Lisbon Research and Policy Workshops
on
"Science, Technology and Social Change"

Workshop 2

Real science, reliable knowledge and the complementarity of "open science" and property knowledge:
…continuing an exploration on the role of public policy and of the grounds for belief in science after John Ziman

Date: 1-2 October 2007
Venue: Portuguese Communications Foundation, Museu das Comunicações, Lisbon

Some forty years after John Ziman launched the discussion on Public Knowledge[1] and thirty years after his work on Reliable Knowledge[2], is it still true that to appreciate the significance of scientific knowledge, one must understand the nature of science as a complex whole? In fact, in Real Science[3], John Ziman reminds us that when he wrote that "science is social", he was referring to "the whole network of social and epistemic practices where scientific beliefs actually emerge and are sustained". But he also identified that the trouble is "this network is not regulated by any single prince or principle", so that it requires to be "clearly presented in the everyday language of the common reader". And the relevant question that can be asked is what is new after the discussion launched by John Ziman about the evolutionary nature of technological innovation[4]?

Current debate has established that the progress of scientific and technological knowledge is a cumulative process, depending in the long-run on the widespread disclosure of new findings. For example, Paul David has systematically shown that "open science is properly regarded as uniquely well suited to the goal of maximising the rate of growth of the stock of reliable knowledge". As a result, "open science" institutions provide an alternative to the intellectual property approach dealing with difficult problems in the allocation of resources for the production and distribution of information. Consequently, is it adequate to consider that the main challenge for public policies is to keep the proper balance between open science and commercially oriented R&D based upon proprietary information? At what level should governments foster cooperative exploratory research, which is recognized as vital for the sustainability of knowledge-driven economies, to react to the increasing demand from individuals, research units and private firms for incentives for non-cooperative, rivalry knowledge?

1. J. Ziman (1968), *Public Knowledge: The Social Dimension of Science*, Cambridge University Press
2. J. Ziman (1978), *Reliable Knowledge: an exploration of the grounds for belief in science*, Cambridge University Press
3. J. Ziman (2000), *Real Science: What it is, and what it means*, Cambridge University Press
4. J.Ziman (2000), *Technological Innovation as an Evolutionary Process*, Cambridge University Press

Monday, October 1, 2007

Registration: 16:00

Session 1: 16:30-18:30
Chair and introductory paper: Manuel Heitor, MCTES, PT

Invited Speakers:

- Dominique Foray, École Polytechnique Fédérale de Lausanne, CH

- Philippe Laredo, École Nationale des Ponts et Chaussées, F

Initial Discussion by:
João Arriscado Nunes, CES - Universidade de Coimbra, PT
Rui Baptista, Centre for Innovation, Tech. and Policy Research, IST, Lisbon, PT
Teresa Patricio, MCTES

19:00 - Visit to the Portuguese Foundation for the Communications
Reception and Dinner

Tuesday, October 2, 2007

Session 2: 9:30-11:00
- Chair: Dominique Foray, École Polytechnique Fédérale de Lausanne, CH

Invited Speakers:

- Mark Thorley, Natural Environment Research Council, NERC, UK

- Hugo Horta, Center for Innovation, Technology and Policy Research, IST, Lisbon, PT

Initial Discussion by:
Tiago Santos Pereira, CES - Universidade de Coimbra, PT
Lígia Amâncio, Portuguese Science and Technology Foundation, FCT

Coffee Break: 11:00-11:30

Session 3: 11:30-13:00
Chair: Harolf Grupp, Fraunhofer-Institut fur System-und Innovation., D

Invited Speakers:

- Giorgio Sirilli, CNR, IT

- Peter Schröder*, Data Archiving and Networked Services, Netherlands

Initial Discussion by:
Christoph Bruch, Max Planck Digital Library Munich, Germany
António Firmino da Costa, ISCTE, PT

Lunch: 13:00-14:00

Session 4: 14:00-16:30
Chair: Giorgio Sirilli, CNR, IT

Invited Speakers:

- Haroilf Grupp, Fraunhofer-Institut fur System-und Innovation., D

Initial Discussion by:
Diogo Lucena, Calouste Gulbenkian Foundation, PT
Maria Eduarda Gonçalves, ISCTE, PT

Closing: Manuel Heitor, MCTES, PT

Reception: 17:00

* To be confirmed