

Technická univerzita v Košiciach, Referát projektov

Aktuálne otvorené výzvy 7RP aj z pohľadu účastníkov výročnej konferencie tematickej oblasti IKT organizovanej Európskou Komisiou



**Kontakty: Andrea.Kalafusova@tuke.sk, Anton.Lavrin@tuke.sk , Telefón:
055 602 2481**

OTVORENÉ VÝZVY V 7RP K 10. DECEMBRU 2008

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

Informačné zdroje - najmä WEB zdroje:

<http://cordis.europa.eu/fp7/dc/index.cfm> / preklikat'

Doplnkové:

<http://www.czelo.cz/7rp/>

Bude vytvorený podobný portál, ktorý bude dostupný na stránke APVV (cca koncom Januára 2009)

http://ec.europa.eu/index_en.htm# / aj prístup na všetky DG Európskej komisie

http://ec.europa.eu/information_society/index_en.htm / tematický portál ICT

<http://ec.europa.eu/research/index.cfm?lg=en&pg=who&cat=a&tips=on> / vhodná štartovacia stránka „DG Research“

Ďalšie DG spolupracujúce v rámci 7RP:

http://ec.europa.eu/dgs/energy_transport/index_en.html

http://ec.europa.eu/dgs/environment/index_en.htm

http://ec.europa.eu/enterprise/index_en.htm

Ďalšie informačné zdroje vhodné k písaniu projektového:

Hľadať podľa tematických oblastí prezentovaných v WP-moch

Podľa „unitov“ v rámci relevantných DG – web stránky „unit-ov“ nie sú veľmi viditeľné resp. funkčné,

Stránky Európskych technologických platforiem –ETP

http://cordis.europa.eu/technology-platforms/home_en.html

At'... ..

Dat' o sebe vediet':

Aktívna účasť na diskusných fórach organizovaných cez príslušné útvary resp. inštitúty daného DG. Napr.:

<http://cordis.europa.eu/ist/ict-ent-net/clusters.htm> /staršia verzia kontaktu s 6RP

http://cordis.europa.eu/fp7/ict/enet/clusters_en.html / nové - ukázať spojenie Klastrov / dobrá stránka

Účasť na aktivitách ETP napr. <http://www.nessi-europe.com/Nessi/> / pracovné skupiny resp. v nadväzujúcich komunitách ako napr. <http://www.eu-ecss.eu/>

Aktívna účasť na Informačných dňoch pre jednotlivé Výzvy resp. pre jednotlivé tematické oblasti napr.

http://ec.europa.eu/information_society/events/budapest_2009/index_en.htm

http://cordis.europa.eu/fp7/ict/e-infrastructure/events-20081216_en.html

Niektoré veľké bežiacie rámcové projekty vytvárajú **diskusné a členské platformy** v rámci svojich diseminačných aktivít napr. <http://www.coin-ip.eu/coin-community>

Vhodný marketing pre Váš RTD potenciál napr. v médiách, na web – stránkach, konferenciách a pod.

C:\Disk D\D F\DELEGAT ISTC\INFODAY\UKAZKY PREZENTACII

++++

Pripravte a prezentujte svoj vlastný profil v systéme CORDIS – Partners service: <http://cordis.europa.eu/partners-service/>


**Poznámky k vybraným cieľom v otvorených výzvach pre tematickú
oblasť:**

NPM

-Nanosciences, Nanotechnologies, Materials and new Production

Call Title: Theme 4 – NMP - Nanosciences, Nanotechnologies, Materials and new Production; Technologies – LARGE

- **Call identifier: FP7-NMP-2009-LARGE-3**
- **Date of publication: 19 November 2008**
- **Deadline: For Large-scale integrating Collaborative Projects - first stage: 17 February 2009 at 17.00.00 (Brussels local time) with Indicative budget: EUR 61.4 million² in 2009.**

Activity/ Area	Topics called	Funding Schemes
Knowledge-based smart materials with tailored properties	NMP-2009-2.2-1 Oxide materials for electronics applications	<i>Large-scale integrating Collaborative Projects</i>
Using engineering to develop high performance knowledge-based materials	NMP-2009-2.5-1 Light high-performance composites	
Adaptive production systems	NMP-2009-3.2-1 Innovative pathways for sustainable chemical production	
Rapid transfer and integration of new technologies into the design and operation of manufacturing processes	NMP-2009-3.4-1 Automation and robotics for sustainable crop and forestry management	
Integration of technologies for industrial applications	NMP-2009-4.0-3 Development of nanotechnology-based systems for molecular diagnostics and imaging	
	NMP-2009-4.0-4 Reducing the environmental footprint of energy intensive industries	

NMP-2009-3.4-1 Automation and robotics for sustainable crop and forestry management (LARGE projects)

In crop and forestry management, competitiveness requires increasing automation in sorting and harvesting, whilst increasing the respect for sensitive key biotopes and biodiversity requires a more discriminate process.

Research should focus on the following main development issues and targets:

- **novel (or transferable) sensors to detect presence and location of biological entities, stage of**

plant development or quality/chemical characteristics of plant or soil;

- **effectors and actuators to apply inputs precisely or manipulate objects physically;**

- **control models and routines to deliver precise actuation in a variable environment at a speed that**

is cost effective for crop/forestry management;

- architecture, interfaces, communications etc that permit **effective real time operation and control**

and provide information for record-keeping and to optimise current and future operations

- **In order to deliver real progress in this area, with potential for major practical impact, an integrated approach across disciplines (horizontal) and down the supplier chain (vertical) is**

necessary. The cross fertilisation concept from different fields of application should be encouraged. **It will be necessary to identify and focus work around demonstrator systems that**

allow new technologies to be evaluated in contexts that are meaningful to the agronomic/forest

user and thus can open up the necessary vertical integration.

Specific features: A much larger impact can be achieved by **involving machinery**

NMP-2009-4.0-4 Reducing the environmental footprint of energy intensive industries (LARGE Projects):

Radical improvements in both the **competitiveness** and the **environmental performance of energy intensive industries (e.g. non-ferrous metals, pulp and paper, cement, glass and ceramics industries** - as this call is a part of a multi-annual strategy, the chemical, petrochemical and/or iron and steel sectors are not addressed specifically to avoid overlaps with running activities covered by specific calls)

Technical content/scope: The research should aim at developing new more cost and energy **efficient routes and technologies for eco-efficient products contributing to the CO2 reduction goal**

with:

-new or modified reactors and furnace design,

-use of less energy intensive or recycled materials as feedstock, use of renewable and alternative energy resources, like bio-based resources and secondary materials,

- the technical scope includes the development and optimisation of materials and the use of these

based on understanding of micro/nano scale processes,

- **heat, water and other media recovery**, as well as advanced solid, liquid and gaseous waste management

-better process control

Expected Impact: New cost-efficient technologies and processes will target:

- **energy efficiency increase higher than 20%,**

- **reduction of emissions of CO2 and other greenhouse Gases (GHG) higher than 20%,**

- feedstock savings higher than 20%,

- **operating cost reduction of at least 10%,**

- **productivity increase of at least 10%**

NMP-2009-3.2-2 Adaptive control systems for responsive factories (SMALL – projects)

Technical content/scope:

One of the main strategic goals for the development of the manufacturing industry is the implementation of intelligent factories, which are able to manage complex and variant production processes.

Distributed multi agent manufacturing technologies will characterise the next generation of the European factories.

These systems will involve autonomous re-configurable and collaborative intelligent units capable of self-adapting to different production operations due to planned changes as well as unforeseen variations in both process parameters and variables.

Research should specifically focus on adaptive control systems for intelligent factories, including the following main development issues and targets:

modularity of architectures and new flexible and reconfiguration strategies to be applied to production systems. This aspect is a prerequisite for the new generation of scalable, selfadaptive and interoperable control systems;

– **increase of flexibility and performance of knowledge-based processes and automation** enabling new agile manufacturing operations. Such features contribute to build new production processes which are able to adapt to new productive targets and needs with a low impact in terms of costs, development, set-up and ramp-up time;

– **multilayer, interconnected distributed adaptive control systems** – adapting to parametric changes in the manufacturing process and providing optimal control for discrete or continuous processes;

– **multi-agent automation and supervision software that will improve distributed intelligence solutions, optimally incorporating human input.**

Expected impact: there is potential for as much as a **20 – 30 % improvement in efficiency**, accompanied

by greater equipment up-time of up to 90%.

CAPACITIES

Research Infrastructure

Activity	Call 1 (02.5.07)	Call 2 (20.9.07)	Call 3 (29.2.08)	Call 4 (11.9.08)	Call 5 (17.3.09)	Call 6 (Autumn 2009)	Call 7 (Spring 2010)	Call 8 (Spring 2012)
Integrating activities			272.9				X	X
e-Infrastructures	42	50		113	4	X	X	X
Design studies	31						X	
Construction – support to the preparatory phase	146.7						X	
Support to policy development and programme implementation	8	14	9		4	X	X	X
Budget (EUR million)	227.7	64	281.9	113	8			

- Date of publication: 09 December 2008
- Deadline1: 17 March 2009, at 17.00.00, Brussels local time.

Line of action/Activity	Topics called	Funding scheme(s)	EUR million indicative
1.1 Support to existing research infrastructures			
1.1.2 ICT based e-Infrastructures	INFRA-2009-1.2.3: Scientific Information Repository supporting the European FP7 Research Programme	Combination Collaborative projects and Coordination and Support Actions (CP-CSA-INFRA)	4.00
1.3 Support to policy development and programme implementation	INFRA-2009-3.1: ERA-NET ³ supporting cooperation for research infrastructures in all S&T fields	Coordination and Support Actions (CSA-CA)	1.60
	INFRA-2009-3.3: Studies, conferences and coordination actions supporting policy development in the context of international cooperation for e-Infrastructures	Coordination and Support Actions (CSA-CA or CSA-SA)	4.00

Year	2010	2011	2012	2013	<i>Total</i>
Budget available (M€)	215	160	55	80	510
Design studies		20			20
Construction - preparatory phase	45				45
Construction - implementation phase		35?		35?	70?
Support measures	10	5	10		25
Integrating activities	160	100	45	45	350

Year	2010	2011	2012	2013	<i>Total</i>
Budget available (M€)	113	94	33	39	279

Design studies					0
Construction - preparatory phase					0
Construction - implementation phase	20?	20?	20?		60
e-Infrastructures	83?	74?		39?	196
Support measures	10?		13?		23

Ďakujem za pozornosť