

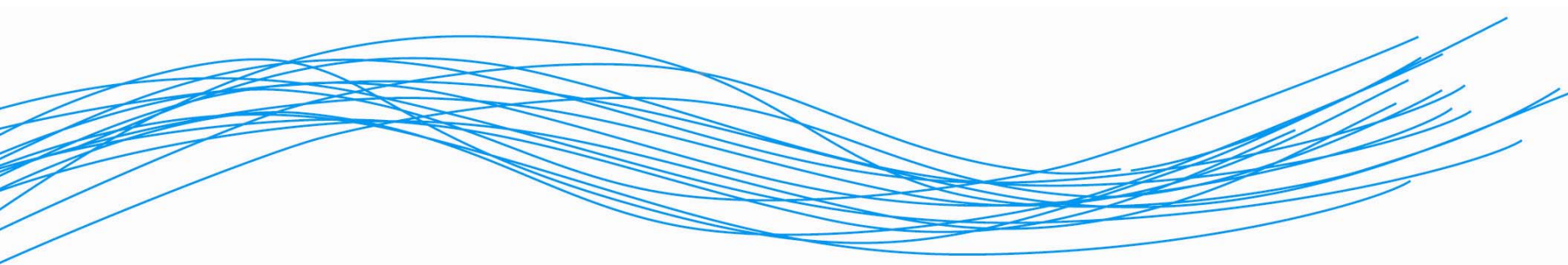


EUROPEAN
COMMISSION

Community research

FP7 tailored for sustainability

January 23, 2008



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



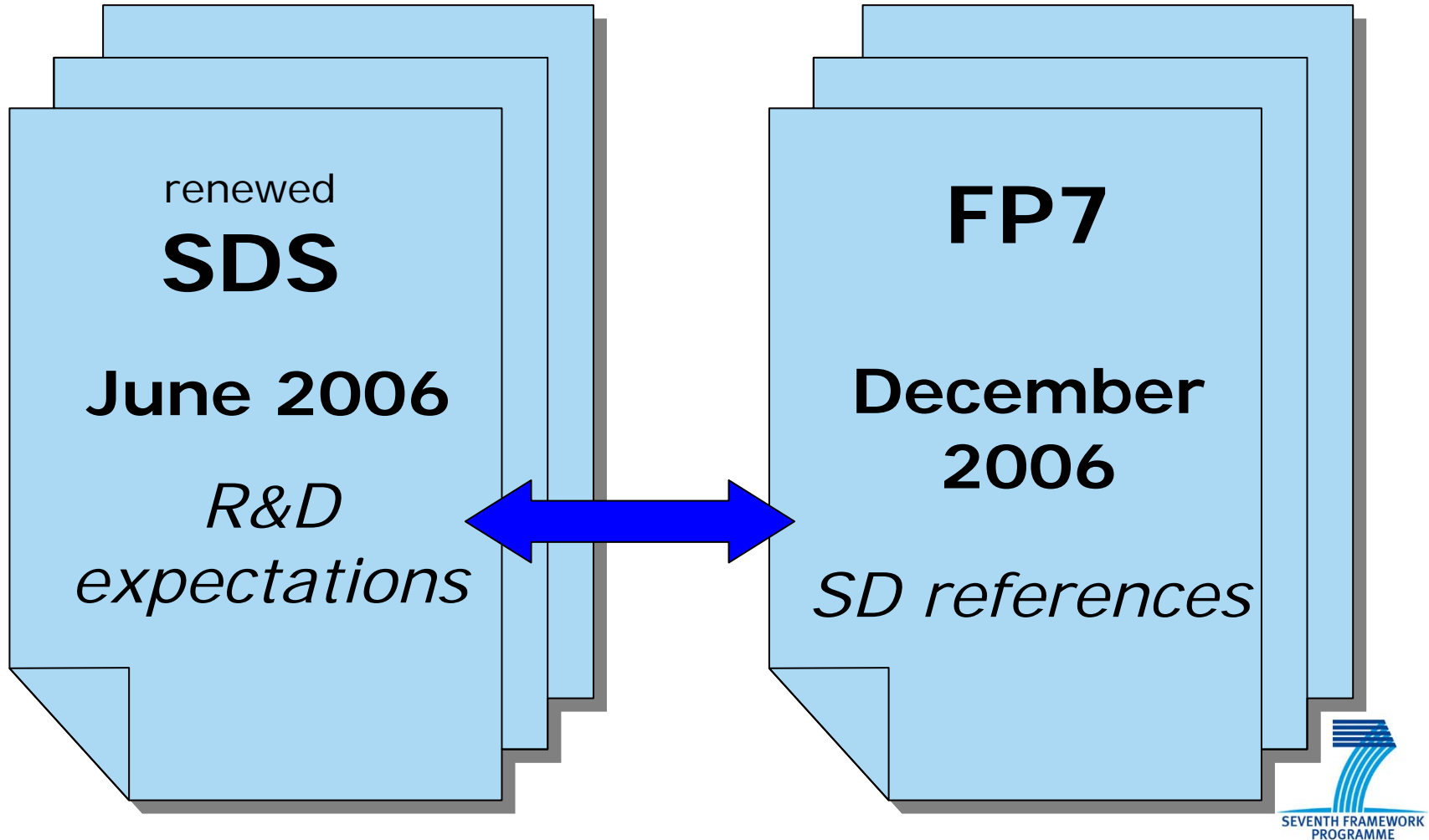


EUROPEAN
COMMISSION

Community research

Outline

1. Mirror effect between SDS and FP7
2. Progress so far
3. Future perspectives





EU renewed SDS

- Commitment
- Key Objectives
- Policy guiding principles
- Synergies between Lisbon and SDS
- Better policy-making
- 7 Key Challenges
- Cross cutting policies
- Financing and economic instruments
- Communication and mobilisation
- Implementation, monitoring and follow-up



Commitment
Key Objectives
Policy guiding
principles

Synergies between Lisbon and SDS

Better policy-making
7 Key challenges
Cross-cutting policies
Financing and
economic instruments
Communication and
mobilisation
Implementation,
monitoring and
follow-up

R&D is at the nexus between sustainability and competitiveness



Commitment
Key Objectives

Policy guiding
principles

Synergies between
Lisbon and SDS

**Better policy-
making**

7 Key Challenges

Cross-cutting policies

Financing and
economic instruments

Communication and
mobilisation

Implementation,
monitoring and
follow-up

- Better regulation
- Integrated impact assessment **R&D**



Commitment

Key Objectives

Policy guiding
principles

Synergies between
Lisbon and SDS

Better policy-making

7 Key challenges

Cross-cutting policies

Financing and
economic instruments

Communication and
mobilisation

Implementation,
monitoring and
follow-up

1. Climate change and clean energy
2. Sustainable transport
3. Sustainable consumption and production
4. Conservation and mgt of natural resources
5. Public health
6. Social inclusion, demography and migration
7. Global poverty and SD challenges



Commitment
Key Objectives
Policy guiding
principles
Synergies between
Lisbon and SDS
Better policy-making
7 Key Challenges
**Cross-cutting
policies**
Financing and
economic instruments
Communication and
mobilisation
Implementation,
monitoring and
follow-up

- Education and training
- **Research and development**
 - §18 LT visionary concepts, science-policy interface, smart growth, interplay
 - § 19 FP7+ETAP
 - § 20 Research on indicators
 - § 21 Universities, research institutes, private enterprises



Financing and economic instruments

Commitment

Key Objectives

Policy guiding principles

Synergies between Lisbon and SDS

Better policy-making

7 Key challenges

Cross-cutting policies

Financing and economic instruments

Communication and mobilisation

Implementation, monitoring and follow-up

- Getting prices right, smart growth, win-win opportunities **R&D**
- Shift taxation **R&D**
- Harmful subsidies
- Coordination of financing mechanisms (Life+, FP, CIP, Structural Funds)



Implementation, *monitoring* and follow-up

Commitment
Key Objectives
Policy guiding
principles

Synergies between
Lisbon and SDS

Better policy-making
7 Key challenges

Cross-cutting policies
Financing and
economic instruments

Communication and
mobilisation

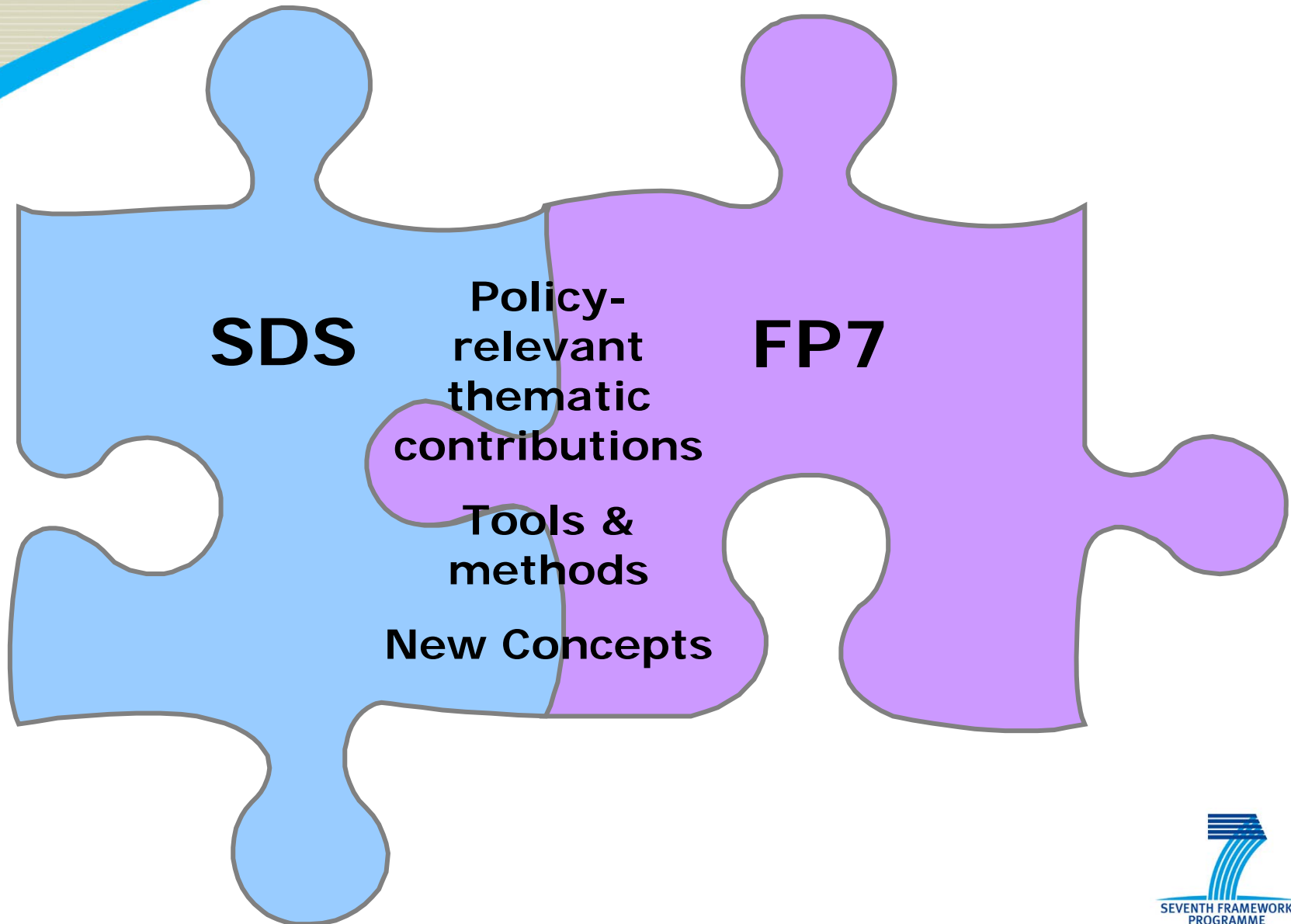
**Implementation,
monitoring and
follow-up**

- Progress reports: 2007, 2009, 2011.
- Review of 2005 set of indicators, and adoption of a limited set of indicators
- National SDS focal points and benchmarking of progress at national level
- Two-yearly review by the December European Council (starting 2007)
- EP, national parliaments, EESC,
- National SDSs completed by June 07
- National advisory councils to be set up
- Comprehensive review in 2011



R&D requests from the SDS

- **Policy-relevant thematic contributions** on key challenges: “Use best available knowledge”
- **Monitoring tools:** impact assessment tools and indicators
- **New concepts**
 - to “break the link between economic growth and environmental degradation”
 - To elaborate concrete and realistic visions over the next 50 years





- FP7 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





Policy-relevant thematic contributions

Monitoring tools
New concepts

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



Policy-relevant
thematic
contributions

Monitoring tools

New concepts

- **Impact assessment tools**
 - “The 10 themes also include research needed to underpin the formulation, implementation and assessment...”
 - Themes 1, 2, 6, 8, 10
- **Indicators**
 - 6.4.2.
 - SP level



Policy-relevant
thematic
contributions
Monitoring tools
New concepts

- “Ideas”
- Future and emerging technologies, novel ideas and radical new use in “Cooperation”.

FP7 and SD: strong mirror effect





How to optimise the contribution of FP7 to the EU SDS?

Coordination tool

- “Framework Programme for Sustainable Development” network
- Established in November 2006
- Members: DG RTD directorates involved in the implementation of FP7 together with DGs INFSO, TREN, ENTR and JRC



2. Progress in 2008

- WP Review
- Cross-cutting approaches
- SD in DG RTD policy initiatives



First results

WP Review

Cross-cutting approaches
SD in DG RTD policy initiatives

	SD-related topics	SD-related projects*	SD-related budget
2007	59%	43%	49%
2008	53%	35%	39%
2009	68%**		

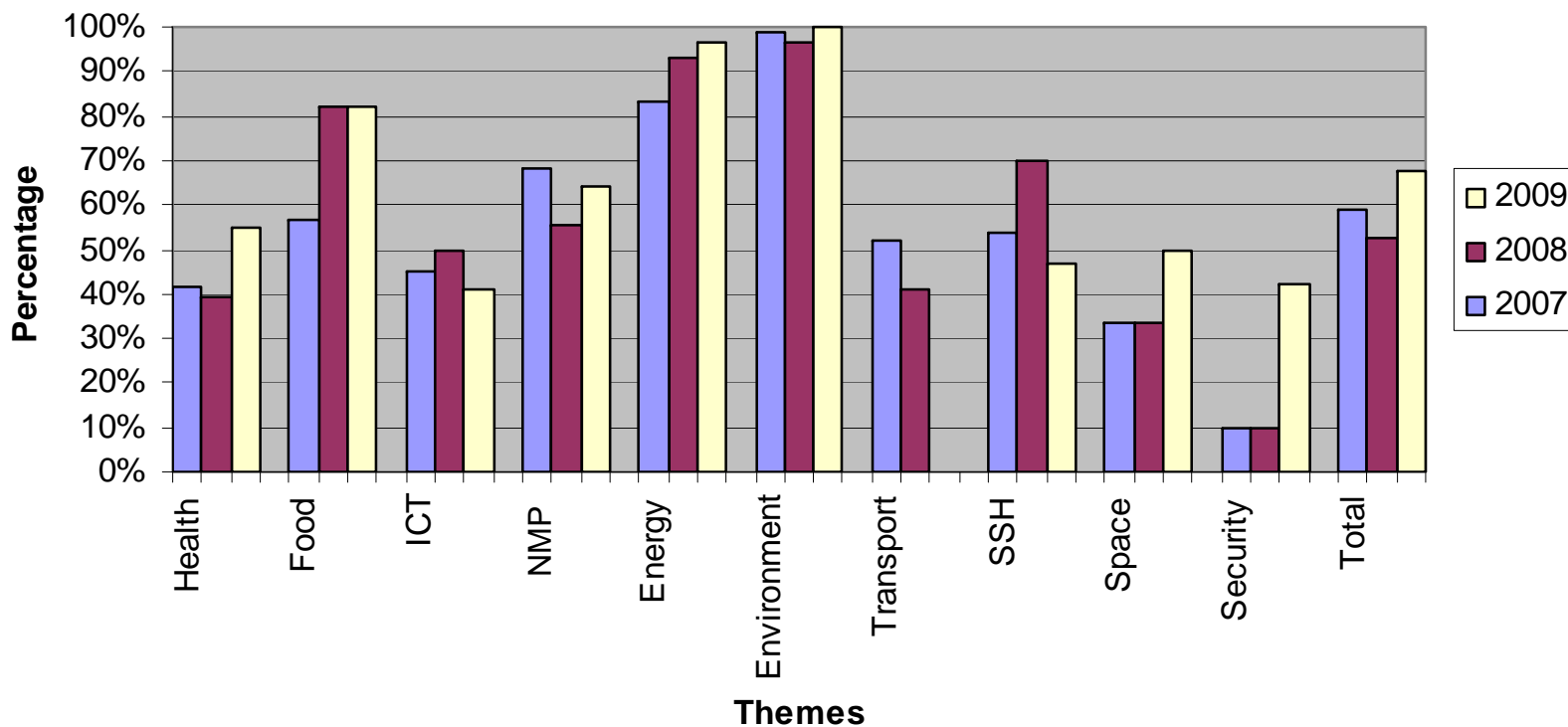
* excluding Health

** excluding Transport



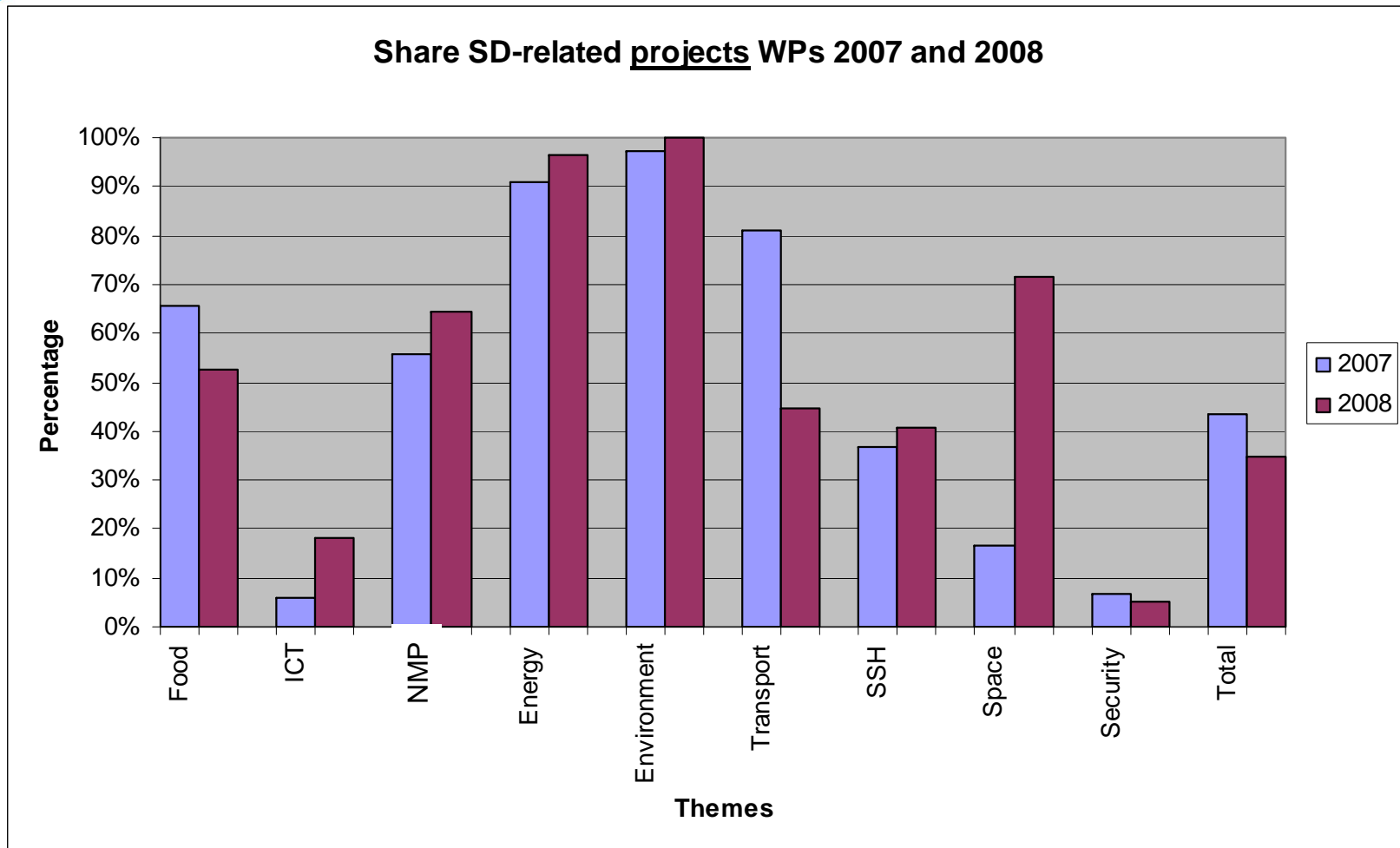
WP Review: First results

Share SD-related topics per Theme





WP Review: First results

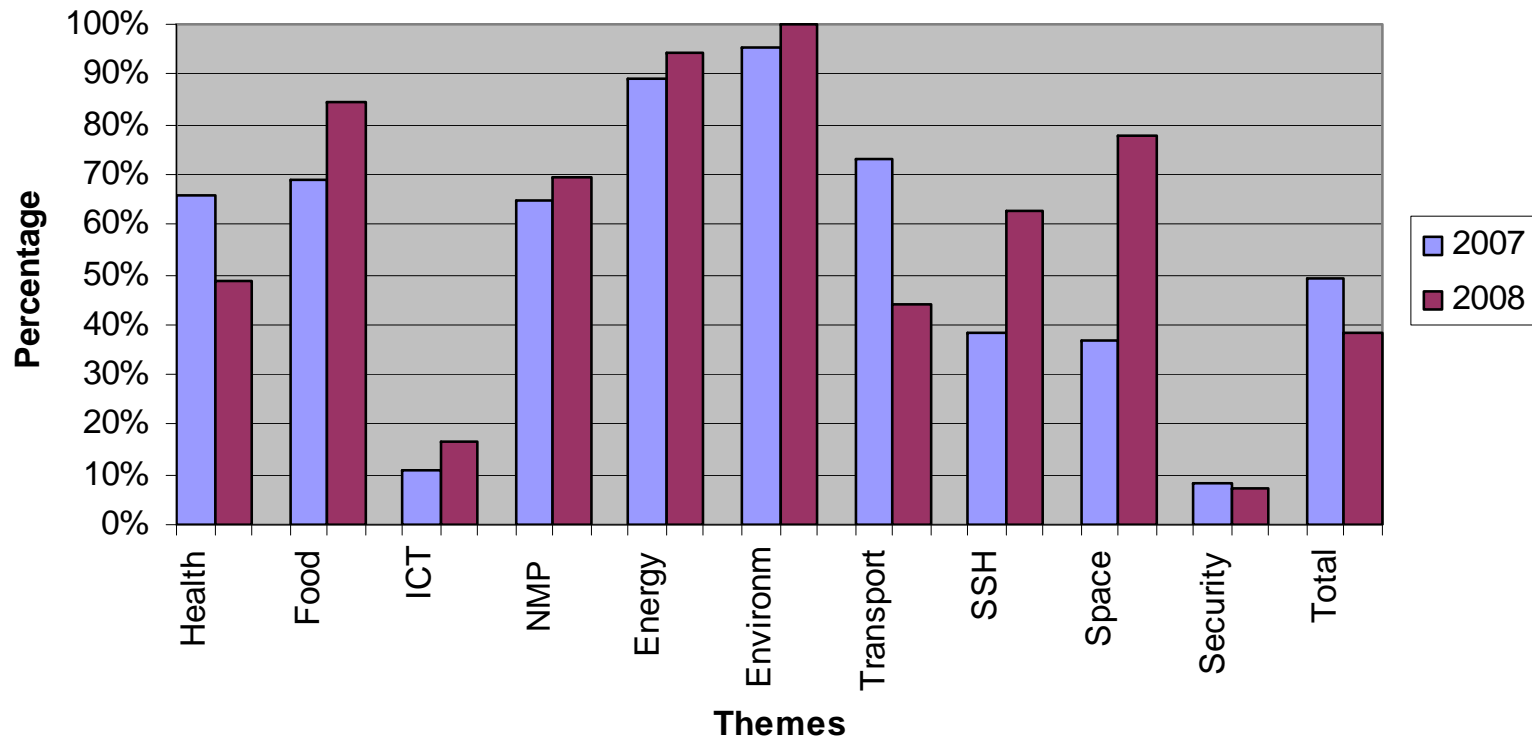


Excluding Health Theme due to incomplete data



WP Review: First results

Share SD-related budget WPs 2007 and 2008





Some concrete examples (1)

Food

- *KBBE-2009-2-5-01: International food trade: anticipating the impact of climate change on the safety of European and global food markets – SICA (large CP)*

ICT

- *ICT-2009.6.1 ICT for Safety and Energy Efficiency in Mobility (IP, STREP, CSA)*



Some concrete examples (2)

Energy

- *ENERGY.2009.4.5.1: Hybrid systems based on solar thermal heating/cooling, backed up by biomass or geothermal to compensate heat load intermittence (CP)*

Environment

- *ENV.2009.2.1.5.1. Sustainable development of coastal cities (large CP, IP, SICA)*



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Community research

2. Progress in 2008

WP Review

Cross-cutting approaches

SD in DG RTD policy
initiatives

- **JTIs**
 - “CLEAN SKY”
 - “Fuel Cells and Hydrogen Initiative”
 - IMI
- **ERA-NETs**
 - 29 SD-related ERA-NETs
- **Joint calls**
 - Bio refineries (2,4,5 and 6, 2008)
 - Novel ICT solutions for Smart Electricity Distribution Networks (3 and 5, 2008)
 - Use, recycling and final treatment of nanotechnology-based products (4 and 6, 2008)



WP Review

Cross-cutting
approaches

**SD in DG RTD
policy initiatives**

- ERA process (Ljubljana process)
- Joint programming
- International cooperation



3. Future perspectives

- Monitoring system
- Reaching out to EU R&D
- RTD Conference "*Sustainable development: a challenge for European research*"
26-28 May 2009



Monitoring system

Monitoring system

Reaching out to EU
R&D

Conference

- To measure FP7 contribution to EU SDS
- Professionalisation of the current WP review
- Contract to be signed at the beginning of 2009



Examples of monitoring output

Monitoring system

Reaching out to EU
R&D

Conference

- Numbers of topics, projects and budget contributing to each EU SDS objective, i.e. energy efficiency;
- Correlated with type of instruments, type and origin of organisations.



Three questions

Monitoring
system

**Reaching out to
EU R&D**

Conference

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?



Small expert group

Monitoring
system

Reaching out to
EU R&D

Conference

Chair: Prof. Luke Georghiou

Research implementation:

Dr. Jennifer Cassingena Harper

Research policy:

Prof. Stefan Kuhlmann

Indicators:

Dr. Laurence Esterle

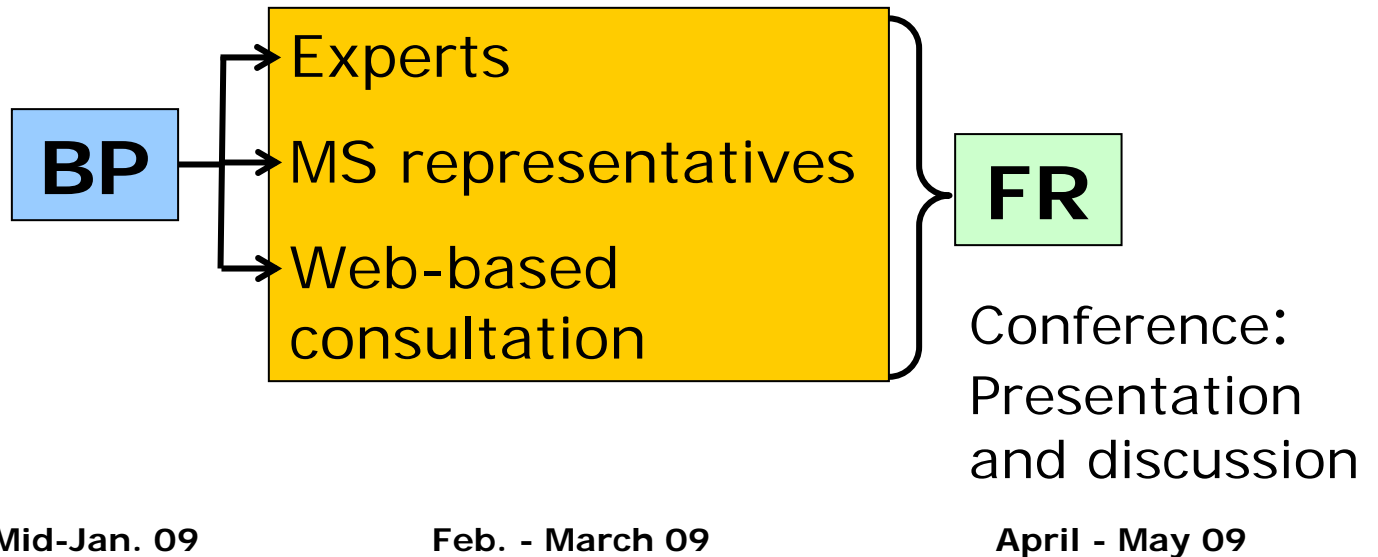
→ First **background paper**
(mid-Jan 2009)

BP



Methodology

Monitoring
system
**Reaching out to
EU R&D
Conference**





Conference

Monitoring system
Reaching out to EU
R&D
Conference

- "Sustainable development: a challenge for EU R&D"
- 26-28 May 2009, Brussels
- **Exhibition stands** - call for proposals, deadline 30 January 2009



3. Future perspectives

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

Monitoring system
Reaching out to EU
R&D
Conference

European Commission
RESEARCH - Sustainable development

European Commission > Research > Sustainable development > Conference 2009

Home | Programme | Call for papers | Exhibition | Registration | Press

sustainable development
a challenge for European research

26-28 May 2009, Brussels
Charlemagne building

This conference will initiate a structured dialogue on how to reform European research to best respond to sustainable development challenges. It will also investigate ways for improving the science-policy link and the relationship between science and society.
more >

What's new?
Exhibition - call for proposals
deadline 30 January 2009

Inside the conference building there will be an exhibition providing space for some 50 stands where organisations with activities related to the theme of the conference will be on display. Organisations willing to exhibit are invited to submit a request to the European Commission.

Call for papers and competition
deadline: 15 January 2009

Local intranet



SD Portal

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

Sitemap | Search | Contact | Legal notice English (en) ▼

European Commission
RESEARCH - Sustainable development

European Commission > Research > Research for SD > Home

Home

Sustainable development is a core objective of the European Union: we need to ensure that our present socio-economic development does not compromise our future. Current EU policies are based on the [renewed Sustainable Development Strategy \(EU SDS\)](#) [191 Kb] of June 2006, where *research and development (R&D) plays an important and multifaceted role.*

The [Seventh Framework Programme \(FP7\)](#) has been set up to allow European research to live up to the R&D needs expressed in the EU renewed sustainable development strategy.

'The Seventh Framework Programme reflects our joined up approach to sustainability'
Janez Potočnik, Commissioner responsible for Science and Research.

This web portal is the entry point to consolidated information on FP7's contribution to sustainable development. When browsing through this website, you can find out about the multiple means through which [FP7 contributes to sustainable development](#). Furthermore, you can explore links to [national and regional initiatives on sustainable development](#) research, learn about the sustainability potential of the [European Research Area](#), and find out about relevant [events](#).

To share your impressions and suggestions, please use the [comments page](#).

EVENTS

- + [ESDN conferences](#)
- + [eHealth 2008 conference \(6-8 May 2008\)](#)
- + [International Year of Planet Earth \(2008\)](#)
- + [More](#)
- + [Call for additional events](#)