



# Introduction to FP 7

**Jacques Babot, European Commission, Brussels**

**EIRC Workshop Bangalore January 31 – February 1, 2008**



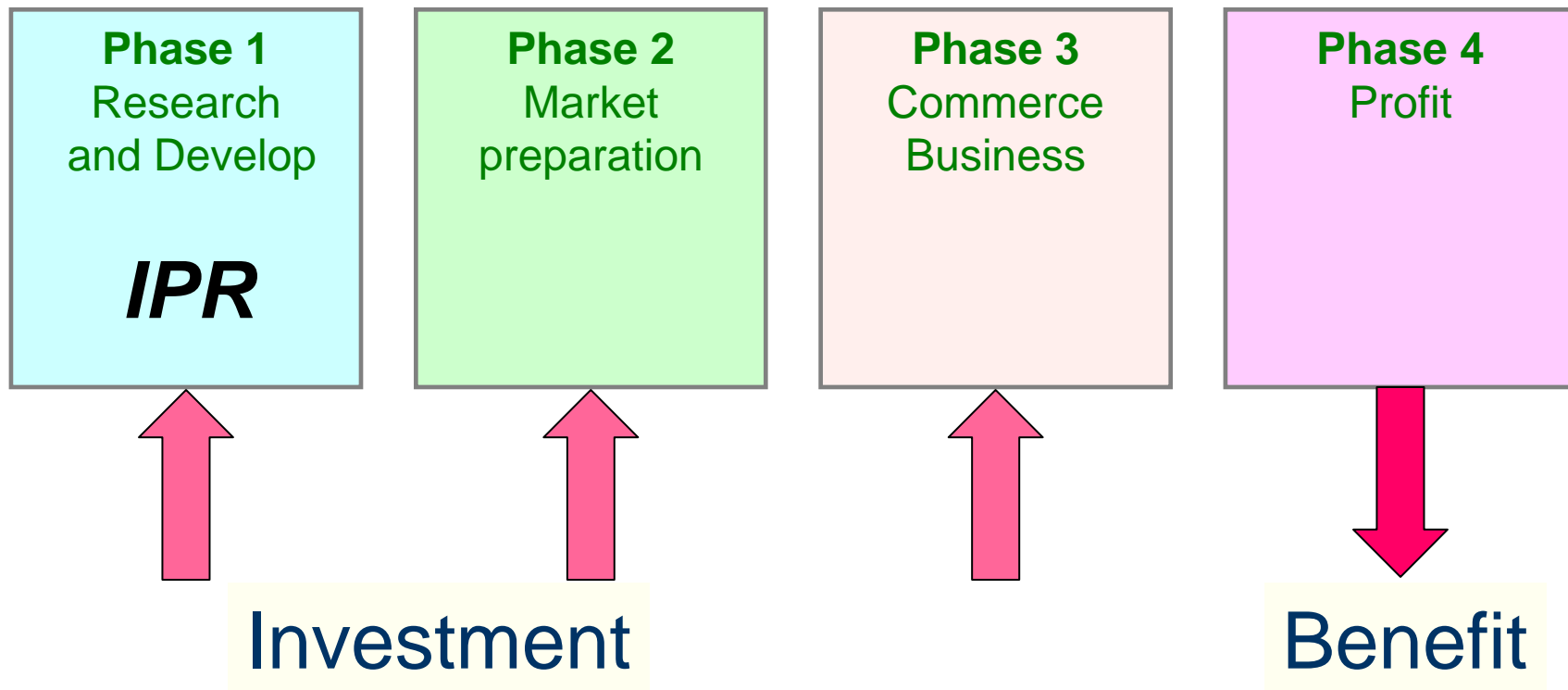
# ***INTRODUCTION***

## ***Technological Innovation***



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# Technological Innovation





# Innovation through Cooperation

## Advantage

- Higher budgets possible
- Sharing of risks
- Partnerships with abroad
- Access to Know-how & Ideas

## Disadvantages

- cooperation needs a good management
- IPR shared
- Compromising in targets



# Cooperation through European Funding

Types of cooperation, that lead to innovation in businesses

- **Research cooperation** with R&D organisations or/and enterprises
- **Development cooperation** for example problem solving or adaptation of research results
- **Purchase** of technological solutions or the acquisition of **licenses**

Informal forms of cooperation:

- learning through Good Practices, examples and role models

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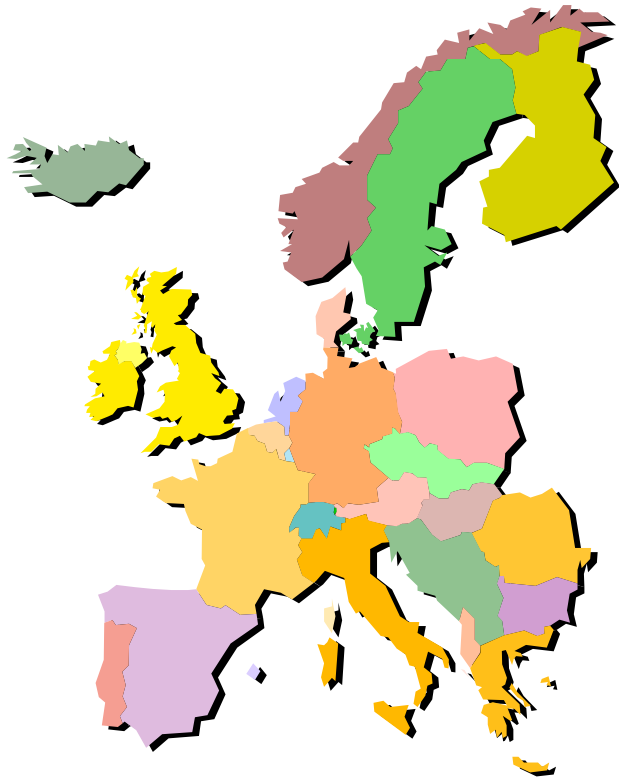


# Benefits of Participating in European Cooperations

- Provision of **financial support** for your innovation
- Many opportunities for new technologies / products Part funding input
- **Risk Spreading**
- Productive partnerships
- Access to missing capabilities - Interdisciplinary research
- Expansion of horizons and markets
- **Forming Networks**
- New contacts – European (and World) wide
- Cultures, markets, communication – Europe-wide
- Marketing Effects – public visibility

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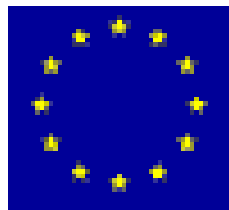
# What is the Seventh Framework Programme?



- The Seventh Framework Programme (2007-2013) of the European Community for Research, Technological Development and Demonstration Activities
- Budget about 55 billion €
- Building the Europe of Knowledge
- The biggest public funded Research Programme in the World

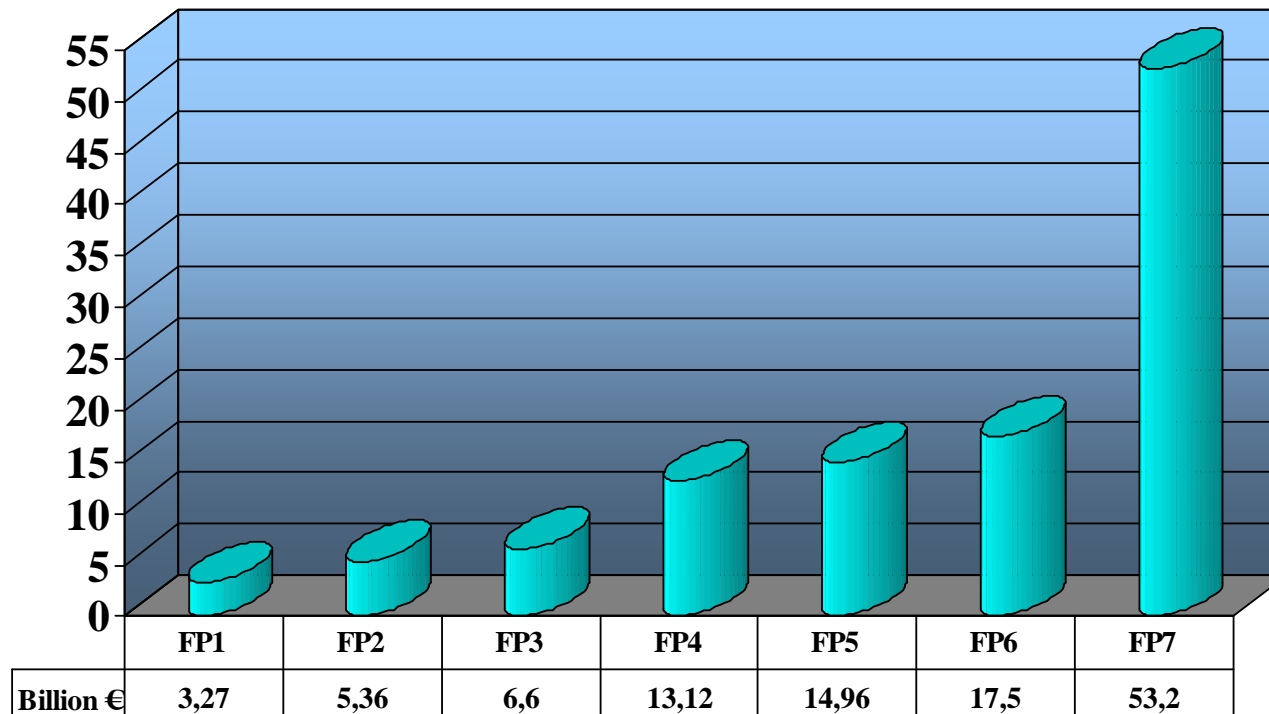
## Background to Framework Programmes

- Framework Programmes have been operating since FP1 in 1984
- FP7 is designed to generate **new knowledge**, new technologies and new intellectual property for Europe to compete with the most important Economy of the world, mainly USA and Japan
- Previous Framework Programmes have focussed on Industrial Competitiveness and specific themes such as IT, Energy, Environment, Agriculture and Quality of Life. These themes and many others are still in FP7.



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# Framework Programme Evolution



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# Political Drivers to the Development of 7th Framework Programme

- A dynamic and competitive knowledge based economy...

*Lisbon summit, March 2000*

- Sustainable development ... environment, economy, employment

*Göteborg summit, June 2001*

- Emphasis on “3%”, skills, mobility, innovation, ...

*Barcelona summit, March 2002*

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# The overall “Framework”

## COOPERATION

Collaborative trans-national research activities

Industry, universities, res. centres, public authorities

**10 Themes**

## IDEAS

Funding for **basic** or “frontier” research by individual teams competing at European level

*Creativity & dynamism:  
“investigation-driven research”*

## PEOPLE

Initiatives in support of training, mobility and career development, to strengthen EU human resources.

“Marie Curie” actions

## CAPACITIES

Development of research infrastructures; Support to regional clusters; SMEs; Science in Society; International cooperation

# FP7 - Specific Programmes

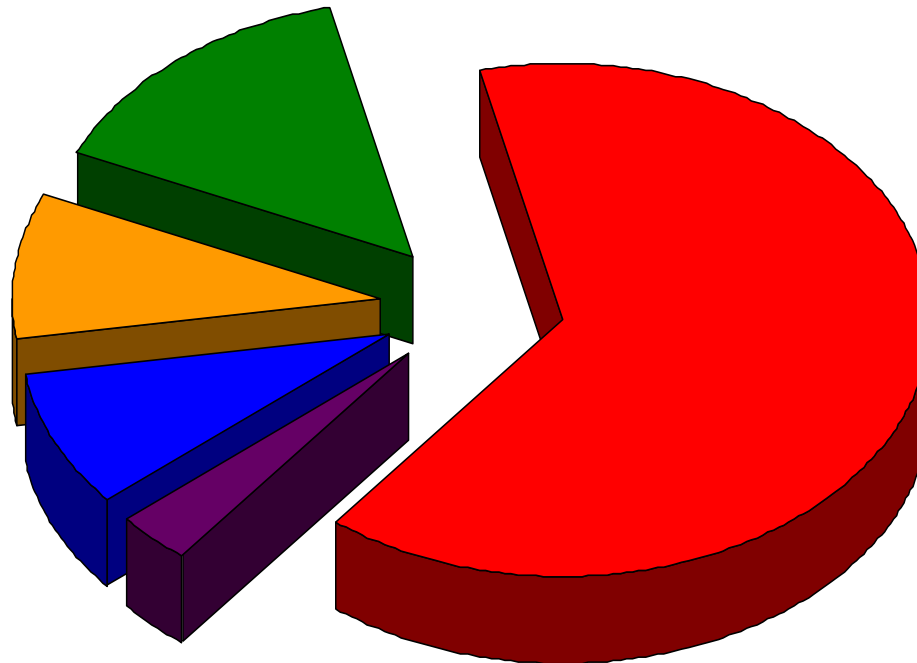
„Ideas“ (ERC)  
€ 7.46 Mio. (14.8 %)

„People“ (Marie Curie)  
€ 4.728 Mio. (9.4 %)

„Capacities“  
€ 4.217 Mio. (8.3 %)

„Joint Research Centre“  
€ 1.751 Mio. (3.5 %)

„Cooperation“  
€ 32.365 Mio. (64 %)





# FP7 - Specific Programmes



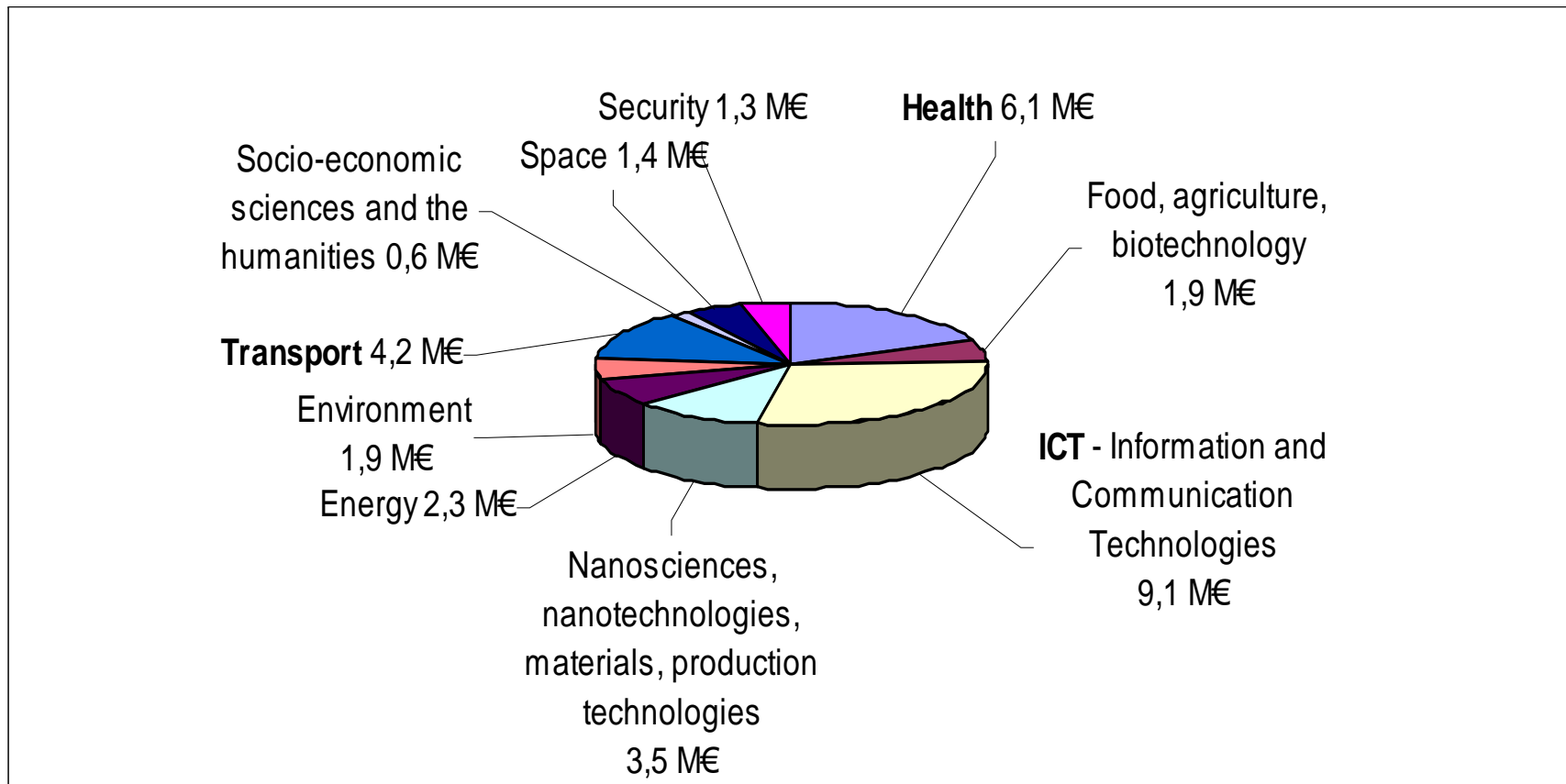
## COOPERATION – Collaborative research

### *10 Themes*

1. Health
2. Food, agriculture and biotechnology
3. Information and communication technologies
4. Nanosciences, nanotechnologies, materials and new production technologies
5. Energy
6. Environment (including climate change)
7. Transport (including aeronautics)
8. Socio-economic sciences and the humanities
9. Space
10. Security

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# FP7 - Cooperation Programme



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## 3. Information & communication technologies (ICT)

Challenge 1 - Pervasive and trusted network and service infrastructures

Challenge 2 - Cognitive systems, interaction and robotics

Challenge 3 - Components, systems and engineering

Challenge 4 - Digital libraries and content

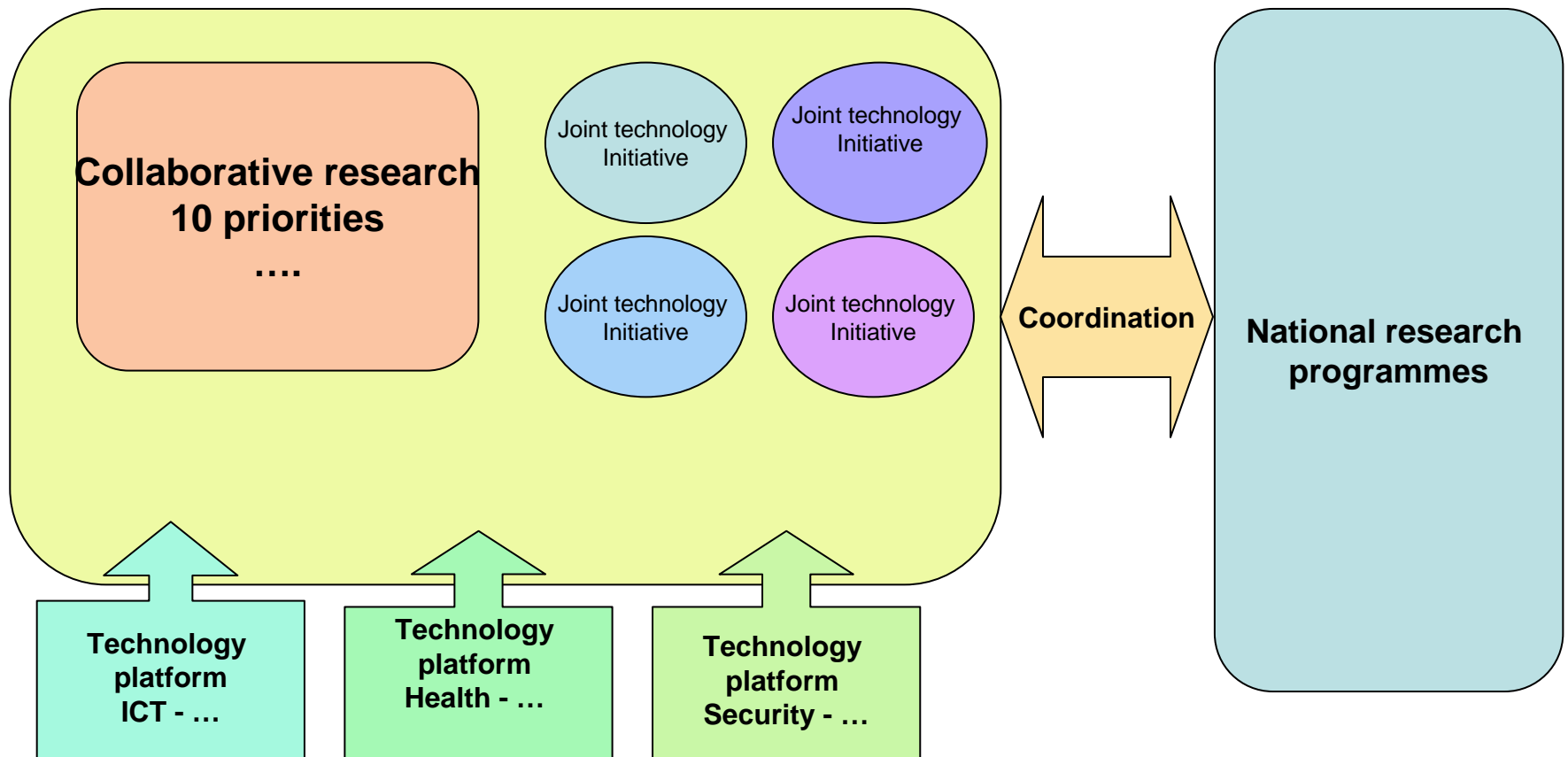
Challenge 5 - Sustainable and personalised healthcare

Challenge 6 - Mobility, environmental sustainability and energy efficiency

Challenge 7 - Independent living and inclusion

Future and emerging technologies (FET)

# Cooperation Programme Overview





# FP7 - Specific Programmes



## IDEAS – Frontier Research

- **Frontier research**
- **Support to individual teams, to promote excellence through Europe-wide competition**
- **Simplified grant mechanism**

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# FP7 - Specific Programmes



## PEOPLE – Human Potential

- Initial training of researchers
- Life-long training and career development
- Industry-academia pathways and partnerships
- International dimension
- Specific actions

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# FP7 - Specific Programmes

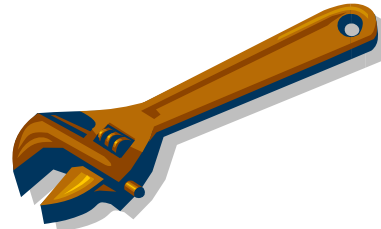
## CAPACITIES – Research Capacity

- **Research Infrastructures**
- **Research for the benefit of SMEs**
- **Regions of knowledge**
- **Science and Society**
- **Activities of international cooperation**

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# ***FUNDING SCHEMES***



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# FP7 - Funding scheme

## 1) Collaborative projects

- Large scale integrating projects (IP)  
Can also be called large scale collaborative projects
- Small scale focused targeted projects (STREP)  
Can also be called small scale collaborative projects

## 2) Network of Excellence (NoE)

## 3) Coordination and Support Actions (CSA)

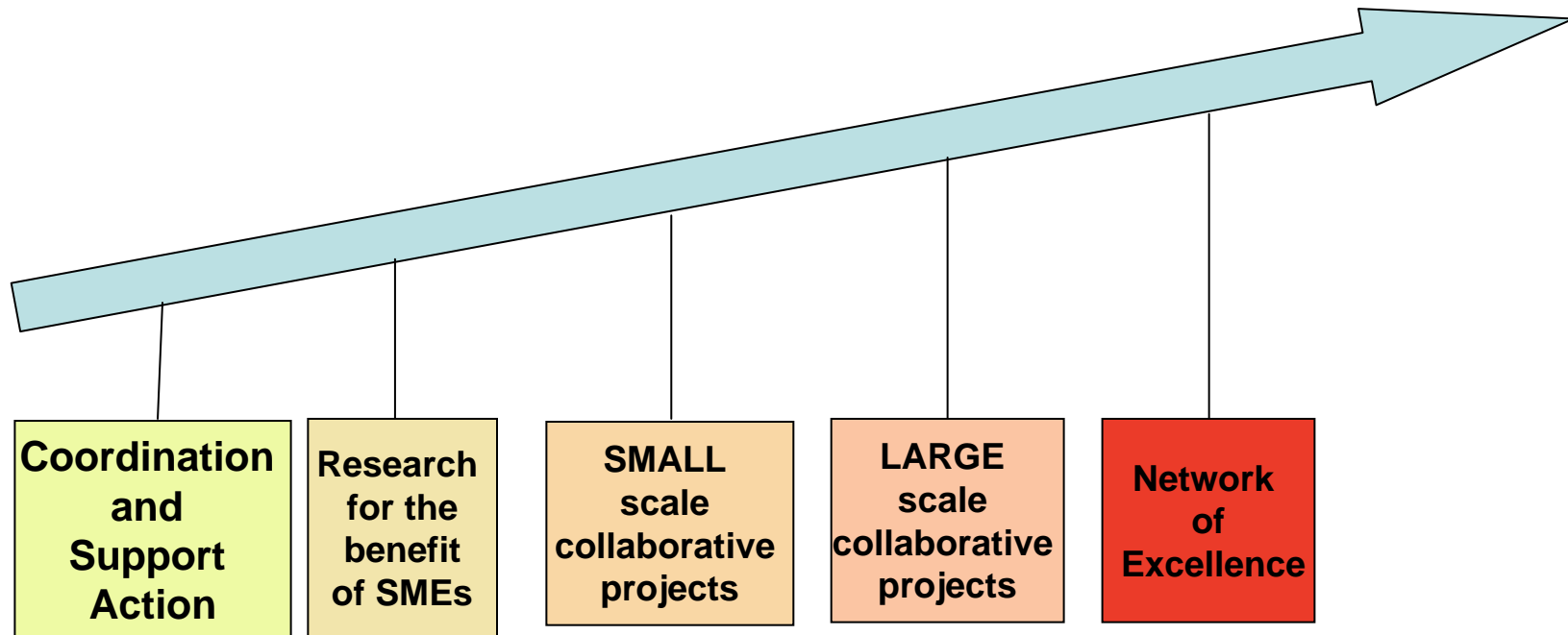
- Support actions (SSA)
- Coordination actions (CA)

## 4) Research for the benefit of SMEs

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# Comparison of the Projects Sizes

In terms of budget, duration, size of consortia





# Collaborative Project

## 1. Large Scale integrating projects (IP)

### *Purpose*

- Developing new knowledge, technology, products

### *Target audience*

- Industry (including SMEs)
- Research organizations/Universities
- Potential end users

### *Activities covered by EU contributions*

- R&D
- Demonstration
- Training / Innovation activities
- Management

### *Specific characteristics*

- Duration: 36 / 60 months
- Different levels and types of S&T objectives
- Large number of partners and adequate resources

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# Collaborative Project



## 2. Small or medium-scale focused research projects (STREP)

### *Purpose*

- Developing new knowledge, technology, products

### *Target audience*

- Industry (including SMEs)
- Research organizations/Universities
- Potential end users

### *Activities covered by EU contributions*

- R&D
- Demonstration
- Management

### *Specific characteristics*

- Duration: 18 / 36 months
- Targeted and specific S&T objectives
- Small number of partners and adequate resources

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# Network of Excellence (NoE)

## *Purpose*

- Durable integration of Participants activities / capacities

## *Target audience*

- Research organizations/Universities
- Industry (mainly indirectly)

## *Activities covered by EU contributions*

- Join programme activities, Integrating activities, Spreading of excellence, Joint research programmes
- Management

## *Specific characteristics*

- Duration: 48 / 60 months
- Budget is related to the number of researchers involved in the activities
- EU Grants consists of lump sum for each researcher

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# Coordination and Support Actions (CA & SSA)



## *Purpose*

- Coordination / Support of Research activities and policies;

## *Target audience*

- Research organizations/Universities
- Industry (including SMEs)
- Associations

## *Activities covered by EU contributions*

- Networking; dissemination; conferences;, workshops; needs analyses; brokerage activities; knowledge transfer; etc.
- Management

## *Specific characteristics*

- Duration: 9 / 36 months
- No funding for R&D and demonstration;
- Possible also a single participant (SSA)

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# Research for the benefit of SMEs



## *Purpose*

- Developing innovative tools addressed to specific needs of SMEs

## *Target audience*

- SMEs (coordinators and main beneficiaries)
- Research organizations/Universities (like subcontractors)

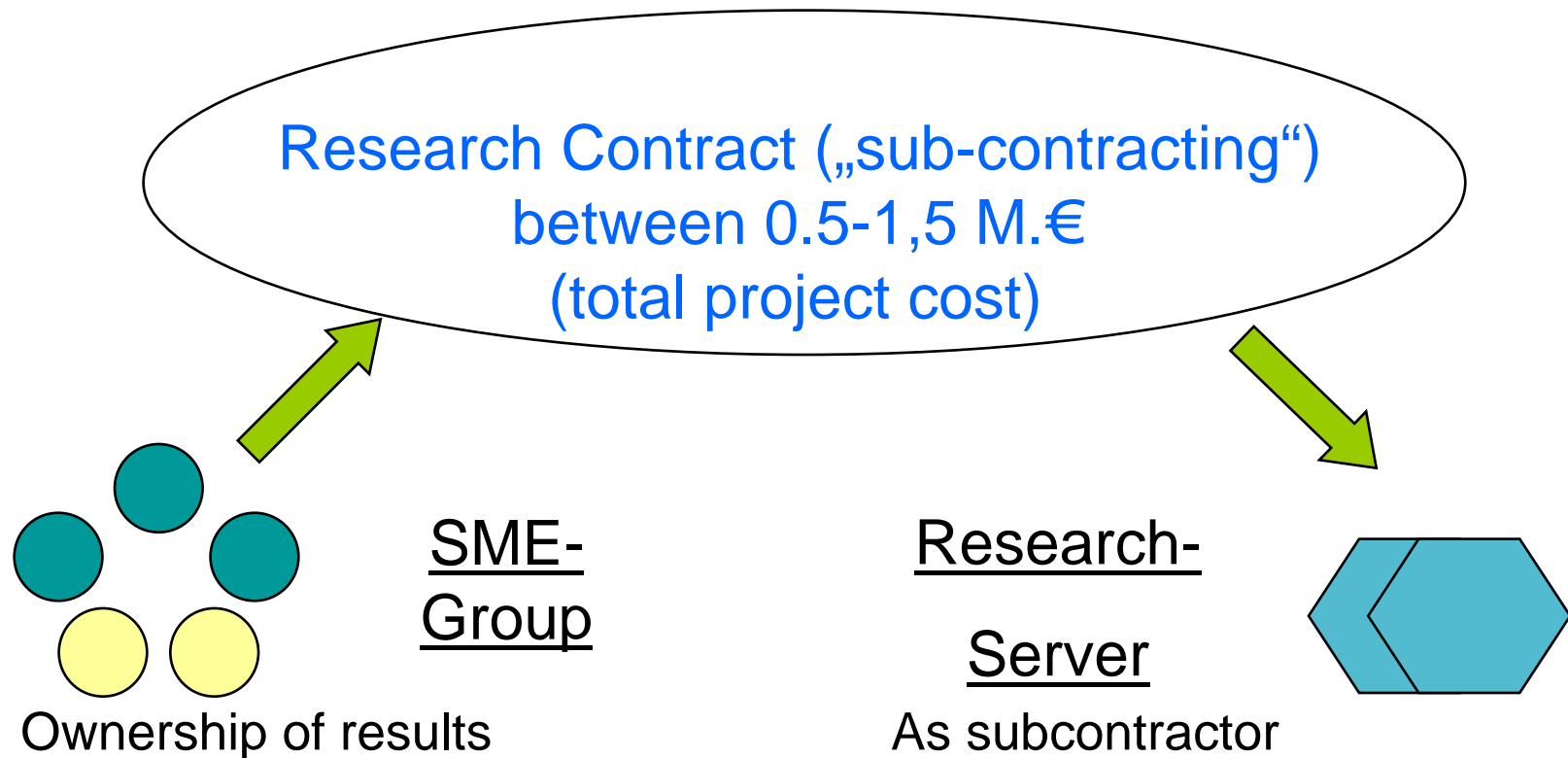
## *Activities covered by EU contributions*

- R&D
- Demonstration
- Management

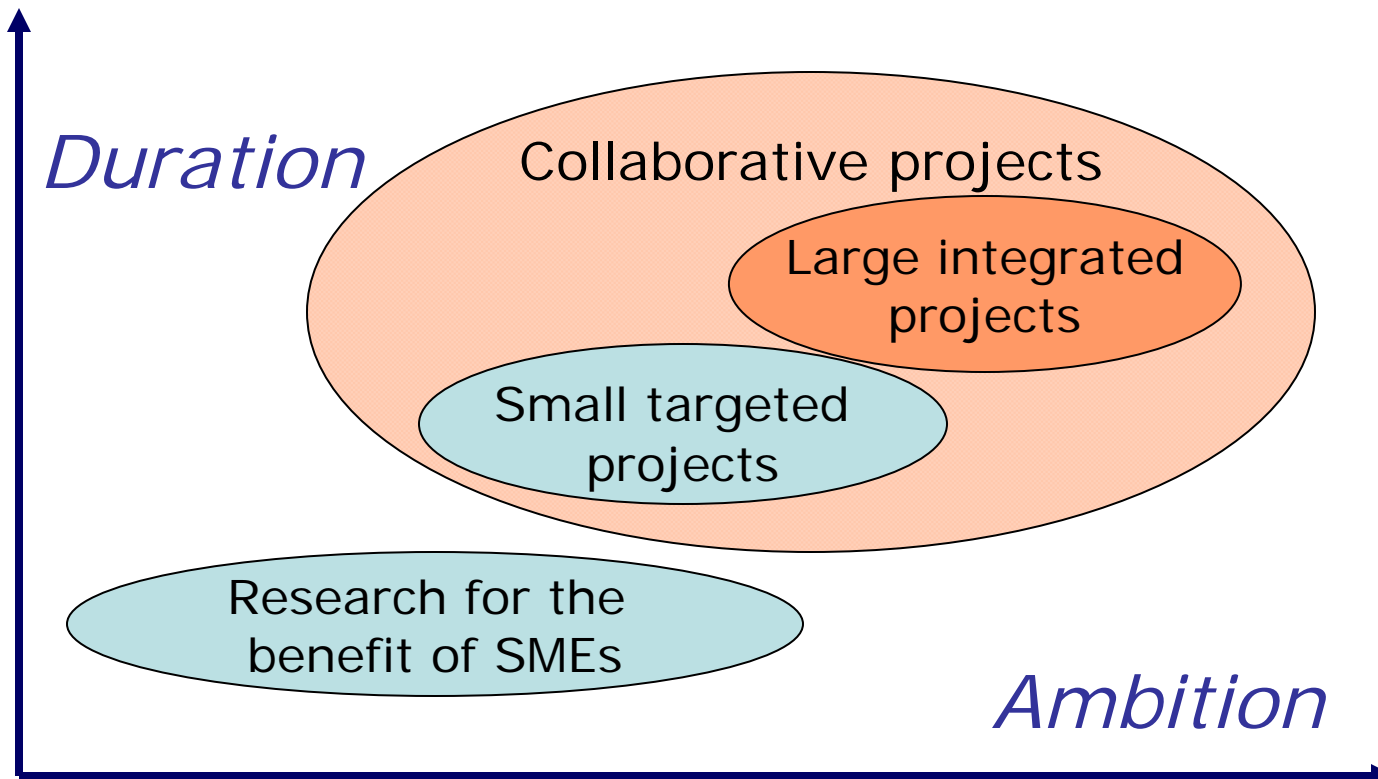
## *Specific characteristics*

- Duration: up to 24 months
- Different levels and types of S&T objectives
- Suggested number of partners (up to 10)

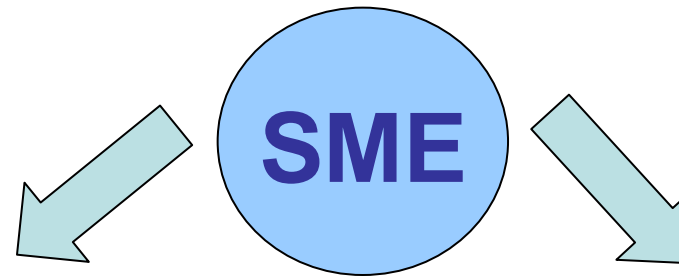
## Research for the benefits of SMEs



## Main options for SMEs in FP7



# SMEs in FP7



SME with R&D  
**capabilities**  
in the 10 themes

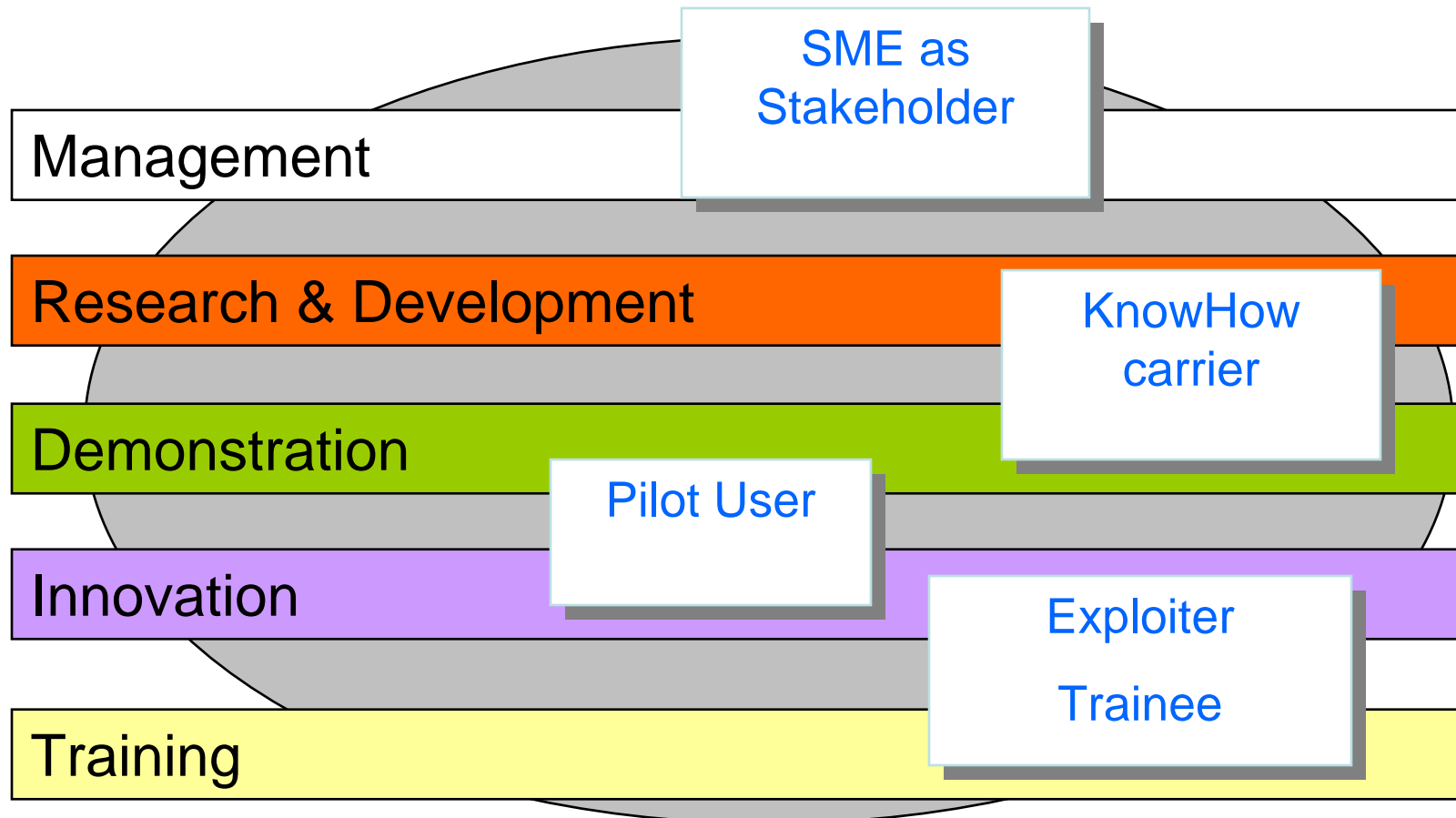
SME with R&D **needs**  
on any topic

***technology provider  
or end-user in***  
Large scale integrated projects  
and  
Small or medium-scale  
focused research projects

***As participant***  
in Research for  
the benefit of SMEs,

***Technology Transfers  
from IP, NoE***

# SME in FP7 Collaborative projects





**THANK YOU**

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