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Inquired based science education

29 May 2009

*The strategic importance for Europe of science
education in the Lisbon framework*

Luisa Prista

DG Research- Science, Economy and Society
European Commission

Head of Unit - Scientific Culture and Gender Issues





Lisbon (2000) and Barcelona (2002) Summits

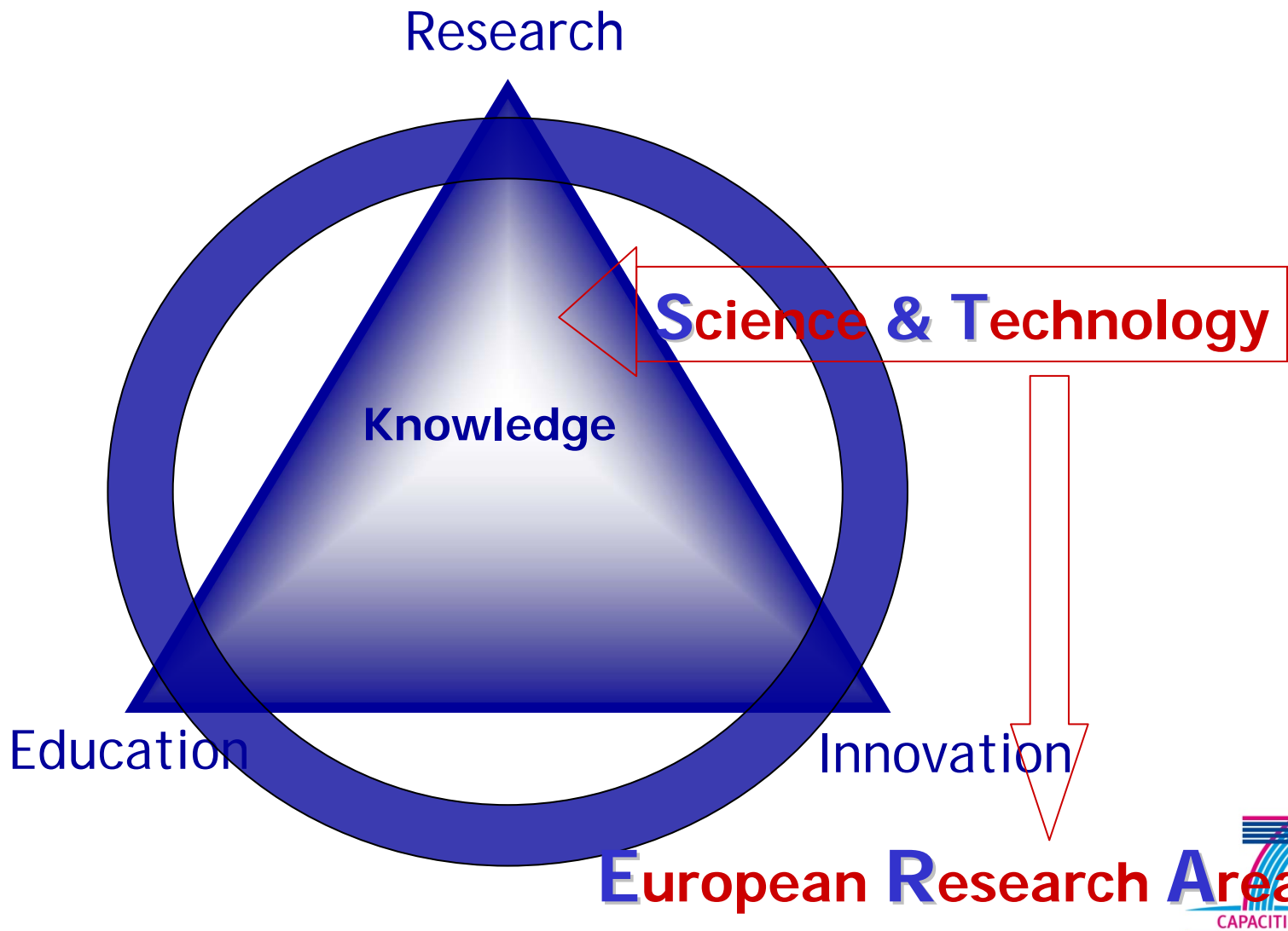
- Need for investing in research (specially in Human Resources)
- But interest in science among young people insufficient



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The EU response





EU RTD policy

- 2000 : European Research Area (ERA)
- 2002: FP6 (2002-2006) – Science & Society
 - Support for promoting science teaching
- 2007: FP7 (2007-2013) – Science *in* Society
 - Very strong support for science education



Science *in* Society Capacities Programme

FP7 calls for

“... the creation of an open environment which triggers curiosity for science in children and young people, by reinforcing science education at all levels, including schools and promoting interest and full participation in science among people from all backgrounds”





Science *in* Society Work programme

More dynamic GOVERNANCE of the science and society relationship

Place of S&T in society

Society's engagement on science issues

Science system, codes ethics expertise

Role of the universities

Strengthening POTENTIAL broadening HORIZONS

Gender & research

Young people and science education

1. Informal / formal training
2. Links between education&careers
3. Research on science education

Science and Society COMMUNICATE

Two-way





Where do we stand?

- **2007 Expert Group Report** “Science Education Now: Renewed Pedagogy for the Future of Europe”
- **Calls with specific focus on IBSE**
 - 2007: Context & Inquiry Based Call
1.8 M€ (2 proposals funded)
 - 2008: IBSE call 4.78 M€ (1 proposal funded)
 - 2009: IBSE call 7.5 M€ (> 1 proposal will be funded)
- **Internet Platform on Science Education**

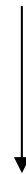




Internet Platform

Aim:

- “Protect” experiences gained and to share practices
- Address needs of end-users and provide translations and adaptation to local factors



Internet based Information Platform on
Science Education





Consultation and Input

in the past ...

- Science in Society Advisory Group covering all aspects of programme

today ...

- joint sessions between MST Cluster and RTD specialists specifically on science education
- preparing the future ...



Teachers training Questionnaire

- Science Education projects FP6 / FP7
- More successful were:
 - Projects with large infrastructure (museums, science centres)
 - Projects delivering training at local level (cf. POLLEN)



Future

- IBSE
 - Much more emphasis on training (specially training trainers)
 - Proposals will have to take into account real training opportunities
 - Growing need to “lock in” know-how/knowledge (special clause in contracts for 2010)
- Link between education and careers
 - Bridge the gap between science education and MST/STEM careers
- Research
 - Key topics on science education
- Scientific culture





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Challenges for IBSE

- Visibility for EU funded projects and best practices
- Engagement of policy-makers
- Evaluation / assessment strategies



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Thank you for your attention

Luisa Prista

(Luisa.Prista@ec.europa.eu)

