

R HODGSON	Managing Director Zernike Group UK
<i>Education</i>	BA (Economics) BPhil (Econometrics)
<i>Date of Birth</i>	28.02.48

Bob Hodgson is an economist with more than thirty years experience of economic assessment, policy formulation and analysis, project evaluation and implementation across a wide variety of sectors, institutions, regions and countries.

He has specialised over the last twenty years in the role of technology in development and the drive from new science to improve competitiveness and productivity especially within programmes to stimulate private sector involvement with research and higher education institutions and the incubation of new firms from the knowledge base.

Countries experience

Armenia, Argentina, Austria, Australia, Belarus, Belgium, Botswana, Brazil, Chile, Colombia, Croatia, Czech Republic, Denmark, France, Germany, Greece, Holland, Hong Kong, Hungary, Iceland, India, Indonesia, Iran, Ireland, Italy, Jamaica, Japan, Jordan, Kazakhstan, Kuwait, Lebanon, Kenya, Lithuania, Namibia, Norway, Macau, Malaysia, Mauritius, Mexico, Morocco, Mozambique, Pakistan, Palestine, Papua New Guinea, Poland, Portugal, Romania, Russia, Saudi Arabia, South Africa, Spain, Tanzania, Thailand, Turkey, Uganda, Ukraine, UK, USA.

Details of professional experience

- 2000 to date:** **Zernike (UK) Limited**
Established the UK arm of this international technology services group which offers seed funding of new technology based firms (over 350 firms in last 10 years), the management of incubators and specialist technology oriented premises (20 properties in 6 countries), technology commercialisation internationally and advice at the regional level on establishing technology commercialisation programmes.
- 1987 to 2000:** **Segal Quince Wicksteed Limited**
Deputy Chairman of the Board and executive director responsible for leading international work in high quality economic and technology development.
- 1978 to 1986:** **Coopers & Lybrand Associates Ltd**
Based largely in London undertaking a wide range of development work for major aid agencies, private clients and public/private partnerships
- 1974 to 1978:** **Newcastle City Council**
Head of the Central Research Unit
- 1972 to 1974:** **Derbyshire County Council**
Department of Physical Planning
- 1970 to 1972:** **University of Southampton**
Department of Econometrics and Social Statistics

He is a Senior Research Fellow at the Institute for Creativity Capital and Innovation (IC²) at the University of Texas at Austin and a regular speaker at international conferences. He sits on an international panel advising the Ministry of Higher Education and Research in Portugal on international alliances with prestigious universities and is a member of the International Steering Committee and was Co-Chair of the 11th International Conference on Technology Policy and Innovation in New Delhi in April 2009. In 2017 the 16th conference will be in Taipei; the 14th conference was in Czech Republic and the 15th in UK.



Some relevant project experience

In 2016

- for the World Bank continued projects in Middle East and North Africa (modelling of an early stage finance initiative in Morocco), Latin America (supporting an innovation loan to Argentina) and Eastern Europe (support for a loan program for Kazakhstan)
- in Turkey for the ODTU leading S&T Park and eco-system provided strategic guidance to the development of their next 20-year development strategy to consolidate their role on the global stage
- in Turkey for an EU program supporting Ministry of Industry, Science and Technology provided a 3 day training program on venture funding for regional eco-systems to stimulate innovative SMEs
- for Medilink in the East Midlands of the UK finalised the evaluation of a program of assistance for firms in the biotechnology community to build networks, invest in innovation and link to universities

In 2015

- for the World Bank continued projects in Middle East and North Africa (Kuwait IT Park feasibility; design of an early stage finance initiative in Morocco), Latin America (supporting an innovation loan to Argentina) and Eastern Europe (designing a loan program for Kazakhstan, Belarus and Ukraine)
- in Turkey for an EU program supporting Ministry of Industry, Science and Technology provided a 3 day training program on innovation policies and the role of technoparks to Technopark managers
- for India helped draft their approach to a 'start-up nation' program to stimulate innovative SMEs
- contributed a chapter on Cambridge to a book titled 'The Entrepreneurial University' funded by the Norwegian Research Council and published by Routledge
- for the Infodev team ran a series of workshops on networking and international cooperation for a growing network on Climate Innovation Centres from South Africa, Ethiopia, Vietnam and Caribbean
- in Poland participated in a training program for tech park managers on monitoring and evaluation in support of a World Bank initiative

In 2014

- for the World Bank continued projects in Middle East and North Africa (Kuwait IT Park feasibility; design of an early stage finance initiative in Morocco), Latin America (supporting an innovation loan to Argentina) and Eastern Europe (designing a loan program for Kazakhstan, Belarus and Ukraine)
- in Turkey for the Chamber of Industry developed a business plan for a regional Innovation Centre, the first in Turkey at the city of Konya; for the Ministry of Industry, Science and Technology provided a 3 day training program on innovation policies and the role of technoparks
- helped plan and deliver a conference titled 'Catalysing Innovation: From Concepts to Commitments' for the World Bank and Turkish Technology Development Agency in Istanbul
- for Medilink in the East Midlands of the UK evaluated a program of assistance for firms in the biotechnology community to build networks, invest in innovation and link to universities
- for an alliance of five universities evaluated their student incubation and acceleration program in the East Midland region of the UK



In 2013

- for the World Bank helped design a region wide early stage finance facility to stimulate new enterprise development across the Middle East and North Africa region
- Advised on the development of a specialist IT Park for CAIT, the Kuwaiti agency for IT development through participative workshops and stakeholder consultation
- For African Development Bank advised on the development of innovation strategies and networks in the alternative energy sector with a particular emphasis on transferring lessons from Brazil to Egypt, a South-South strategy
- For the city region of Liverpool contributed to the development of innovation and knowledge development strategies with an emphasis of lessons from international experience
- for the Botswana Ministry of Infrastructure, Science and Technology advised on the design and operation of a Botswana Innovation Fund as part of their industrial diversification strategy
- for the World Bank supported the team monitoring a long term loan program to upgrade and refresh the Kazakhstan science and technology base with a view to improving innovation performance
- For the World Bank in Argentina continue as member of supervision team for a program of sectoral development based on nano-technology, biotechnology and ICT with a strong emphasis on new technology firm creation, R&D consortia and knowledge economy development

In 2012

- advised a major UK city on the development of a three-country strategic alliance around advanced technology and knowledge based development including applied research, specialist infrastructure and targeted advanced human capital
- Member of international review panel for an alternate energy incubator in Indonesia and peer reviewer for a venture accelerator in Russia for the World Bank
- For World Bank reviewed the policy framework for tertiary education in Mauritius and proposed amendments to the national strategy to develop as an international hub serving the Indian Ocean and East African states markets
- Organised a study tour of selected European sites of best practice for a group of World Bank professionals looking to extend their experience of advanced innovation practice
- For World Bank part of team designing a loan program in Lebanon to help generate a early stage venture fund for knowledge economy firms and a grant based deal flow facility to accelerate the formation rate and growth performance of new innovative firms
- For World Bank as part of a loan development for the Mexican National Research Council CONACYT helped form the national approach to technology commercialisation and knowledge transfer to build a competitive knowledge economy
- For the World Bank in Argentina helped supervise a program of sectoral development based on nano-technology, biotechnology and ICT with a strong emphasis on new technology firm creation, R&D consortia and knowledge economy development



Earlier

- For IASP appointed to a three person working group to develop a methodology for evaluating the impact of S&T parks
- For World Bank member of a team developing a loan to Brazilian State level government for the development of 11 new S&T parks
- For Isfahan Science and Technology Town conducted 2 days of workshops for S&T park managers on the role of S&T parks in economic development and the use of key performance indicators in managing parks
- Contributed chapters in books on innovation and the knowledge economy for OECD and WIPO
- For Medilink, East Midlands helped evaluate a program to assist biotechnology firms spinning out of the regions universities
- For IASP contributed to a workshop in Maia, Portugal on the challenge from competitors to the future expectations of S&T parks and strategies to build alliances with them and in Poznan in Poland on the growth of Third Generation S&T parks
- For IC2, University of Texas Austin authored a review of the UK approach to knowledge economy development which forms a chapter of a book covering 15 countries around the world
- For the World Intellectual Property Office ran a training programme on the challenges of raising capital using intangible assets and subsequently commissioned to author with others a book on the subject of the role of IP in SMEs in the knowledge economy
- For the World Bank member of a supervision mission in Mexico for the loan to the national research council – CONACYT – to develop S&T and innovation policies and programmes
- For the World Bank major contributor to the inaugural global training course on innovation covering topics of technology commercialisation, raising finance, national and regional policy implementation and coordination for participants from more than 20 countries
- For the National Science Foundation in Portugal continued as a member of the international external review committee of the CO-LAB programme with University of Texas, Austin with a particular emphasis on the University Technology Enterprise Network
- for a partnership of universities, Health Foundation and municipal authorities in Manchester designed a Creative Convergence Hub – a new initiative to bring together creative individuals from the arts, sciences and related communities to accelerate the combination of new ideas to create business
- For the WIPO ran a training programme in Cairo on the challenges for SMEs to use intellectual property tools in their business strategies and the design of programmes to facilitate this raising capital using intangible assets in conjunction with the League of Arab States IP Offices
- for an RDA in the north of England contributed to the acceleration of initiatives around a new and renewable energy research centre of excellence with a focus on accelerating the commercialisation and application of new ideas from the research and development programmes
- For a partnership between the Manchester City, Health Trust and two Manchester Universities reviewed the need for additional infrastructure for science based businesses spinning out of the knowledge base especially in the fields of biotechnology and digital media. Subsequently employed to develop the recommendations in the key areas of innovation networks and the redevelopment of a 10,000m² redundant hospital building to enhance existing provision
- for a private company in Malaysia led a master-plan for the development of a third generation high technology park focussed on both inward investment and growing new technology based companies

