

FP7UK

NMP and PPP 2010 Calls

Dr. Alastair McGibbon

National Contact Point

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

This Presentation:

FP7 in general

NMP and the 2010 Call

The PPPs and the 2010 Call

FP7 in General

Business Development Drivers

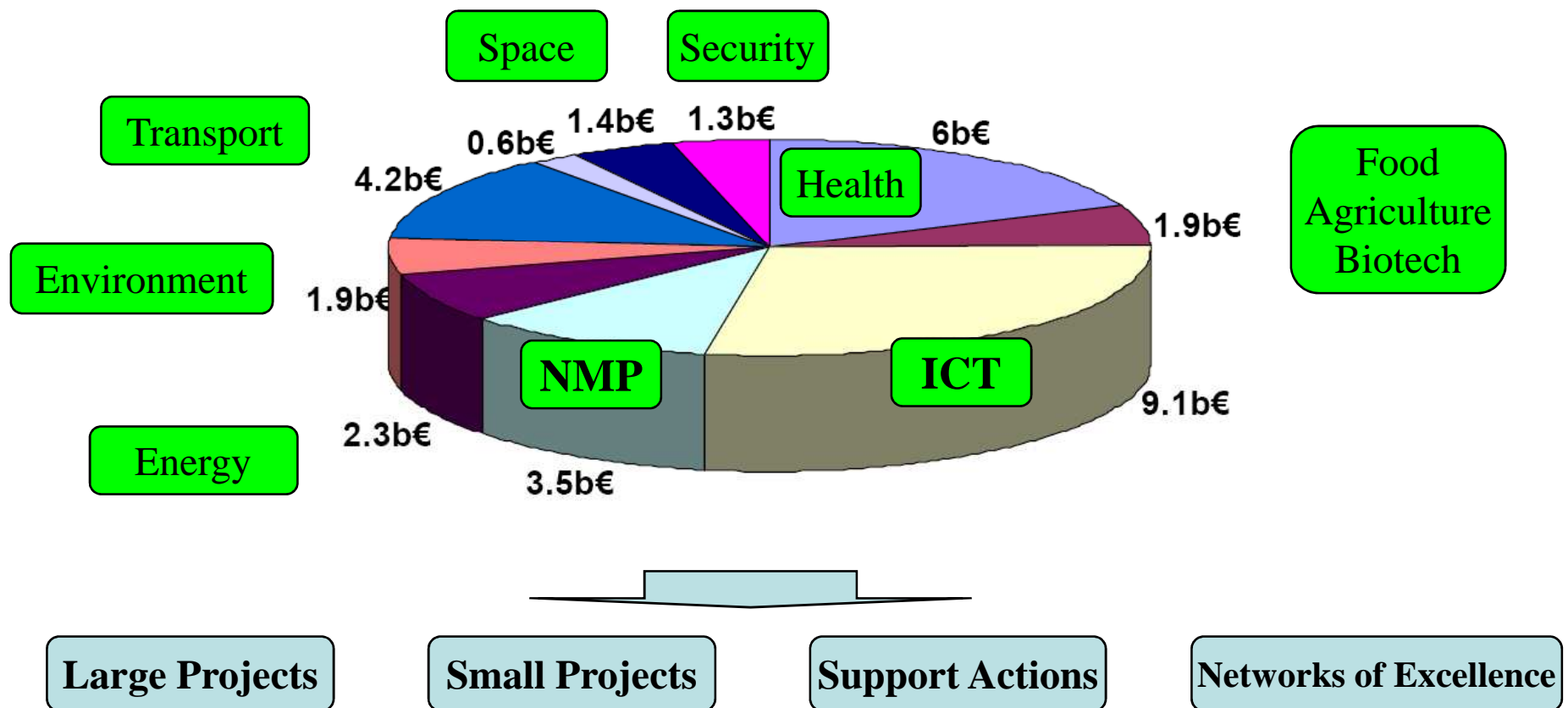
Funding activities must be seen as a
Business Development Tool.

- Engagement in activities that are value added – strategically *and* operationally if possible.
- Assistance in helping to develop IP, products and people.
- Partnering with strategic customers and end-users
- Forming Supply Chain alliances

Funding is competitive.

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

Chapter 1 Cooperation (Core Technology or End Market CR&D)



Funding Fundamentals

- Innovative Projects
- 50% support – more for an SME, Academic, etc
 - The Commission give their fraction of what is spent
- Involving Partners from Multiple Countries
 - At least 3
- In Topics identified by The Commission's Work programme
- In response to specific calls for Proposals
- By means of a Grant Agreement with The European Commission



NMP and the 2010 Call

What NMP is about

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

- **Relevant to many sectors**
- **Relevant to many technologies**

NMP areas

NMP covers 4 main areas in the work programme:

- **N**anotechnology
- **M**aterials
- **N**ew **P**roduction
- **I**ntegration (with one or more elements of N, M or P, applying them to specific sectoral issues)

Directly Relevant Sectors in NMP calls

All these sectors have topics related to them in NMP Work Programmes:

Aerospace

Electronics

ICT

Photonics

Automotive

Energy

Manufacturing

Textiles

Biotechnology

Environment

Materials

Transport

Chemicals

Forestry

Nanotechnology

Construction

Health

Oil & Gas

NMP - Example of Collaborative Projects

- **Small** or medium-scale focused research projects
 - <4m€ Funding (Typically €2-3m, ~6-10 organisations)
 - Generally research focused with some end markets & applications
- **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
- **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

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)

Work Programme Main Features

- **Strategic use** of funding schemes
 - One funding scheme per topic
- Calls are by **funding scheme**
- Budget allocation is **by call** (not by Activity/area) size

Very Prescriptive Work Programme – proposal positioning is critical!

NMP 2010 (Call 4) Timescales and Details (2-stage):

Call Publication

30th July 2009

1st Stage Deadline

8th December 2009

2nd Stage Deadline

18th May 2010

There will be some variations to this – always read the detail!

NMP 2010 (Call 4) Budgets:

Small Projects	€50m over 5 topics
Large Projects	€105m over 7 topics
SME Projects	€20m over 2 topics
Coordinated Actions	€6.5 over 3 topics
International Cooperation	€12m over 2 topics

NMP Call: Topic Focus

Support to dialogue and engagement for responsible social acceptance of nanotechnology

NanoSciences & Converging Sciences

NMP.2010.1.1-1

CSA

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
Developing and delivering initiatives for public engagement in nanotechnology. 1 proposal will be funded (max eu1m)	Nanotechnology	Social Dialogue and Communication	Must line up with EC action plan on nanotechnology

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-NMP-2010-CSA-4	Eu6.5m over 3 topics	30-Jul-09	02-Feb-10	N/A - Single stage only

Novel tools integrating individual techniques for real time nanomaterials characterisation

NanoTechnologies & Converging Technologies	NMP.2010.1.2-1	SME
--	----------------	-----

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
Real time 'fit for purpose' characterisation tools for incorporation in nanotechnology production lines.	All Markets	Measurement, Characterisation, Manufacturing, Materials	

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-NMP-2010-SME-4	Eu20m over 2 topics	30-Jul-09	08-Dec-09	18-May-10

**Substitution of materials or components
utilising "green nanotechnology"**

NanoTechnologies & Converging Technologies	NMP.2010.1.2-2	Small
---	-----------------------	--------------

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
Reduce demand for scarce or environmentally unfriendly materials. Must be industrially relevant and beyond proof of concept.	All markets including biomedical and pharma.	Nanotechnology, Manufacturing, Materials, Environment	

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-NMP-2010-SMALL-4	Eu50m over 5 topics	30-Jul-09	08-Dec-09	18-May-10

Thermoelectric energy (TE) converters based on nanotechnology

NanoTechnologies &
Converging Technologies

NMP.2010.1.2-3

Small

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
Substantially improve ZT to enable nano-applications to compete with existing bulk materials. Proof of concept in scope on energy harvesting integration, modelling of properties and reliability and life-cycle cost.	End Market applications such as automotive and energy	Thermoelectric Nanotechnology in (e.g.) heat transfer and energy harvesting	Complementary to previous photovoltaics call

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-NMP-2010-SMALL-4	Eu50m over 5 topics	30-Jul-09	08-Dec-09	18-May-10

Adding Value to Mining at the Nanostructure level (Coordinated call with Mexico)

NanoTechnologies & Converging Technologies	NMP.2010.1.2-4	International Collaborative
--	----------------	-----------------------------

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
Development of nanostructures using mined materials. Large scale, low cost synthesis of metallic or non-metallic nanoparticles.	All Markets	Nanostructure and nanoparticle technologies	Mexico and ICPC Latin American Countries

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-NMP-2010-EU-Mexico	Eu6m (no more than Eu2m per proposal)	30-Jul-09	15-Dec-09	N/A - Single stage only

Reference methods for managing the risk of engineered nanoparticles

Nanotechnology Health, Safety & Environmental Impacts

NMP.2010.1.3-1

Large

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
Enabling future production systems to have validated risk management methodologies.	Nanotechnology	Nanoparticles, Risk Management	Must line up with REACH and EC action plan on nanotechnology

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-NMP-2010-LARGE-4	Eu105m over 7 topics	30-Jul-09	08-Dec-09	18-May-10

Modelling toxicity behaviour of engineered nanoparticles (Coordinated call with the USA)

Nanotechnology Health, Safety & Environmental Impacts

NMP.2010.1.3-2

International Collaborative

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
Develop justifiable and viable methods for modelling human health and environmental effects of engineered nanoparticles. Max funding of eu1m per project	Nanotechnology	Nanoparticles, Health & Safety, toxicity monitoring	Must have a US partner. Can have other 3rd country partners

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-NMP-2010-EU-USA	Eu6m (no more than Eu1m per proposal)	30-Jul-09	30-Nov-09	N/A - Single stage only

Organic-inorganic hybrids for electronics and photonics

Knowledge-based smart materials with tailored properties	NMP.2010.2.2-1	Small
--	----------------	-------

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
Synthesis and development of hybrids with new properties on the nanoscale. Applied also to hybrid interfaces.	Electronics, Photonics, ICT	Materials and processing technologies.	Photonics21 ETP

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-NMP-2010-SMALL-4	Eu50m over 5 topics	30-Jul-09	08-Dec-09	18-May-10

Development of standard scaffolds for the rational design of bioactive materials for tissue regeneration

Novel biomaterials and bioinspired materials	NMP.2010.2.3-1	Large
--	----------------	-------

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
Rational design criteria for biomaterials and implants - targetted for clinical use. Reduce reliance on costly in-vivo experiments	Biomedicine	Biomaterials, Modelling	

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-NMP-2010-LARGE-4	Eu105m over 7 topics	30-Jul-09	08-Dec-09	18-May-10

New materials and/or membranes for catalytic reactors

Advances in chemical technologies and materials processing	NMP.2010.2.4-1	Large
--	----------------	-------

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
Breakthrough concepts for process optimisation. Aim for positive environmental impact, use of advantageous raw materials, reduction of process steps	Chemicals	Materials, modelling, processes	Suschem ETP

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-NMP-2010-LARGE-4	Eu105m over 7 topics	30-Jul-09	08-Dec-09	18-May-10

Modelling of degradation and reliability of crystalline materials

Using engineering to develop high performance knowledge-based materials	NMP.2010.2.5-1	Small
---	----------------	-------

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
Move away for empirical or stochastic methods. Microstructural modelling of (e.g) High T ageing, corrosion, fatigue, wear. Better design of materials, products and equipment	All markets including construction.	Materials, modelling	

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-NMP-2010-SMALL-4	Eu50m over 5 topics	30-Jul-09	08-Dec-09	18-May-10

New industrial models for a sustainable and efficient production

Development and validation of new industrial models and strategies	NMP.2010.3.1-1	Small
--	----------------	-------

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
Development of tools for optimising products against customer usage. New devices, operation or service models for intelligent process or product design. Development and optimisation of production networks	All Markets	Business Modelling, Life cycle analysis	Manufature, Coordination with IMS Regions

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-NMP-2010-SMALL-4	Eu50m over 5 topics	30-Jul-09	08-Dec-09	18-May-10

Manufacturing systems for 3D-shaped, multilayered products based on flexible materials

Rapid transfer and integration of new technologies into the design and operation of manufacturing processes	NMP.2010.3.4-1	Large
---	----------------	-------

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
Development of turnkey solutions for end users. Integrate all aspects of systems, processes and supply chains.	All Markets including transport, construction, energy, PPE and Medical	Textiles, light-weight materials. Modelling, manufacturing, tooling.	Manufacture

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-NMP-2010-LARGE-4	Eu105m over 7 topics	30-Jul-09	08-Dec-09	18-May-10

Development of nanotechnology-based systems for detection, diagnosis and therapy for cancer

Integration	NMP.2010.4.0-1	Large
-------------	----------------	-------

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
Demonstrate potential for translation into clinical practice (but clinical trails are beyond scope) Strong linkage sought between industry and clinicians	Healthcare	Nano -structures, -devices and -sensors	European Healthcare Industry

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-NMP-2010-LARGE-4	Eu105m over 7 topics	30-Jul-09	08-Dec-09	18-May-10

Capacity building for the development of nanotech-based multi-parameter sensors

Integration	NMP.2010.4.0-2	Large
-------------	----------------	-------

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
One of 3 application areas: Medical diagnostics, pollution monitoring or process monitoring. Contribute to realisation of market potential.	Healthcare, Environment, Manufacturing	Nanotechnology, sensors	Nanomedecine, electronics, photonics and Industrial Safety ETPs

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-NMP-2010-LARGE-4	Eu105m over 7 topics	30-Jul-09	08-Dec-09	18-May-10

High throughput technologies for the development of formulated products

Integration	NMP.2010.4.0-3	Large
-------------	----------------	-------

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
Tools and techniques to move away from discrete, bespoke product development. Development of protocol for formulation and implementation at pilot scale.	Chemicals, Nanotechnology, Healthcare, Pharma	Manufacturing, Modelling, Chemistry	Suschem

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-NMP-2010-LARGE-4	Eu105m over 7 topics	30-Jul-09	08-Dec-09	18-May-10

A new generation of multi-functional fibre-based products produced by new and flexible manufacturing concepts

Integration	NMP.2010.4.0-4	SME
-------------	----------------	-----

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
Includes New functional components, printing or embedding techniques, new adaptable manufacturing processes.	All markets - focus on new markets with high growth potential	Paper and cardboard integrating nanotechnology, biotechnology, ICT and sensors	

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-NMP-2010-SME-4	Eu20m over 2 topics	30-Jul-09	08-Dec-09	18-May-10

The PPPs and the 2010 Call

What are the PPPs?

- **Public Private Partnerships**
- Re-focused FP7 money on three areas identified in the 2008 European Economic Recovery Package:
 - Factories of the Future (€600m from Commission)
 - Green Cars (€600m)
 - Energy Efficient Buildings (€500m)
- They are **NOT** Joint Technology Initiatives (JTIs)

How are the PPPs to be implemented?

- Budgets come from the different thematic area budgets
 - e.g. 'Factories' is 2/3 NMP, 1/3 ICT
- This year (and probably next year) Calls will be coordinated calls between the different themes, **following normal FP7 rules.**
- After that – they *may* start to look more 'JTI-like' with more direct involvement of the European Technology Platforms.

NMP in the 2010 PPP Call

- Opens 30th July
- Closes 3rd November (*14th Jan for green cars*)
- Single stage call only (to speed it up in EC terms)
- No discrimination between large and small projects – any size project allowed for each topic (*except green cars - €4m cap per project*).

For example, In NMP:

- €10m for ‘cars’
- €30m for ‘buildings’
- €60m for ‘factories’

PPP Call: Topic Focus – Factories of the Future

Plug-and-Produce components for adaptive control

Factories of the Future PPP	FoF.NMP.2010-1	Collaborative
-----------------------------	----------------	---------------

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
Hold manufacturing processes at optimal performance. Integration of multiple technologies - energy harvesting in scope.	Manufacturing in all markets	Smart, active and passive materials, sensors and actuators, manufacturing	Manufuture

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-2010-NMP-ICT-FoF	Eu60m over 3 topics	30-Jul-09	03-Nov-09	N/A - Single stage only

Supply chain approaches for small series industrial production

Factories of the Future PPP	FoF.NMP.2010-2	Collaborative
------------------------------------	-----------------------	----------------------

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
ICT enabling of processes, tools, products and supply chains with high value-add products.	All markets, including health, consumer, automotive, electronics and high-end equipment.	Data capture and management, CAD, logistics.	Manufature

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-2010-NMP-ICT-FoF	Eu60m over 3 topics	30-Jul-09	03-Nov-09	N/A - Single stage only

Intelligent, scalable, manufacturing platforms and equipment for components with micro- and nano-scale functional features

Factories of the Future PPP	FoF.NMP.2010-3	Collaborative
------------------------------------	-----------------------	----------------------

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
Enhance the European micro and nano-manufacturing industry. Includes design and modelling of manufacturing platforms, in-line control, handling, yield management etc.	Manufacturing in all markets	Micro and nanotechnologies, modelling, sensors, manufacturing	MINAM

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-2010-NMP-ICT-FoF	Eu60m over 3 topics	30-Jul-09	03-Nov-09	N/A - Single stage only

Smart Factories: ICT for agile and environmentally friendly manufacturing

Factories of the Future PPP	FoF.ICT.2010.10-1	Collaborative
-----------------------------	-------------------	---------------

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
IPs in (a) Integrated process automation and optimisation for sustainable manufacturing IPs in (b) Real-time monitoring of energy use and material flow STRPs in (c) Robotics-enabled production processes tested and validated in real-world environments STRPs in (d) Laser applications in energy-efficient processes and/or production of environmentally friendly products.	Manufacturing in all markets	ICT, Software, informatics, robotics lasers	Eniac, Artemis, Europ, Photonics2 1

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-2010-NMP-ICT-FoF	Eu33.5m over 4 targetted outcomes	30-Jul-09	03-Nov-09	N/A - Single stage only

Smart Factories: ICT for agile and environmentally friendly manufacturing

Factories of the Future PPP	FoF.ICT.2010.10-1 (targetted outcome e)	CSA
--------------------------------	---	-----

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
Coordination between all relevant stakeholders to facilitate an industrial vision and roadmap in ICT for Factories of the Future. 1 proposal expected.	Manufacturing in all markets	Industry links and representation	Eniac, Artemis, Europ, Photonics21, Manufacture, IMS

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-2010-NMP-ICT-FoF	Eu33.5m over 4 targetted outcomes	30-Jul-09	03-Nov-09	N/A - Single stage only

**PPP Call: Topic Focus –
Energy Efficient buildings**

New nanotechnology-based high performance insulation systems for energy efficiency

Energy Efficient Buildings PPP	EeB.NMP.2010-1	Collaborative
---------------------------------------	-----------------------	----------------------

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
Enable thinner coatings or fillings than using conventional materials. Combine insulation with other properties such as (e.g.) photochromic, flame retardant, biocidal etc.	Construction	Nanotechnologies, nanomaterials	Construction ETP

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-2010-NMP-ENV-ENERGY-ICT-EeB	Eu30m over 2 topics	30-Jul-09	03-Nov-09	N/A - Single stage only

New technologies for energy efficiency at district level

Energy Efficient Buildings PPP	EeB.NMP.2010-2	Collaborative
---------------------------------------	-----------------------	----------------------

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
Concepts, technologies, design tools and business models at district level for 'intelligent buildings'. Includes pilot implementation in industrial settings.	Construction	Construction technologies, ICT, sensors, modelling.	Construction ETP

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-2010-NMP-ENV-ENERGY-ICT-EeB	Eu30m over 2 topics	30-Jul-09	03-Nov-09	N/A - Single stage only

Compatible solutions for improving the energy efficiency of historic buildings in urban areas

Energy Efficient Buildings PPP	EeB.ENV.2010.3.2.4-1	Collaborative
--------------------------------	----------------------	---------------

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
Develop new compatible technologies, systems and materials for improved energy efficiency. Ensure sustainable protection and integration in urban areas. Strong SME participation required - max funding of Eu5m per project.	Construction	Materials, ventilation, heating and lighting technologies, integrated systems.	Construction ETP

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-2010-NMP-ENV-ENERGY-ICT-EeB	Eu5m	30-Jul-09	03-Nov-09	N/A - Single stage only

Demonstration of Energy Efficiency through Retrofitting of Buildings

Energy Efficient Buildings PPP	EeB.ENV.2010.3.2.4-1	Collaborative
--------------------------------	----------------------	---------------

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
Demonstrate efficient retrofitting technologies for large-scale market deployment before 2020. Demo can be in single buildings or a number of buildings in one or more countries.	Construction	Energy-efficient technologies	Construction ETP

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-2010-NMP-ENV-ENERGY-ICT-EeB	Eu15m	30-Jul-09	03-Nov-09	N/A - Single stage only

ICT for energy-efficient buildings and spaces of public use

Energy Efficient Buildings PPP	EeB.ICT.2010.10-2 (Targetted Outcome a)	Collaborative
---------------------------------------	--	----------------------

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
STRPs on (a) Integrated ICT-based management and intelligent control systems governing all energy-efficient sub-systems. Building insides, exteriors and surrounds. Can include (e.g.Solid state lighting, air treatment)	Construction	ICT Devices and systems	

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-2010-NMP-ENV-ENERGY-ICT-EeB	Eu14m	30-Jul-09	03-Nov-09	N/A - Single stage only

ICT for energy-efficient buildings and spaces of public use

Energy Efficient Buildings PPP	EeB.ICT.2010.10-2 (Targetted Outcome b)	CSA
--------------------------------	---	-----

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
One coordinated Action on (b) European "ICT for Energy-efficient Buildings" Forum - bring together all key stakeholders.	Construction	Industry links, capabilities and representation	Updating the REEB research roadmap

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-2010-NMP-ENV-ENERGY-ICT-EeB	Eu1m	30-Jul-09	03-Nov-09	N/A - Single stage only

PPP Call: Topic Focus – Green Cars

Materials, technologies and processes for sustainable automotive electrochemical storage applications

Green Cars PPP	GC.NMP.2010-1	Collaborative
----------------	---------------	---------------

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
Materials and technologies for battery and/or electrochemical capacitors components, material architectures and systems. Re-use, recycling and recovery of lithium batteries also in scope. Grants must not exceed eu4m.	Automotive	Materials	Automotive ETP

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-2010-GC-ELECTROCHEMICAL-STORAGE	Eu25m (no more than Eu1m per proposal)	30-Jul-09	14-Jan-10	N/A - Single stage only

Electrical machines

Green Cars PPP	GC.SST.2010.7-1	Collaborative
-----------------------	------------------------	----------------------

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
New concepts , including research on high performance conductive, magnetic and insulating materials. Also includes: High efficiency colling concepts; advanced magnetic modelling tools.Needs to be compatible with future advanced, high volume manufactruing.	Automotive	Materials, Systems, Modelling, design, Integration technologies.	

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-SUSTAINABLE SURFACE TRANSPORT (SST)-2010-RTD-1	Eu40m over 7 topics	30-Jul-09	14-Jan-10	N/A - Single stage only

Integrated electric auxiliaries and on-board systems

Green Cars PPP	GC.SST.2010.7-2	Collaborative
-----------------------	------------------------	----------------------

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
Develop optimised electrified components and subsystems. Develop energy harvesting concepts. Look at other energy control devices such as actively controlled glasses	Automotive	Power management, Electronic devices and systems, sensors, energy-harvesting technologies, active materials.	Synergies with light rail desirable

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-SUSTAINABLE SURFACE TRANSPORT (SST)-2010-RTD-1	Eu40m over 7 topics	30-Jul-09	14-Jan-10	N/A - Single stage only

Optimised thermal engine development and integration

Green Cars PPP	GC.SST.2010.7-3	Collaborative
----------------	-----------------	---------------

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
Compact clean, low cost, low energy consumption. Alternative and innovative architectures in scope. Extremely downsized engines also in scope	Automotive	Engine design and integration	

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-SUSTAINABLE SURFACE TRANSPORT (SST)-2010-RTD-1	Eu40m over 7 topics	30-Jul-09	14-Jan-10	N/A - Single stage only

Smart storage integration

Green Cars PPP	GC.SST.2010.7-4	Collaborative
-----------------------	------------------------	----------------------

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
Physical integration of batteries. Includes innovative concepts and/or integration with on-board systems. Evaluate this in terms of removable packs.	Automotive	Automotive design and integration	

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-SUSTAINABLE SURFACE TRANSPORT (SST)-2010-RTD-1	Eu40m over 7 topics	30-Jul-09	14-Jan-10	N/A - Single stage only

Advanced electric vehicle concepts

Green Cars PPP	GC.SST.2010.7-5	Collaborative
-----------------------	------------------------	----------------------

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
Moving away from constraints of internal combustion engine in a car. In scope: lightweight and crashworthy architectures; aerodynamics; ergonomics; modular architectures. Take a holistic approach	Automotive	Automotive design and integration	

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-SUSTAINABLE SURFACE TRANSPORT (SST)-2010-RTD-1	Eu40m over 7 topics	30-Jul-09	14-Jan-10	N/A - Single stage only

Implementing Public-Private Partnership in the European Green Cars initiative

Green Cars PPP	GC.SST.2010.7-6	CSA
----------------	-----------------	-----

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
Link in with stakeholders and other related technology projects and programs	Automotive	Industry, regional and ETP links	ERTRAC, Eposs, Smart Grid

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-SUSTAINABLE SURFACE TRANSPORT (SST)-2010-RTD-1	Eu40m over 7 topics	30-Jul-09	14-Jan-10	N/A - Single stage only

Raising awareness of potential jobs opportunities related to the electrification of road transport

Green Cars PPP	GC.SST.2010.7-7	CSA
----------------	-----------------	-----

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
Focus on raising industry awareness with young people - building future industry base.	Automotive	Public Engagement	

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-SUSTAINABLE SURFACE TRANSPORT (SST)-2010-RTD-1	Eu40m over 7 topics	30-Jul-09	14-Jan-10	N/A - Single stage only

Green Cars - Integrated EU demonstration project on electromobility

Green Cars PPP	GC.SST.2010.7-8	Collaborative
----------------	-----------------	---------------

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
Full scale electric fleet demonstration and analysis on a city or regional level. Full supply chain + all stakeholders should be involved.	Automotive	Infrastructure development	

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-TRANSPORT-2010-TREN-1	Eu23m	30-Jul-09	14-Jan-10	N/A - Single stage only

ICT for the fully electrical vehicle

Green Cars PPP	GC.ICT.2010.10-3 (targetted Outcome a)	Collaborative
-----------------------	---	----------------------

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
STREPS for Highly efficient ICT components and solutions for fully electric vehicles. Includes: New solutions for overall efficiency gains; safe and robust sub-systems; Advanced fail-safe systems and architectures	Automotive	ICT, Sensors, Devices and systems integration	

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-2010-ICT-GC	Eu19m	30-Jul-09	14-Jan-10	N/A - Single stage only

ICT for the fully electrical vehicle

Green Cars PPP	GC.ICT.2010.10-3 (targetted Outcome b)	CSA
-----------------------	---	------------

Scope and expected Impact includes...	Example Markets	Example Technologies	Links to other areas
European Fully Electric Vehicle Coordination Action. Coordination of research activities, continuously reviewing the needs research, components, systems integration and standardisation.	Automotive	Industry links, capabilities and representation	

Call Reference	Budget	Call Opens	Stage 1 Deadline	Stage 2 Deadline
FP7-2010-ICT-GC	Eu1m	30-Jul-09	14-Jan-10	N/A - Single stage only

Help and Support

Partnering and Networking: Many Options

- The UK Knowledge Transfer Networks
- The NCP networks
- Enterprise Europe Networks
- European Technology Platforms
- Your own Supply Chain!

Use them to fit your purpose as a business

The NMP 2010 UKFP7 Summary Pack - Available from the UK NMP NCP

- ✓ This Presentation
- ✓ The NMP and PPP Work Programmes (all themes)
- ✓ Bespoke NMP and PPP Call Summaries from the NCP

How FP7UK Can Help – making you a self-sufficient player

- 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 & Regional support
- The do's and don'ts of applying

FP7UK

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/home_en.html