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Community research

Gearing European research towards sustainability: expected contributions from universities of technology

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<http://ec.europa.eu/research/sd/>





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Outline

- Sustainable development and climate change in the EU policy context
- RD4SD: Harnessing EU research to sustainable development, with a focus on technology universities



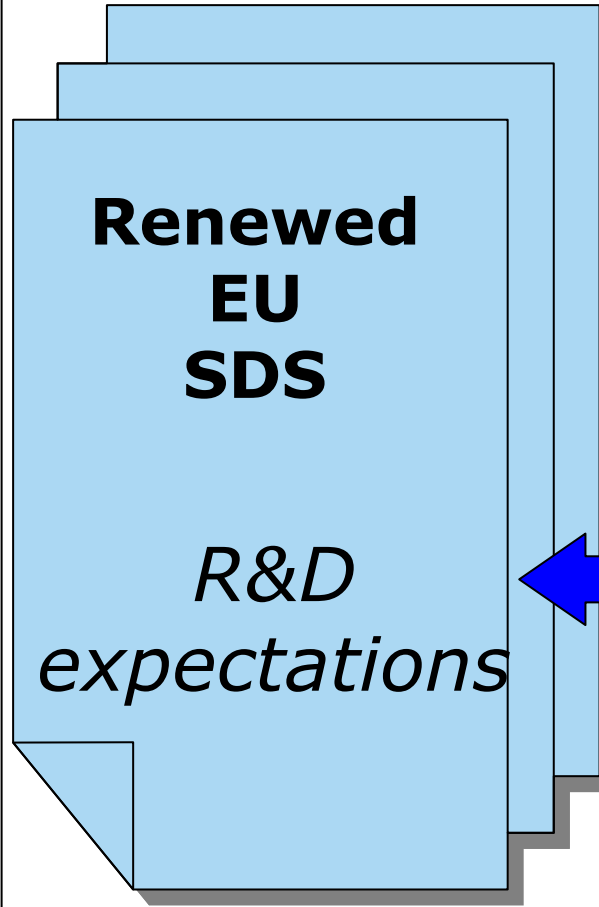


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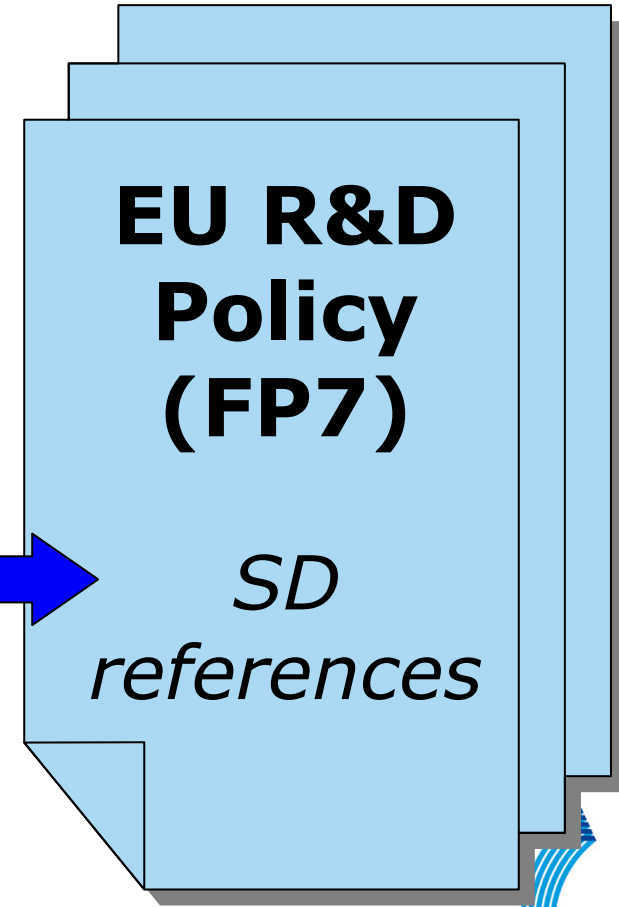
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Context
RD4SD Exercise

June 2006



**December
2006**



SEVENTH FRAMEWORK
PROGRAMME

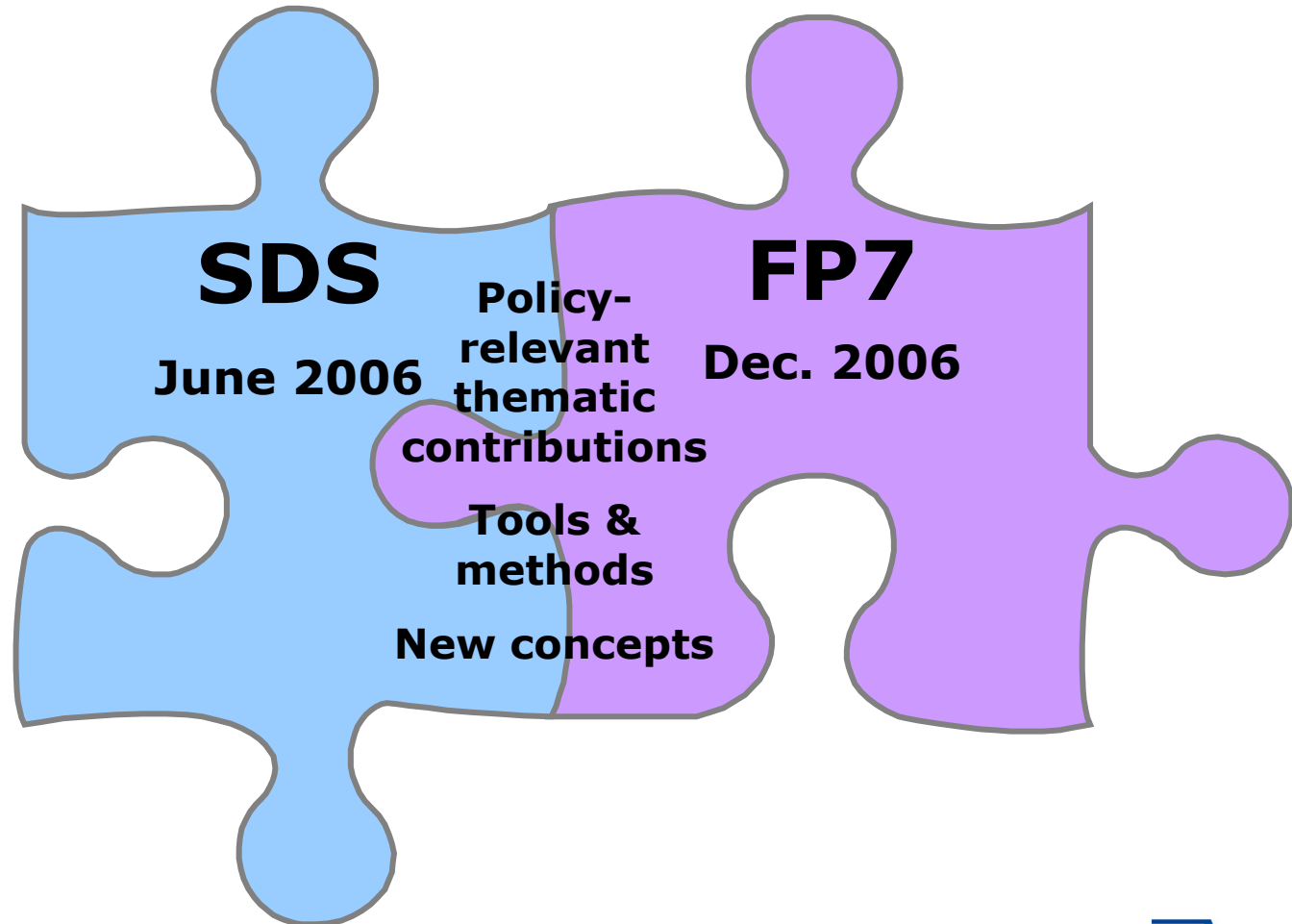


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Context

RD4SD Exercise





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FP7 is tailored for SD

- Annex 1:

30.12.2006 EN Official Journal of the European Union L 412/7

ANNEX I

SCIENTIFIC AND TECHNOLOGICAL OBJECTIVES, BROAD LINES OF THE THEMES AND ACTIVITIES

The Seventh Framework Programme will be carried out to pursue the general objectives described in Article 163 of the Treaty, to strengthen industrial competitiveness and to meet the research needs of other Community policies, thereby contributing to the creation of a knowledge-based society, building on a European Research Area and complementing activities at a national and regional level. It will promote excellence in scientific and technological research, development and demonstration through the following four programmes: cooperation, ideas, people and capacities.

I. COOPERATION

In this part of the Seventh Framework Programme, support will be provided to transnational cooperation in different forms across the Union and beyond, in a number of thematic areas corresponding to major fields of knowledge and technology, where the highest quality research must be supported and strengthened to address European social, economic, environmental and industrial challenges. The bulk of this effort will be directed towards improving industrial competitiveness, with a research agenda that reflects the needs of users throughout Europe.

The overarching aim is to contribute to sustainable development.

The ten themes determined for Community action are the following:

- Objectives of the 10 themes





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EU Research Themes

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1. Health (€ 6 100 million)
2. Food, Agriculture and Fisheries, and Biotechnology (€ 1 935 million)
3. Information and Communication Technologies (€ 9 050 million)
4. Nano-sciences, Nano-technologies, Materials and new Production Technologies (€ 3 475 million)
5. Energy (€ 2 350 million)
6. Environment - including Climate Change (€ 1 890 million)
7. Transport (including Aeronautics) (€ 4 160 million)
8. Socio-economic Sciences and the Humanities (€ 623 million)
9. Space (€ 1 430 million)
10. Security (€ 1 400 million)





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Cross-reading of SDS and FP7

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Climate change & clean energy

Sustainable transport

Sustainable consumption and production

Conservation and mgt of natural resources

Social inclusion, demography & migration

Public health

Global poverty & SD challenges

Themes (FP) vs Key challenges (SDS)	1	2	3	4	5	6	7
1. Health					X	X	X
2. Food, agriculture and fisheries, and biotechnology	X		X	X	X		
3. Information and communication technologies			X				
4. Nanosciences, nanotechnologies, materials and new production technologies			X	X			
5. Energy	X		X				
6. Environment (incl. Climate change)	X		X	X	X		
7. Transport (incl. Aeronautics)		X	X				
8. Socio-economic sciences and the humanities	X	X	X		X	X	X
9. Space				X	X		X
10. Security						X	X





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Across the whole of FP7

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- ***“Joint Technology Initiatives”***

- **“CLEAN SKY”**

*€ 800 m EU contribution
(50% of total budget)*

- **“Hydrogen and Fuel Cells Initiative”**

*€ 470 m EU contribution
(50% of total budget)*





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WP review: first results

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	SD-related topics	SD-related projects	SD-related budget
2007	59%	49%	49%
2008	53%	36%	38%
2009	68% *	69% * **	55% * **
2010	66%	-	-

* excluding Transport

** ICT & NMP: based on estimations only



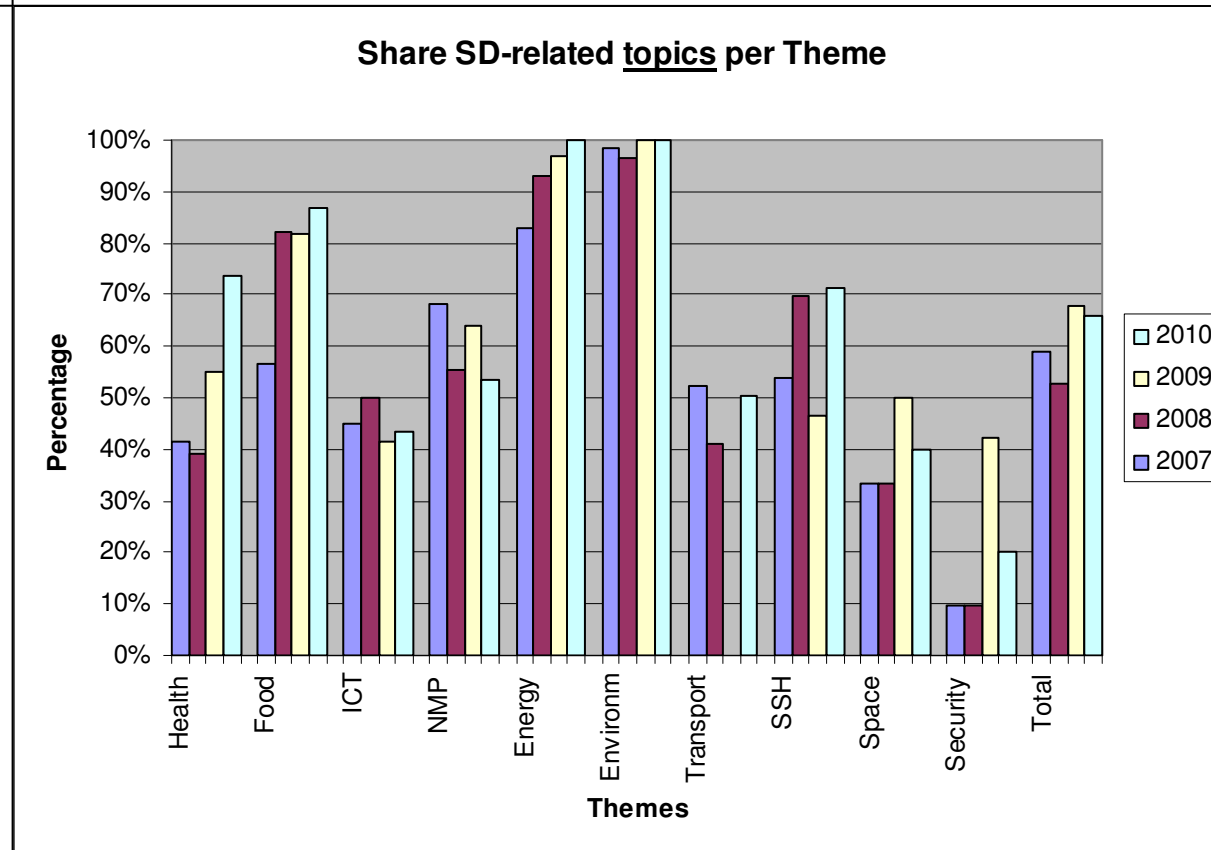


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WP Review: first results

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NMP: final data for projects available in autumn 2009





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Gearing European Research towards Sustainability

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http://ec.europa.eu/research/sd/index_en.cfm?pg=rd4sd





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Three questions

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- 1. To what extent does SD call for changes in the way research is implemented?**
2. To what extent does SD call for changes in the way research policies are elaborated?
3. How can the contribution of research to SD be measured?





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Recommendations to Technology Universities

Context
RD4SD Exercise

Footprint of Research activities

"More needs to be done to promote sustainable practices among researchers and research institutions."





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Recommendations to Technology Universities

Context
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Dual-track approach

"The EU research strategy, in its design and formulation, should complement cross-cutting approaches with an approach tailored to specific needs of sectors."



SEVENTH FRAMEWORK
PROGRAMME



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Recommendations to Technology Universities

Context
RD4SD Exercise

Organisational suggestion

***"The status and profile of SD research and those who practice it needs to be raised."
(vice-Rector or vice-President in charge of the promotion of SD)***





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Thank you for your attention

