



UNITED NATIONS
UNIVERSITY

UNU-MERIT

Working Paper Series

#2016-048

**River deep, mountain high: Of long-run knowledge trajectories
within and between innovation clusters**

Önder Nomaler and Bart Verspagen

Maastricht Economic and social Research institute on Innovation and Technology (UNU-MERIT)

email: info@merit.unu.edu | website: <http://www.merit.unu.edu>

Maastricht Graduate School of Governance (MGSoG)

email: info-governance@maastrichtuniversity.nl | website: <http://www.maastrichtuniversity.nl/governance>

Boschstraat 24, 6211 AX Maastricht, The Netherlands

Tel: (31) (43) 388 44 00

UNU-MERIT Working Papers

ISSN 1871-9872

**Maastricht Economic and social Research Institute on Innovation and Technology
UNU-MERIT**

**Maastricht Graduate School of Governance
MGSoG**

UNU-MERIT Working Papers intend to disseminate preliminary results of research carried out at UNU-MERIT and MGSoG to stimulate discussion on the issues raised.



The UNU-MERIT Working Paper Series

- 2016-01 *Mexican manufacturing and its integration into global value chains* by Juan Carlos Castillo and Adam Szirmai
- 2016-02 *New variables for vocational secondary schooling: Patterns around the world from 1950-2010* by Alison Cathles
- 2016-03 *Institutional factors and people's preferences in social protection* by Franziska Gassmann, Pierre Mohnen & Vincenzo Vinci
- 2016-04 *A semi-endogenous growth model for developing countries with public factors, imported capital goods, and limited export demand* by Jan Simon Hallonsten and Thomas Zieseemer
- 2016-05 *Critical raw material strategies in different world regions* by Eva Barteková and René Kemp
- 2016-06 *On the value of foreign PhDs in the developing world: Training versus selection effects* by Helena Barnard, Robin Cowan and Moritz Müller
- 2016-07 *Rejected Afghan asylum seekers in the Netherlands: Migration experiences, current situations and future aspirations*
- 2016-08 *Determinants of innovation in Croatian SMEs: Comparison of service and manufacturing firms* by Ljiljana Bozic and Pierre Mohnen
- 2016-09 *Aid, institutions and economic growth: Heterogeneous parameters and heterogeneous donors* by Hassen Abda Wakoy
- 2016-10 *On the optimum timing of the global carbon-transition under conditions of extreme weather-related damages: further green paradoxical results* by Adriaan van Zon
- 2016-11 *Inclusive labour market: A role for a job guarantee scheme* by Saskia Klosse and Joan Muysken
- 2016-12 *Management standard certification and firm productivity: micro-evidence from Africa* by Micheline Goedhuys and Pierre Mohnen
- 2016-13 *The role of technological trajectories in catching-up-based development: An application to energy efficiency technologies* by Sheng Zhong and Bart Verspagen
- 2016-14 *The dynamics of vehicle energy efficiency: Evidence from the Massachusetts Vehicle Census* by Sheng Zhong
- 2016-15 *Structural decompositions of energy consumption, energy intensity, emissions and emission intensity - A sectoral perspective: empirical evidence from WIOD over 1995 to 2009* by Sheng Zhong
- 2016-16 *Structural transformation in Brazil, Russia, India, China and South Africa (BRICS)* by Wim Naudé, Adam Szirmai and Nobuya Haraguchi
- 2016-17 *Technological Innovation Systems and the wider context: A framework for developing countries* by Hans-Erik Edsand
- 2016-18 *Migration, occupation and education: Evidence from Ghana* by Clotilde Mahé and Wim Naudé
- 2016-19 *The impact of ex-ante subsidies to researchers on researcher's productivity: Evidence from a developing country* by Diego Aboal and Ezequiel Tacsir
- 2016-20 *Multinational enterprises and economic development in host countries: What we know and what we don't know* by Rajneesh Narula and André Pineli
- 2016-21 *International standards certification, institutional voids and exports from developing country firms* by Micheline Goedhuys and Leo Sleuwaegen

- 2016-22 *Public policy and mental health: What we can learn from the HIV movement* by David Scheerer, Zina Nimeh and Stefan Weinmann
- 2016-23 *A new indicator for innovation clusters* by George Christopoulos and Rene Wintjes
- 2016-24 *Including excluded groups: The slow racial transformation of the South African university system* by Helena Barnard, Robin Cowan, Alan Kirman and Moritz Müller
- 2016-25 *Fading hope and the rise in inequality in the United States* by Jo Ritzen and Klaus F. Zimmermann
- 2016-26 *Globalisation, technology and the labour market: A microeconomic analysis for Turkey* by Elena Meschi, Erol Taymaz and Marco Vivarelli
- 2016-27 *The affordability of the Sustainable Development Goals: A myth or reality?* By Patima Chongcharoentanawat, Kaleab Kebede Haile, Bart Kleine Deters, Tamara Antoinette Kool and Victor Osei Kwadwo
- 2016-28 *Mimetic behaviour and institutional persistence: a two-armed bandit experiment* by Stefania Innocenti and Robin Cowan
- 2016-29 *Determinants of citation impact: A comparative analysis of the Global South versus the Global North* by Hugo Confraria, Manuel Mira Godinho and Lili Wang
- 2016-30 *The effect of means-tested social transfers on labour supply: heads versus spouses - An empirical analysis of work disincentives in the Kyrgyz Republic* by Franziska Gassmann and Lorena Zardo Trindade
- 2016-31 *The determinants of industrialisation in developing countries, 1960-2005* by Francesca Guadagno
- 2016-32 *The effects of productivity and benefits on unemployment: Breaking the link* by Alessio J. G. Brown, Britta Kohlbrecher, Christian Merkl and Dennis J. Snower
- 2016-33 *Social welfare benefits and their impacts on labour market participation among men and women in Mongolia* by Franziska Gassmann, Daphne François and Lorena Zardo Trindade
- 2016-34 *The role of innovation and management practices in determining firm productivity in developing economies* by Wiebke Bartz, Pierre Mohnen and Helena Schweiger
- 2016-35 *Millennium Development Goals (MDGs): Did they change social reality?* by Janyl Moldaliev, Arip Muttaqien, Choolwe Muzyamba, Davina Osei, Eli Stoykova and Nga Le Thi Quynh
- 2016-36 *Child labour in China* by Can Tang, Liqiu Zhao, Zhong Zhao
- 2016-37 *Arsenic contamination of drinking water and mental health* by Shyamal Chowdhury, Annabelle Krause and Klaus F. Zimmermann
- 2016-38 *Home sweet home? Macroeconomic conditions in home countries and the well-being of migrants* by Alpaslan Akay, Olivier Bargain and Klaus F. Zimmermann
- 2016-39 *How do collaboration and investments in knowledge management affect process innovation in services?* by Mona Ashok, Rajneesh Narula and Andrea Martinez-Noya
- 2016-40 *Natural disasters and human mobility* by Linguère Mously Mbaye and Klaus F. Zimmermann
- 2016-41 *The chips are down: The influence of family on children's trust formation* by Corrado Giulietti, Enrico Rettore and Sara Tonini
- 2016-42 *Diaspora economics: New perspectives* by A.F. Constant and K.F. Zimmermann
- 2016-43 *Entrepreneurial heterogeneity and the design of entrepreneurship policies for economic growth and inclusive development* by Elisa Calza and Micheline Goedhuys

- 2016-44 *Gini coefficients of education for 146 countries, 1950-2010* by Thomas Ziesemer
- 2016-45 *The impact of rainwater harvesting on household labor supply* by Raquel Tsukada
Lehmann and Christian Lehmann
- 2016-46 *The impact of piped water supply on household welfare* by Raquel Tsukada and
Degol Hailu
- 2016-47 *The impact of household labor-saving technologies along the family life cycle* by
Raquel Tsukada and Arnaud Dupuy
- 2016-48 *River deep, mountain high: Of long-run knowledge trajectories within and between
innovation clusters* by Önder Nomaler and Bart Verspagen