The Capitalization of Knowledge

A Triple Helix of University-Industry-Government

Edited by

Riccardo Viale

Fondazione Rosselli, Turin, Italy

Henry Etzkowitz

Stanford University, H-STAR, the Human-Sciences and Technologies Advanced Research Institute, USA and the University of Edinburgh Business School, Centre for Entrepreneur ship Research, UK

Edward Elgar

Cheltenham, UK • Northampton, MA, USA

Contents

Ackr	of contributors nowledgements reviations	vii ix x
	oduction: anti-cyclic triple helix eardo Vide and Henry Etzkowitz	1
PAF	RT I HOW TO CAPITALIZE KNOWLEDGE	
1	Knowledge-driven capitalization of knowledge <i>Riccardo Viale</i>	31
2	'Only connect': academic-business research collaborations and the formation of ecologies of innovation <i>Paul A. David and J. Stanley Metcalfe</i>	74
3	Venture capitalism as a mechanism for knowledge governance Cristiano Antonelli and Morris Teubal	98
4	How much should society fuel the greed of innovators? On the relations between appropriability, opportunities and rates of innovation	121
5	Giovanni Dosi, Luigi Marengo and Corrado Pasquali Global bioregions: knowledge domains, capabilities and innovation system networks	143
6	Philip Cooke Proprietary versus public domain licensing of software and research products Alfonso Gambardella and Bronwyn H. Hall	167
PAF	RT II TRIPLE HELIX IN THE KNOWLEDGE ECONOMY	
7	A company of their own: entrepreneurial scientists and the capitalization of knowledge	201
8	Henry Etzkowitz Multi-level perspectives: a comparative analysis of national R&D policies Caroline Lanciano-Morandat and Eric Verdier	218

vi	The	capitalization	of	knowledge

9	The role of boundary organizations in maintaining separation	243
	in the triple helix	243
	Sally Davenport and Shirley Leitch	
10	The knowledge economy: Fritz Machlup's construction of a	
	synthetic concept	261
	Benoit Godin	
11	Measuring the knowledge base of an economy in terms of	
	triple-helix relations	291
	Loet Leydesdorff, Wilfred Dolfsma and Gerben Van der Panne	
12	Knowledge networks: integration mechanisms and	
	performance assessment	312
	Matilde Luna and Jose Luis Velasco	
Inde	ex	335