



**KNOWINNO**



*Making the most of knowledge*

## **UNDERSTANDING AND IMPROVING THE CONTRIBUTION OF DOCTORAL GRADUATES TO INNOVATION AND THE ECONOMY: DEVELOPING THE STATISTICAL EVIDENCE**

**Final conference - KNOWINNO project on Careers of Doctorate Holders**

**3 December 2012**

**CDMA building, rue du Champs de Mars, 21, Brussels**

<http://ec.europa.eu/oib/pdf/36-demeeus.pdf>

### **Programme**

The conference aims to disseminate the findings of recent work carried out by the OECD to improve the evidence base on the careers of doctorate holders (CDH) and their contribution to science, innovation and the economy as a whole. Such evidence is of high relevance to policy makers who finance the specialist training of researchers and support their integration in the innovation system; prospective employers in search of specific skills in their workforce, and the individual themselves who consider whether to pursue doctorate studies and proceed with research or unrelated careers.

The CDH final conference will present the key findings of the OECD project on the Careers of Doctorate Holders (CDH). This project is part of a wider joint initiative initiated by the OECD, the Unesco Institute for Statistics and Eurostat under which internationally co-ordinated data collections have been carried among participating countries to address the traditional lack of statistically reliable data on doctorate holders. Based on the latest available results from the 2010 CDH data collection, the project has gone beyond the analysis of aggregate indicators across 25 participating countries to undertake a co-ordinated analysis of micro data from dedicated CDH surveys. Expert teams from several government agencies and research institutions have collaborated with the OECD to carry out econometric analyses on the factors that shape the labour market experience and performance of doctorate holders across different countries.

Conference participants will be able to gain valuable insights from the latest results and their comparison to other related studies, thus building an improved and shared understanding of the state of evidence for key questions concerning the supply and demand for doctorate qualifications, the training and competences of doctoral graduates, incentives and barriers to domestic and international mobility. Participants will also have the opportunity to discuss the main policy implications, outstanding evidence gaps and priorities for future measurement and research efforts, including approaches for developing the data infrastructures to enable data linking and researcher access for analytical purposes.



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**Programme**

**9:30 – 10:00** Welcome to participants: **Setting the scene.**

**The policy context.**

Stefaan Hermans, Head of Skills Unit, DG Research and Innovation, European Commission.

**The KNOWINNO-CDH project and the OECD innovation measurement agenda.**

Fernando Galindo-Rueda, Senior Economist, Economic Analysis and Statistics Division, OECD.

**10:00 – 11:30** **What do we know about doctorate holders and their careers? Findings from the CDH and related projects.**

*This session will provide an overview of the main findings of the KNOWINNO project on the Careers of Doctorate Holders alongside those arising from related international projects. By bringing together the results from projects using different methodological approaches, this session aims to build a consensus on which are the key salient facts that describe the patterns of labour market and mobility among doctoral graduates and researchers.*



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**Chair:** Philippe Laredo, Professor, Université de Paris-Est (France) and University of Manchester (United-Kingdom)

## **Presentations**

### **New evidence from OECD statistics and research on the Careers of Doctorate Holders. Findings from the CDH-KNOWINNO project.**

Laudeline Auriol, Project Coordinator, OECD, followed by contributions and remarks by leads of the international project team:

Max Misu, OECD and NISTEP

Joana Duarte, Directorate for Statistics on Education and Science (DGEEC), Portugal

Koen Jonkers, Scientific Research Council (CSIC), Spain

### **How to track researchers' careers? Recommendations by the ESF's European Alliance on Research Career Development.**

Ulrike Kohl, Senior Programme Manager, Fonds National de la Recherche, Luxemburg and Beate Scholz, Director, Consulting Training Coaching (CTC), Germany.

### **Mobility Patterns and Career Paths of EU Researchers (MORE).**

Miriam Van Hoed, Senior Consultant, IDEA Consult, Belgium

*11:30 – 11:45 Coffee break*

### **11:45 - 13:15 Roundtable 1: Implications for the training and the supply of doctorate holders.**

*Having undergone a period of dedicated training to develop research and related competencies, doctoral graduates hold a degree at the highest end of the educational spectrum. The supply of graduates depends on individual and policy decisions, which may benefit from better evidence on the private and social returns from such investments. This roundtable will consider questions such as: What is the value of information on research careers to prospective doctorate students? How does doctorate training align to current and expected demand for researchers? Is it meaningful to talk about too few or too many doctoral graduates being trained?*

**Moderator:** Luis Sanz, Director of the CSIC Institute of Public Goods and Policies, Spain

Fernando Galindo-Rueda, Senior Economist, OECD.

Sveva Avveduto, Director of Institute for Research on Population and Social Policies, National Research Council, Italy

Emilda Rivers, Programme Director, National Science Foundation, United States.

Janet Metcalfe, Chair and Head, Vitae, United Kingdom.



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**13:15 – 14:15 Lunch**

**14:15 – 15:45 Roundtable 2: The global competition for talents and diversity of career paths: what use is being made of doctorate holders' competencies?**

*Transferable skills help researchers pursue varied careers and contribute to better research outputs, and can ultimately enhance research and innovation performance. The context in which doctoral graduates disseminate knowledge through mobility and collaboration is rapidly changing, becoming increasingly internationalised. This roundtable will consider the evidence on the most valued competencies among doctorate holders, the impacts of mobility and collaboration on their career prospects and what policies are being designed to promote the use of doctorates' skills.*

**Moderator:** Hans Borchgrevink, Special Adviser, Research Council Norway and Chair of the Working Group Monitoring and Indicators of the ERA Steering Group on Human Resources and Mobility.

Hugo Horta, Researcher, Centre for Innovation, Technology and Policy Research (IN+/IST), Technical University of Lisbon, Portugal.

Rosa Fernández, Economic Adviser, Department for Business, Innovation and Skills, United Kingdom.

Karen Vandeveld, Senior Researcher, Centre for Research & Development Monitoring, ECOOM, University of Ghent, Belgium.

Laura Cruz, Senior Researcher, Scientific Research Council (CSIC), Spain.

**15:45 – 17:00 Concluding round table: Towards an evidence base on researchers and doctoral graduates to meet future policy needs.**

*The CDH project has highlighted a number of opportunities and challenges for developing an evidence-base that policy makers can use for informing their decisions. This evidence can be also of high value to individuals and employers. The purpose of this session is to identify key steps that can be adopted to improve the quality and impact of these studies, identify new relevant sources, improve the statistical infrastructure and, in particular, by integrating and linking various sources and facilitating access for research and analytical purposes.*

**Moderator:** Ward Ziarko, Federal Science Policy, Belgium and Chair, OECD Working Party of National Experts on Science and Technology Indicators (NESTI) .

Peter Whitten, Policy Officer, DG Research and Innovation, European Commission.

Peter Elias, Professor, University of Warwick, United Kingdom.

Luis Sanz, Chair, OECD Committee for Science and Technology Policy.

Ken Guy, Head of the Science and Technology Policy Division, OECD.

**17.00 Conference adjourns.**