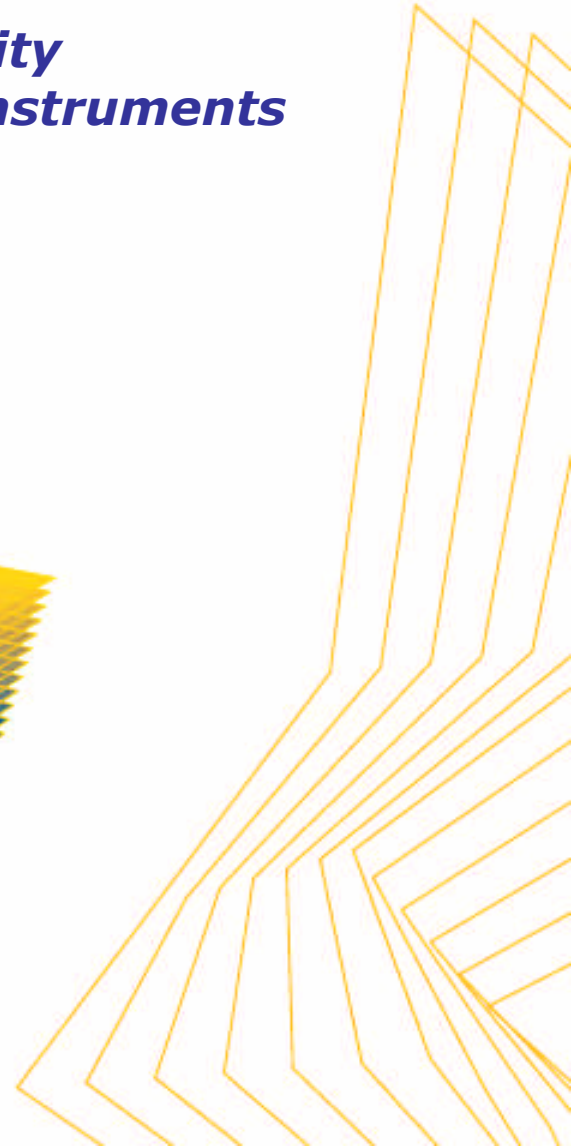


The Proposed European Institute of Technology

*Positioning and Complementarity
with Respect to Other European R&D Instruments*

Christopher John Hull
Advisor, Deputy Secretary General

EARTO



Introduction - I

EARTO: The European Association of Research and Technology Organisations

- 300 Research and Technology Organisations in Europe
 - 100,000 scientists, engineers, technicians
 - €10 billion turnover per annum
 - 100,000 clients per year in government, industry, services
-
- Collaborative and contract research, strategic research agendas, precautionary and other public-interest research
 - Multi-disciplinary skills, critical mass, special facilities, long-term partnerships
 - Technology transfer through licensing and spin-offs
 - Postgraduate training in technology and innovation
- 

Introduction - II

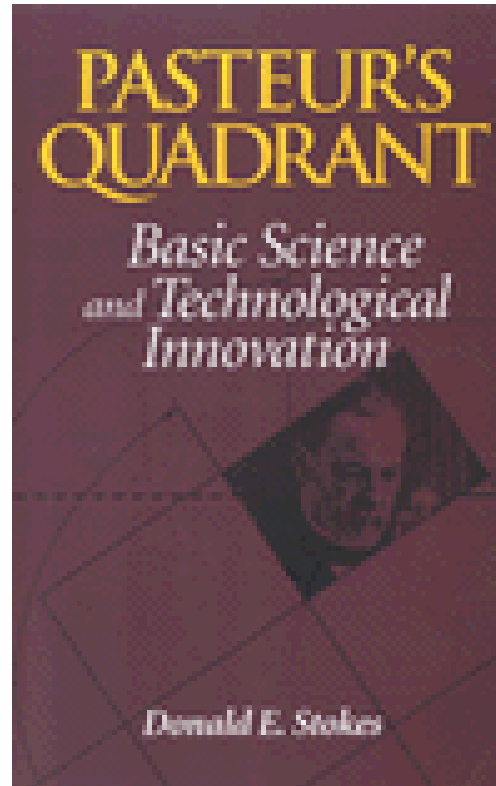
- EIT is not the solution
- EIT must be seen in context, i.e. the evolving European Innovation System (European Research Area too restrictive a concept)
- EIT, properly configured, has a valuable complementary role to play
- EIT has to find its place: positioning, complementarities, *e.g. to Technology Platforms, FP Thematic Priorities, ERC...*

*Easy to criticise details in the Commission's EIT proposal
Grave danger of throwing the baby out with the bathwater*

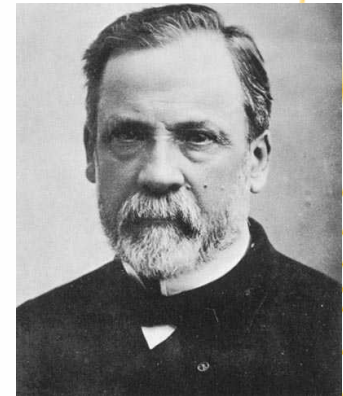
The False Opposition between Basic and Applied Research



Donald E. Stokes




**Brookings Institution
Press, 1997**



Louis Pasteur

The False Opposition between Basic and Applied Research

Vannevar Bush, "Science the Endless Frontier", 1944

- *"Applied science invariably drives out pure"*
 - *"Basic research is the pacemaker of technological progress"*
 - *"A nation which depends upon others for its new basic scientific knowledge will be slow in its industrial progress and weak in its competitive position in world trade"*
 - *Separation of basic and applied research*
 - *"Superiority" of basic research*
 - *"Automaticity" of use, subsequent in time and space*
- 

The False Opposition between Basic and Applied Research





- What is basic research?
 - Research primarily motivated by a quest for understanding
- What is applied research?
 - Research primarily motivated by considerations of use



Quadrant Model of Scientific Research

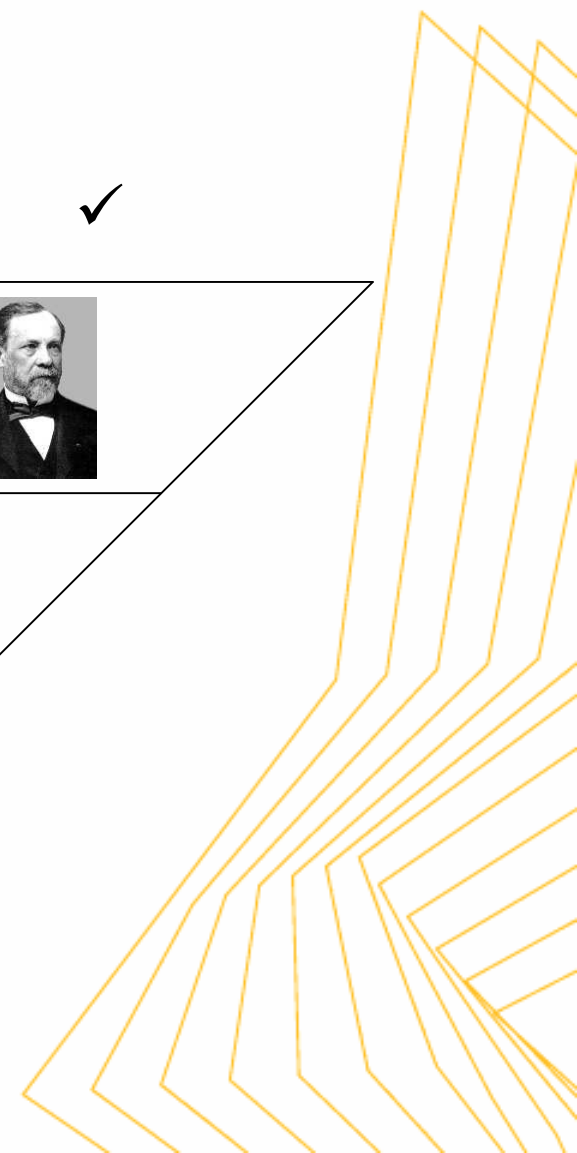
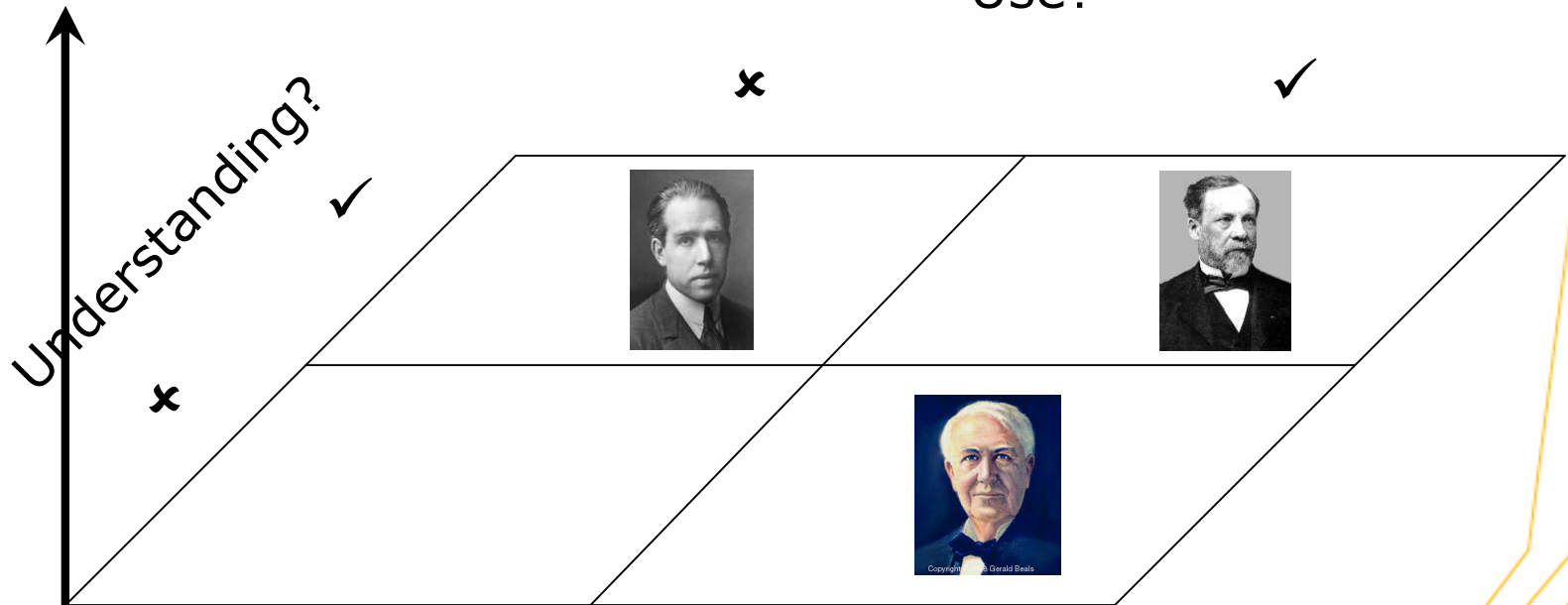
		Considerations of use?	
		x	✓
Quest for fundamental understanding?	✓	Pure basic research	Use-inspired basic research
	x		Pure applied research

Quadrant Model of Scientific Research

		Considerations of use?	
		x	✓
Quest for fundamental understanding?	✓	Niels Bohr 	Louis Pasteur 
	x	Carl Linnaeus 	Thomas Edison 

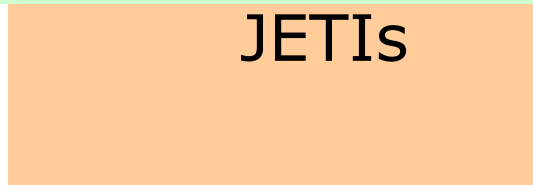
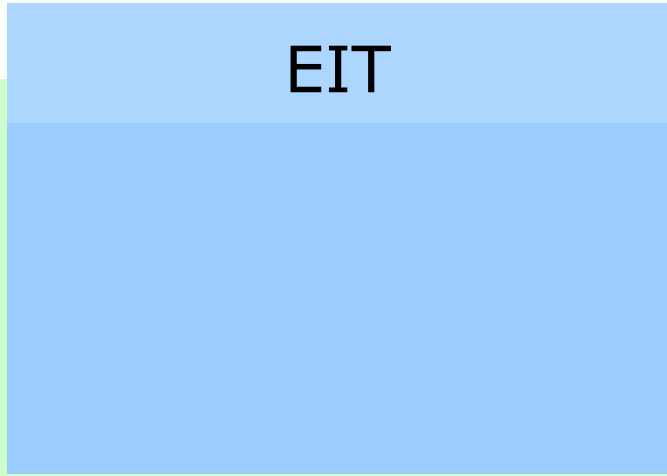
Adding a Third Dimension

Cost, Risk, Duration
Critical Mass

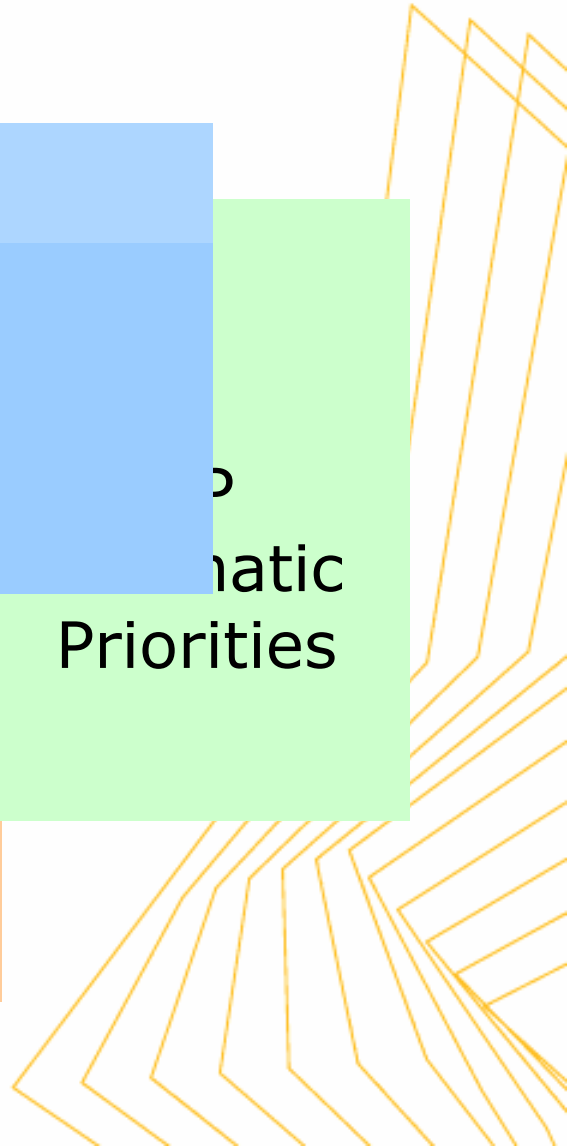


Positioning of EIT

Cost, Risk, Duration
Critical Mass



Systematic
Priorities



Conclusion

- Bohr, Edison, Pasteur – we need them all!
- There is a need and a place for a well configured EIT
 - Strategic, longer-term, high-risk
- Overlaps between EIT, ERC, TPs etc. are not a problem, they are essential!
 - Ideas and people must flow
 - ERC, FP Thematics co-fund EIT projects
 - EIT projects contribute to TP programme objectives
- The EIT must be allowed to find its place
 - German Presidency compromise is pragmatic and wise

*Easy to criticise details in the Commission's EIT proposal
Grave danger of throwing the baby out with the bathwater*