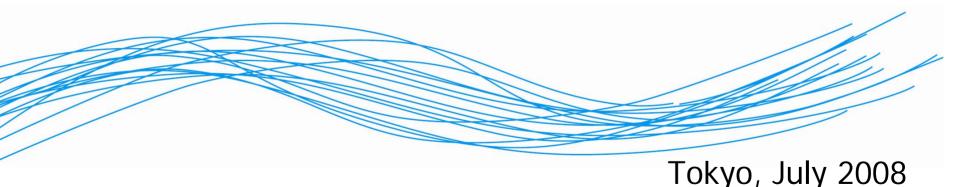


Research Area

Evaluation and Monitoring of European Research Framework Programmes



Dr. Peter Fisch European Commission Directorate General Research A.3





Roadmap

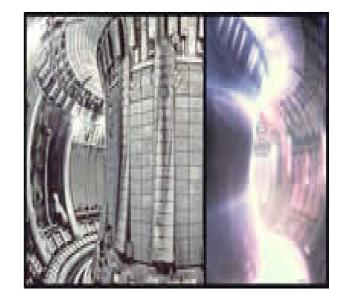
- The European Research Framework Programmes (FP)
- Evaluation and Monitoring of FP6 and FP7
- Open Issues for organising evaluations





EU Research

- Most important multinational research programme world wide
- Complementary to national research activities and programmes
- 27 Member States and Associated Countries contributing
- 100+ countries involved
- Annual budget 6bn €, increasing
- 2500+ research contracts per year, involving 20000 partners







EU Research History

- 1952: European Coal and Steel Treaty; first projects started 1955
- 1957: EURATOM Treaty; Joint Research Centre set up
- 1984: First Framework Programme (1984-1987)
- 1987: *European Single Act Treaty; Research becomes a EU policy* Second Framework Programme (1987-1991)
- 1990: Third Framework Programme (1990-1994)
- 1994: Fourth Framework Programme (1994-1998)
- 1998: Fifth Framework Programme (1998-2002)
- 2000: European Research Area
- 2002: Sixth Framework Programme (2002-2006)
- 2006: Seventh Framework Programme (2007-2013)





EU Research Challenges

-

	EU-25	US	Japan
R&D intensity (% of GDP) (2004)	1.86	2.66	3.18
Share of R&D financed by industry (%) ⁽¹⁾	54.8	63.7	74.8
Researchers (FTE) per thousand labour force ⁽²⁾	5.5	9.1	10.1
Share of world scientific publications (%) (2003)	38.3	31.1	9.6
Scientific publications per million population (2003)	639	809	569
Share of world triadic patents (%) (2000)	31.5	34.3	26.9
Triadic patents per million population (2000)	30.5	53.1	92.6
High-tech exports as a share of total manufacturing exports (%) (2003)	19.7	28.5	26.5
Share of world high-tech exports (%) (2003)	16.7	19.5	10.6
Notes: ⁽¹⁾ EU-25: 2003; US, JP: 2004. ⁽²⁾ EU-25: 2004; US: 2002; JP: 2003.			SEVENTH FRAMEWOR

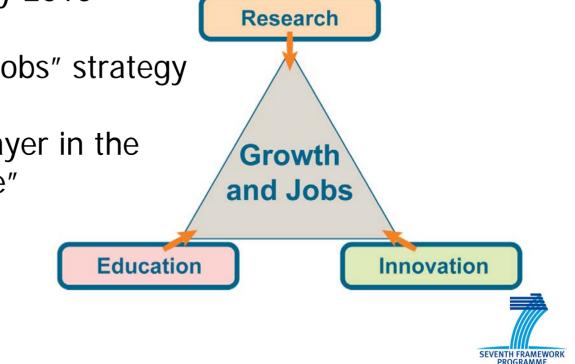


EU Research Lisbon Strategy

• 2000 "Lisbon agenda":

"making the European Union the most competitive economy in the world and achieving full employment by 2010"

- 2005 "Growth and jobs" strategy
- Research as key player in the "Knowledge triangle"





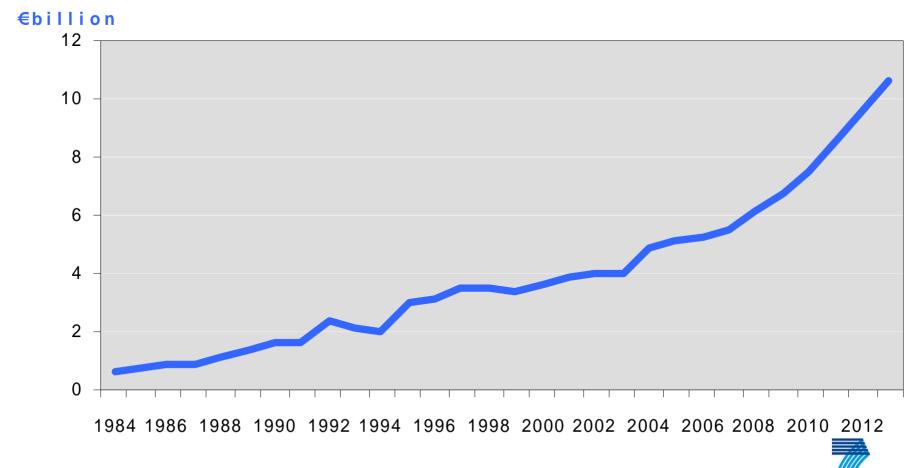
EU Research European Research Area

- Increased cooperation and integration of research activities at European/national/regional level
- Launched in 2000 as background to FP6 ...
- ... relaunched in 2007 with Green Paper underlining potential "Internal market" for research
 - Free circulation of researchers, technology and knowledge
 - Effective European-level coordination of national and regional research activities, programmes and policies
- Focusing on seven axes researchers; infrastructure; institutions; knowledge sharing; coordinated research programmes; world access

SEVENTH FRAMEWORK

EU Research Framework Programmes

Annual Budgets between 1984 and 2013



NB: budgets in current prices. Source: Annual Report 2003, plus FP7 revised proposal

FILROPEAN

COMMISSION

European Research Area



FP7 2007 –2013 Structure

Cooperation – Collaborative research

Multi-partner projects, top-down agenda

Ideas – Frontier Research

Individual projects, bottom-up agenda

Capacities – Research Capacity

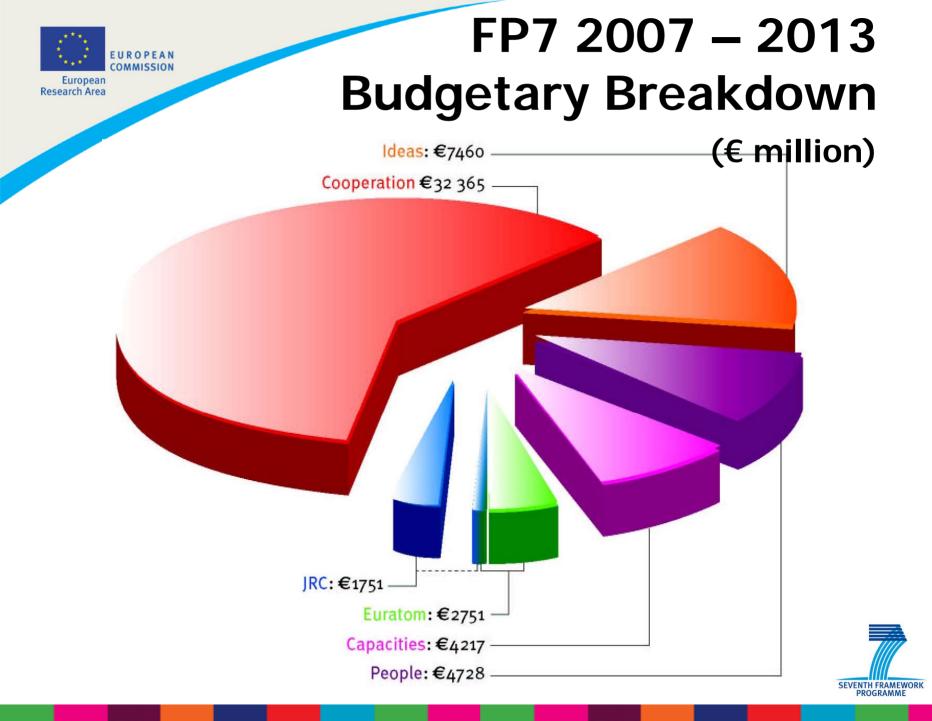
Sharing of infrastructures ...

People – Marie Curie Actions

Mobility programmes for post-docs, Training courses, ...

Other activities (EURATOM, JRC, ...)

SEVENTH FRAMEWORK PROGRAMME





FP7 2007-2013 Thematic Areas ('Cooperation')

I. Cooperation	Budget (€million, current prices)
1. Health	6 100
. Food, agriculture and fisheries, and biotechnology 1 935	
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





FP Evaluation System (1)

- Actors
 - Political level (Member States)
 - European Commission level
 - "Directorate General" level (Ministries)
 - Member States' evaluation
- Rules
 - Framework Programme Decisions
 - European Commission Financial Regulations and related rules
 - European Commission Communications on Evaluation
 - Other types of internal European Commission Regulations





FP Evaluation System (2)

FP6	FP7	
Annual Monitoring by independent experts	Internal monitoring of implementation -Indicators to track progress	
	FP7 interim evaluation	
Five Year Assessment by high- level independent experts	Ex post assessment of each FP, 2 years after its completion by high-level independent experts	
Impact surveys at FP level	Strengthened programme of coordinated strategic-level evaluations	
Evaluation studies at operational level	Evaluation studies at operational level (portfolio, programme)	
National impact studies	Coordinated national impact studies	
Ad-hoc research-related activities	FP research on evaluation tools and approaches	



FP7 Monitoring Implementation

- Move from external monitoring (FP6) towards internal monitoring (FP7)
- Move from an "ad-hoc" approach towards a continuous and systematic collection of information and indicators
- Monitoring primarily aimed to support management in implementing FP7
- Annual report to be presented to the Programme Committee and to be published on internet
- Possible information source for future FP7 evaluations
- Flexible system to develop as FP7 will become more "mature"





FP7 Monitoring Issues at Stake

- Application numbers
- Proposal Evaluation
- Time to contract
- Success rates
- User Feedback
- ...





FP6 Ex-post Evaluation

- Actors: Expert group; Commission services
- Legal base: FP Decision
- Scope: All Community research activities
- Organisation: Coordinated approach between
 Commission services for FP activities
- Input: Reports from INFSO and JRC; evidence base of 30+ studies; Member States' studies; expert analyses; self assessments,...
- Output: Expert group report (findings and recommendations); Commission response
- Timing: Panel report by end 2008
- Dissemination: Policy makers and FP management



FP6 Ex-post Evaluation Issues at Stake

- Longer term impact and consequences of FP activities?
- Changes in behaviour of participants?
- Networking patterns (geographical / institutional)?
- Networks of Excellence?
- Integration of new Member States?

• ...

PROGRAMME



Evaluation of FP7

Roadmap

- Progress Report 2009
- Interim Evaluation 2010
- Ex-ante Evaluation in time for new Commission proposal on "FP8"
- Ex-post Evaluation 2015
- FP7 interim evaluation
 - Independence
 - Comprehensive evidence base
 - Build on the ex-post evaluation of FP6





FP Evaluation Perspectives

- Growing EU Research budget also means: Increased need for accountability
- Efficiency of the European RTD system under scrutiny
- Timing of forthcoming evaluations in line with need to have an informed debate on future EU RTD policy
- Need to focus more on the "fundamental" aspects and less on minor implementation issues
- Need to develop evaluation capacities in Europe as part of the European Research Area





FP Evaluation Achievements and Challenges

- ☑ Individually robust evaluations
- ☑ Independence
- ☑ Assessment of impact on scientific knowledge
- ☑ Justification of interventions
- European network
- ☑ Some evolution of tools
- Coordination
- Assessment of longer-term impacts
- Assessment of socio-economic impact
- Use of results in implementation





Open Issues Intervention Logic

- Specify a clear intervention logic in the basic legal acts
- Develop a hierarchy of (measurable) objectives throughout the different levels (programmes, projects)

- Difficult to achieve in a complex environment like the European Union
- Need to develop new types of indicators in order not to be blocked by just aiming at what you can measure ...





Open Issues Overall Evaluation Strategy

- Clear evaluation strategy from the outset
- Complete coverage of all activities
- Right timing in view of revisions and development of new actions

- Concise long term-time planning
- Need to improve on overall coherence of the evaluation activities carried out in different fields of the FP





Open Issues Diversity and Coordination

 Calls for strong coordination and "harmonisation" clash with the need to use a wide spectrum of different evaluation approaches

- Diversity is one of the big assets of Europe
- Different traditions and schools across Member States
- Unique opportunity to bring together wide range of evaluation approaches
- Challenge to turn "constructive chaos" into operational structures





Open Issues Control or Understanding

- Different views on what drives evaluation
 - Need to control activities and actors
 - Wish to understand what is going on
- Major implications on the organisation and focus of evaluations

FP evaluation:

 Focus on evaluation as a management task to gain a better understanding of the activities undertaken





Open Issues Longer Term Impact

 Full impact of research activities can only be assessed after a long period of time, as full implementation can take several years

- In order to be on time (politically), evaluations are carried out very early ...
- Test-run planned for a study looking back at projects which were finished some 8 to 12 years ago
- Easier said than done ...





Open Issues Concise Messages

 A too much detailed level of analysis prevents many evaluation reports from having a real impact in the wider political and societal context

- Meta-Evaluation through expert panels as a tool to "condense" otherwise too dispersed evaluation findings
- Further efforts are needed to focus on key messages for communication with the target audiences





Open Issues Organise Mutual Learning

- There is no "ideal" evaluation
- All actors are trying out different approaches
- Need to organise more mutual learning

- European RTD Evaluation Network, involving experts from 30+ countries
- Interest in more active exchange at global level





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