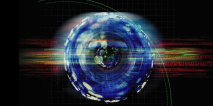


Opportunities in Framework Programme 7 & Technology Strategy Board – Technology Programme

Craig Sharp

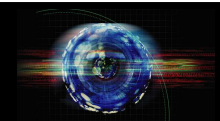
National Contact Point

*Nanosciences, Nanotechnologies, Materials and new
Production Technologies - NMP*

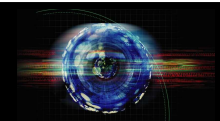


This Presentation

- ✓ Commonality
- ✓ Technology Programme
- ✓ FP7 Overview
- ✓ Approach & sample FP7 call details
- ✓ *Refreshments...*



Commonality

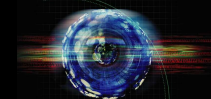


FP7 and Technology Programme

- ✓ Projects are collaborative (FP7 – min 3 partners, 3 countries; Technology Programme – min 2 partners)
- ✓ Both operate through a competitive call system
- ✓ Many rules similar
- ✓ Call details on programme websites
- ✓ Electronic submission process

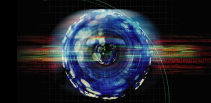
Technology Programme - www.technologyprogramme.org.uk

FP7 - http://cordis.europa.eu/fp7/home_en.html



Benefits of Funding Schemes

- ✓ 25-75% of the cost of what you should be doing
- ✓ Supply chain development and security
- ✓ Product development – access to new and different technologies
- ✓ Provide access to new business markets
- ✓ Support a medium to long term view
- ✓ Raise profile
- ✓ Staff development & interest

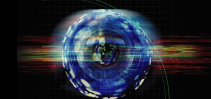


Questions to Ask

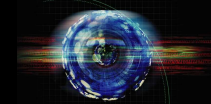
- ✓ Does it fit within our business strategy?
- ✓ Will it address our business needs?
- ✓ What are our chances of success?
- ✓ How are we going to participate?
- ✓ How much time will we need to commit?
- ✓ Who is going to do the work?
- ✓ How close am I to the market?

Funding is competitive.

So – The act of applying needs to be value added!

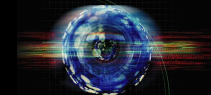


UK Collaborative R&D Opportunities Technology Programme - Overview



Technology Programme - Collaborative R&D competitions

- Funded by the Technology Strategy Board
- Key mechanism for supporting business R&D
 - Business and research communities work together on research & technology projects to deliver new products and services
 - Previously 2 sets of calls per year
 - Collaborative Research & Development projects must have two or more collaborators, at least one from business
 - Project areas derived from Key Technology Areas and Innovation Platforms
 - Since 2004 more than 700 Collaborative R&D projects approved for funding - over £1 billion of R&D activity
 - Database of funded projects available from:
<http://www.dius.gov.uk/policy/innovation.html>



Key Technology Programme Areas - Sensors

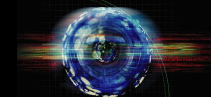
Underpinning Technologies

- Advanced Manufacturing
- Advanced Materials
- Bioscience
- Electronics, Photonics & Electrical Technologies
- Information and Communication Technologies

Application Areas

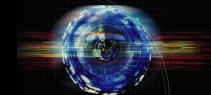
- Environmental Sustainability
- Energy Generation and Transmission
- Healthcare
- Transport (focus on aerospace & automotive)
- Creative Industries
- High Value Services
- Built Environment

...areas where UK has capacity to develop and exploit the technology and there is global market potential



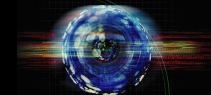
Example - Technology Programme (Autumn 07 ICT): Gathering Data in Complex Environments

- Will involve assembly of multiple components e.g.:
 - power management and conservation mechanisms
 - sensor packaging/interfaces
 - authoring and adjustment tools
 - autonomic (mobile) sensors and networks
 - infrastructure integration (wired, wireless and/or satellite links)
 - storage of and access (local and remote) to collected data
 - incorporation of sensing components into existing devices
 - on-board filtering of data



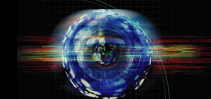
Example - Technology Programme: Gathering Data in Complex Environments

- Projects are encouraged to engage end-users from the start
- Example applications:
 - **Retail**: stock tracking and logistics
 - **Transport**: traffic management, infrastructure planning and maintenance; automotive / aerospace instrumentation & control
 - **Chemical / Manufacturing**: process monitoring; purity and pollution monitoring; condition monitoring; safety-critical monitoring
 - **Environmental** monitoring; utilities supply; disaster prediction and response
 - **Healthcare**: assisted living and health monitoring of ambulatory patients
- **£10m competition budget for proposals – EOI closed 14 April**

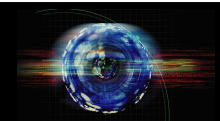


Tips for Success

- ✓ Read the literature,
- ✓ Get the right people together,
- ✓ Understand your ultimate Market,
- ✓ Attractive to have other government support,
- ✓ Talk to the Programme, we're here to help!
- ✓ Complete the application forms as instructed,
- ✓ Check the deadlines - www.technologyprogramme.org.uk

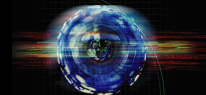


FP7 - Overview



What Framework 7 is

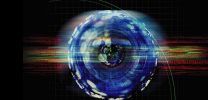
- The European Commission's main funding programme for research in Europe
- It is a 7 year programme and runs from 2007 to 2013
- The Collaborative R&D budget is over €32 billion
- It will support research in selected priority areas
- It aims to make, or keep, the EU as a world leader in those sectors
- Calls announced through FP7 (Cordis) website (http://cordis.europa.eu/fp7/home_en.html)



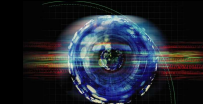
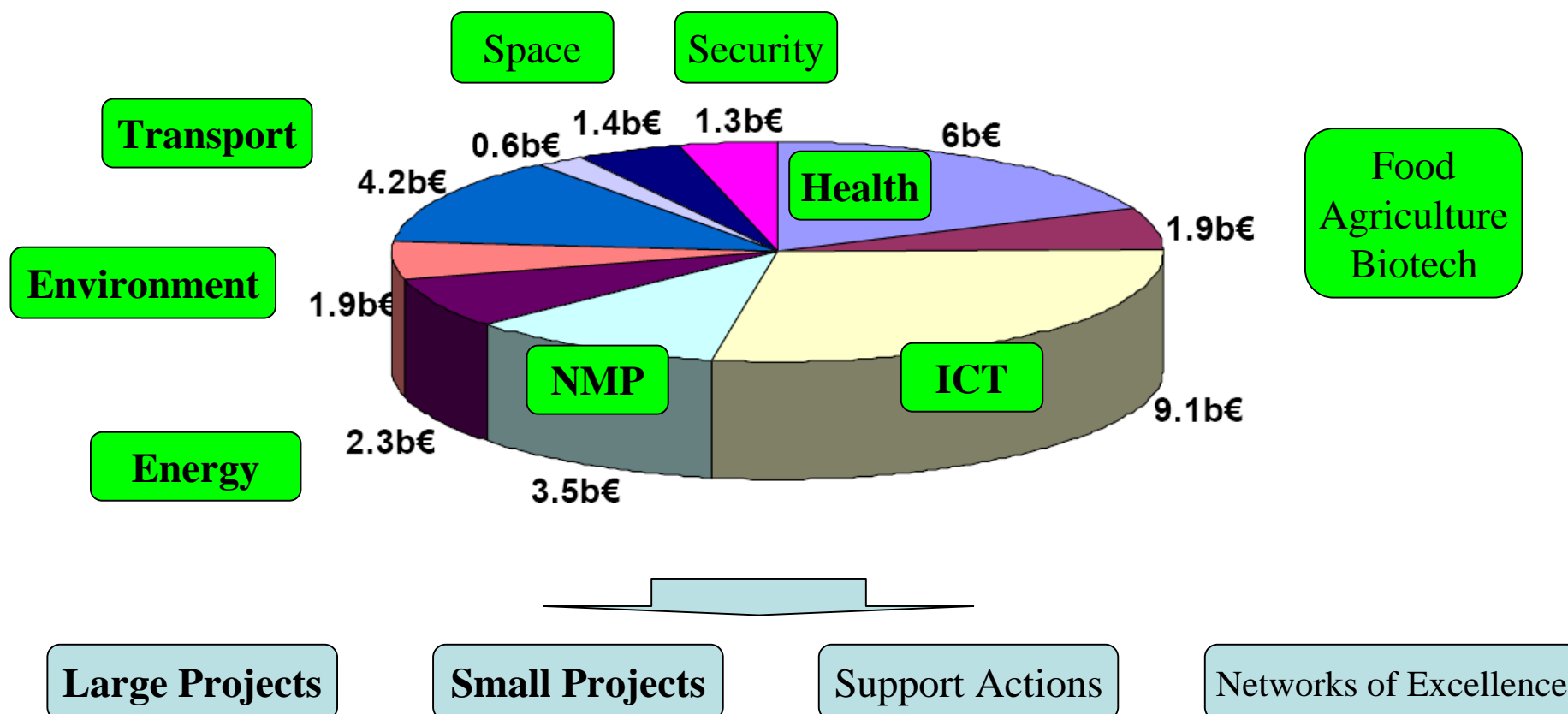
Why is Framework important to the UK?

**FP6 has been worth over €1.4b so far to the UK
.....in support of UK research activities**

	Number of Participations	Value (€m)	% of FP6 funding
Germany	5,943	1,827	18.92
UK	5,022	1,451	15.03
France	4,417	1,303	13.50
All countries	41,233	9,654	



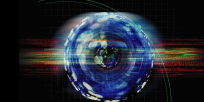
Cooperation (Core Technology or End Market)



UK vs Europe

Some things to consider....

	UK	Europe
✓ Effort	✓	
✓ Market Access		✓
✓ Learning curve	✓	
✓ Critical Mass		✓
✓ Additionality		✓

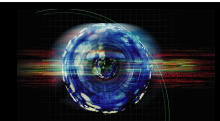


The bottom line at the top

- Companies that get involved in European funding tend to stay involved.
- It can be a positive experience and good for business

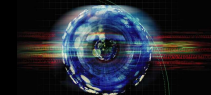
The important thing is to:

Go in prepared and with your eyes open!



Example of Collaborative Projects (NMP)

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



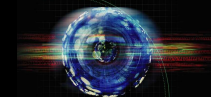
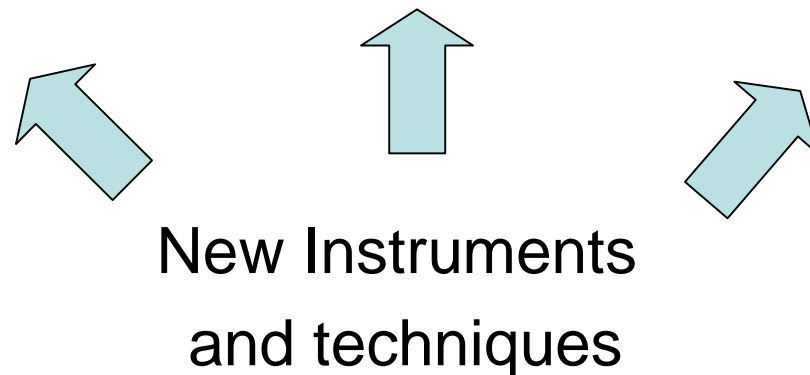
Sensing Project Opportunities

- As a direct component of a project (pre-normative research)
- Development of new instruments, sensors, control systems
- New protocols or standards

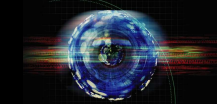
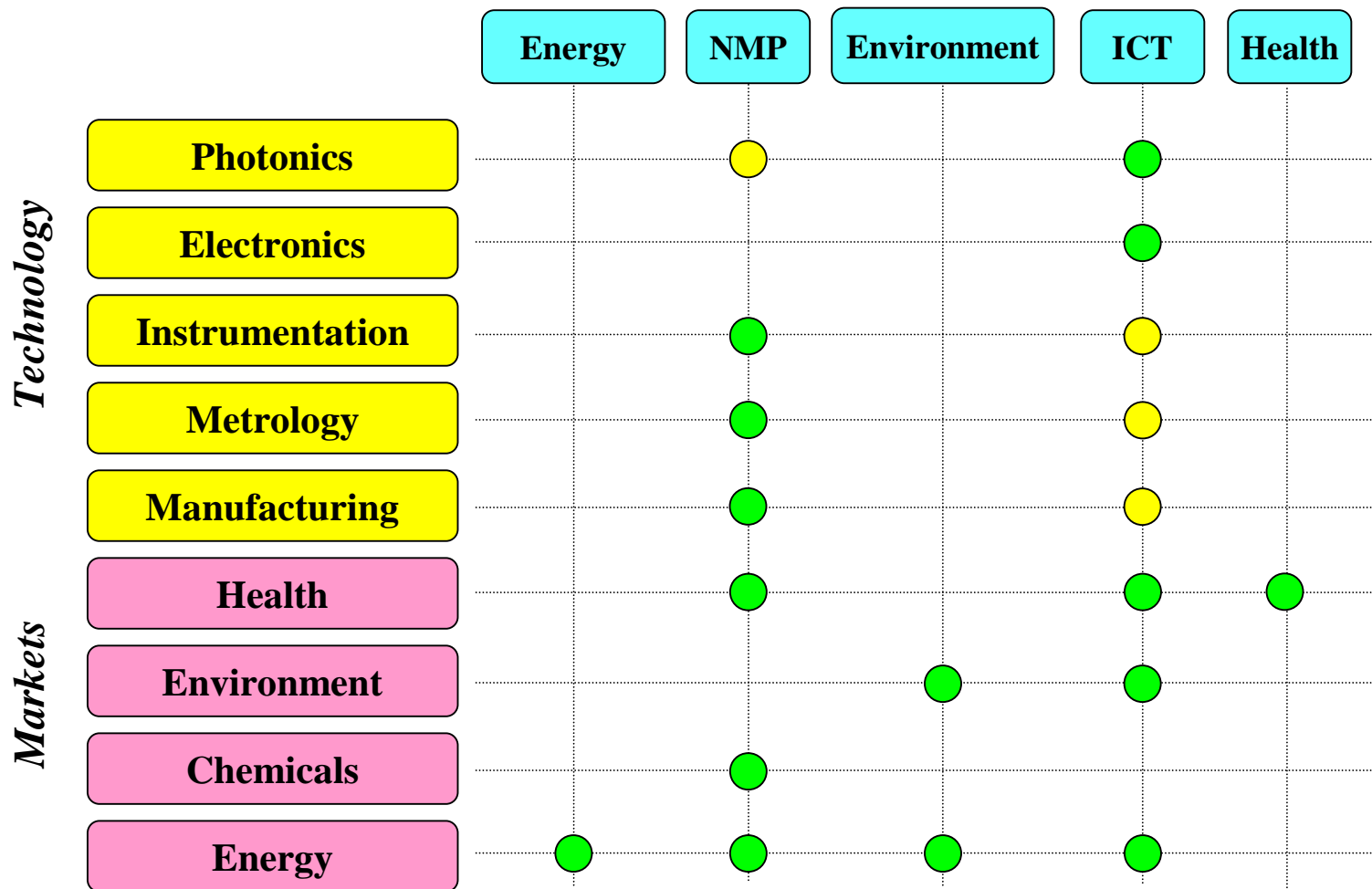
1. Development

2. Characterisation

3. End use and/or
monitoring

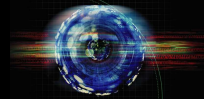
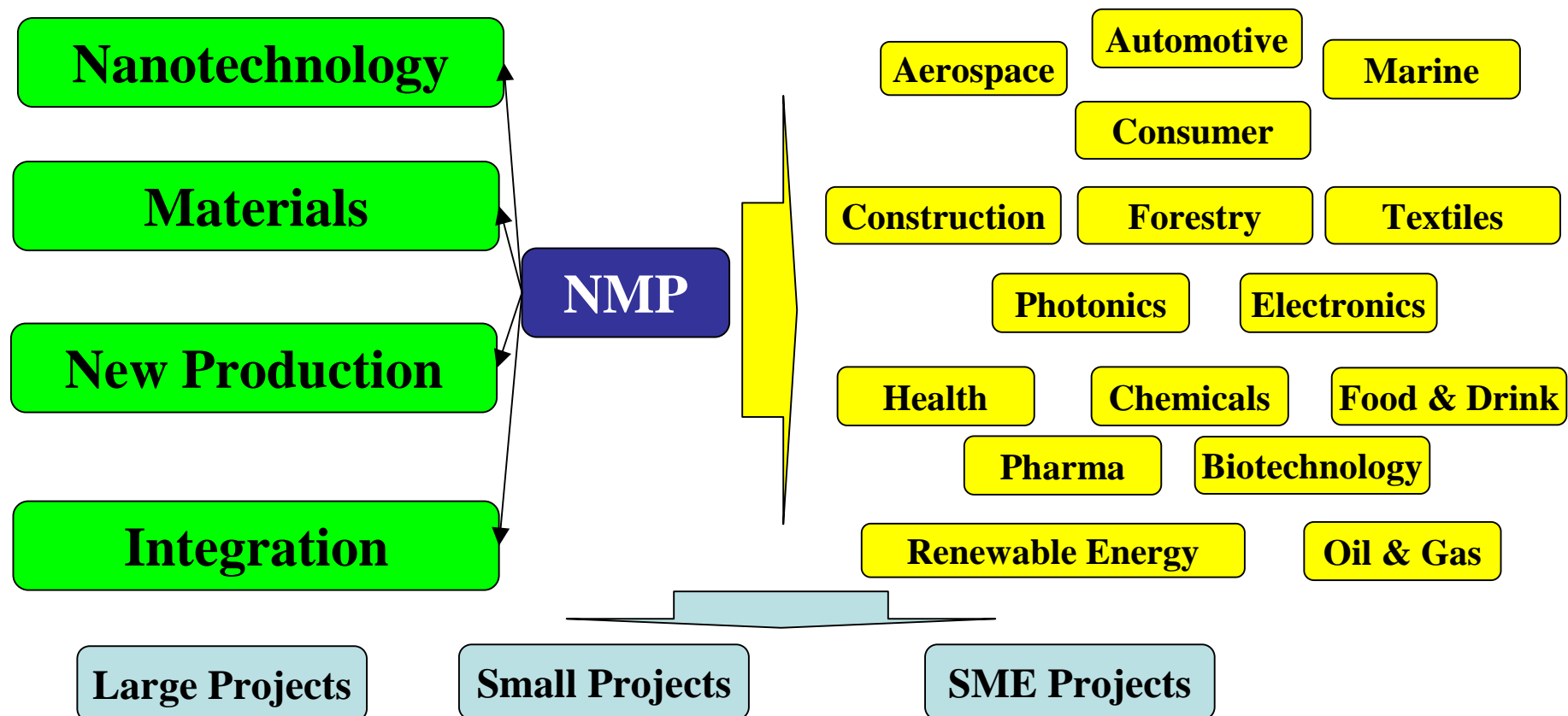


(Some) Possibilities in Sensing.....



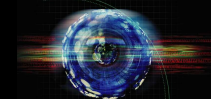
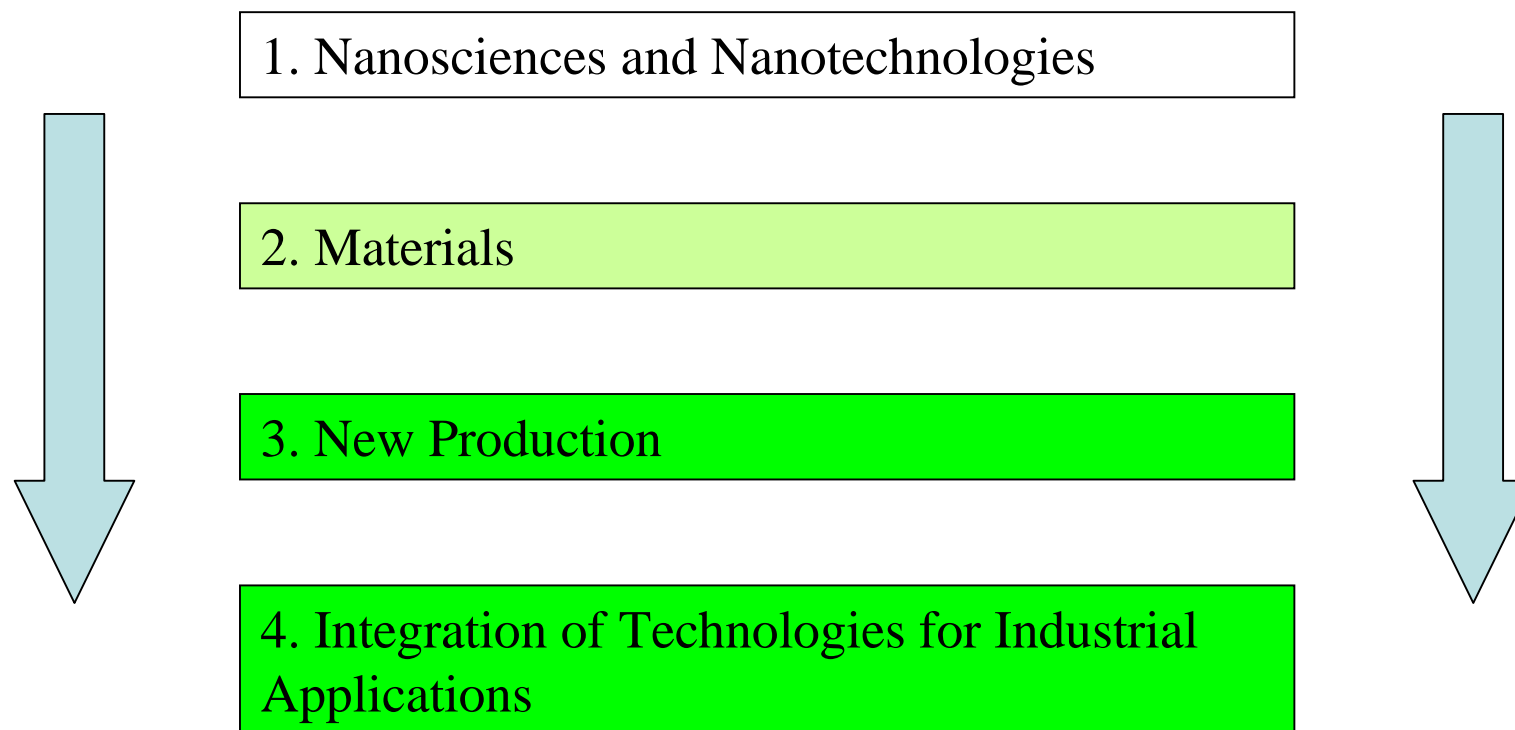
FP7 NMP: Core Nanotechnology CR&D

Improving industry competitiveness by developing, integrating and implementing high value-added technologies and processes



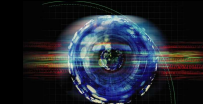
Technology Focus - NMP

Sensing links primarily into Manufacturing Integration, with some materials core technology applications.



Example: Indicative EC funding for the Second NMP Call - 2008

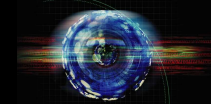
	LArge	SME	SMall	Other		
<p>45 topics</p> <p>500 M€</p>	<p>Large scale cooperative projects</p>	<p>SME-focused cooperative projects</p>	<p>Small or medium scale cooperative projects</p>	<p>Coordination & Support Actions (CSA)</p>	<p>ERA Net</p>	<p>ERA Net Plus</p>
<p>TOTAL of topics (45)</p>	13	5	15	7	3	1
<p>TOTAL EC budget 500 M€</p> <p><i>(indicative)</i></p>	240	65	170*	15	4	6



Example of a Call

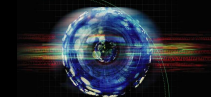
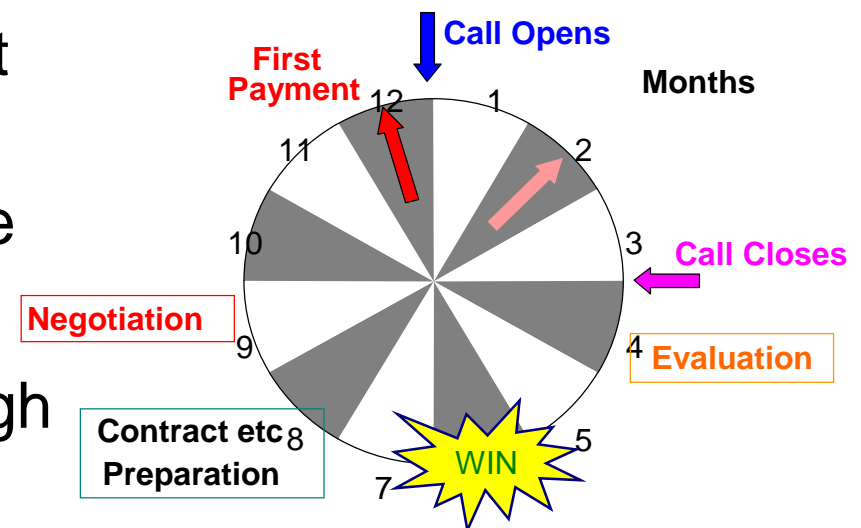
NMP-2008-SME-2:

- 2 stage evaluation
- Indicative EC funding 65M€
- 5 call topics – including:
 - 4.0-9 - Reducing the risk of injury in complex systems through advanced personal protective equipment



Planning and timing

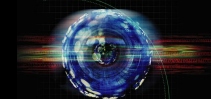
- If you are new – go in as a partner.
- Networking is the most difficult aspect of Collaborative R&D
 - Business Relationships are being developed
- A company needs to go through its own business development process
- Call open to first money is about a year



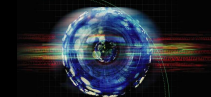
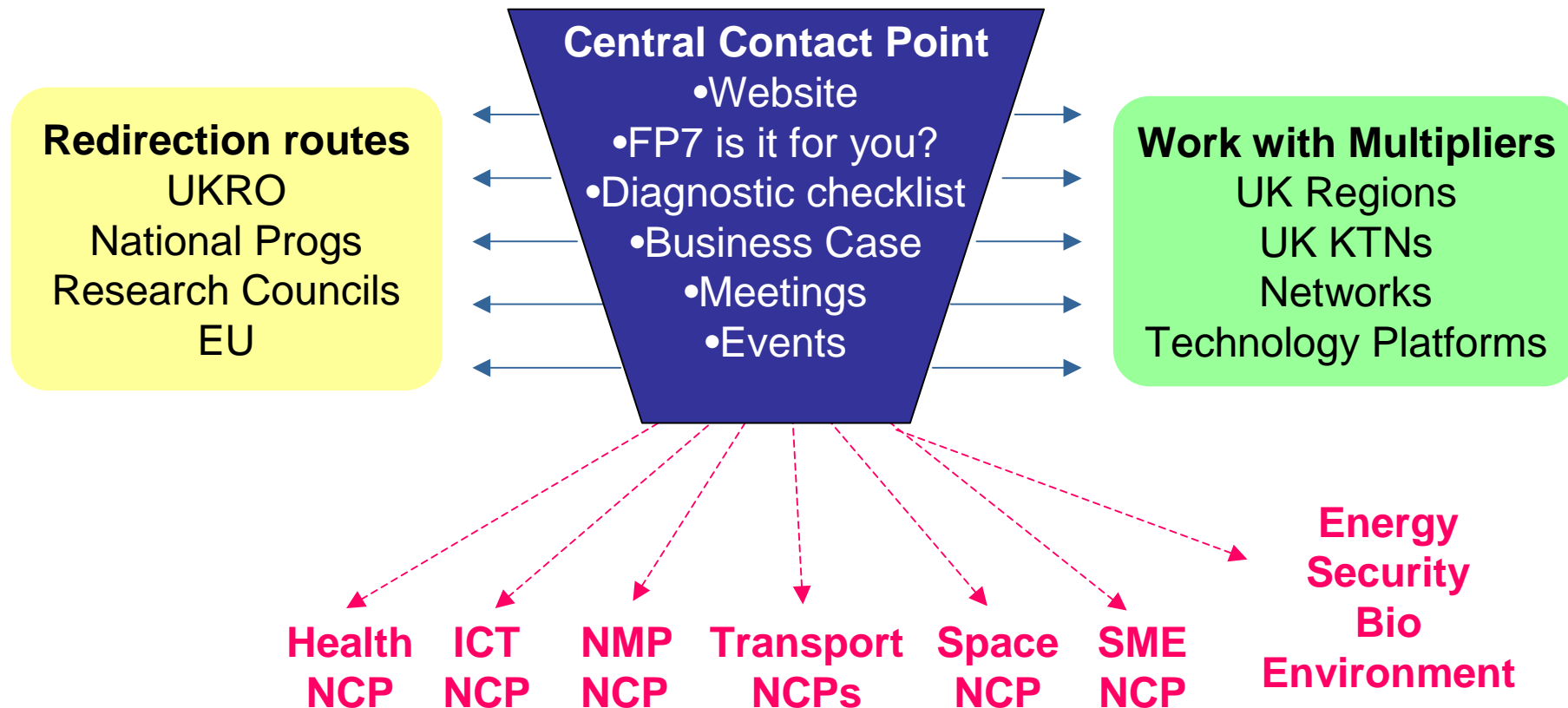
Partnering and Networking: Many Options

- The UK Knowledge Transfer Networks
- Innovation Relay Centres
- European Technology Platforms
- Trade Associations
- Your own Supply Chain!

Use them to fit your purpose as a business.

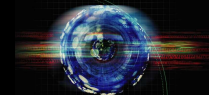


FP7 support - Integrated approach



How FP7UK Can Help

- ✓ Helping you decide your strategy
- ✓ The Work Programmes in Detail
- ✓ Proposal positioning & links with the commission
- ✓ Some partnering – links to NCPs from other countries
- ✓ We encourage you to use KTNs
- ✓ The do's and don'ts of applying



Advice and Assistance in the UK

FP7UK National Contact Points

www.fp7uk.co.uk

- ✓ 0870 600 6080
- ✓ help@fp7uk.co.uk

The Official Commission FP7 website, Cordis is:

<http://cordis.europa.eu/fp7>

Technology Strategy Board - Technology Programme:

www.technologyprogramme.org.uk

- ✓ 01355 272155
- ✓ info@technologyprogramme.org.uk

