

European Funding:
FP6 – IST Programme

Presentation:
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FP6: Starting point - a diagnosis

Areas for improvement of EU RTD

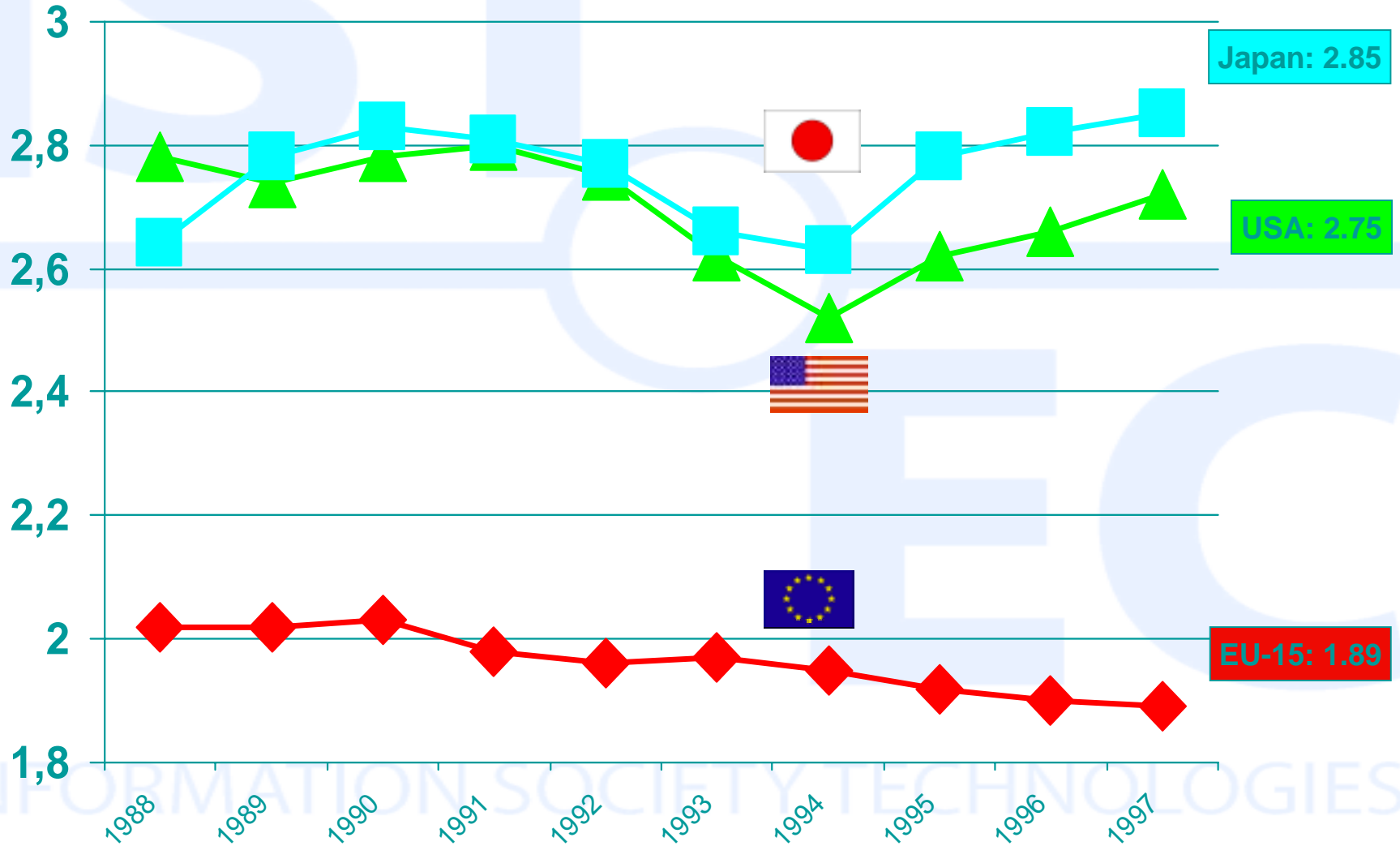
- ⇒ Financial resources for R&D
- ⇒ Researchers, scientists, engineers (RSE)
- ⇒ Fragmentation, separation, regional disparity
- ⇒ The European paradoxon of innovation

European R&D cooperation:

- ⇒ The European Research Area (ERA)!
- ⇒ The EU Framework Programme (FP6)

Research intensity

R&D expenditure as a % of GDP



The Competitive "Race" to Knowledge

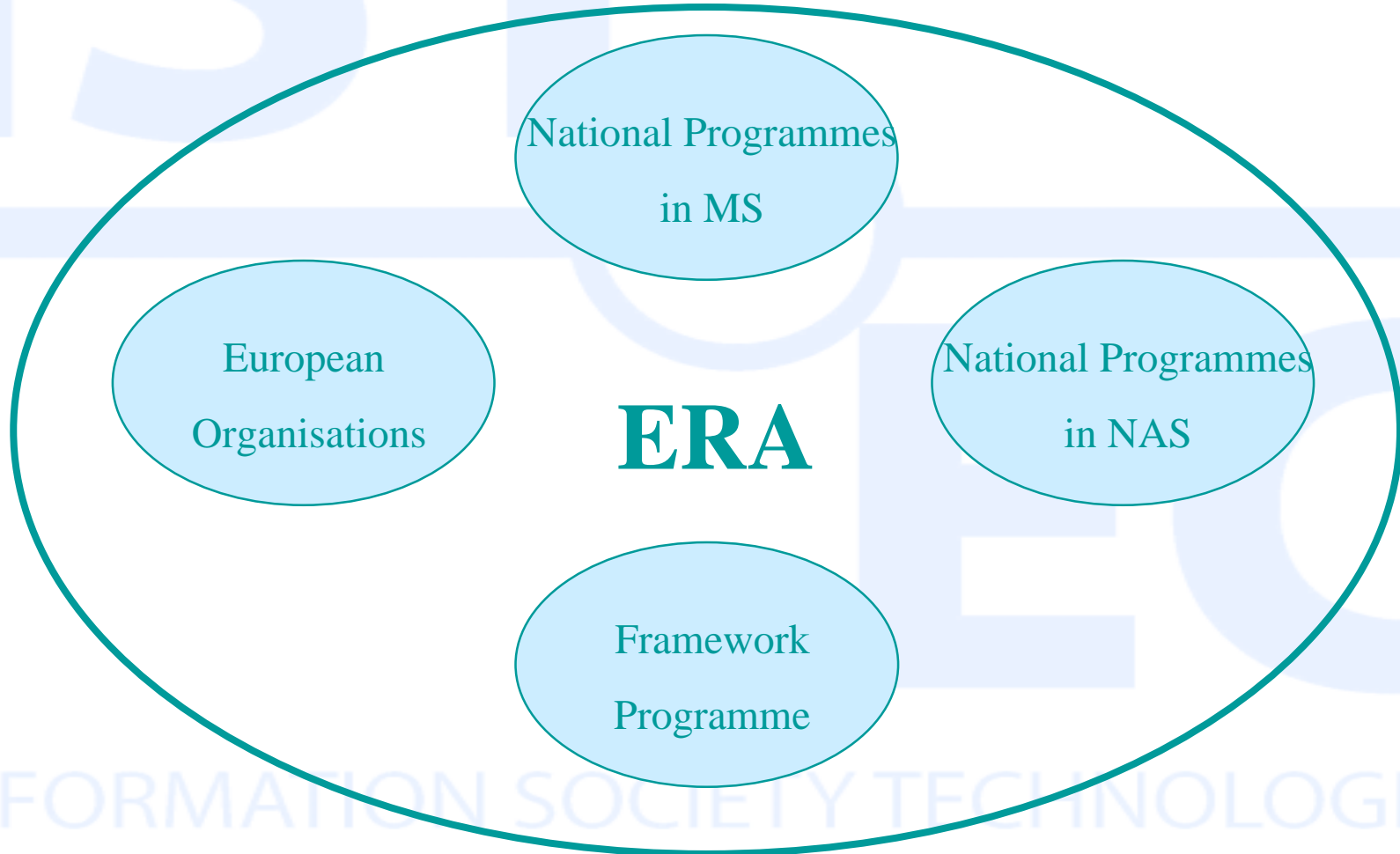
The US invests 3 times more on RTD in IST

- 52% of RTD effort in IST in OECD countries is in the US
- only 17% in Europe (22% in Japan)

Public investment in the EU is 50% of the US effort

- ... and the gap is widening
- ... The EU effort is fragmented
- ...critical mass is rarely reached in the Member States

Why a “European Research Area “?



The European Research Area (ERA)



The European Research Area should be an area where

- ⇒ the **scientific capacity and material resources** can be put to best use,
- ⇒ where **national and European policies** can be implemented more coherently,
- ⇒ where **people and knowledge can circulate** freely;
- ⇒ an area **attractive** both to European researchers and the best researchers from third countries, and
- ⇒ built on **respect for the common social and ethical values** of Europeans and their diversity.

ERA & FP6

→ **FP6 as the main instrument to support the creation of ERA**

- ⇒ building integrated and structured R&D capacities
- ⇒ improving the impact of EU RTD activities
- ⇒ improving the human resource base
- ⇒ more coordination and coherence of national and EU RTD activities

IST: reinforces & complements eEurope

By 2005, Europe should have:

- modern online public services
 - ◆ e-government, e-learning, e-health, ...
- a dynamic e-business environment
 - ◆ e-commerce, business process restructuring, ...

and, as an enabler for these

- widespread availability of broadband access at competitive prices
 - ◆ optical fibre access, mobile broadband, local loop competition,
- a secure information infrastructure
 - ◆ network security, cyber crime, data protection, ...

IST - eEurope 2005 and FP6

Longer term vision
Best practices
Research infrastructure

eEurope 2005

IST

FP6

ERA

By 2005, Europe should have:

- modern online public services
- a dynamic e-business environment
- widespread availability of broadband
- a secure information infrastructure

- Wider adoption of IST
- Stimulating demand
- Identifying user needs

Interlinked objectives but different time scales

FP6...6th Framework programme

17,5 billion €

Focusing and
integrating European
research
13,345 billion €

Structuring the
European Research
Area (ERA)
2,605 billion €

Strengthening the
Foundation of (ERA)
320 million €

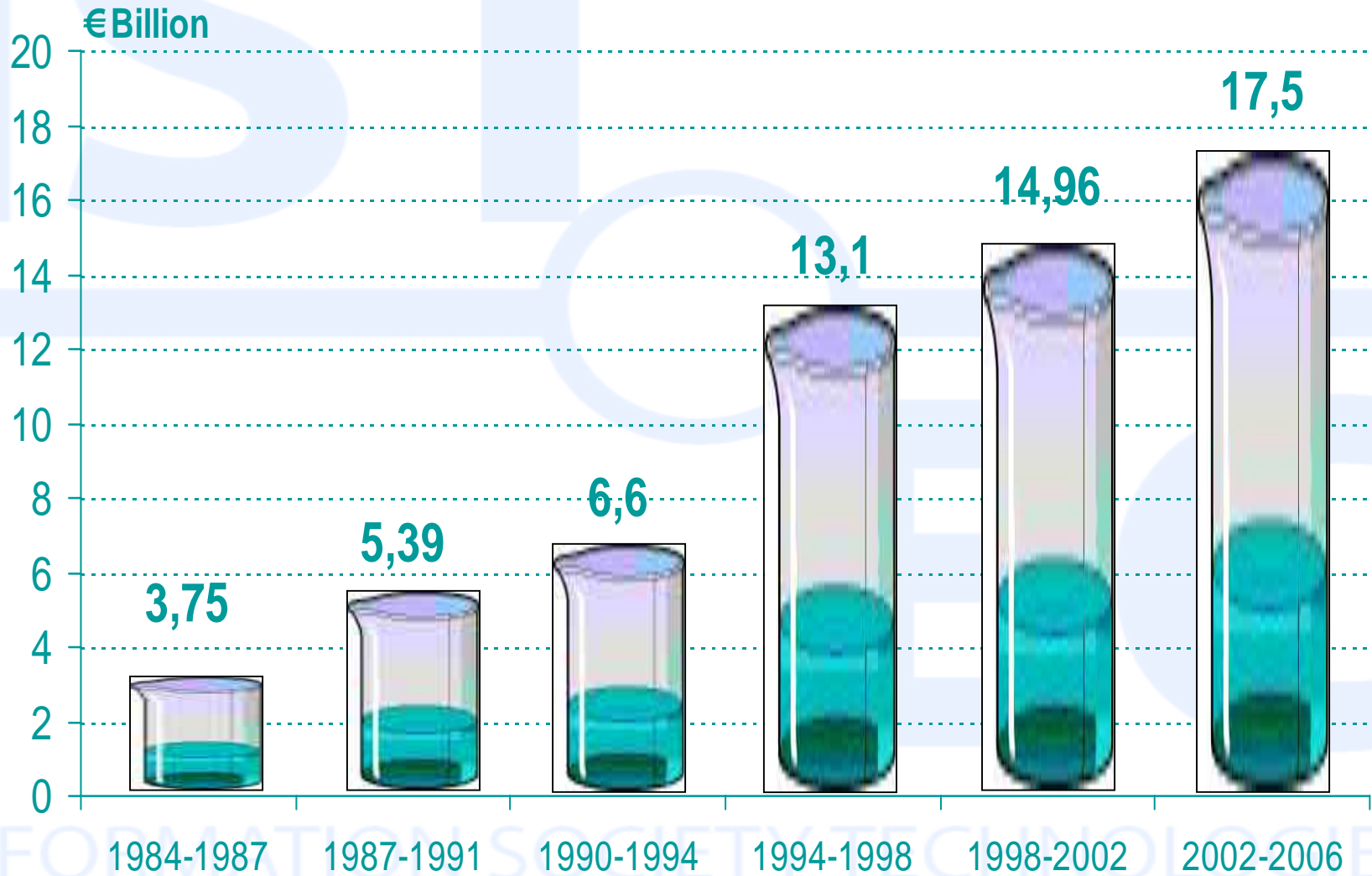
FP6 Structure

INTEGRATING EUROPEAN RESEARCH									
PRIORITY THEMATIC AREAS							ANTICIPATING S/T NEEDS		
Genomic and biotechnology for health	Information society technologies	Nanotechnologies, intelligent mat., new production processes	Aeronautics and space	Food safety and health risks	Sustainable development and global change	Citizens and governance in the knowledge society	Research for policy support	Frontier research, unexpected developments	
							Specific SME activities		
							Specific international cooperation activities		
							JRC activities		

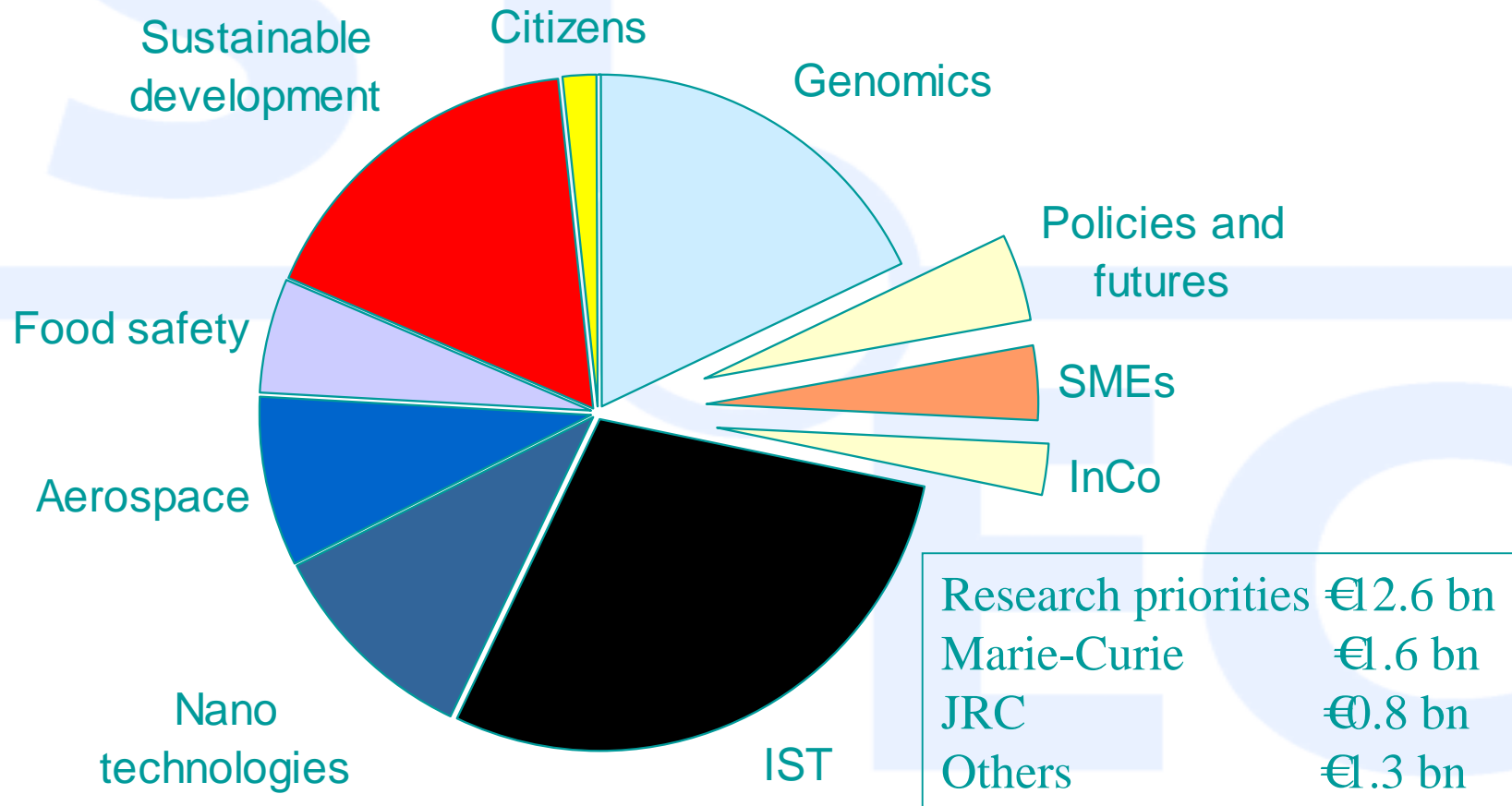
STRUCTURING THE ERA			
Research and innovation	Human resources & mobility	Research infrastructures	Science and society

STRENGTHENING THE FOUNDATIONS OF ERA	
Coordination of research activities	Development of research/ innovation policies

Development of RTD budget



FP 6 Research priorities



FP6 Budget



•Integrating & strengthening	
–Genomics	2200 M€
–IST	3600 M€
–Nanotechnologies, int..	1300 M€
–Aeronautics and space	1075 M€
–Food quality and safety	685 M€
–Sustainable development	2120 M€
–Citizens and governance ..	225 M€
–Anticipation of S&T needs	
•SMEs	450 M€
•Specific InCo	300 M€
•Anticipating needs	570 M€
•Strengthening ERA foundations	330 M€
•Structuring ERA	
–Research and Innovation	300 M€
–Human resources	1630 M€
–Research Infrastructures	665 M€
–Science/Society	50 M€
•Joint Research Centre	760 M€
	<hr/>
	16, 270 B€

FP6: Objectives and targets

Objectives:

- contributing to the creation of the ERA
- Strengthening the s&t bases of Europe's industry
- encouraging it to become more competitive
- supporting other EU policies

Targets:

- integrating research
- structuring the ERA
- strengthening the foundations of the ERA

Characteristics of EU R&D activities I

- transnational collaboration (min. 3 partners/3 countries)
- strategic objectives - programme oriented
- innovative, based on sci&techn. excellence
- competitive - competition of the best teams in EU
- rather mid-term oriented
- RTD results are the property of the participants
- organisations selected via Calls for Proposals and evaluation procedures involving a set of multiple criteria and independent experts

Characteristics of EU R&D activities II



- new objectives regarding creation of ERA
- “larger” projects - structuring and integration
- need for strategic positioning of institutions
- more autonomy and flexibility of consortia
- new forms of Community financial contribution
- exactly the same rights for MC and Candidate AS
- EU funding for participation of INCO countries *)
- eligibility of internat. organisations of EU interest
- openness to 3rd countries worldwide
- increased participation of women

*) Mediterranean, Balkan; Russia and NIS; Developing Countries