

TEMA 4

NMP

WP 2013

1. Saúde	2. KBBE	3. ICT	4. NMP	5. Energia	6. Ambiente	7. Transportes	8. SSH	9. Espaço	10. Segurança	PME	Data Limite
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Activity 4.1 Nanosciences and Nanotechnologies											
1.1 Maximising the contribution of Nanotechnology to sustainable development											
NMP.2013.1.1-1: Exploration, optimisation and control of nano-catalytic processes for energy applications.											
				x	x						23-10-2012*
NMP.2013.1.1-2: Self-assembly of naturally occurring nanosystems											
x	x										23-10-2012*
1.2 Nanotechnology for benefiting environment, energy and health											
NMP.2013.1.2-1: Nanotechnology-based sensors for environmental monitoring											
					x			x			23-10-2012*
NMP.2013.1.2-2: Nanotherapeutics to treat bacterial infectious diseases											
x											23-10-2012*
1.3 Ensuring the safety of Nanotechnology											
NMP.2013.1.3-1: Safety in nanoscale production and products											
					x						23-10-2012*
NMP.2013.1.3-2: Nanomaterials safety assessment: Ontology, database(s) for modelling and risk assessment											
		x									23-10-2012*
NMP.2013.1.3-3: Development of a systematic framework for naming and assessing safety of the next generations of nanomaterials being developed for industrial applications											
x	x	x			x					x	23-10-2012*
1.4 Cross-cutting and enabling R&D											
NMP.2013.1.4-1: Development of an integrated multi-scale modelling environment for nanomaterials and systems by design											
		x			x		x			x	23-10-2012*
NMP.2013.1.4-2: Metrology research for the development and validation of design rules for engineering of nanostructured and nano-enabled materials and devices											
										x	23-10-2012*
NMP.2013.1.4-3: Development of methods and standards supporting the implementation of the Commission recommendation for a definition of nanomaterial											
		x									23-10-2012*
NMP.2013.1.4-4: Developing innovative outreach and dialogue on responsible nanotechnologies in EU civil society											
		x					x				04-12-2012
Activity 4.2 Materials											
2.1 Enabling Research and Development											
NMP.2013.2.1-1: Developing new precursors, new processing routes and functionalisations for carbon fibres											
				x		x		x		x	23-10-2012*
2.2 Innovative materials for advanced applications											
NMP.2013.2.2-1: Biomaterials for Advanced Therapies and Medical Devices in the neurological/neuromuscular or cardiovascular fields											
x	x						x			x	23-10-2012*
NMP.2013.2.2-2: Biomaterials: Imaging and rapid precise prototyping technology for custom made scaffolds – coordinated call with China											
x											23-10-2012
NMP.2013.2.2-3: Wide band gap semiconductor materials and structures for power electronics in energy technologies											
				x			x	x		x	23-10-2012*
NMP.2013.2.2-4: Materials solutions for durable energy-harvesters											
		x		x				x		x	23-10-2012*
2.3 Structuring actions											
NMP.2013.2.3-1: Advanced materials – our allies for a sustainable future											
		x					x				04-12-2012
NMP.2013.2.3-2 : Rational design of functional materials: networking and sharing of best practices											
		x								x	04-12-2012
Activity 4.3 New Production											
NMP.2013.3.0-1: Tools for Monitoring and Assessing Resource-efficiency in the Value Chain of Process Industries											
		x		x	x					x	23-10-2012*
NMP.2013.3.0-2: Integrated processing and Control Systems for Sustainable Production in Farms and Forests											
	x	x						x		x	23-10-2012*
Activity 4.4 Integration											
NMP.2013.4.0-1: Graphene production technologies											
										x	23-10-2012*
NMP.2013.4.0-2: Innovative materials for efficient, stable and cheap organic photovoltaic cells											
				x				x		x	23-10-2012*
NMP.2013.4.0-3 From research to innovation: substantial steps forward in the industrial use of European intellectual assets, stimulating the use of newly developed materials and materials technologies by the industry											
										x	23-10-2012*
NMP.2013.4.0-4 Support for cluster activities of projects in the main application fields of NMP Theme											
										x	04-12-2012
NMP.2013.4.0-5 Deployment of societally beneficial nano- and/or materials technologies in ICP countries											
x					x		x				04-12-2012
NMP.2013.4.0-6 Safe Life Extension management of aged infrastructures networks and industrial plants											
							x				04-12-2012
NMP.2013.4.0-8 The impact of the integration of key enabling technologies on industrial production and societal goals											
		x					x				04-12-2012
4.1 Raw materials											
NMP.2013.4.1-1 Development of new materials for the substitution of critical metals – coordinated call with the Japan Science and Technology Agency											
		x									23-10-2012
NMP.2013.4.1-2 Breakthrough Solutions for Mineral Extraction and Processing in Extreme Environments											
				x	x			x		x	23-10-2012*

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NMP.2013.4.1-3 European Intelligence Network on the Supply of Raw Materials			x			x		x				04-12-2012
4.2 "The Ocean of Tomorrow – 2013": Joining research forces to meet challenges in ocean management												
OCEAN 2013.1 Biosensors for real time monitoring of biohazard and man-made chemical contaminants in the marine environment		x	x			x					x	07-02-2013
OCEAN 2013.3 Innovative antifouling materials for maritime applications		x					x				x	07-02-2013

5 Recovery Package: Public-Private Partnership (PPP) topics within NMP												
5.1 'Factories of the Future' Public-Private Partnership (FoF) – Cross-thematic Coordination between NMP and ICT												
5.1.1 'Factories of the Future (FoF)' - Public-Private Partnership												
FoF.NMP.2013-1 Improved use of renewable resources at factory level			x		x	x					x	04-12-2012
FoF.NMP.2013-2 Innovative re-use of modular equipment based on integrated factory design			x								x	04-12-2012
FoF.NMP.2013-3 Workplaces of the future: the new people-centred production site			x		x		x	x			x	04-12-2012
FoF.NMP.2013-4 Innovative methodologies addressing social sustainability in manufacturing								x			x	04-12-2012
FoF.NMP.2013-5 Innovative design of personalised product-services and of their production processes based on collaborative environments			x								x	04-12-2012
FoF.NMP.2013-6 Mini-factories for customised products using local flexible production			x								x	04-12-2012
FoF.NMP.2013-7 New hybrid production systems in advanced factory environments based on new human-robot interactive cooperation			x					x			x	04-12-2012
FoF.NMP.2013-9 Advanced concepts for technology-based business approaches addressing product-services and their manufacturing in globalised markets			x					x			x	04-12-2012
FoF.NMP.2013-10 Manufacturing processes for products made of composites or engineered metallic materials			x			x					x	04-12-2012
FoF.NMP.2013-11 Manufacturing of highly miniaturised components			x		x						x	04-12-2012
5.2 'Energy-efficient Buildings (EeB)' – Public-Private Partnership												
5.2.1 'Energy-efficient Buildings (EeB)' - Topics covered by the NMP Theme:												
EeB.NMP.2013-1 Nanotechnology for multifunctional lightweight construction materials and components	x				x						x	04-12-2012
EeB.NMP.2013-2 Safe, energy-efficient and affordable new eco-innovative materials for building envelopes and/or partitions to provide a healthier indoor environment	x				x	x					x	04-12-2012
EeB.NMP.2013-3 Integration of technologies for energy-efficient solutions in the renovation of public buildings					x					x	x	04-12-2012
EeB.NMP.2013-4 Integrated control systems and methodologies to monitor and improve building energy performance			x		x						x	04-12-2012
EeB.NMP.2013-5 Optimised design methodologies for energy-efficient buildings integrated in the neighbourhood energy systems			x		x						x	04-12-2012
EeB.NMP.2013-6 Achieving high efficiency by deep retrofitting in the case of commercial buildings	x				x					x	x	04-12-2012
5.3 'Green Cars (GC)' - Public-Private Partnership												
GC.NMP.2013-1 Improved materials for innovative ageing resistant batteries					x		x				x	04-12-2012

* Data limite para a 1ª fase de submissão/avaliação da pré-proposta. As propostas que passarem a 1ª fase serão convidadas a submeter a proposta completa até Março de 2013 (data a confirmar).