

# EU 7th & 8th Framework Programmes

Drs. Geert-Jan Arends  
Senior consultant  
Transfer & Liaison Groep  
University of Groningen  
The Netherlands

# Overview

Introduction

European Research

FP7

FP8



# Geert-Jan Arends

Degree in Solid State Chemistry

8 years industry (Multinational and SME)

15 years University of Groningen

Main task: EU funds

Also: business manager CCC: research institute on carbohydrates (25 partners, 30 M€ programme)

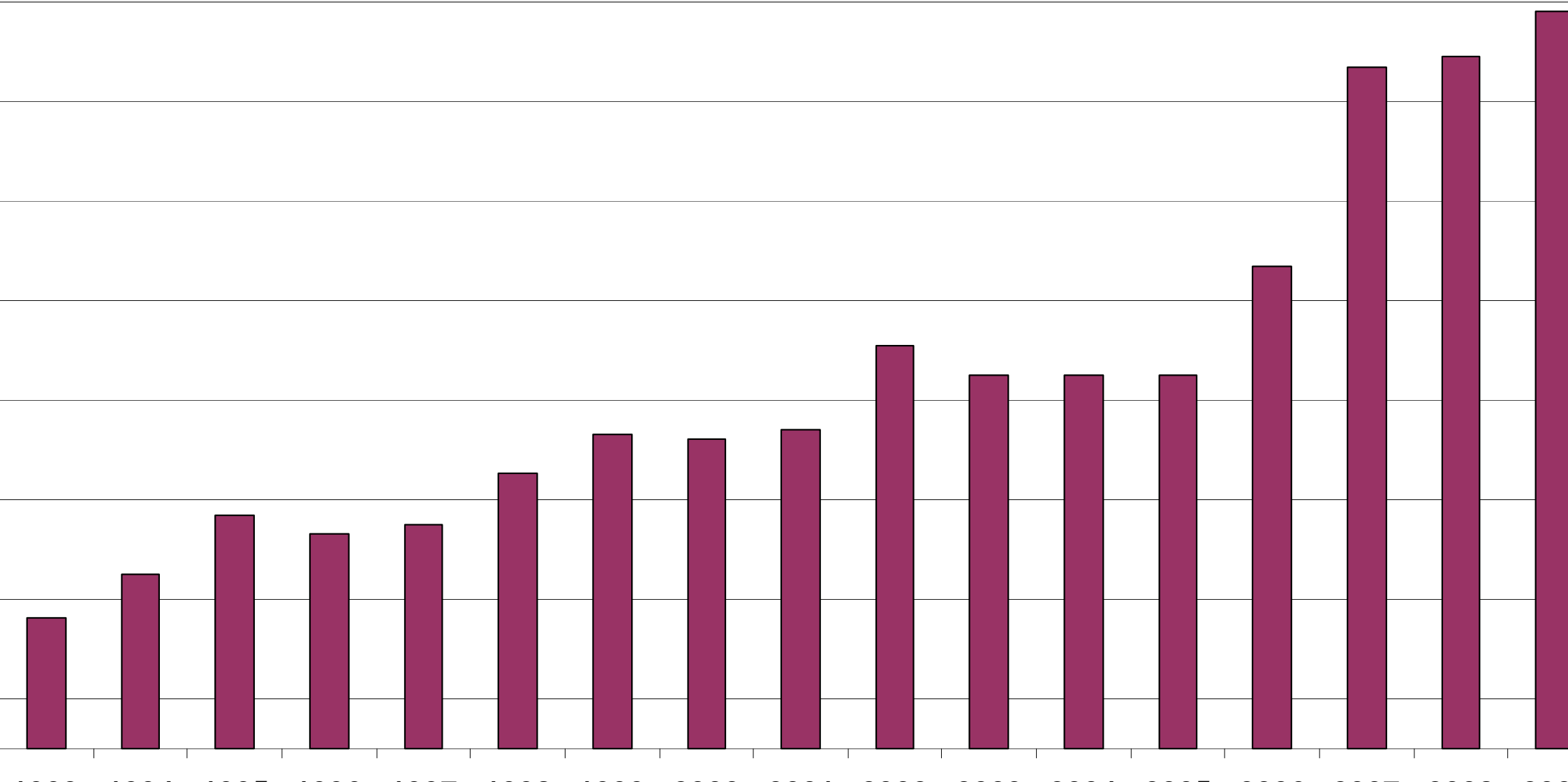
# Transfer & Liaison Groep

Staff of 12

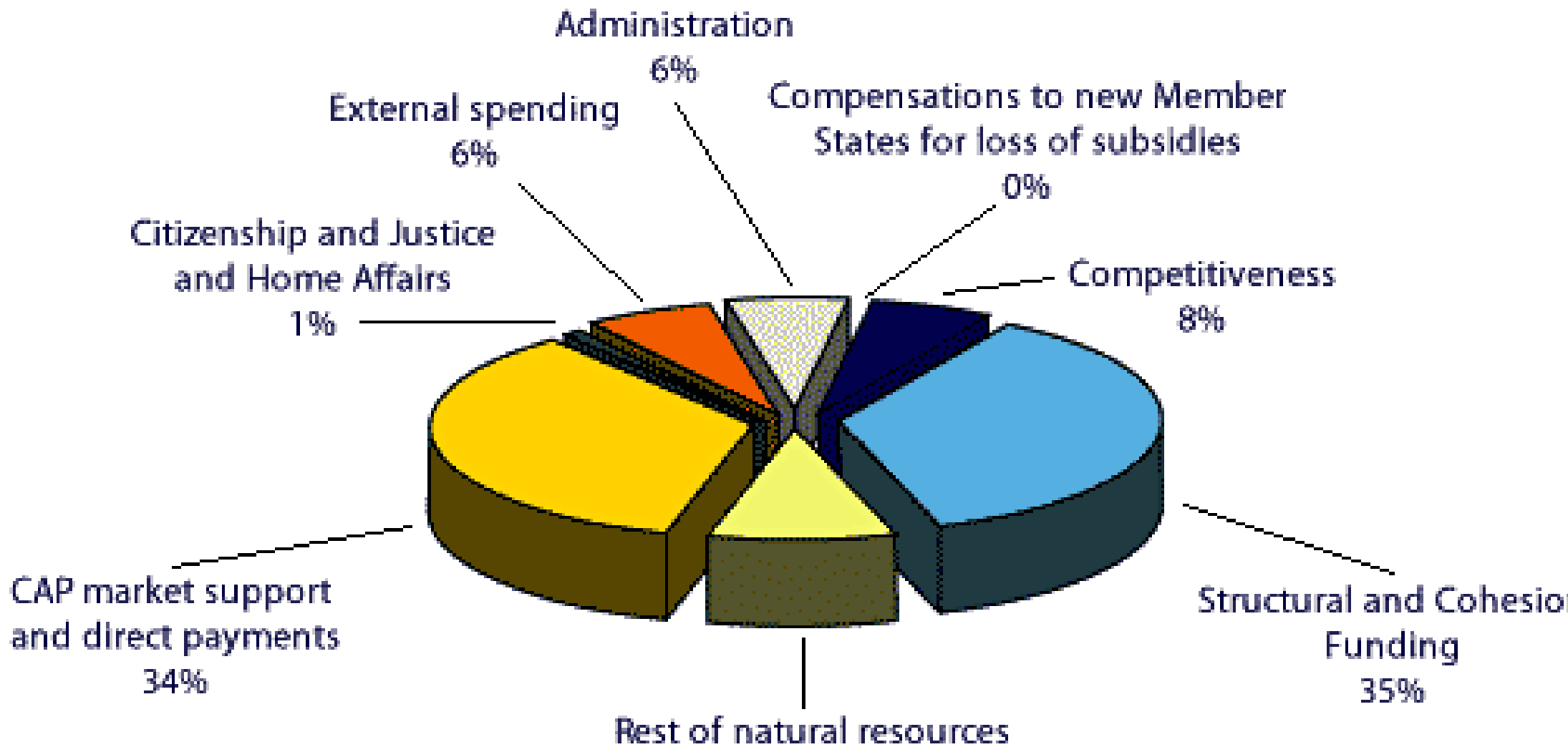
Mission:

- innovation
- relation with (regional) companies
- patents and commercialisation
- stimulate income from external funds

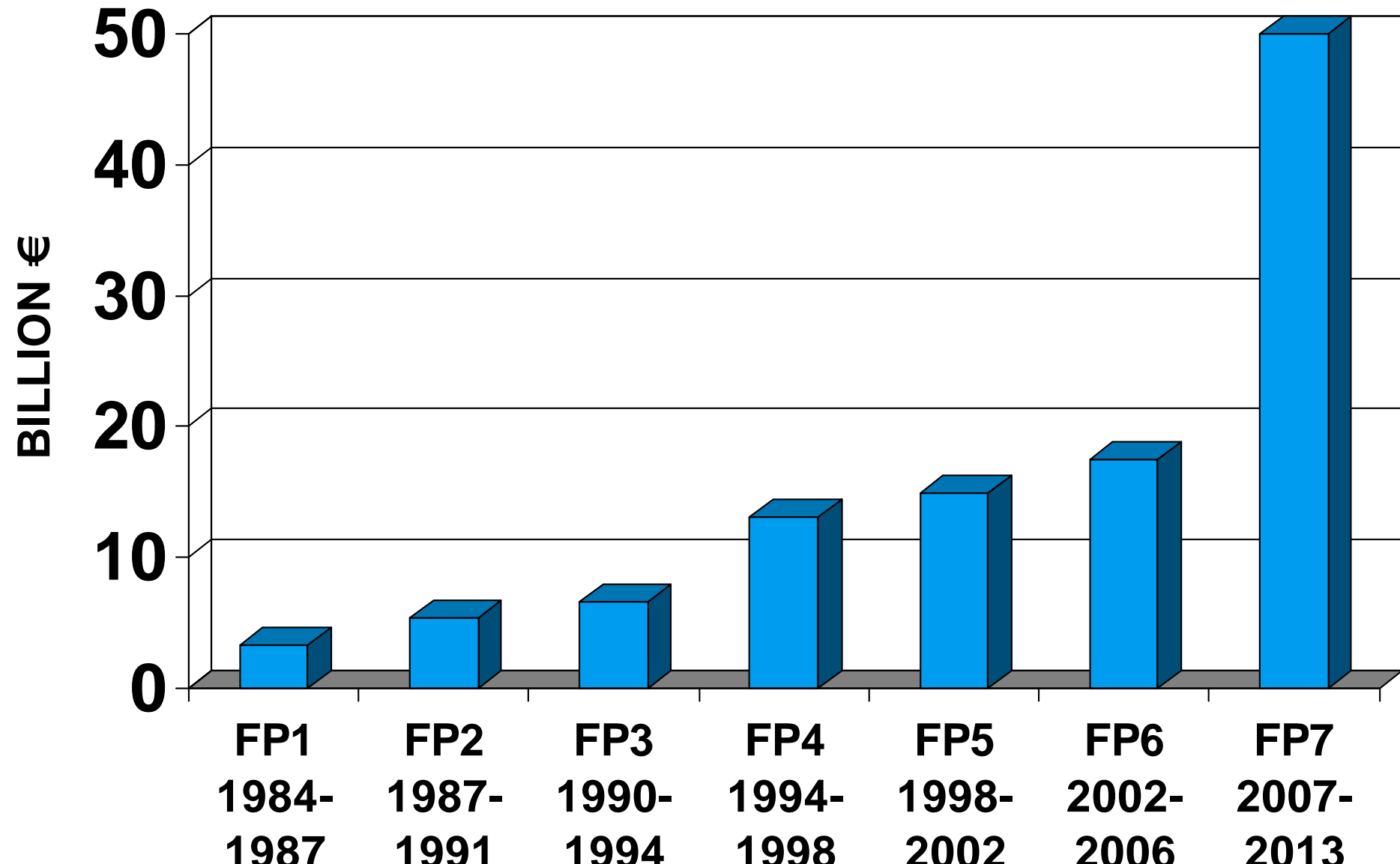
# Funding from Brussels



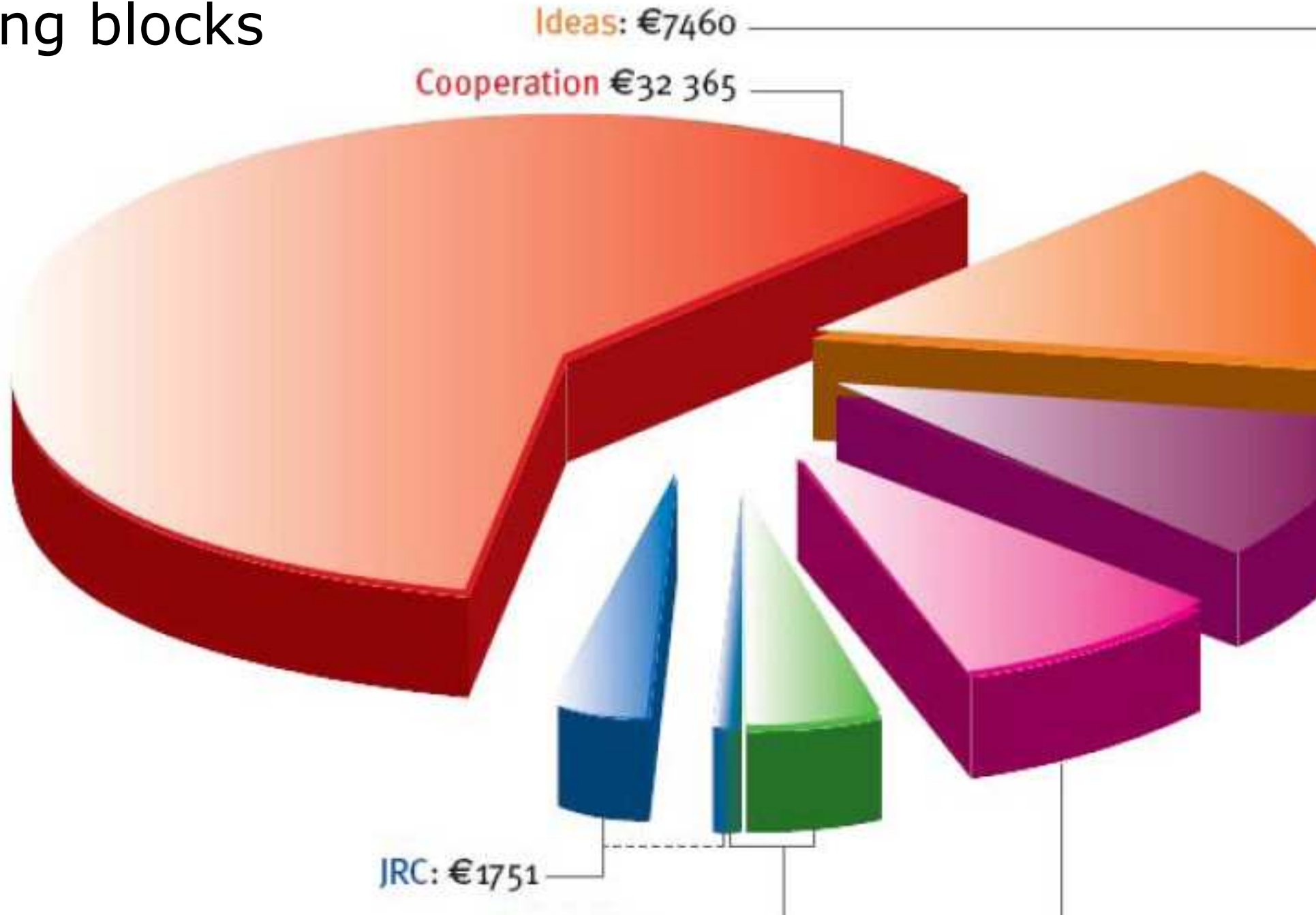
## Make-up of EU budget 2007-2013



# Budget for Research managed by DG Research



# 7 Building blocks





## > IDEAS (7460 M€)

- Individual Grants for Excellent Researchers

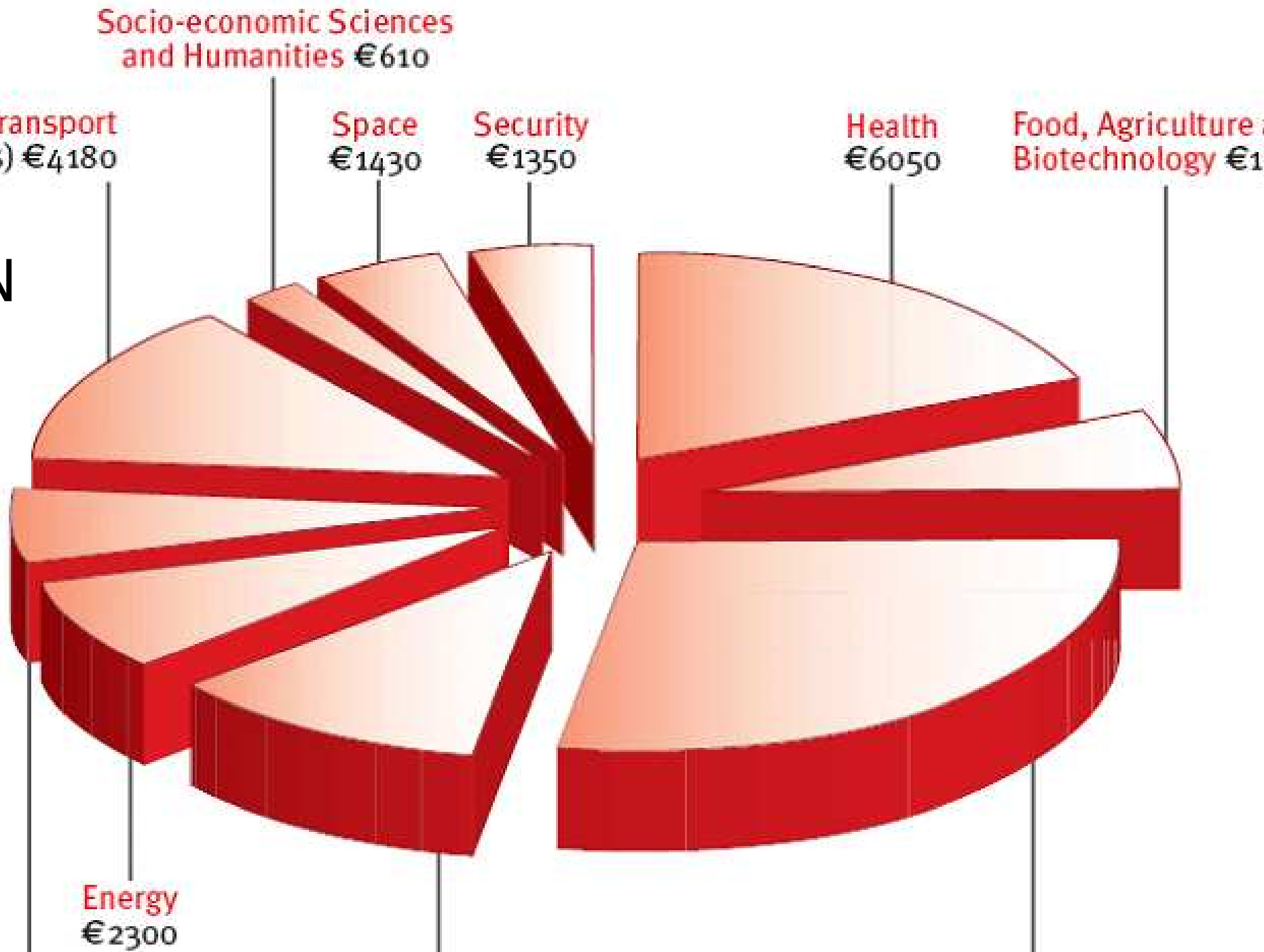
## > PEOPLE (4728 M€)

- ▪ Fellowships for individual post-doc researchers & transnational stays
- ▪ International PhD training networks

## > CAPACITIES (4217 M€)

- Large Scale Research Infrastructures
- ▪ Regions of Knowledge

OPERATION  
(65 M€)



# 1. Health

**Biotechnology, generic tools and technologies for human health**

**Translating research for human health**

**Optimising the delivery of healthcare to European citizens**

## **2. Food, Agriculture and Biotechnology**

**Sustainable production and management of biological resources from land, forest, and aquatic environments**

**“Fork to farm”: Food, health and well being**

**Life sciences and biotechnology for sustainable non-food products and processes**

# **3. Information and Communication Technologies**

**ICT Technology Pillars**

**Integration of technologies**

**Applications Research**

**Future and Emerging technologies**

# 4. Nanosciences, Nanotechnologies, Materials and new Production Technologies

**Nanosciences and Nanotechnologies**

**Materials**

**New Production**

# 5. Energy

Hydrogen and fuel cells

Renewable electricity generation

Renewable fuel production

Renewables for heating and cooling

$\text{CO}_2$  capture and storage technologies for zero emission power generation

Clean coal technologies

Smart energy networks

Energy efficiency and savings

## **6. Environment (inc. climate change)**

**Climate change, pollution and risks**

**Sustainable Management of Resources**

**Environmental Technologies**

**Earth observation and assessment tools**



## **7. Transport (inc. Aeronautics)**

**Aeronautics and air transport**

**Surface transport (rail, road and waterborne)**

**Support to the European global satellite navigation system (Galileo)**

## **8. Socio-Economic Sciences and the Humanities**

**Growth, employment and competitiveness in a knowledge society**

**Combining economic, social and environmental  
objectives in a European perspective**

**Major trends in society and their implications**

**Europe in the world**

**The citizen in the European Union**

**Socio-economic and scientific indicators**

# 9. en 10. Security and Space

10 Decem

Protection against terrorism and crime

Security of infrastructures and utilities

Border security

Restoring security in case of crisis

Security systems integration  
and interoperability

Security and society

Security Research Coordination

Space-based applications a  
service of the European So

Exploration of space

RTD for strengthening  
space foundations

# Typical project

- > 7-8 partners from 6 member-states
- > 2-3 M€ budget
- > 3 years
  
- > Evaluation on:
  - Science & Technology
  - Impact & Dissemination
  - Implemenation

# Procedure

- > Annual Workprogrammes describing topics
- > Annual calls for proposals
- > Fixed deadline
- > Evaluation by peers
- > Contract negotiations
- > Project start

<http://cordis.europa.eu/fp7>

<b>Activity 6.1 Climate Change, pollution and risks</b> -----	<b>11</b>
<b>Activity 6.2 Sustainable management of resources</b> -----	<b>21</b>
Sub-Activity 6.2.1 Conservation and sustainable management of natural and man-made resources and biodiversity-----	21
<i>Area 6.2.1.1 Integrated resource management</i> -----	21
<i>Area 6.2.1.2 Water resources</i> -----	22
<i>Area 6.2.1.3 Soil research and desertification</i> -----	22
<i>Area 6.2.1.4 Biodiversity</i> -----	22
<i>Area 6.2.1.5 Urban development</i> -----	24
<i>Area 6.2.1.6 Integrated forest research</i> -----	25
Sub-Activity 6.2.2 Management of marine environments-----	26
<i>Area 6.2.2.1 Marine resources</i> -----	26
<i>Area 6.2.2.2 'The ocean of tomorrow' call</i> -----	26
<b>Activity 6.3 Environmental technologies</b> -----	<b>35</b>
<b>Activity 6.4 Earth observation and assessment tools for sustainable development</b> -----	<b>50</b>

### **6.2.2.1 Marine resources**

open in 2011)

### **6.2.2.2 'The ocean of tomorrow' call**

#### **'The ocean of tomorrow' call - Joining research forces to meet challenges in ocean management**

*offer opportunities for sustainable economic development. However, human activities are exerting increasing environmental pressure on the oceans, threatening marine ecosystems and sustainable maritime activities. In particular, the growing demand for maritime transport, offshore energy, tourism, coastal development, resource extraction, fisheries and aquaculture have a major impact on the marine environment.*

OCEAN.2011-1

Multi-use offshore platforms

OCEAN.2011-2

Marine microbial diversity – new insights into marine ecosystems functioning and its biotechnological potential

OCEAN.2011-3

Assessing and predicting the combined effects of natural and human-made pressures in the Mediterranean and the Black Sea in view of their better governance

OCEAN.2011-4

Knowledge-base and tools for regional networks of MPAs, integrated management of activities together with assessment of wind energy potential in the Mediterranean and the Black Sea



# 8th Framework Programme

2014 – 2020

No formal documents yet

- EU2020
- Innovation Union

# ROPE 2020

## HEADLINE TARGETS

- Raise the employment rate of the population aged 20-64 from the current 69% to at least 75%.
- Achieve the target of investing 3% of GDP in R&D in particular by improving the conditions for R&D investment by the private sector, and develop a new indicator to track innovation.
- Reduce greenhouse gas emissions by at least 20% compared to 1990 levels or by 30% if the conditions are right, increase the share of renewable energy in our final energy consumption to 20%, and achieve a 20% increase in energy efficiency.
- Reduce the share of early school leavers to 10% from the current 15% and increase the share of the population aged 30-34 having completed tertiary education from 31% to at least 40%.
- Reduce the number of Europeans living below national poverty lines by 25%, lifting 20 million people out of poverty.

SMART GROWTH	SUSTAINABLE GROWTH	INCLUSIVE GROWTH
<p><b>INNOVATION</b></p> <p>EU flagship initiative "Innovation Union" to improve framework conditions and access to finance for research and innovation so as to strengthen the innovation chain and boost levels of investment throughout the Union.</p>	<p><b>CLIMATE, ENERGY AND MOBILITY</b></p> <p>EU flagship initiative "Resource efficient Europe" to help decouple economic growth from the use of resources, by decarbonising our economy, increasing the use of renewable sources, modernising our transport sector and promoting energy efficiency.</p>	<p><b>EMPLOYMENT AND SKILLS</b></p> <p>EU flagship initiative "An agenda for new skills and jobs" to modernise labour markets by facilitating labour mobility and the development of skills throughout the lifecycle with a view to increase labour participation and better match labour supply and demand.</p>
<p><b>EDUCATION</b></p> <p>EU flagship initiative "Youth on the move" to enhance the performance of education systems and to reinforce the international attractiveness of Europe's higher education.</p>	<p><b>COMPETITIVENESS</b></p> <p>EU flagship initiative "An industrial policy for the globalisation era" to improve the business environment, especially for SMEs, and to support the development of a strong and sustainable industrial base able to compete globally.</p>	<p><b>FIGHTING POVERTY</b></p> <p>EU flagship initiative "European platform against poverty" to ensure social and territorial cohesion such that the benefits of growth and jobs are widely shared and people experiencing poverty and social exclusion are enabled to live in</p>
<p><b>DIGITAL SOCIETY</b></p> <p>EU flagship initiative "A digital agenda for</p>		

# CONCLUSIONS

- > FP7: interesting programme
  - Cooperation
    - Food, Energy, Environment, Transport, SSH, .
  - People
  - Capacities
  - Ideas
  
- > FP8: watch and influence!

Thank you for your attentio