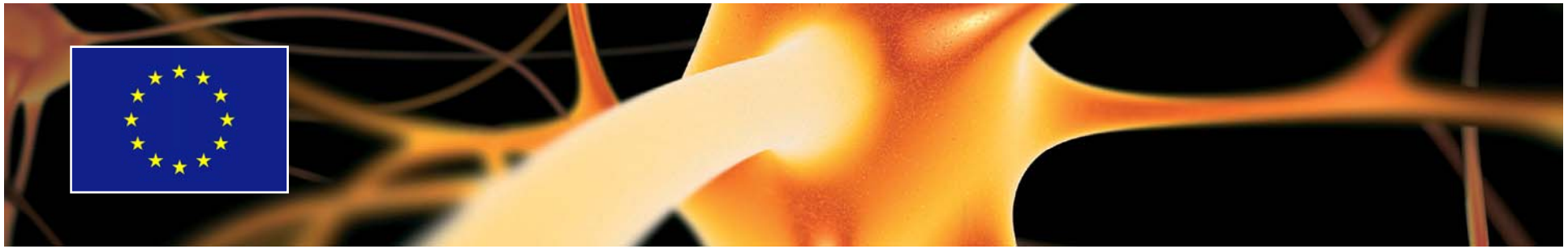

Funding for Safety Research within Industrial Technology in FP7

European Commission
DG Research – Industrial Technology
Søren Bøwadt

iNTeg-Risk Conference - Stuttgart, 2 June 2009

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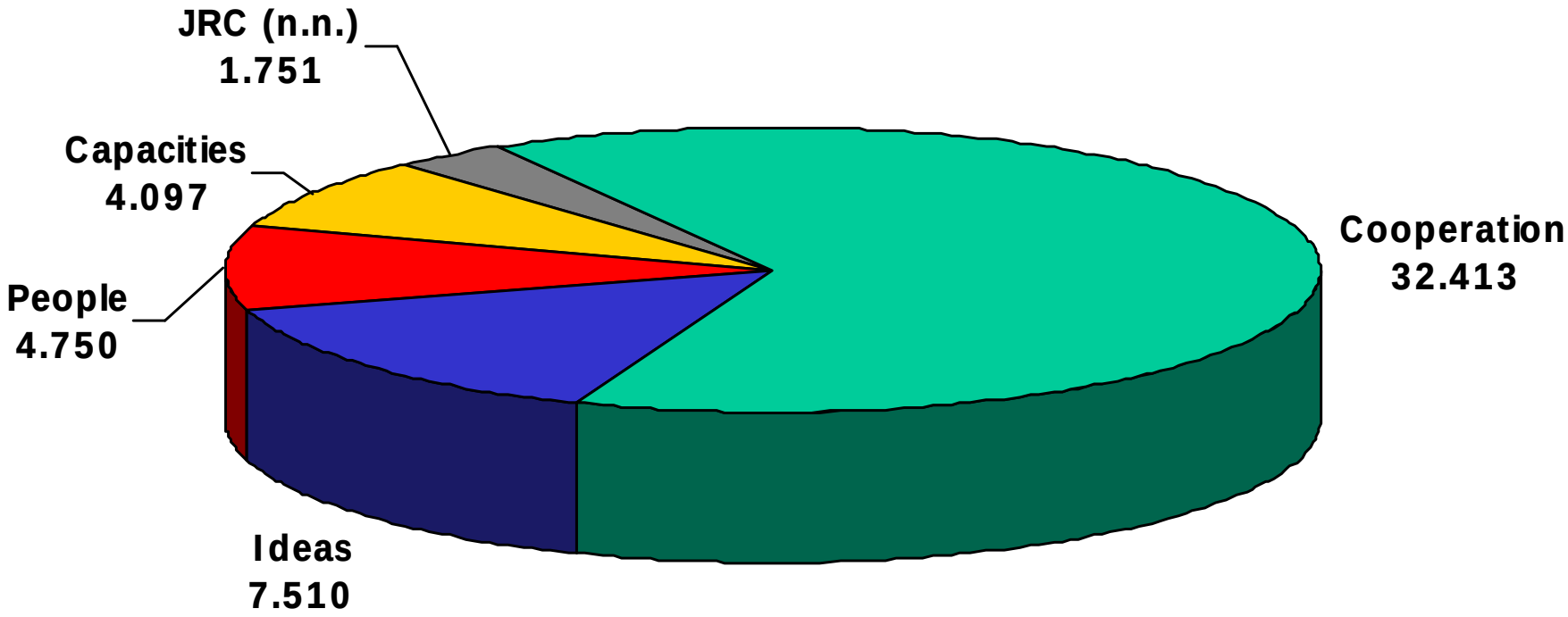
FP7 budget
(in billion €, total 50.521)



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FP7 – SP Cooperation

10 Themes

	(€ million)
1. Health	6 100
2. Food, agriculture and fisheries, and biotechnology	1 935
3. Information and communication technologies	9 050
4. Nanotechnologies, materials and production	3 475
5. Energy	2 350
6. Environment	1 890
7. Transport	4 160
8. Socioeconomic research	623
9. Space	1 430
10. Security	1 400
Total	32 413

* Not including non-nuclear activities of the Joint Research Centre: €1 751 million

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Safety & Policy

The safety domain is outside competition concerns: strong research investments are needed, much larger than DG-RTD can provide → support flagship projects like iNTeg-Risk and bring together national and private efforts

Identification of new risks is a priority in a society more and more risk averse → occupational health and safety and environmental concerns gains increasing attention

SRA of TP for industrial safety is of key importance for future projects though the improvement of synergies between different Technology Platforms is encouraged → ensure continuity into the 7th FP

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Target of safety activities

Transforming the whole industry into a "risk free" system for both workers and environment → possible interactivities with directorates such as Industry (DG ENTR), Environment (DG ENV), Health and Consumer Protection (DG SANCO) and the Health and Safety at Work (OSHA) agency

Risk assessment, management and reduction → risk governance through standards & regulation

Dissemination, knowledge transfer, education, training → increase safety culture and human reliability factors while highlighting beneficial impacts of cooperative R&D activities (success stories)

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Progress in Materials Sciences …and more

- **Nano-enhanced products increasingly appear in our everyday life, even if we do not always realise it**

1 - Organic Light Emitting Diodes
2 - Photovoltaic film
3 - Scratch-proof self-cleaning glass
4 - Stain resistant fabrics
5 - Intelligent clothing
6 - Bucky-tubeframe
7 - Biocompatible hip-joint
8 - Nano-particle paint
9 - Thermo-chromic glass
10 - Magnetic data memory
11 - Carbon nanotube fuel cells
12 - Nano-engineered cochlear implant

Source: BBC

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Theme 4: NMP

Overall objective : To improve the competitiveness of EU industry and ensure its transformation via:

- the effective transition from a resource-based to knowledge-based industry
- generation of new breakthrough knowledge
- strengthening EU leadership in nano, materials and production technologies
- emphasis on integrating different technologies and disciplines across many industrial sectors

... strong continuity with FP6

Importance of Technology Platforms to help establish common research priorities

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Theme 4: NMP

Four activities:

1. Nanosciences and nanotechnologies
2. Materials
3. New production
4. Integration of technologies for industrial applications

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Theme 4: NMP

NMP Topics with possibilities for Safety funding in 2010 call

Publication date: 30 JULY

DRAFT!

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Safety in Nanotechnology

This activity will also investigate the impact of nanotechnology on society, human health and the environment, as well as look into the relevance of nanoscience and technology for the solution of societal problems as well as the societal acceptance of nanotechnology. This will include research on potential ethical, **public health, occupational safety and environmental protection implications as well as safety, monitoring and sensing, metrology, nomenclature and standards which are becoming increasingly important to pave the way for industrial applications**. Actions will be launched to implement the Commission's integrated and responsible approach as well as the measures outlined in the associated Action Plan 'Nanosciences and nanotechnologies.

Knowledge gaps in relation to the risk assessment of nanomaterials and nanotechnologies could currently constitute an impediment to the smooth implementation of regulatory requirements.

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WP - NMP

Activity 4.1: Nano S&T

4.1.2: Nanotechnologies and converging technologies

- **4.1.2-2 Substitution of materials or components utilising "green nanotechnology"- SM**
- **4.1.2-3 Thermoelectric energy converters based on nanotechnology – SM**

4.1.3: Health, Safety and Environmental Impacts

- **4.1.3-1 Reference methods for managing the risk of engineered nanoparticles - LA**
- **4.1.3-2 Modelling toxicity behaviour of engineered nanoparticles – SM – (Coordinated call with the US)**

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WP - NMP

Activity 4.2: Materials

4.2.3: Novel biomaterials and bioinspired materials

- **4.2.3-1 Development of standard scaffolds for the rational design of bioactive materials for tissue regeneration – LA**

4.2.4: Advances in chemical technologies and materials processing

- **4.2.4-1 New materials and/or membranes for catalytic reactors - LA -**

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WP - NMP

Activity 4.3: New Production

4.3.1: Development and validation of new industrial models and strategies

- **4.3.1-1: New industrial models for a sustainable and efficient production – SM**

4.3.4: Rapid transfer and integration of new technologies into the design and operation of manufacturing processes

- **4.3.4-1 Manufacturing systems for 3D-shaped, multilayered products based on flexible materials - LA**

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WP - NMP

Activity 4.4: Integration

4.0-1: Development of nanotechnology-based systems for detection, diagnosis and therapy for cancer – LA –

4.0-2: Capacity building for the development of nanotech-based multi-parameter sensors – LA –

4.0-3: High throughput technologies for the development of formulated products - LA

4.0-4: A new generation of multi-functional fibre-based products produced by new and flexible manufacturing concepts – SME -

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Activity 4.4: Integration

4.0-5: Support to coordination activities of NMP related to European Technology Platforms – CSA - Coordination

4.0-7: ERANET on nanotechnologies, including nanotoxicology

4.0-8: ERANET on Manufacturing

4.0-9: ERANET on Catalysis

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WP - NMP

Public Private Partnerships

Energy-efficient Buildings

EeB.NMP.2010-1: New Nanotechnology based high performance insulation systems for energy efficiency.

EeB.NMP.2010-2: : New technologies for energy efficiency at district level

Factories of the Future

FoF.NMP.2010-2 : Supply chain approaches for small series industrial production

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WP - NMP

Deadlines of the Calls

Collaborative projects

- Closure date of First Stage: 8 December 09

  10 page proposal: S&T content + expected impact

  2 pages: consortium+estimated financial resources

PPP: FoF & EeB 3 Nov-09 – one stage

PPP: Green Cars 14 Jan-10 – one stage

CSA 2 FEB-10 – one stage

Coord. call with US / Mexico 31 Dec – one stage

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WP - NMP
Funding Schemes - NMP

Collaborative projects

- Small or medium scale focussed projects
  < € 4 million EC funding requested
- Large scale integrating projects
  > € 4 million EC funding requested
- SME-targeted projects: at least 35% to SMEs

Networks of Excellence (not in this call)

Coordination and Support actions

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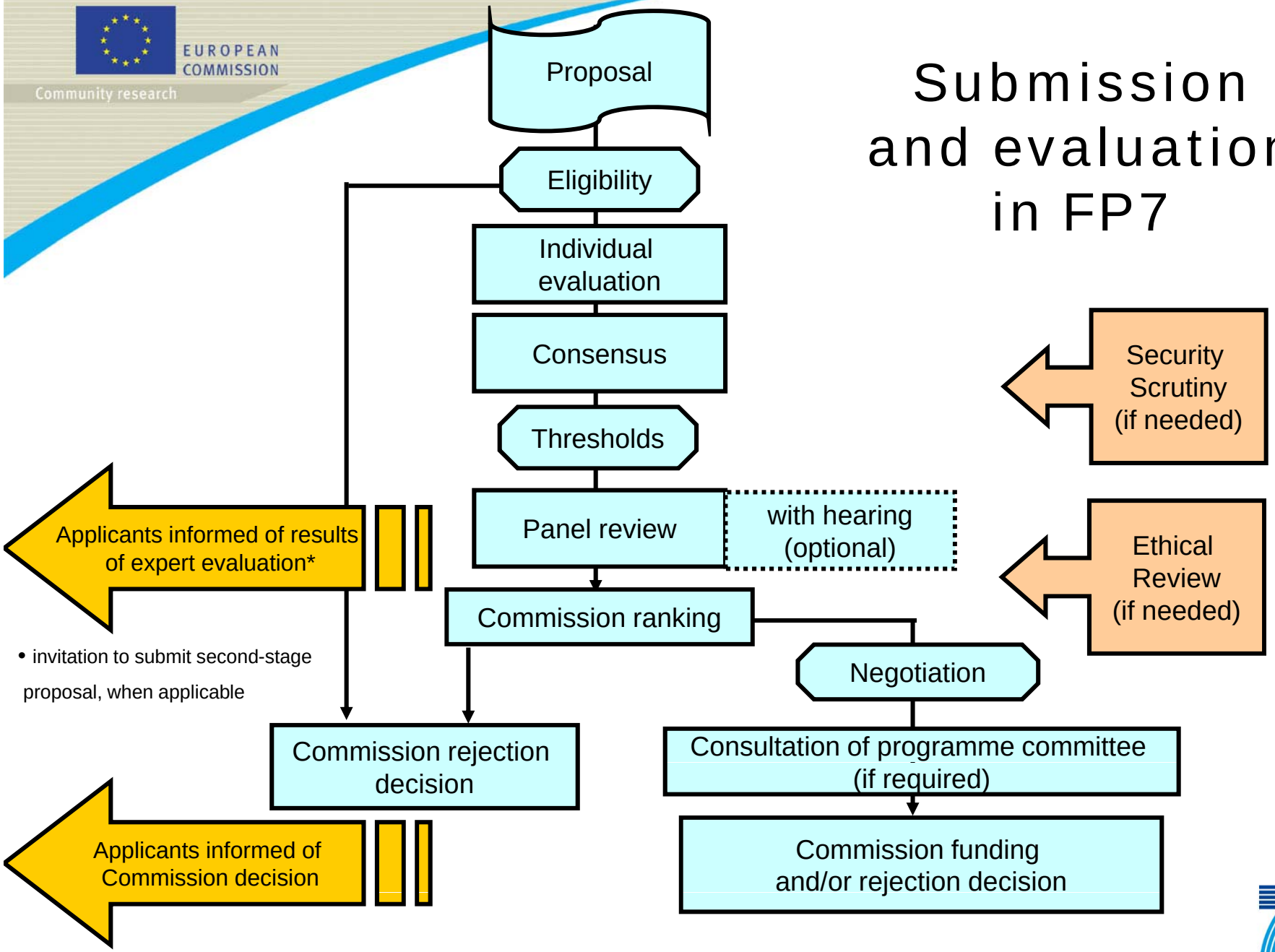
Submission and evaluation in FP7



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WP - NMP

Evaluation criteria and thresholds

S&T quality	**4/5 (3/5, PPP)**
Implementation	**3/5**
Impact	**3/5**
Overall	**12/15 (10/15, PPP)**

- Implementation is not considered in stage 1 and the overall threshold is 8

- For LA, in stage 2 the threshold for Impact is 4

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More info:

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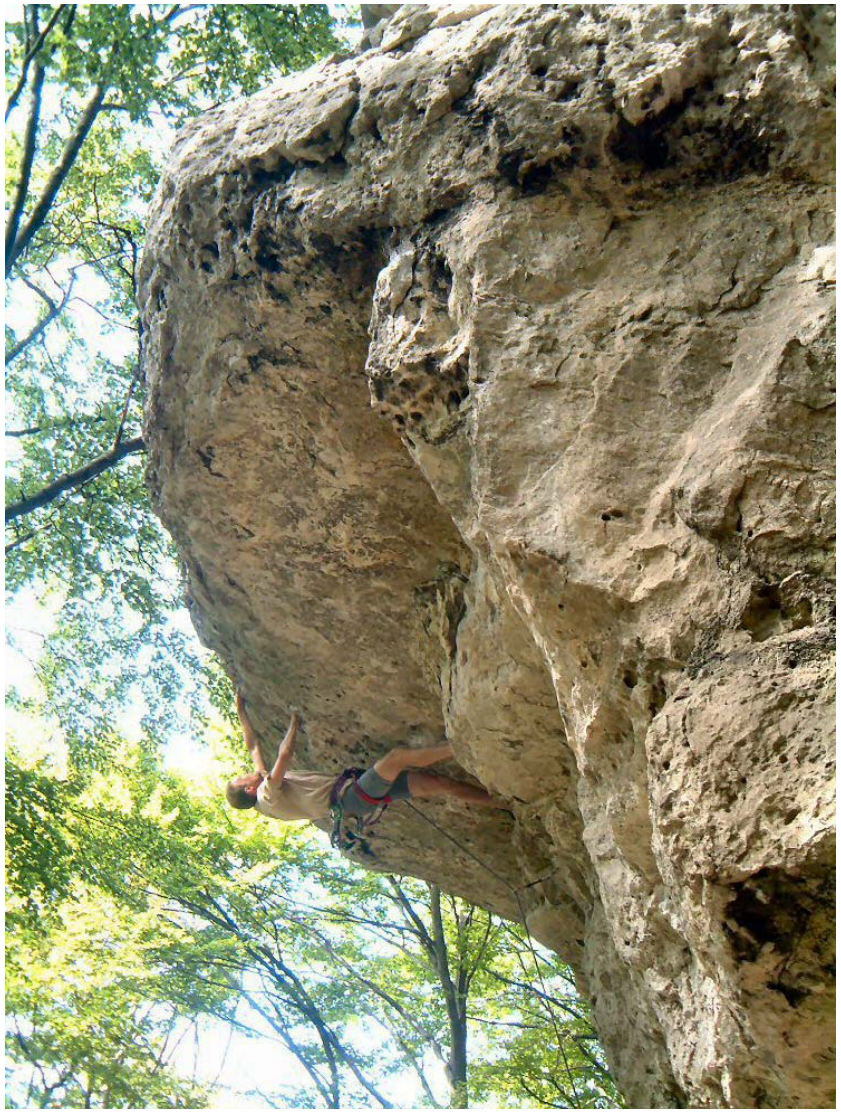

About the 7th Framework Programme see:

http://cordis.europa.eu.int/fp7/

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