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Community research

The Capacities Specific Programme within



Robert-Jan Smits

Bonn 15 January 2007





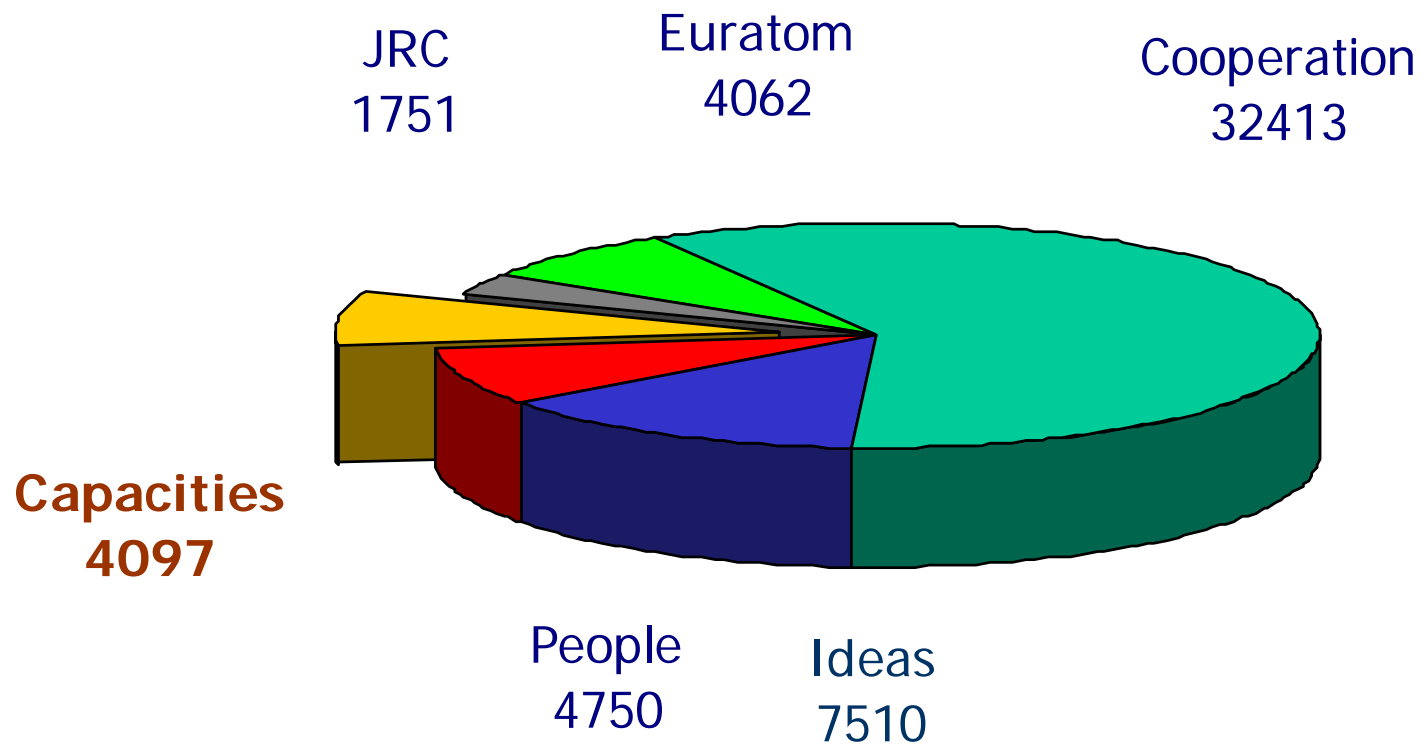
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FP7 2007 - 2013

Budget (M€)

Source: Council decision in December 2006

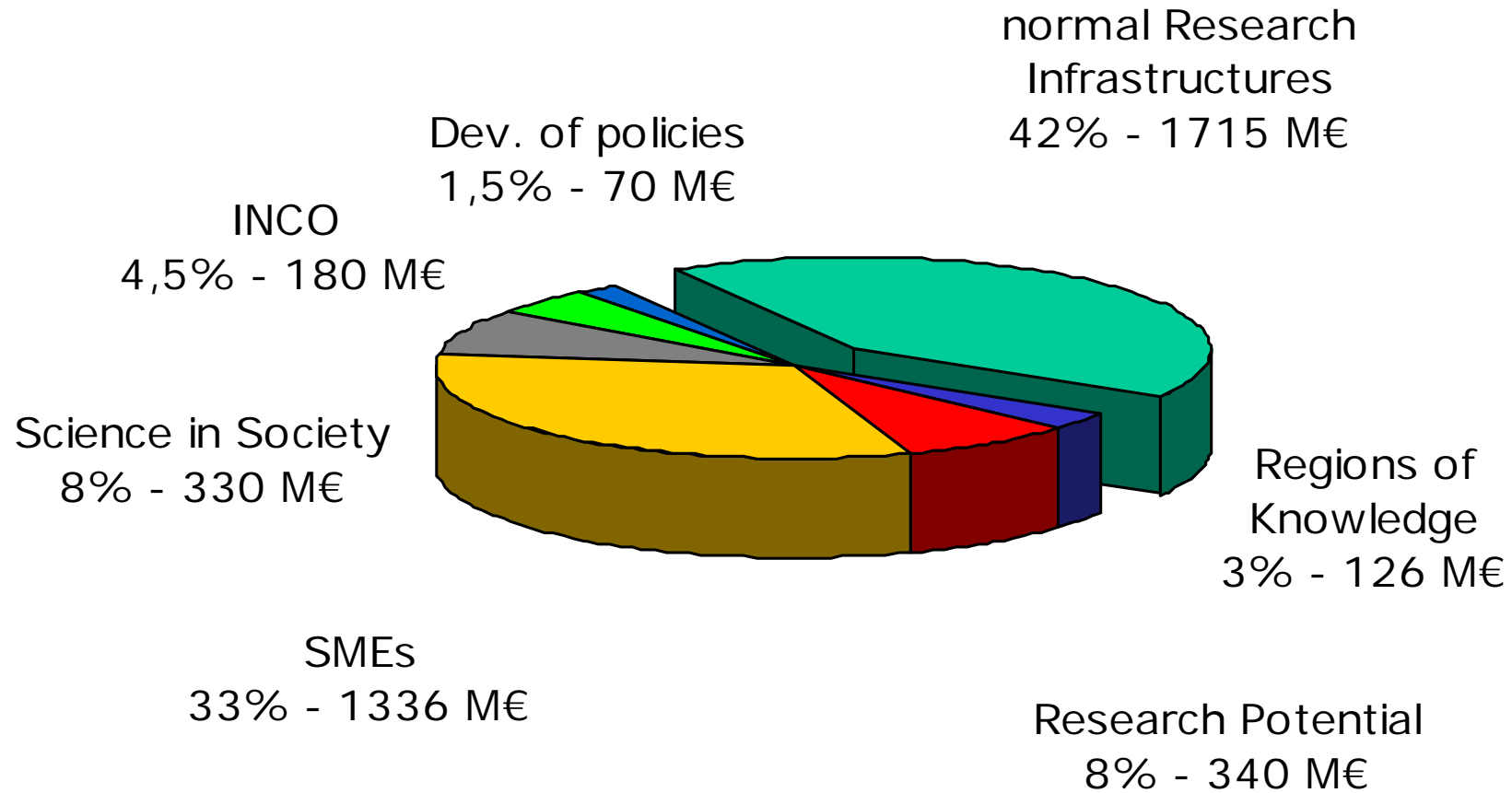




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"Capacities"

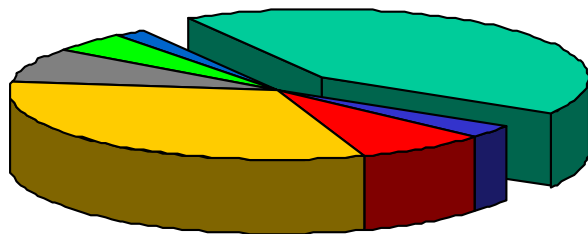




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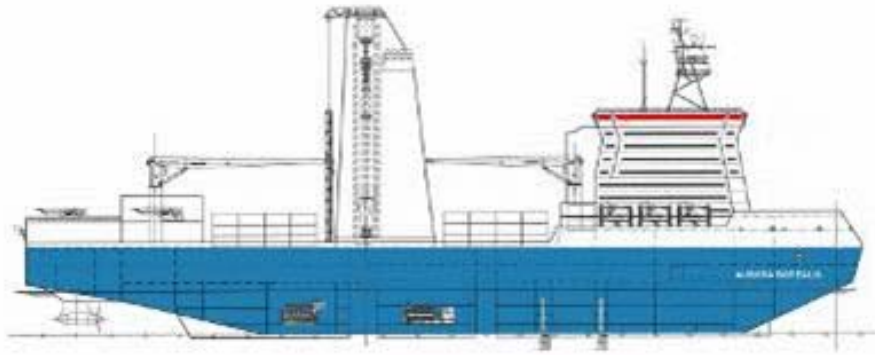
Research Infrastructures



Research
Infrastructures
1715 M€

Almost 30%
increase compared
to FP6





Definition of Research Infrastructures

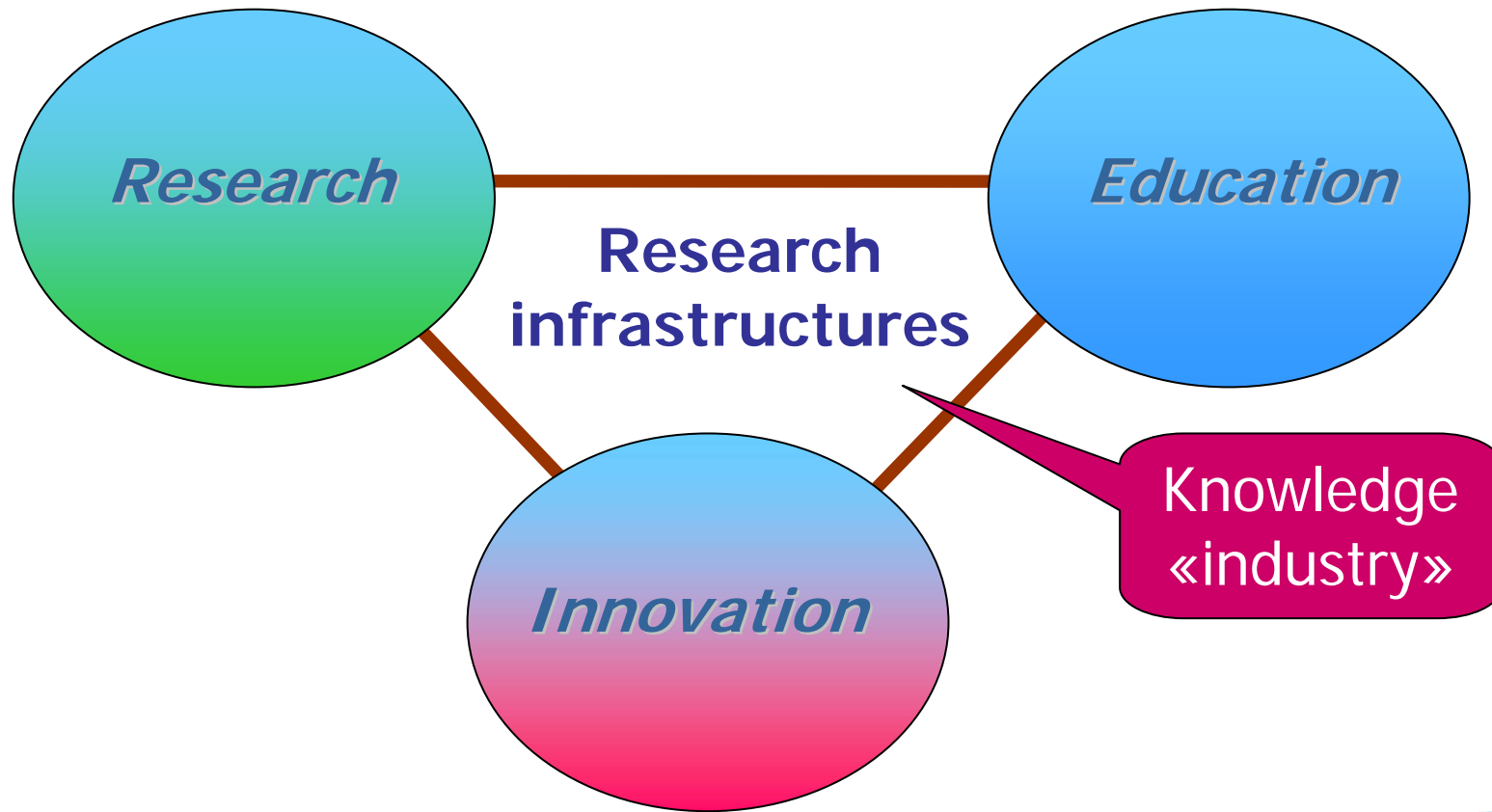
- Facilities, resources, and related services used by the scientific community for
 - ➔ Conducting leading-edge research
 - ➔ Knowledge transmission, knowledge exchanges and knowledge preservation
- Includes
 - ➔ Major scientific equipment
 - ➔ Scientific collections, structured information
 - ➔ ICT-based infrastructures
 - ➔ Entities of a unique nature, used for research



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Research Infrastructures are at the core of the knowledge Triangle





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Objectives of the Community Research Infrastructures action

- Optimising the use and development of the best existing research infrastructures in Europe
- Helping to create in all fields of S & T new research infrastructures of pan-European interest needed by the European scientific community
- Supporting programme implementation and policy development (e.g. international cooperation)



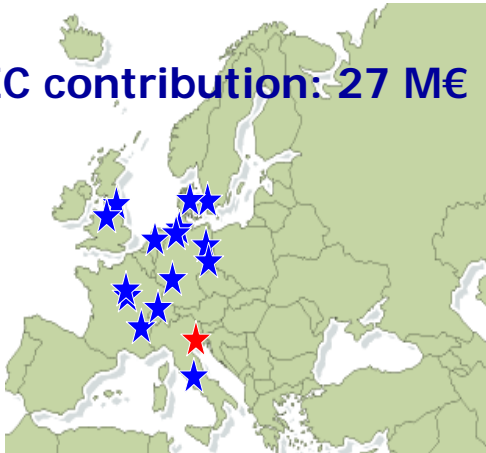


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... an example of an integrating activity under FP6: developing a pan-European Synchrotron and FEL infrastructure

EC contribution: 27 M€



TA (~ 19 M€):

- 15 installations, with 4000 users from a very broad spectrum of disciplines

NA (~ 2 M€):

- Specialized workshops, conferences and schools
(support areas of transnational cooperation)
- Exchange of scientists

JRA (~ 6 M€):

- European platform for Protein Crystallography
- Development of:
 - Photo-injector for X-ray Free Electron Lasers
 - Instrumentation for Femto-second Pulses
 - Diffractive x-ray optics
 - Superconducting Undulator





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FP7 will continue supporting existing Research Infrastructures

- **Integrating Activities** to promote the coherent use and development of research infrastructures in a given field, *implemented through*:
 - **A bottom-up** approach for proposals open to all fields of science
 - **Targeted** approach with topics defined in cooperation with the FP7 thematic areas
- **ICT based e-infrastructures** in support of scientific research

580 M€
2007-2013

420 M€
2007-2013





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FP7 will also increase support to new research infrastructures

- **Design studies:** to support the conceptual design for new facilities or major upgrades, of clear European dimension and interest
 - ➔ through bottom-up calls
- **Support to the Construction of new infrastructures and major upgrades** to existing ones
 - ➔ Preparatory phase
 - ➔ Construction phase

70 M€
2007-2013

530 M€
2007-2013





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Foreseen repartition of funds...

- Support to the preparatory phase
mainly based on the work conducted by ESFRI
two calls foreseen (2007 and 2009)
- (in addition) support to RSFF
- (limited) available resources to
support the construction

200-230 M€
2007-2013

200 M€
2007-2013

100-130 M€
2007-2013





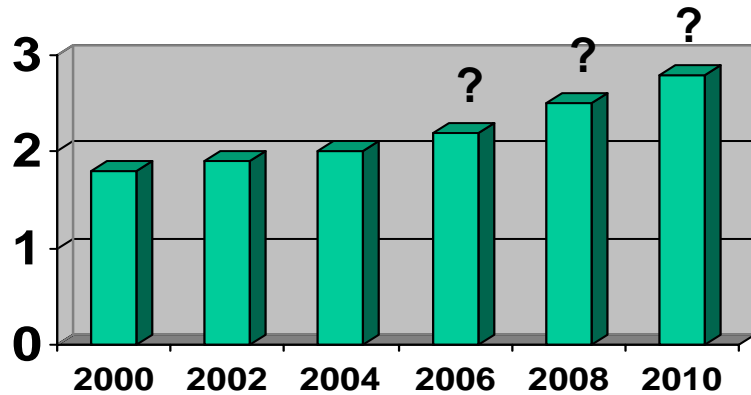
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RISK-SHARING FINANCE FACILITY (RSFF)

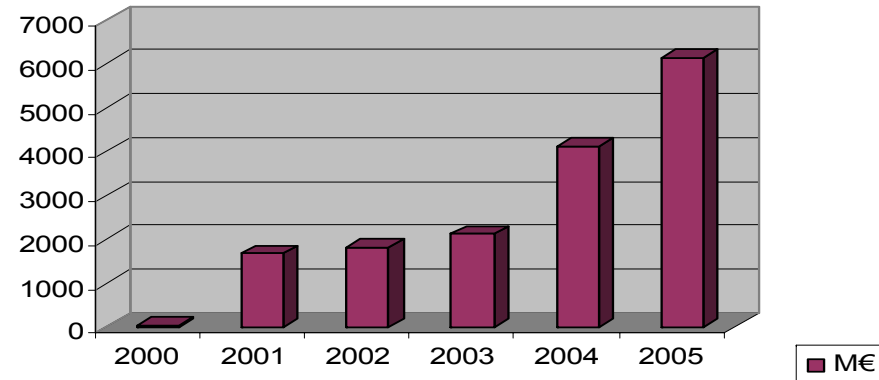
A Commission-EIB Joint Initiative

EU Barcelona Objective :
3% of GDP for R&D in 2010



■ % OF GDP

EIB Innovation 2010 Initiative :
increase lending to R&D

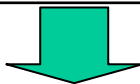


■ M€

EU FP7



Contribution of up to
EUR 1 billion

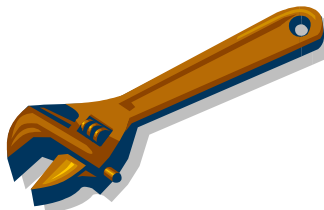
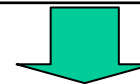


RISK SHARING FINANCE FACILITY

EIB i2010i



Contribution of up to
EUR 1 billion





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RISK-SHARING FINANCE FACILITY

Objectives and value added

An **innovative** financing instrument, developed jointly by the EIB and the Commission to:

- Foster **increased investment in research** by improving access to EIB finance thus helping overcome market deficiency.
- Risk-sharing with EIB to allow:
 - **Larger volume** of risky lending for research
 - Financing of **riskier, but creditworthy** research activities
- Generate a **leverage effect** so that the volume of extra lending is expected to be a multiple 4 to 6 of the Community and EIB funds allocated to the instrument
- Rely on the **existing EIB facility: the SFF**

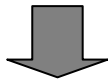




Risk-sharing finance facility (RSFF)

"Doing more with less": the leverage effect

Matching contributions



**FP7
Contribution:**
up to €1 billion

X 2

**EIB
Contribution:**
up to €1 billion

Provisioning and capital
Allocation representing
**15% to 25% (average 20%)
of volume** of
individual loan



**EIB loans and
guaranties:**
€8 to 12 billions
(average: 10)

Loans representing on
average **one third** of
total cost of financed
research projects



**Additional private
investments in
research:**
€16 to 48 billions
(Average: 30)

X 4 to 6
(average: 5)

X 2 to 4
(average: 3)

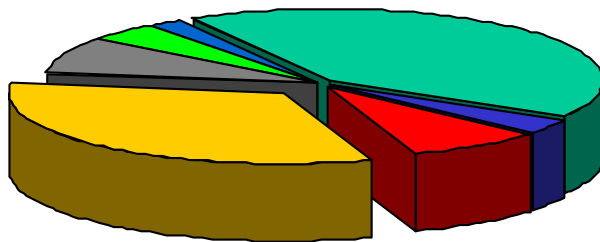




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Research for the benefit of SMEs



SMEs
1336 M€

Almost 50%
increase according
to FP6





SMEs in FP7 - Main initiatives

Four complementary pillars of SME support in FP7			
Community Actions			Member States initiative
Optimized participation of SMEs	Dedicated scheme with special emphasis on SMEs	Budget increase for the two SME specific measures	Article 169 for research performing SMEs
"Cooperation"	"People"	"Capacities"	"Capacities"
Research performing SMEs	Mainly research performing SMEs	Research outsourcing	R&D performing SMEs
Thematic areas	Ind-academia pathways	Bottom-up approach	Market oriented, bottom-up





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SMEs specific actions

Target groups

Research for SMEs:

- Mainly low to medium technology SMEs (with little or no research capability)
- Research intensive SMEs that need to **outsource** research to complement their core research capability

Research for SME associations:

- SME associations which are normally best placed to know or identify the common technical problems of their members



SME specific actions

Key features

	Research for SMEs	Research for SME associations
Duration	1-2 years	2-3 years
Nb partners	5-10	5-15
Total budg *	€ 0.5 – 1.5 Million	€ 1.5 – 4 Million
Activities	R&D, demos, management, other activities	R&D, demos, management, other activities

* Share of R&D of the RTD performers : $\geq 60\%$



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SME specific actions

Coordination & support actions

- Dissemination and exploitation of results; identification and exchange of good practice;
- **EUROSTARS: article 169 initiative;**
- ERA-NET targeting the co-ordination of national/regional programmes targeting SMEs in a similar way to Research for SMEs and Research for SME associations;
- Support to national schemes providing financial means to prepare proposals for actions under 'Research for the Benefit of SMEs' ("exploratory awards");
- Transnational cooperation among NCPs

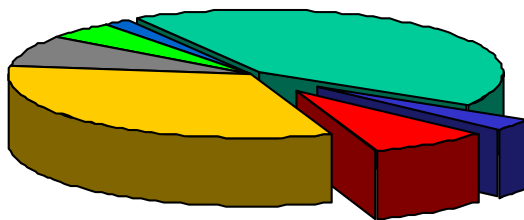




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The Regional Aspects under FP7



**Research
Potential**
340 M€

**Regions of
Knowledge**
126 M€





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Increased Research Capacity of European Regions

- aim:
- * to intensify role of RTD in economic development
 - * to invest in research

actions:

- * to improve links between stakeholders
- * to foster transnational cooperations
- * to enhance mutual learning of regional actors
- * to exchange experience and best practice
- * to *develop joint action plans*





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Two lines of action...

... but NO funding of research

“Regions of Knowledge”

8 M€
in 2007

- for **ALL** European regions
- to encourage and support the **development of « regional research driven clusters »**

“Research Potential”

25 + 8 M€
(Balkans) in 2007

- for **Convergence & Outermost** regions
- to unlock and develop their research potential
- to help researchers to successfully participate in research activities at EU level
- specific actions for WBC





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Expected Impacts

Regions of Knowledge:

- **Regional economical growth** in selected domains
- **Response to the needs** of regional communities
- **Mobilisation** of local, national and community funds to implement defined *regional "action plans"*

Research Potential:

- **Optimisation** of international exposure and recognition, leadership potential, quality of scientists
- **Increase** of visibility of their research groups and of participation in the ERA/FP



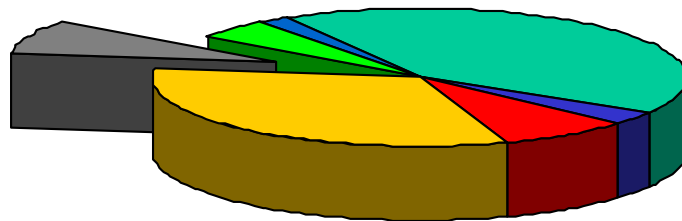


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Science in Society

**Science in
Society**
330M€





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Science in Society

Science in Society - 3 Action Lines:

- 1 A more dynamic governance of the science and society relationship
- 2: Strengthening potential, broadening horizons
- 3 Science and Society communicate





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Science in Society

Science in Society - 3 Action Lines:

1 A more dynamic governance of the science and society relationship

Actions will involve a more direct focus on social needs and interests and implies a move from citizens' involvement as consumers of research findings to richer forms of engagement of citizens and organised civil society in research and research-based policies.





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Science in Society

Science in Society - 3 Action Lines

2: Strengthening potential, broadening horizons

...aims to boost gender equality in research and the take up of science studies and science careers by young people

3 Science and Society communicate looks at how scientists and researchers and wider society communicate with each other, addressing the sometimes ambiguous feelings of citizens as regards potential benefits of science, and fighting the perceived isolation of the world of science from the everyday concerns of Europeans





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Thank you for your attention!

Robert-Jan Smits

