Contents

List of contributors vii
Foreword by David J. Teece xvii
Acknowledgments xx

Introduction 1
Jerome S. Engel

1 What are Clusters of Innovation, how do they operate and why are they important? 5
Jerome S. Engel

PART I NORTH AMERICA

2 USA: Silicon Valley, the archetypal Cluster of Innovation 41
Jerome S. Engel and Florian Forster

PART II EUROPE

3 Germany: high-tech region Munich generating the next wave of scalable startups 95
Helmut Schönenberger

4 Belgium: building a digital Cluster of Innovation in the heart of Europe 120
Wim De Waele and Sven H. De Cleyn

5 Spain: creating ecologies of innovation in cities – the case of 22@Barcelona 141
Montserrat Pareja-Eastaway and Josep M. Piqué

6 United Kingdom: London’s tech startup boom 160
Itxaso del-Palacio and Dave Chapman
PART III MIDDLE EAST

7 Israel: the technology industry as an economic growth engine creating a nationwide Cluster of Innovation 187
Orna Berry and Daniel Wasserteil

PART IV ASIA

8 Japan: the university as a driver for innovation in response to two decades of economic depression 205
Shigeo Kagami

9 Taiwan: linkage-based Clusters of Innovation – the case of Taiwan’s IT industry 222
Chao-Tung Wen and Jun-Ming Chen

10 China: emergence of an entrepreneurial economy in an uncertain environment 247
Virginia Trigo and Qin Lang

PART V LATIN AMERICA

11 Colombia and Mexico: innovation and entrepreneurship as a new paradigm for regional development in Latin America 271
Carlos Scheel

12 Brazil: good governance in the tropics – the rise of the Porto Digital Cluster of Innovation 296
Flavio Feferman

PART VI GLOBAL ENTITIES DIFFUSING INNOVATION

13 Intel Corporation: the role of a global enterprise in supporting regional entrepreneurship and innovation clusters 341
Manav Subodh

14 NCIIA: students as the vanguard in a geographically dispersed approach to stimulating science and technology innovation 359
Phil Weilerstein

15 Clusters of Innovation: final thoughts 378
Jerome S. Engel

Index 391