



EUROPEAN  
COMMISSION

Community research

# FP7 tailored for sustainability

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



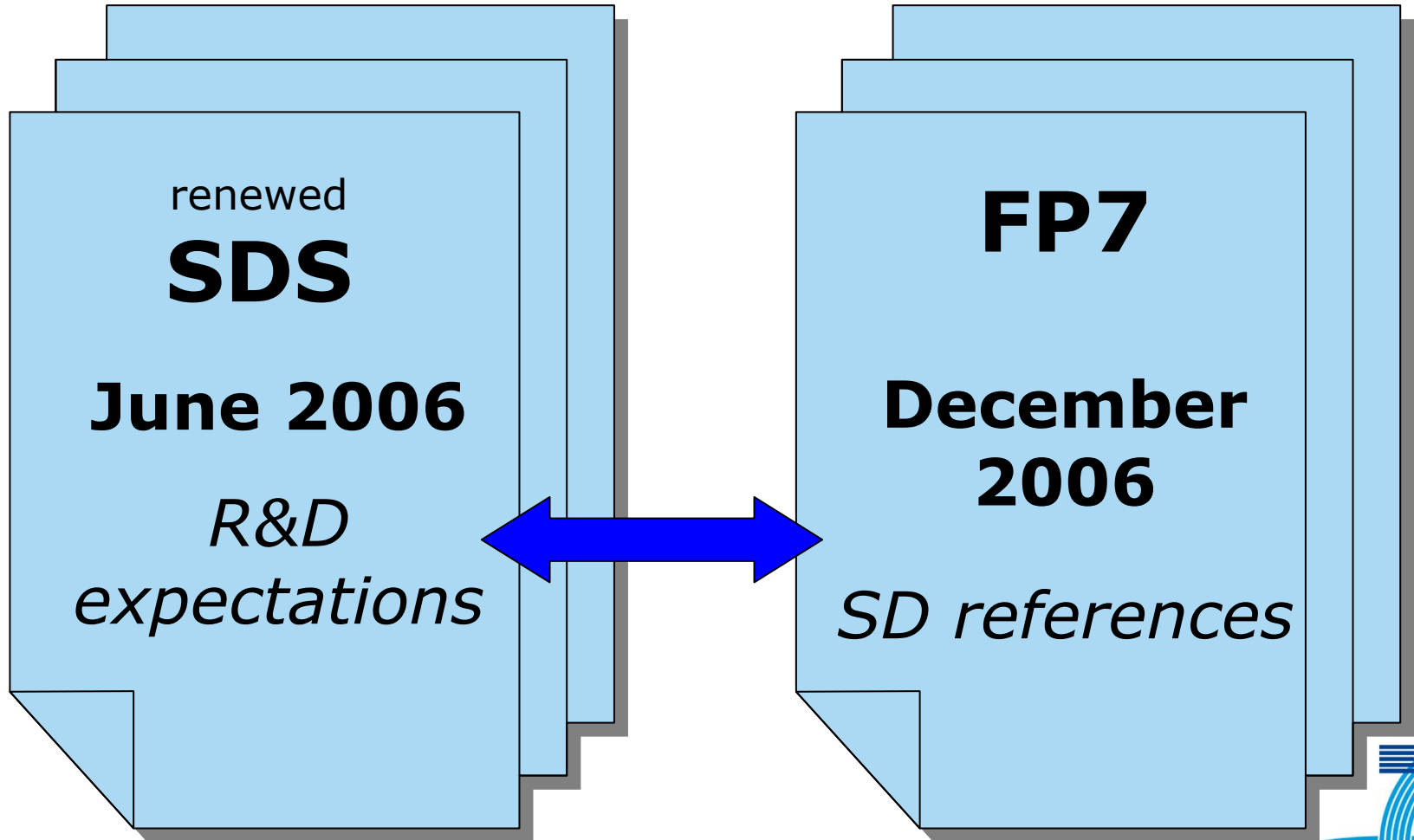


EUROPEAN  
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# Outline

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

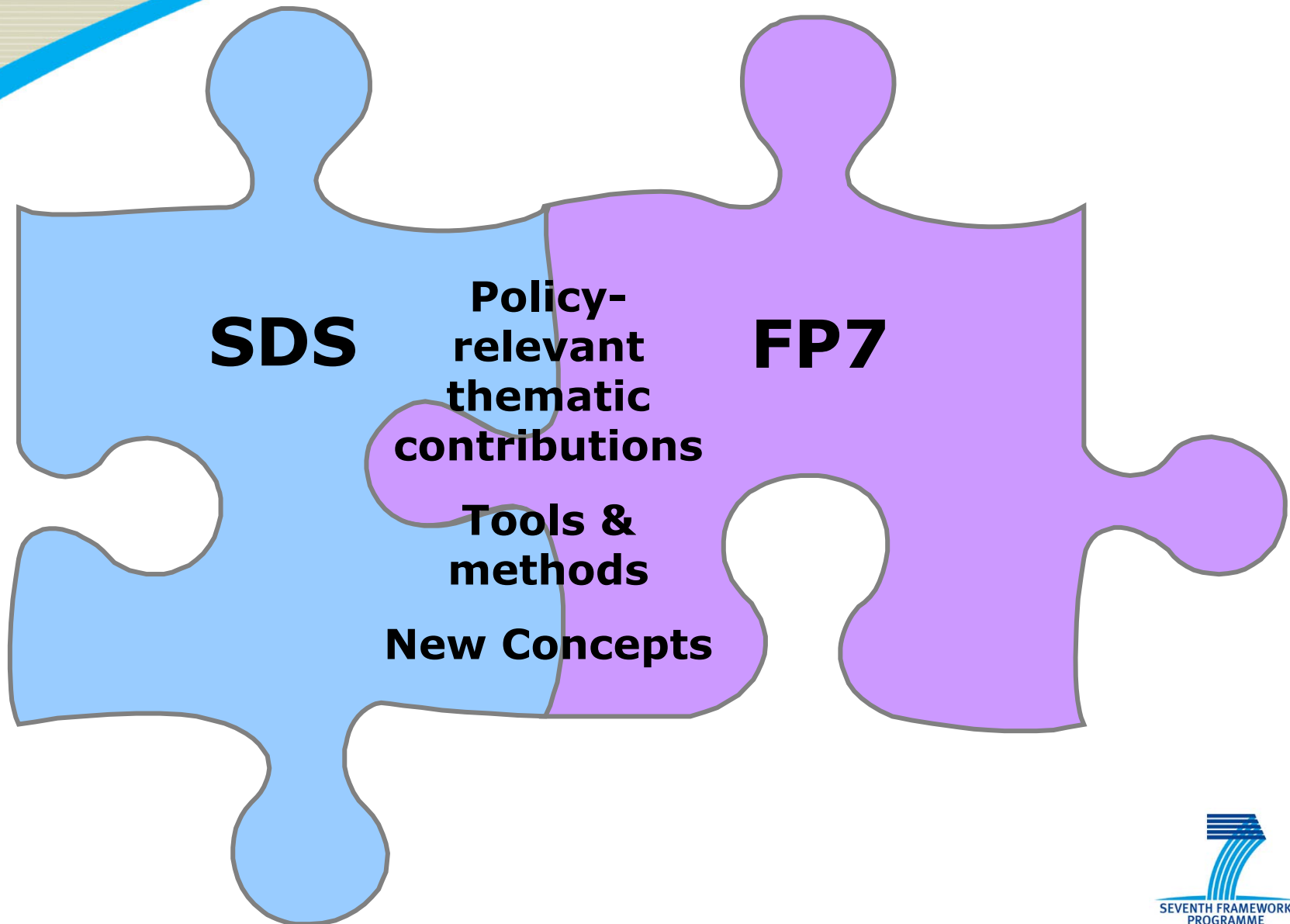
**Implementation,  
monitoring and  
follow-up**

- 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



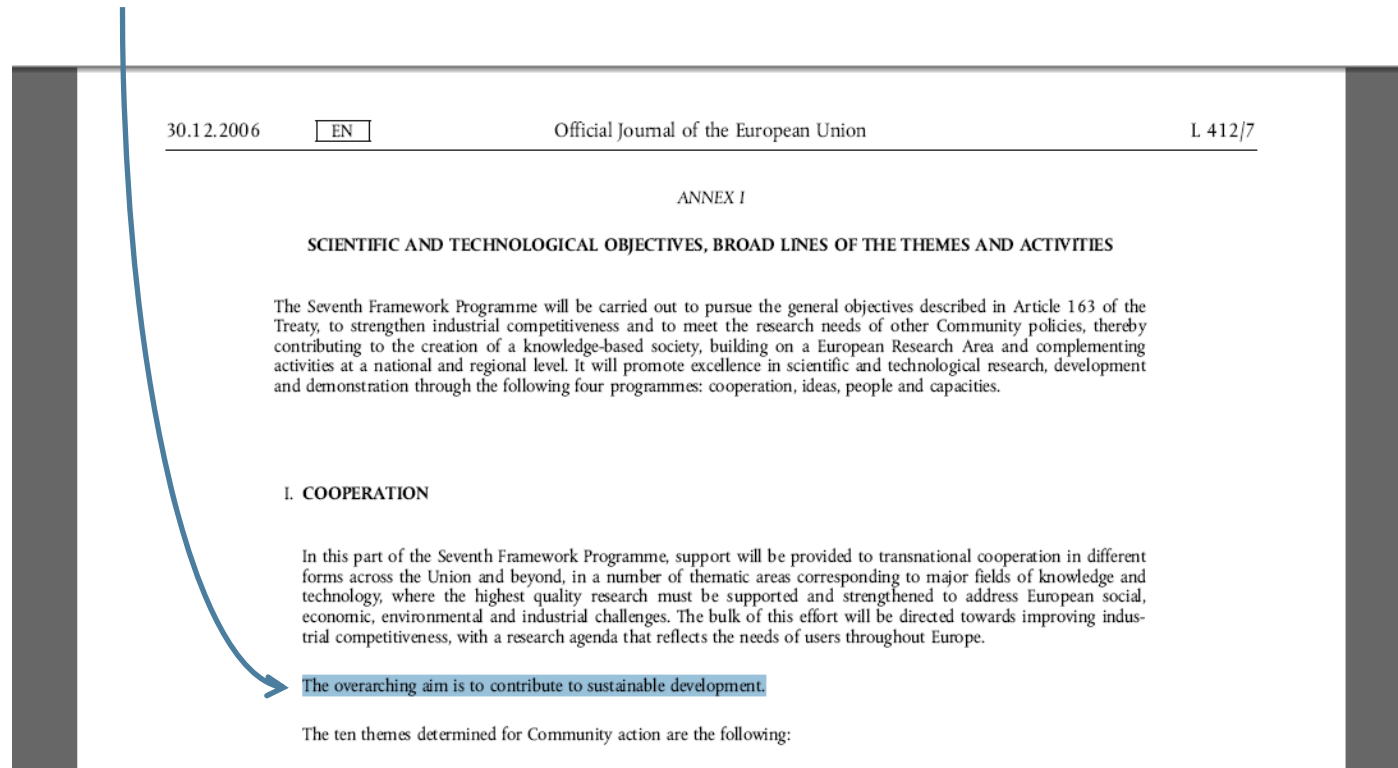
# R&D requests from the SDS

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

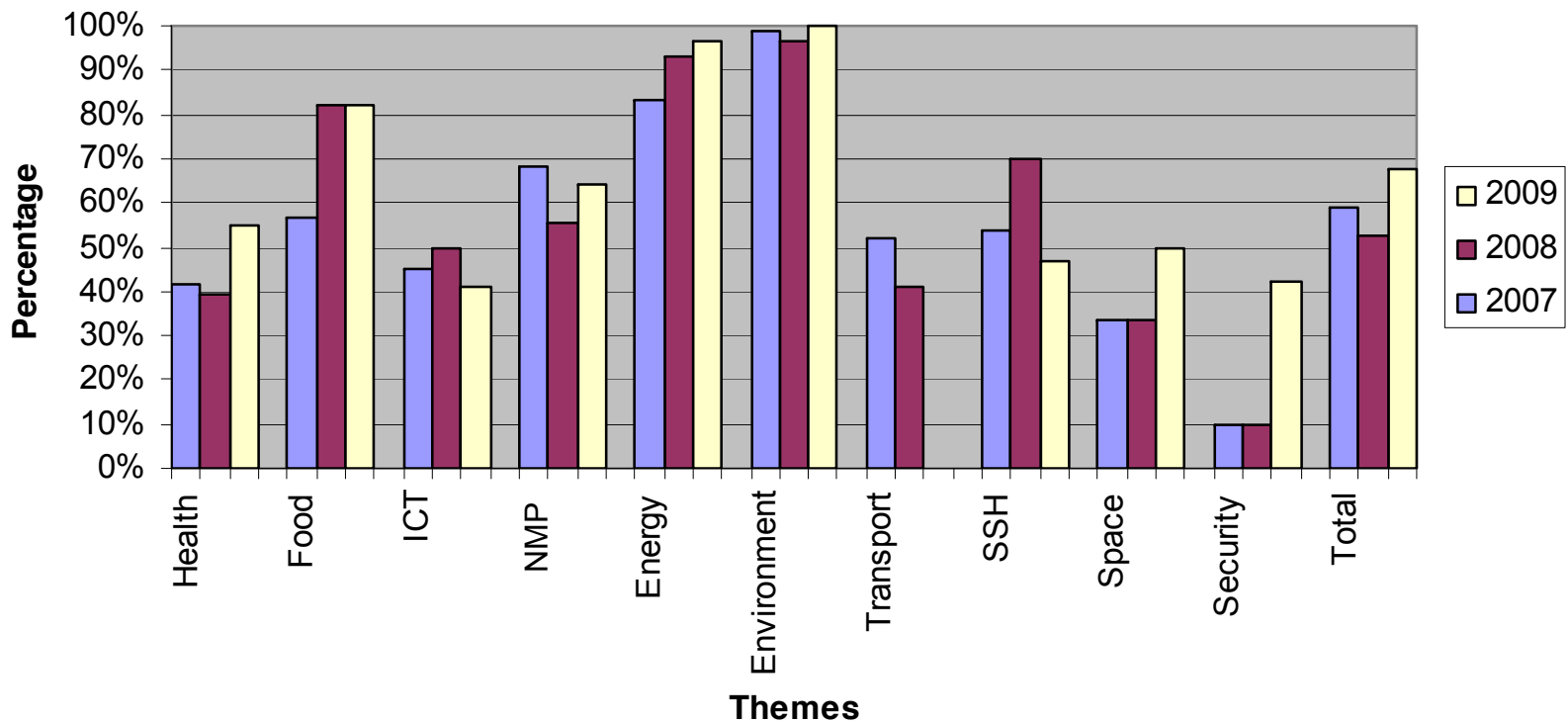
\* excluding Health

\*\* excluding Transport



# WP Review: First results

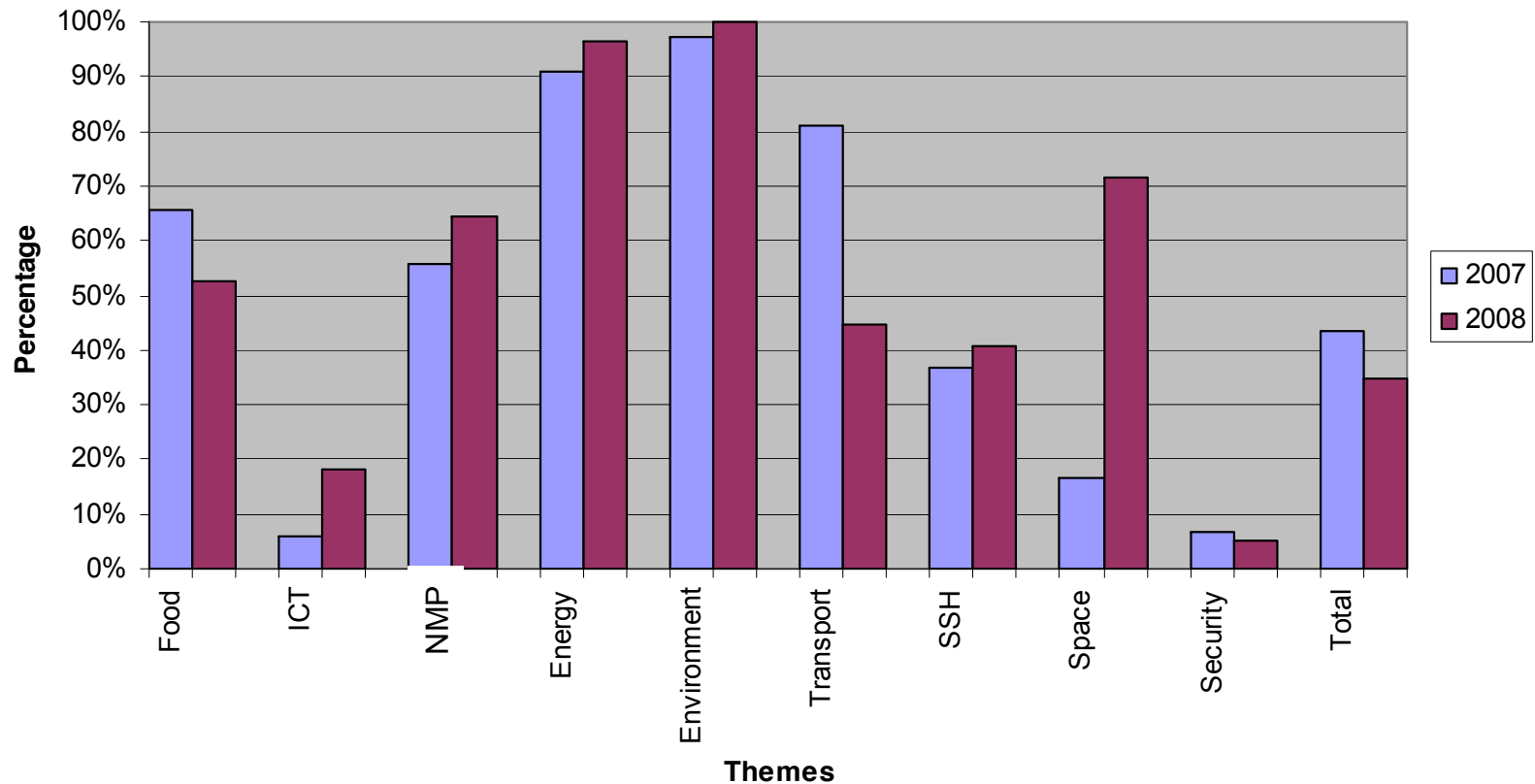
Share SD-related topics per Theme





# WP Review: First results

Share SD-related projects WPs 2007 and 2008

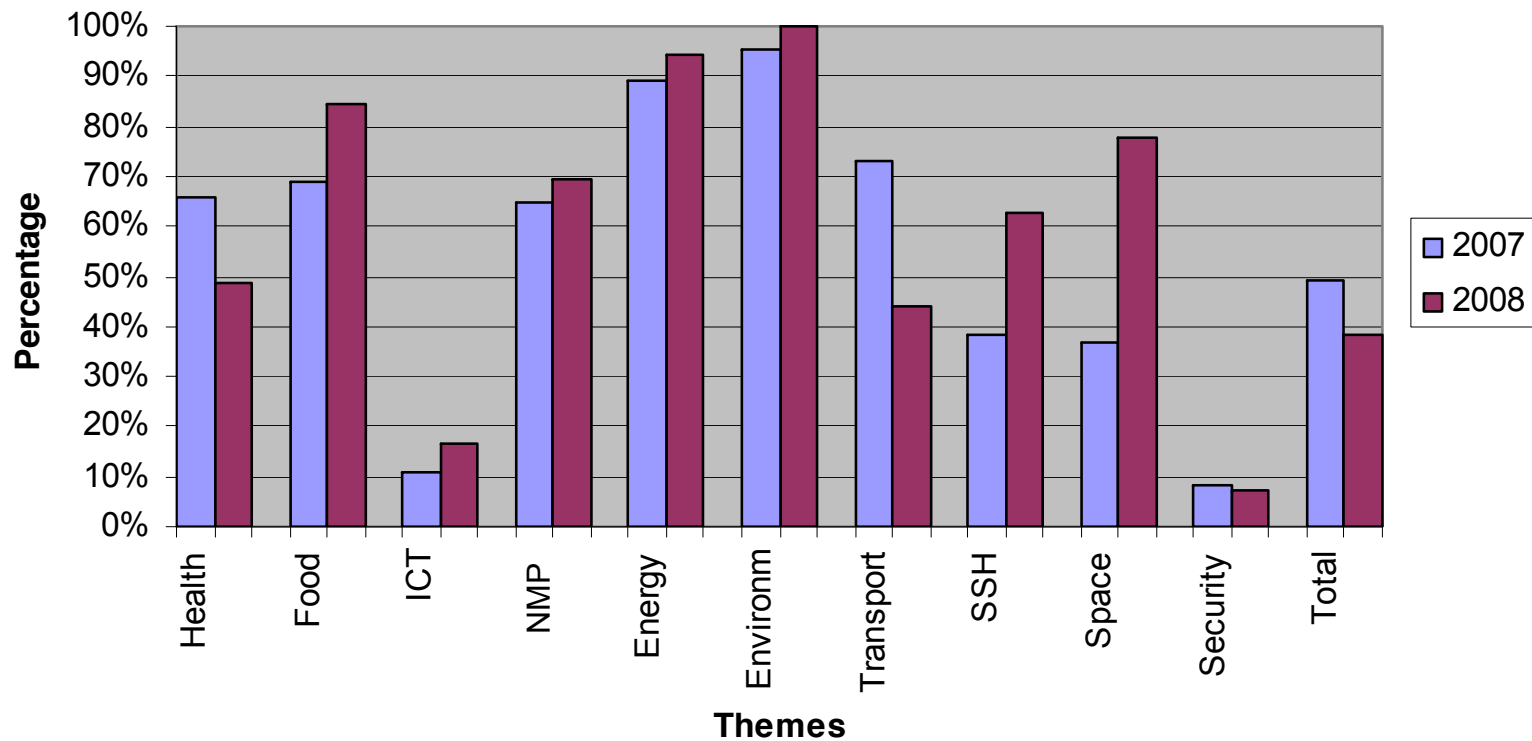


Excluding Health Theme due to incomplete data



# 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)*



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**

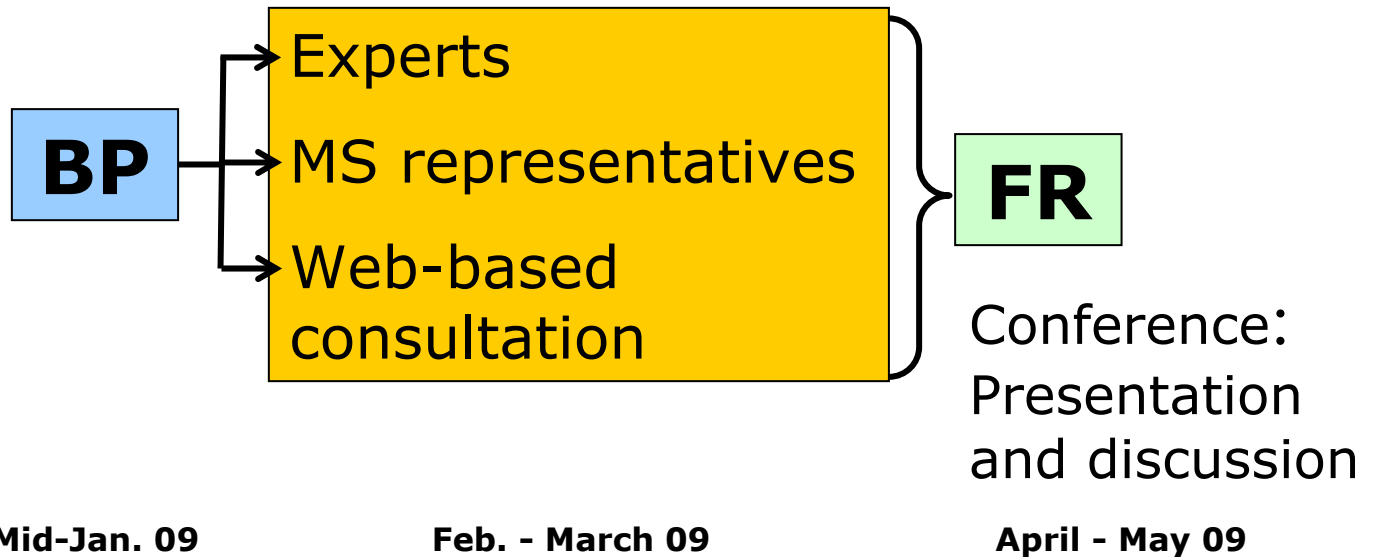


# Methodology

Monitoring  
system

**Reaching out to  
EU R&D**

Conference



Mid-Jan. 09

Feb. - March 09

April - May 09



# 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**

The screenshot shows the website for the 'RESEARCH - Sustainable development' conference. The header includes the European Commission logo and the text 'European Commission RESEARCH - Sustainable development'. Below the header is a navigation menu with links for Home, Programme, Call for papers, Exhibition, Registration, and Press. The main content area features a large graphic with the text 'sustainable development' and 'a challenge for European research'. Below this, it states the conference dates and location: '26-28 May 2009, Brussels Charlemagne building'. There are two main sections: 'What's new?' which includes an 'Exhibition - call for proposals' with a 'deadline 30 January 2009', and a 'Call for papers and competition' with a 'deadline: 15 January 2009'. A 'more >' link is also present. At the bottom right, there is a 'Local intranet' link and the 'SEVENTH FRAMEWORK PROGRAMME' logo.



# SD Portal

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



The screenshot shows the SD Portal website. At the top, there is a navigation bar with links for Sitemap, Search, Contact, Legal notice, and a language dropdown set to English (en). The main header features the European Commission logo and the text 'RESEARCH - Sustainable development'. Below the header is a breadcrumb trail: 'European Commission > Research > Research for SD > Home'. The left sidebar contains a menu with 'Home', 'FP7 tailored for sustainability', and 'Policy context'. The main content area is titled 'Home' and contains a paragraph about sustainable development as a core objective of the EU, followed by a link to the 'Strategy (EU SDS)'. A quote from Commissioner Janez Potočnik is displayed in a box. Below the quote is a paragraph explaining the portal's purpose and providing links to further information. A 'Call for additional events' link is also present. The right sidebar is titled 'EVENTS' and lists several events, including ESDN conferences, eHealth 2008 conference, and International Year of Planet Earth (2008).