



CAMBRIDGE
UNIVERSITY PRESS

Harnessing Public Research for Innovation in the 21st Century

An International Assessment of Knowledge Transfer Policies

Edited by Anthony Arundel

UNU-MERIT, Maastricht University and University of Tasmania

Suma Athreye

Essex Business School, London

and Sacha Wunsch-Vincent

World Intellectual Property Organization

Universities and public research institutes play a key role in enabling the application of scientific breakthroughs and innovations in the marketplace. Many countries – developed and developing alike – have implemented strategies to support the application or commercialization of knowledge produced by public research organizations. Universities and public research institutes have introduced practices to support these activities, for instance by including knowledge transfer to promote innovation as a core part of their mission. How can policymakers improve the efficiency of knowledge transfer practices to help maximize innovation-driven growth and seek practical solutions to critical societal challenges?

This book aims to develop a conceptual framework to evaluate knowledge transfer practices and outcomes, improve knowledge transfer metrics, surveys and evaluation frameworks, generate findings on what does and does not work, and propose related policy lessons.

“Enabling access to cutting-edge research is vital to tackling the challenges countries face. It is thus ever more important to identify which knowledge transfer practices work and which do not. This research is critical in this regard.” **Pippa Hall, Director of Innovation, Intellectual Property Office, United Kingdom**

“This book represents a major step towards reaching a systematic approach to the measurement of knowledge transfer practices and outcomes.” **Hu Zhijian, President, Chinese Academy of Science and Technology for Development**

“Unlike most existing work in this area, this book emphasizes that firms benefit from academic research not only through formal but also more informal channels and from open science, and the tensions and complementarities between these two.” **Bhaven Sampat, Associate Professor, Columbia University**

“Going forward, knowledge transfer will play a pivotal role in driving future growth in Africa. We welcome this book and encourage the African measurement community to invest in related metrics.” **Philippe Kuhutama Mawoko, former Executive Secretary, African Observatory for Science, Technology and Innovation, African Union Commission**

Contributors: Anthony Arundel, Suma Athreye, Giancarlo Caratti, Baoming Chen, Dirk Czarnitzki, Fernanda de Negri, Minglei Ding, Nordine Es-Sadki, Kerry Faul, Intan Hamdan-Livramento, Can Huang, Ning Huang, Michael Kahn, Bruno le Feuvre, Keun Lee, Georg Licht, Xia Liu, Fernanda Magalhães, Philippe Mawoko, Fabio Montobbio, Chunyan Peng, Amit Shovon Ray, Ragan Robertson, Federica Rossi, Bhaven Sampat, Hochul Shin, Si Kyong Sung, Henri Theunissen, Lien Verbauwheide Koglin, Rosemary Wilson, Juan Yang, Antenor Cesar Vander Lei Corrêa, Christiane Vienna Rauen, Sacha Wunsch-Vincent, Hao Zhou

 **Open access**



March 2021

229 x 152 mm c.322pp

Hardback 978-1-108-84279-2

Table of Contents

Part I. Setting the Context: 1. The evolving role of public R&D and public research institutions in innovation; 2. Evaluating knowledge transfer policies and practices: conceptual framework and metrics; 3. Measuring global patenting of universities and public organizations

Part II. Selected Comparative Country Studies; 4. United Kingdom; 5. Germany; 6. Republic of Korea; 7. Brazil; 8. China; 9. South Africa

Part III. The Way Forward: 10. Policies and practices for supporting successful knowledge transfer from public research to firms; 11. Policy recommendations: aiming for effective knowledge transfer policies in high- and middle-income countries; 12. Toward a comprehensive set of metrics for knowledge transfer.



www.cambridge.org/alerts

For the latest in your field

For more information, and to order, visit:

www.cambridge.org/9781108842792

and enter the code ARUNDEL20 at the checkout