UNIVERSITIES AND REGIONAL ECONOMIC DEVELOPMENT

ENGAGING WITH THE PERIPHERY

Regional
Studies
Association

THE GLOBAL FORUM FOR CITY
AND REGIONAL RESEARCH,
DEVELOPMENT AND POLICY

— REGIONS AND CITIES —

EDITED BY PAUL BENNEWORTH

ROUTLEDGE

Universities and Regional Economic Development

In a knowledge-based economy, universities are vital institutions. This volume explores the roles that universities can play in peripheral regions, contributing to processes of regional economic development and innovative growth.

Including a series of case studies drawn from Portugal, Norway, Finland, the Czech Republic, Estonia and the Dutch-German border region, this will be the first book to offer a comprehensive comparative overview of universities in European economically peripheral regions. These studies seek to explore the tensions that arise in peripheral regions where there may not be obvious matches between university activities and regional strengths.

Aimed at academics, policy-makers and practitioners working on regional innovation strategies, this volume brings a much-needed sense of realism and ambition for all those concerned with building successful regional societies at the periphery of the knowledge economy.

Paul Benneworth is a senior researcher at the Center for Higher Education Policy Studies, University of Twente, the Netherlands, and Agderforskning, Kristiansand, Norway.

Regions and Cities

Series Editor in Chief

Joan Fitzgerald, *Northeastern University, USA*

Editors

Ron Martin, *University of Cambridge, UK*

Maryann Feldman, *University of North Carolina, USA*

Gernot Grabher, *HafenCity University Hamburg, Germany*

Kieran P. Donaghy, *Cornell University, USA*

In today's globalised, knowledge-driven and networked world, regions and cities have assumed heightened significance as the interconnected nodes of economic, social and cultural production, and as sites of new modes of economic and territorial governance and policy experimentation. This book series brings together incisive and critically engaged international and interdisciplinary research on this resurgence of regions and cities, and should be of interest to geographers, economists, sociologists, political scientists and cultural scholars, as well as to policy-makers involved in regional and urban development.

For more information on the Regional Studies Association visit www.regionalstudies.org

There is a **30% discount** available to RSA members on books in the ***Regions and Cities*** series, and other subject related Taylor and Francis books and e-books including Routledge titles. To order just e-mail Joanna Swieczkowska, Joanna.Swieczkowska@tandf.co.uk, or phone on +44 (0)20 3377 3369 and declare your RSA membership. You can also visit the series page at www.routledge.com/Regions-and-Cities/book-series/RSA and use the discount code: **RSA0901**

128. Universities and Regional Economic Development

Engaging with the Periphery

Edited by Paul Benneworth

127. Territorial Designs and International Politics

Inside-out and Outside-in

Edited by Boaz Atzili and Burak Kadercan

126. Smart Transitions in City Regionalism

Territory, Politics and the Quest for Competitiveness and Sustainability

Tassilo Herrschel and Yonn Dierwechter

125. Geopolitics of the Knowledge-Based Economy

Sami Moisis

Universities and Regional Economic Development

Engaging with the Periphery

Edited by Paul Benneworth

First published 2019
by Routledge
2 Park Square, Milton Park, Abingdon, Oxon OX14 4RN

and by Routledge
711 Third Avenue, New York, NY 10017

Routledge is an imprint of the Taylor & Francis Group, an informa business

© 2019 selection and editorial matter, Paul Benneworth; individual chapters,
the contributors

The right of Paul Benneworth to be identified as the author of the editorial material,
and of the author for his individual chapters, has been asserted in accordance with
sections 77 and 78 of the Copyright, Designs and Patents Act 1988.

All rights reserved. No part of this book may be reprinted or reproduced or utilised
in any form or by any electronic, mechanical, or other means, now known or
hereafter invented, including photocopying and recording, or in any information
storage or retrieval system, without permission in writing from the publishers.

Trademark notice: Product or corporate names may be trademarks or registered trademarks,
and are used only for identification and explanation without intent to infringe.

British Library Cataloguing-in-Publication Data

A catalogue record for this book is available from the British Library

Library of Congress Cataloging-in-Publication Data

A catalog record has been requested for this book

ISBN: 978-1-138-05127-0 (hbk)

ISBN: 978-1-315-16835-7 (ebk)

Typeset in Bembo
by Out of House Publishing

Dedicated to Martha Barbara Benneworth

Taylor & Francis

Taylor & Francis Group

<http://taylorandfrancis.com>

Contents

<i>List of figures</i>	ix
<i>List of tables</i>	x
<i>Notes on contributors</i>	xi
<i>Preface</i>	xiii
1 Universities and regional development in peripheral regions PAUL BENNEWORTH AND LISA NIETH	1
2 Universities and neo-endogenous peripheral development: towards a systematic classification LISA NIETH AND PAUL BENNEWORTH	13
3 Towards a strategic alignment: regional challenges and university tensions in peripheral geographies RÓMULO PINHEIRO	26
4 University roles in a peripheral Southern European region: between traditional and ‘engaged’ roles through the provision of knowledge intensive business services HUGO PINTO, ELVIRA UYARRA AND MANUEL FERNÁNDEZ-ESQUINAS	41
5 ‘Strange bird’: a peripheral university college in a complex, peripheral region JAMES KARLSEN	58
6 The case of the Telemark region and the university college of Telemark NINA KYLLINGSTAD	76

7	Vysočina region: from a remote rural region straight into the virtual world	92
	LIBOR PRUDKÝ AND MICHAELA ŠMÍDOVÁ	
8	Usti region: learning hard about industry modernisation	110
	INNA ČÁBELKOVÁ AND JAN KOHOUTEK	
9	Higher education institutions at the periphery of the periphery: creating sustainable economic development in Estonia	127
	ANNE KEERBERG	
10	Universities and regional economic development in cross-border regions	145
	JOS VAN DEN BROEK, FRANZISKA ECKARDT AND PAUL BENNEWORTH	
11	Constructing regional resilience in a knowledge economy crisis: the case of the Nokia-led ICT industry in Tampere	163
	HELI KURIKKA, JARI KOLEHMAINEN AND MARKKU SOTARAUTA	
12	Conceptualising the university-region economic development interface in peripheral regions	180
	PAUL BENNEWORTH AND LISA NIETH	
13	Future perspectives on universities and peripheral regional development	194
	LISA NIETH AND PAUL BENNEWORTH	
	<i>Index</i>	209

Figures

2.1	The role of RICs in developing new trajectories	19
4.1	Map of the Algarve	48
5.1	Finnmark's location within Northern Norway	62
7.1	General design of our research	94
7.2	The location of Vysočina in the Czech Republic	95
8.1	The location of Usti in the Czech Republic	114
9.1	Regional HEI units outside university cities (Tartu and Tallinn)	132
10.1	The EUREGIO	151
11.1	ICT employment changes in Tampere region	169
11.2	Turnover development of the ICT sector in Tampere region	171
13.1	Key take-away messages for national policy-makers	197
13.2	Key take-away messages for regional policy-makers	199
13.3	Key take-away messages for university senior managers	201
13.4	Key take-away messages for university engagement support activities	203
13.5	HEIs are integrated knowledge communities involving regional partners	206
13.6	Key take-away messages for engaged academics	207

Tables

2.1	Varieties of path creation	15
2.2	Possible challenges for peripheral regions identified by diverse scholars	18
2.3	Possible responses of universities to lock-in scenarios	21
4.1	Key variables of Algarve, Portugal and Europe	49
5.1	Population development in sub-regions in Finnmark and Norway from 1950 to 2016	64
5.2	Summary of main regional development challenges of the sub-regions of Finnmark	66
5.3	Operationalising the HEI – regional tensions	67
6.1	Distribution of employees by sector in Telemark, Q4 2015	82
6.2	The campus locations comprising TUC, c. 2013	83
6.3	Research groups at TUC	84
7.1	Education of population of Vysočina region compared to Czech Republic	97
7.2	Development of selected pollution and environmental expenditure in Vysočina	99
7.3	Focus of VŠPJ's study programmes and relation to developmental needs of Vysočina region	101
7.4	Applicants, students and graduates of VŠPJ	102
7.5	Study fields and numbers of students	102
9.1	Institutions providing higher education curricula, 1995–2016	131
9.2	Number of students at institutions providing higher education curricula, 1995–2014	131
9.3	Main characteristics of Estonian public universities' regional colleges, 2015–2016	134
10.1	Possible university contributions to addressing institutional gaps in CBRISs	148

Contributors

Paul Benneworth is a senior researcher at the Center for Higher Education Policy Studies at the University of Twente, Enschede, The Netherlands and at Agderforskning, Kristiansand, Norway.

Jos van den Broek is a senior researcher at the Rathenau Instituut, The Hague, The Netherlands.

Inna Čábelková is an assistant professor and the head of the Qualified Skills Department at the Faculty of Humanities, Charles University, Prague, the Czech Republic.

Franziska Eckardt is a PhD student at the Center for Higher Education Policy Studies at the University of Twente, Enschede, The Netherlands.

Manuel Fernández-Esquinas is a research scientist at the Spanish National Research Council (CSIC).

James Karlsen is an associate professor at the University of Agder, Norway, a senior researcher at Agderforskning, Kristiansand, Norway, and a senior associate researcher at Orkestra, Basque Institute of Competitiveness, Spain.

Anne Keerberg is a PhD student at Tallinn University of Technology (TTÜ), Finland, researching higher education institutions and regional development.

Jan Kohoutek is a senior researcher at the Centre for Higher Education Studies in Prague and an assistant professor at the Faculty of Social Sciences, Charles University, Prague, the Czech Republic.

Jari Kolehmainen is Research Director at the University of Tampere, Faculty of Management, Urban and Regional Studies Group (Sente), Finland.

Heli Kurikka is a researcher at the University of Tampere, Faculty of Management, Urban and Regional Studies Research Group (Sente), Finland.

Nina Kyllingstad is a PhD candidate at the Department of Working Life and Innovation at the University of Agder, Norway and a researcher at Agderforskning, Kristiansand, Norway.

Lisa Nieth is a PhD student at the Center for Higher Education Policy Studies at the University of Twente, Enschede, The Netherlands.

Rómulo Pinheiro is a senior researcher (part-time) at Agderforskning, Kristiansand, Norway and Professor of Public Policy and Administration at the University of Agder, Norway.

Hugo Pinto is a researcher at the Centre for Social Studies, University of Coimbra (Portugal) and Professor in the Faculty of Economics, University of Algarve.

Libor Prudký is an associate professor at the Faculty of Humanities, Charles University, Prague, the Czech Republic.

Michaela Šmídová is a researcher at the Centre for Higher Education Studies, Prague, the Czech Republic.

Markku Sotarauta is Professor of Regional Development Studies in the Faculty of Management at the University of Tampere, Finland.

Elvira Uyarra is Senior Lecturer in Innovation Management and Policy at Alliance Manchester Business School (University of Manchester).

Preface

The cliché is that science is a team game, with the result being more important than the individual who scores the goal. However, all of us in science know that we are all under immense pressure to perform as individuals. We are measured, monitored and managed as individuals, whilst the business of creating interesting and useful new knowledge is a collective affair. It has therefore been a great privilege to work as part of a dynamic, enthusiastic and dedicated group of scholars who are keen to explore the roles of universities in peripheral regions. Although ultimately it is my name that stands on the cover as editor, in this preface I wish to draw attention to and recognise the contribution of participants in our wider scholarly community that have made this volume possible.

This book reports results coming out of the PERIF-EU project, a collaboration between Agderforskning in Norway and a number of higher education research centres in the Czech republic. Many thanks are due to Rómulo Pinheiro, senior researcher at Agderforskning, for acquiring and overseeing the project and supporting my participation in the project through AE. The project was a fascinating opportunity to concentrate on truly peripheral regions, and the core set of case studies was sufficiently exciting to help enrol a list of other researchers with their own cases to contribute to this volume. The research leading to these results has received funding from the Norwegian Financial Mechanism 2009–2014 and the Czech Republic's Ministry of Education, Youth and Sports under Project Contract no. MSM-T-5397/2015. I am a very demanding editor to work with, and I'd like to thank all the authors in this volume for their willingness to submit to my dictates as well as their patience as I suffered with RSI over the summer of 2017.

A word of thanks is certainly due to the publishers, Routledge, and in particular their dedicated staff on the Regions and Cities series who worked with me on this volume, namely Lisa Lavelle, Emily Kindleysides, Elanor Best and Natalie Tomlinson. This is my fourth volume in this series, something that reflects the great enthusiasm and support they provide their editors with, at a time when academic publishers are increasingly driven by profits rather than the nurturing of new ideas. It has been a great pleasure to work with them on this volume, and I hope to continue this relationship into the future.

The last year has also seen some rather unpleasant shocks. One year ago we received the unexpected news of the passing of Professor Susan Christopherson, editor of this series. She has been a great inspiration to all of us in the field of economic geography, and made a number of leading contributions to debates around innovation, universities and uneven development. As we were finalising the volume, we were also told of the untimely death of our colleague on the PERIF project Olga Šmídová. Although she was not a contributor directly to this volume, she was an enthusiastic participant in the project meetings and the email discussions in which the ideas presented in this volume emerged. Our thoughts have been with those nearest and dearest to Olga and Susan, and they are being sorely missed by us both professionally but also personally.

Finally, an acknowledgement is also due to Martha Barbara. When I submitted the proposal on 17 October 2016 to the publisher from the Coffee Bar in C pier of Schiphol en route to Lisbon for a meeting of the Forskningsrådet-funded Digitalize or Die project, we hoped that we'd not be seeing you for another six weeks. But you popped out at the end of the week, and thankfully you have grown as rapidly as the manuscript. Your growth has been an inspiration to me as I have sought to finalise this volume and I am delighted to have both a healthy happy daughter and my long-dreamed-of volume on universities and regional development in the periphery. The making of this volume was inextricably bound up with you, and for that reason, I dedicate this volume to you, Martha Barbara Benneworth.