Life cycle impact

Raw materials
sourcing

Sustainable
Design

Modelling &
Simulation

Materials
Characterisation
and NDT



Advanced Materials Strategy

Key technology thrust areas

	E	S	HVM
Lightweight materials and structures, including composites and hybrids	X	X	X
Materials to withstand more aggressive environments [e.g. high temperature, corrosive, erosive]	X	X	X
Electronic and optical functional materials	X		X
Smart and multifunctional materials, devices and structures	X	X	X
Surface engineering and coating technologies	X	X	X
Particulate engineering / near-net shape manufacturing	X	X	
Fibre and textile-based technologies	X		X
Bioresorbable, bioactive and biocompatible materials			X
Natural and bio-based materials		X	X
Joining technologies	X	X	X
Materials for portable power sources [batteries/fuel cells]	X		X
Nanomaterials	X	X	X
Materials with reduced environmental impact through life		X	
Materials designed for reuse/recycle/remanufacture		X	
NDE/SHM/condition monitoring	X	X	X
Predictive modelling through the full life cycle, including lifetime prediction	X	X	X

Advanced Materials Strategy

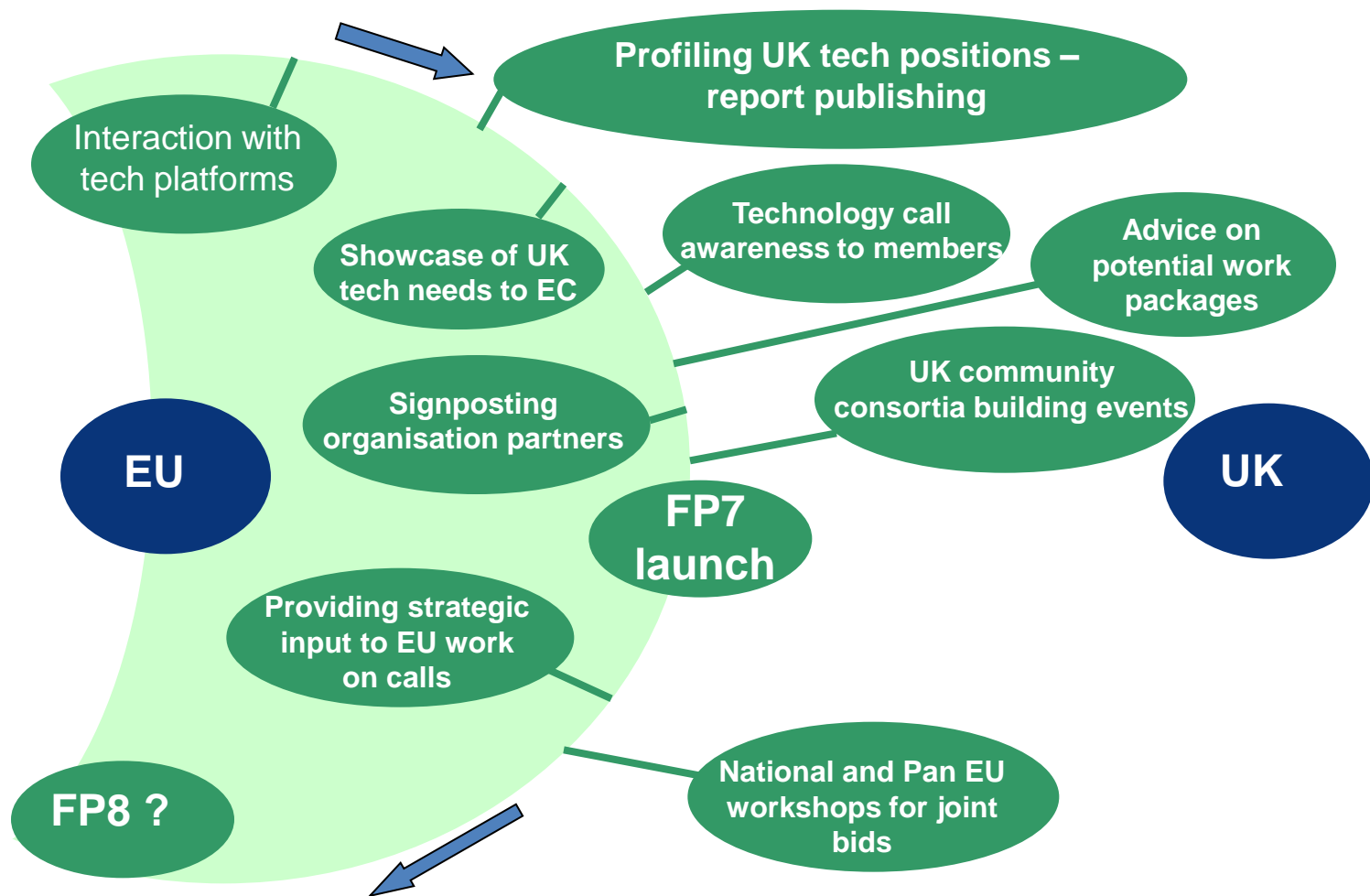
Leveraging International Participation

- EU Framework and ERANETS – working with NCPs and technology platforms
- Working with FCO and SIN, in emerging markets
- Missions and benchmarking in developed economies and emerging markets
- Working with UKTI to promote Inward Investment opportunities
- Working with Trade Associations on export opportunities for UK businesses

Working together to increase UK business success in European Programmes

**SUPPORT
FOR**

**FRAMEWORK
FUNDING**



Materials KTN Activities in Coatings

- Marine Antifouling Coatings
 - UK Capability Study
 - Stakeholder Workshop
 - State of the Art Review
 - Technology Review
 - Market Needs Assessment
 - Legislation
 - Future R&D Needs

Cleaning up Marine Antifouling

Materials KTN Report

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Sources of Funding for Research and Development

- European Union Funding
- Technology Strategy Board
- Materials KTN

European Innovation Funding Basics

- Your work must align with what you want to do as an organisation.
- Your activity must align with what the funding agency wants to see.
- The work provides a positive economic impact through the use of taxpayers money.

What Framework 7 is

- The European Commission's main funding programme for research in Europe
- It is a 7 year programme and runs from 2007 to 2013
- It has a total budget allocation of over €50.5billion
- It will support research in selected priority areas
- It aims to make, or keep, the EU as a world leader in those sectors

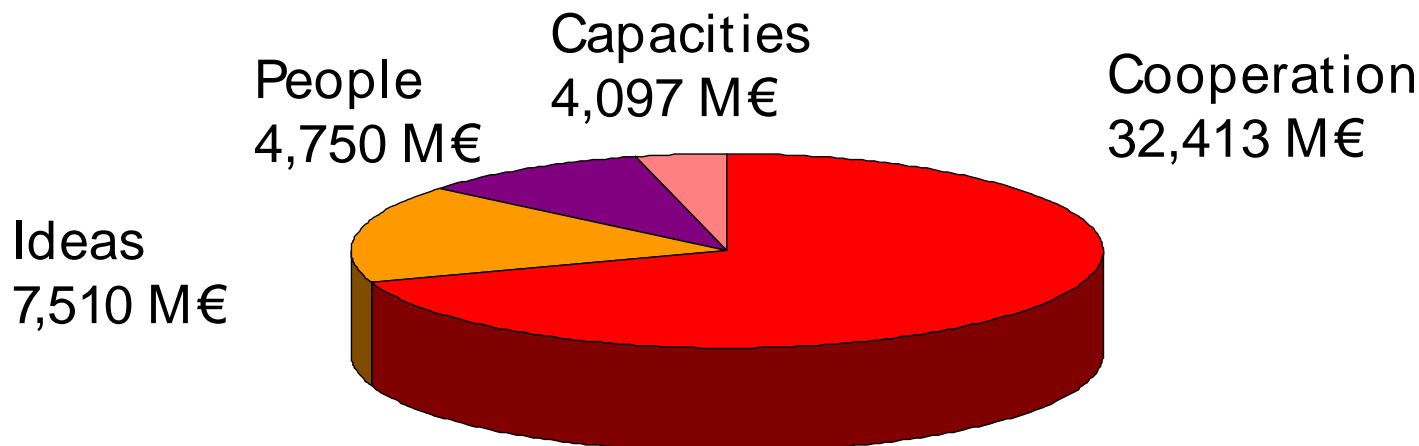
FP7 has 4 main chapters:

1. *Co-operation* – Collaborative research

2. *Ideas* – Frontier Research

3. *People* – Human Potential

4. *Capacities* – Research Capacity

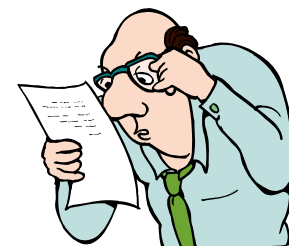


Chapter 1: Co-operation Programme – Budget €32b

1. Health
2. Food, Agriculture and Fisheries, Biotechnology
3. Information and Communication Technologies
4. Nanosciences, Nanotechnologies, Materials and new Production Technologies
5. Energy
6. Environment (including Climate Change)
7. Transport (including Aeronautics)
8. Socio-Economic Sciences and the Humanities
9. Security
10. Space

Funding Fundamentals

- Innovative Projects
- 75% FEC support
 - The Commission give their fraction of what is spent
- Involving Partners from Multiple Countries
 - At least 3
- In Topics identified by The Commission's Workprogramme
- In response to specific calls for Proposals
- By means of a Grant Agreement with The European Commission



In detail... A typical FP7 Project will....

- ✓ Carry out excellent Innovative Research & Development
- ✓ Address a specific Call within a Work Programme
- ✓ Have an impact that aligns with the aims of the Work Programme
- ✓ Be project-managed effectively
- ✓ Involve at least 3 countries
- ✓ Contain 4 (very small) to 30 (very large) partners
- ✓ Last approximately 2 to 4 years
- ✓ Benefit from not only their own supported expenditure but also that of their partners
- ✓ Become part of a community and expand their networks
- ✓ Get access to and acquire new skills, knowledge etc

How NMP Proposals are evaluated:

Large, Small and SME projects are Collaborative Projects
-organisations from at least 3 countries

They (usually) have a 2-stage procedure
– Stage 1 is a 10-page summary proposal for a quick yes/no

Projects are marked on Technical Excellence, Impact and Project Management
(stage 2 only)

Examples of Collaborative Projects

- **Large** scale integrating collaborative projects
 - >4m€ Funding (typically €6-8m, ~12-20 organisations)
 - Still pre-competitive research, but tying closer into end markets and applications.
 - Higher dissemination & training element
- **Small** or medium-scale focused research projects
 - <4m€ Funding (Typically €2-3m, ~6-10 organisations)
 - Generally research focused with some end markets & applications
- **SME** collaborative projects (note KBBE)
 - Aimed at making SMEs research and knowledge-driven
 - >35% SME participation (no prescribed No. of participants)
 - SME drive (not necessarily the coordinator)

NMP.2011.2.2-5 - Development of advanced compatible materials and techniques and their application for the protection, conservation and restoration of cultural heritage assets

Technical Content / Scope:

Ageing, environmental conditions, use in public or private spaces or in exhibitions and museums, transport as well as unpredictable events, lead to damages of movable and immovable cultural heritage assets.

Research proposals should develop advanced compatible materials (e.g. Consolidants, coatings, substitutes etc.) and /or techniques (e.g. cleaning methods, reinforcement etc.) to secure the conservation of the original objects and/or improve the physical state of the damaged objects.

Expected Impact:

Longer lasting solutions in the conservation of cultural assets with historical and/or artistic value. The result of the research projects in this area should clearly benefit SMEs and are expected to create a favourable economic impact on the sector concerned.

Funding Scheme: SME – targeted collaborative projects

Maximum project size: €3m

Capacities – Research for the Benefit of SMEs

- “Research for the Benefit of SMEs” provides financial support to SMEs to outsource research and technological development to 'RTD performers'. SMEs own the IP.
- The scheme employs a 'bottom-up approach', meaning projects may address any research topic.
- The SME participants receive the technological know-how from the RTD performer to allow them to develop, or improve, new or existing products, systems, processes or services.
- Whilst this funding is aimed at SMEs, large organisations can participate as an “end-user” and route to market.
- Funding ~110 projects will be funded at ~€1M each
- Single stage deadline - December 8th 2010

Capacities – Research for SME Associations

- “Research for SME Associations” aims at developing technical solutions to problems common to a large number of SMEs in specific industrial sectors or segments of the value chain.
- The scheme employs a ‘bottom-up approach’, meaning projects may address any research topic.
- Projects can, for example, aim to develop or conform to European norms and standards, and to meet regulatory requirements in areas such as health, safety and environmental protection.
- Whilst this funding is aimed at SMEs, large organisations can participate as an “end-user” and route to market.
- Funding ~40 projects will be funded at ~€2.5M each
- Single stage deadline - December 8th 2010

NMP 2011 Call 5 General Timescales & Details

(2-stage):

Call Publication 20th July 2010

1st Stage Deadline 4th Nov 2010

2nd Stage Deadline April 2011

*There will be some variations to this – always read the detail! (i.e. PPP 2nd
Dec, joint calls, etc)*

FP7 UK National Contact Points:

0870 600 6080

- ✓ fp7uk@innovateuk.org
- ✓ <https://ktn.innovateuk.org/web/fp7uk>

The Official Commission FP7 Website, Cordis is:

http://cordis.europa.eu/fp7/home_en.html

An overview: Support for companies in accessing European funding

	National Contact Points	Enterprise Europe Networks	KTNs
Information on FP7 and other European funding opportunities			
Assistance with consortium building			
Sector or technology specific advice			
Identification of project partners in other EU Member States			
Advice on management aspects of EU projects			
Advice on proposal construction and positioning			
Proposal writing			
Collaborative Project Management or co-ordination			
Advice on market opportunities			
Identification of potential business partners			
Advice on European legislation			

Sources of UK Funding

Technology-Inspired Collaborative Research and Development call

- **October 2010 competition for funding with up to £18m allocated**
- *“...especially keen to encourage innovation in new enabling technologies that have the potential to span different disciplines and may not be directly driven by society’s challenges.”*
- The core technology areas covered by this competition are:
 - Advanced Materials; Biosciences; Electronics, Photonics and Electrical Systems; High Value Manufacturing; Information and Communications Technology; Nanotechnology.
- ***“Advanced Materials: Sustainability in relation to transport, construction and the ‘reduce, reuse and recycle’ agenda, including packaging and materials for carbon capture”***
- Stage 1 – Competition opens **12 Oct 2010**; EoI deadline **18 Nov 2010**
- Stage 2 – opens **13 Dec 2010**; full applications Deadline **27 Jan 2011**

Strategic Projects to Access Research and Knowledge -SPARK Awards

- Awards up to £5000 available for UK based companies to fund problem solving, proof-of-concept technology demonstration and other development activities in the field of nanotechnology
- Research work carried out by or in collaboration with The University of Glasgow.
- Short term projects (maximum 4 months)
- Simple application process

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Thank you