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TABLE OF CONTENTS

Preface	4
Method for the Mapping	5
Analysis of Key Research Themes	6
General Observations	8

Profile Descriptions

Aalborg University	10
Department of Architecture, Design and Media Technology	10
Department of Business and Management – Centre for Industrial Production	11
Department of Business and Management – Entrepreneurship and Organizational Behavior	11
Department of Business and Management – Innovation, Knowledge and Economic Dynamics	12
Department of Development and Planning	14
Aarhus University	16
Department of Management	16
Department of Economics and Business	17
Copenhagen Business School	18
Department of Business and Politics	18
Department of Innovation and Organizational Economics	19
Roskilde University	22
Department of Communication, Business and Information Technologies	22
Department of Environmental, Social and Spatial Change	23
University of Copenhagen	24
Department of Geosciences and Natural Resource Management; Section for Geography	24
University of Southern Denmark	26
Department of Border Region Studies	26
Department of Entrepreneurship and Relationship Management	27
Department of Marketing and Management	29
Other Individuals with a Research Degree	30
Research Networks	30

PREFACE

Cluster Excellence Denmark is the national support function for clusters and innovative networks in Denmark. The objective of Cluster Excellence Denmark is to develop and provide a number of services for Danish clusters and innovative networks in order to ensure optimum working conditions. By means of competence development and internationalization, and by assisting the clusters and networks on operational and administrative tasks, Cluster Excellence Denmark aims to make it easier for the clusters and networks to focus on matchmaking and networking nationally and internationally.

The support function is structured in seven activity areas (see below). The areas of professionalization, competence development and internationalization are prioritized.

- Coordination of Cluster Excellence Denmark
- Knowledge Development/Sharing
- Professionalization
- Competence Development
- · Marketing and Branding
- Internationalization
- Analysis

Within the area of knowledge development/sharing, Cluster Excellence Denmark has the aim of strengthening the knowledge base about clusters. As an initial step in this effort, one of the activities in 2015 is to map academic research on clusters in Denmark – identifying key individuals/institutions/ universities conducting "cluster-related" research.¹ The mapping will also highlight key themes of cluster research.

Cluster Excellence Denmark has contracted Dr. Emily Wise to conduct the mapping. Emily has her own consultancy firm (Innovation and Entrepreneurship Consulting – IEC) and is a Research Fellow at Lund University in Sweden. Emily has worked with innovation and cluster policy research since 2003 - providing advisory input, analysis and evaluation services to the EU Commission, to transnational innovation network programmes (primarily in the Baltic Sea Region), as well as to national and regional innovation/business development agencies.

This initial mapping will serve as an input to understanding the cluster research landscape in Denmark, and can be used to e.g. highlight existing fields of research strength, identify areas of potential collaboration (between Danish universities or internationally), or detect research that can be used in ongoing cluster development or policymaking processes. The mapping will be further developed in future years – driven by actors' demands and guidance from Cluster Excellence Denmark's advisory board and steering committee.

Although the process has involved several rounds of consultations with the research community, we realize that this mapping is not exhaustive. If you – or someone you know – should be included in this list, please contact Bolette van Ingen Bro at Cluster Excellence Denmark (Tel: +45 2811 1819; Email: bob@clusterexcellencedenmark.dk) so that these names can be included in next year's mapping.

Happy reading!

 ¹ The mapping will have a similar structure and substance as the mapping of Danish research in regional development (2014)
 see: www.reglab.dk/media/47721/reg_lab_overblik_2014_03.pdf

METHOD FOR THE MAPPING

This first "mapping of academic research on clusters in Denmark" aims to be an initial overview of institutions and individuals conducting research related to clusters. This mapping is focused on academic research (i.e. research published in academic journals, books, etc. and/or conducted by individuals with a PhD), and does not include (a large bulk of) research or analytical work on clusters conducted outside of academia.

The mapping has deliberately taken a broad approach in defining search parameters, research topics and filters for being included on the list. This was done in order to highlight a broad range of relevant individuals. All of the individuals on the list may not currently conduct cluster research, or may conduct research in fields that may be understood as more indirectly relevant to clusters.

Mappings in future years may have more strict requirements on research topics, numbers of publications, etc.

In the **first phase** of the mapping, an initial group of cluster researchers was identified using two approaches:

- A search of academic publications (Thomson Reuters Web of Science), using the following search parameters:
 - Publication date: 2005-2015
 - Author's address: Denmark
 - Topic:
- c: Clusters, Cluster development, Business clusters, Innovation networks, Regional development

2. An email to Susana Borrás, Bjarne Jensen and Jakob Stoumann requesting identification of "key cluster researchers", meeting the following parameters:

 Author of an academic publication (journal article, book/book chapter, or conference article) related to clusters

- Published in last 10 years
- Currently affiliated with a Danish university

The email also requested them to identify any other individuals with research degrees (a PhD) who did not fit the above parameters but who they felt were relevant to include in the mapping (listing them separately).

The first phase resulted in a list of 16 names from various departments within 5 universities, and two additional individuals. After consultation with Cluster Excellence Denmark, four additional names (and one additional university) were added to the list.

In a **second phase**, this initial group of cluster researchers was contacted and asked to submit additional names meeting the given parameters (or other individuals with a research degree who they felt were relevant to include).

Individuals could also "opt out" of the list if they did not feel they were relevant.

This "snowball method" resulted in an additional 15 names being added to the list, and two being removed. After removing names of individuals without a PhD, the resulting list included 34 names – 32 from 15 different institutions/departments at 6 universities, and 2 additional individuals. Additional names were suggested in late phases of the mapping exercise. These individuals have not been included in the mapping this year, but will be considered in next year's exercise.

The descriptive profiles are grouped by department/ institution – listed in alphabetic order by university in part two of this report. Individual profiles, which include a brief description of research focus areas and selected publications, are listed by academic title (Professor, Associate Professor, Assistant Professor) and then alphabetically.

ANALYSIS OF KEY RESEARCH THEMES

Based on the focus areas included in the individual researcher profiles (see part two of this report) and supplemented by key words from publications, a number of research themes can be identified. Most of these research themes address the topic of clusters in an indirect manner. That is to say that the study of clusters is most often embedded in a broader research theme. Many of the research themes are inter-related, and the large majority of researchers are active in multiple themes. The two most "popular" research themes (i.e. themes where most researchers are active) are:

 Inter-organizational learning and collaboration, networks, and social network analysis

This research theme encompasses the study of innovation/innovation systems and interactive learning processes, as well as the study of organizational structures and network relationships.

- Economic geography and industrial economics This research theme encompasses the study of the location and spatial organization of economic activities and specialization (economic geography), and how these impact economic performance, regional development and competitiveness.

The next three research themes are very closely related to those above:

- Innovation management and organizational economics

This research theme encompasses elements of the two themes listed above, studying the organization of innovation processes and impacts on (firm) performance.

- Globalization of innovation

This research theme encompasses the study of global value chains, the inter-relation between local and global knowledge flows and innovation processes.

- Industrial and cluster dynamics

This research theme focuses on the study of the formation, development, internal dynamics/ relations, and evolution (and decline) of clusters... and its relation to industry dynamics/evolution of industries.

The remaining research themes are also related to the first two (key) research themes, yet have a more narrow focus on particular questions:

- Labour mobility and economic dynamism
 This research theme focuses on the study of diversity of employee skills, individual networks and labour mobility – and their relation to cluster/industrial dynamics.
- **Open and user-driven innovation, and design** This research theme encompasses the study of open innovation approaches (including inter-organizational innovation processes), as well as the study of the relation between design/creativity and innovation.



Innovation policy and governance

This research theme focuses on the role of public institutions/public sector within collaborative innovation processes, as well as impacts on innovation policy.

- SMEs and entrepreneurship

This research theme focuses on the perspective of SMEs and entrepreneurs – and how interactive learning through networks and clusters affect innovation/performance.

- **Clusterpreneurs and boundary spanning individuals** This research theme focuses on the study of boundary spanning individuals – the role they fulfill, as well as "agency problems" that are experienced. Future mapping exercises could explore how these key research themes in Denmark compare to other geographies to identify thematic orientations of cluster research internationally, and highlight areas of research strength in Denmark (through e.g. citation levels).

GENERAL OBSERVATIONS

Of the 34 cluster researchers included in this mapping, 17 are located within three departments:

- Department of Innovation and Organizational Economics at Copenhagen Business School (with 7 researchers)
- Department of Business and Management Innovation, Knowledge and Economic Dynamics at Aalborg University (with 6 researchers)
- Department of Entrepreneurship and Relationship Management at the University of Southern Denmark (with 4 researchers)

These research groups explore similar research themes (related to innovation and industrial dynamics), and are the organizers of the DRUID (Danish Research Unit for Industrial Dynamics) network.

Outside of these three departments, many researchers (10) are "lone wolves" (i.e. one individual in an institution/department or other organization). Although these cluster researchers may not have the same opportunities for knowledge transfer with/ inspiration from other individuals in the same group, co-authorship with individuals in other departments or from other universities seems to be a norm. International collaboration (particularly with researchers in other Nordic countries) also seems to be relatively strong. A more detailed analysis of collaboration between research groups (within Denmark and internationally) could be explored in future mapping exercises.

As described above, most researchers explore several research themes at the same time. Yet there seems to be somewhat of a division between those researchers focused on the collaborative process of innovation, and those focused on the economic outcomes of these collaborative processes. (There are only a few individuals addressing both of these overall themes.) This observed "division" mirrors the overall challenge of evaluating the overall impacts of cluster/innovation network programmes (which are based on an assumed relation between collaborative innovation activities and stronger economic performance). It would perhaps be beneficial to find ways of leveraging capacity in both of these research themes to pursue common research questions.



AALBORG UNIVERSITY



DEPARTMENT OF ARCHITECTURE, DESIGN AND MEDIA TECHNOLOGY

The **Department for Architecture, Design, and Media Technology** is a multi-campus department with branches in Aalborg, Copenhagen and Esbjerg. The department is unique in the Danish context as it collects disciplines within architecture, design, media and technology – providing the foundation for a powerful new field of knowledge and development of competence within the field of design with a human focus.

The department vision is to utilize and investigate the interplay between creativity and technology for development of new growth areas in research and education, paving the way for new technologies and solutions that take the user experience fully into account. The department has 140 researchers and PhD students and participates in a broad range of national and international projects.

Kristian H. Reinau (khre@create.aau.dk or reinau@ plan.aau.dk), Assistant Professor within the Department of Development and Planning, conducts research on mobility, economic geography, cluster theory, power theory – as well as urban theory, GPS tracking and geographical information systems (GIS). Examples of publications related to clusters include:

- Timmermans, B. and Reinau, K.H. (2014). "Killing Cinderella: A case study on agency problems in distributed R&D". Paper presented at Geography of Innovation Conference, Utrecht, Holland.
- Reinau, K.H. (2011). "Local Clusters in a Globalized World : A Foucauldian analysis of the people in an MNC subsidiary located in a cluster". PhD thesis, Department of Development and Planning, Aalborg University.
- Reinau, K.H. (2010). "High-tech Clusters and Multinational Corporations: Political games and their importance". Abstract from Association of American Geographers Conference, Washington D.C., USA.

DEPARTMENT OF BUSINESS AND MANAGEMENT - CENTRE FOR INDUSTRIAL PRODUCTION

The **Department of Business and Management** is a cross-faculty department linking together The Faculty of Social Sciences and The Faculty of Engineering and Science. The department was formed January 1st 2011 through a merger of The Department of Business Studies and The Center for Industrial Production (CIP). There are 13 research groups or research centers at the department (of which three are included here).

The research and teaching of the department is oriented towards business administration, economics and industrial production including: organization and strategy, accounting, auditing, international business and marketing, economics, innovation, entrepreneurship, operations management and supply chain management. In both teaching and research, the department combines theory and practice and emphasizes collaboration with companies and public sector organizations.

The **Center for Industrial Production (CIP)** was established in 1999 and serves as a national center of excellence in industrial manufacturing. CIP is dedicated to initiating and coordinating research in this area – and to developing the necessary competencies and capabilities to increase the future competitive strength of Danish industry. The research staff at CIP are involved in teaching and supervising undergraduate and graduate students in various engineering degree programmes.

Jan Vang (jan@business.aau.dk), is Associate Professor at the Centre for Industrial Production. His research interests include social network analysis and inter-organizational collaboration, globalization of innovation, SMEs/entrepreneurial companies and the importance of the network configuration for their innovative performance in a global perspective. Recent publications related to clusters and globalized innovation processes include:

- Shayegheh, A., Shayegheh, R., Schøtt, T. and Vang, J. (2014). "Entrepreneurs' human and social capital : Direct and reinforcing benefits for export". In *International Journal of Entrepreneurship and Small Business*, Vol. 21, No. 2, p. 246-267.
- Schøtt, T., Cheraghi, M., Rezaei, S. and Vang, J. (2014), "Innovation embedded in entrepreneurs' networks in private and public spheres : A global study focusing on China and Denmark". In *International Journal of Entrepreneurship and Small Business*, Vol. 23, No. 1/2, p. 145-167.
- Vang, J. And Jakobsen, H. (2013). "The state and creative clusters : Lessons on building a film cluster from scratch". In *International Journal of Business and Globalisation*, Vol. 11, No. 3, p. 310 332.

DEPARTMENT OF BUSINESS AND MANAGEMENT – ENTREPRENEURSHIP AND ORGANIZATIONAL BEHAVIOR

The Entrepreneurship and Organizational Behavior (EOB) research group studies the dynamics of organizations. The main focus is on the relationship between individuals and teams on the one hand, and the organizational dynamics of founding, change and long run competitive performance on the other. This includes studies of demography, population ecology, motivation, personality, health, social networks, diversity and social comparison. Drawing on research from economics, psychology and sociology, this group is dedicated to enhancing a cross-disciplinary understanding of organizations, how individuals affect them, and how individuals are affected by the dynamics within and between organizations.

Michael S. Dahl (md@business.aau.dk) is a Professor of the Economics of Entrepreneurship and Organizations. His research focuses on broad issues related to the organization and performance of new

businesses, economic geography, migration, population ecology and health outcomes. This research has been published in journals such as Administrative Science Quarterly, Management Science, Social Forces, Personality and Social Psychology Bulletin, Journal of Urban Economics, Research Policy, and European Management Review. Recent publications related to clusters, collaboration and economic geography include:

- Dahl, M. and Sorenson, O. (2012). "Home Sweet Home: Entrepreneurs' Location Choices and the Performance of their Ventures". In *Management Science*, Vol. 58, No. 6, p. 1059-1071.
- Dahl, M. and Sorenson, O. (2010), "The Social Attachment to Place". In: *Social Forces*, Vol. 89, No. 2, p. 633-658.
- Dahl, M. and Sorenson, O. (2009), "The Embedded Entrepreneur". In: *European Management Review*, Vol. 6, No. 3, p. 172-181.

DEPARTMENT OF BUSINESS AND MANAGEMENT – INNOVATION, KNOWLEDGE AND ECONOMIC DYNAMICS

The Innovation, Knowledge and Economic Dynamics (IKE) research group was established in 1977 and gradually evolved into a long-term research program in innovation and industrial dynamics. The focus of the research group is on innovation, knowledge and economic dynamics at different levels of aggregation: the firm level, the industry level, the macro level, and different geographic levels of aggregation. Common for the approach is that economic development is seen as knowledge driven and that knowledge creation and innovation are seen as reflecting processes of interactive learning within systemic frameworks. These contextual features of different sectors, geographical localities and firms - and the institutions within them defining the rules, norms and behaviours of actors - are seen as decisive for an appropriate understanding of how innovation is developed, disseminated and used in the economy.

The context, or innovation system, is viewed broadly, thus spanning wider than the traditional triple helix model. Several IKE-members are actively engaged in policy discussions and take part in different phases of policy making processes. Additionally, the IKE group has a long tradition of interaction with leading universities from all over the world.

Poul Houmann Andersen (poa@business.aau.dk) is Professor at IKE, and PhD Coordinator within the Department of Business and Management. His research focus is on business marketing, innovation, supplier relationships and strategies, inter-organizational coordination, and globalization of value chains. Recent publications related to globalization and inter-organizational collaboration include:

- Andersen, P., and Bøllingtoft, A. (2011). "Cluster-based global firms' use of local capabilities".
 In: *Management Research Review*, Vol. 34, No. 10, p. 1087-1106.
- Andersen, P., Christensen, P.R., and Damgaard, T. (2009). "SMEs global sourcing and relationship norms". In: *Industrial Marketing Management*. Vol. 38, No. 7, p. 814-824.
- Andersen, P. (2008). "Knowledge versus learning in internationalization: The case of offshoring".
 In: *Journal of Engineering and Technology Management*. Vol. 25, No. 3, p. 184-199.
- Andersen, P. and Drejer, I. (2008). "Systemic Innovation in a Distributed Network: The case of Danish Wind Turbines, 1972-2007". In: *Strategic Organization*. Vol. 6, p. 13-46.

Jesper L. Christensen (jlc@business.aau.dk) is Associate Professor and Manager of the Centre for Regional Development Studies. His research interests are in the areas of business economics, innovation finance, innovation and economic geography. Recent publications related to clusters include:

- Christensen, J.L. and Stoerring, D. (2012). "Facilitating Cluster Evolution in Peripheral Regions: The Role of Clusterpreneurs". In *Interactive Learning for Innovation: A Key Driver within Clusters and Innovation Systems* ed. Bjørn Asheim and M. Davide Parrilli. Palgrave Macmillan, Basingstoke, UK, p. 137-160.

- Christensen, J.L., Dahl, M., Eliasen, S.Q., Nielsen, R.N. and Østergaard, C.R. (2011). "Patterns and Collaborators of Innovation in the Primary Sector: A Study of the Danish Agriculture, Forestry and Fishery Industries". In *Industry and Innovation*, Vol. 18, No. 2, p. 203-225.
- Christensen, J.L. (2009). "Low-tech, high-performing clusters in knowledge-based economies".
 Paper presented at International Workshop on Innovation and Learning, San Sebastian, Spain.

Bram Timmermans (bram@business.aau.dk) is currently employed at Agderforskning in Norway, but maintains a 20% affiliation at AAU, where he is Associate Professor at IKE, as well as member of the EOB research group (above). Following his PhD (2010) on the topic of human resources and firm performance, his research interests have focused on topics such as knowledge intensive entrepreneurship and outsourcing and offshoring. Current research activities are within the fields of innovation studies, entrepreneurship, industrial dynamics and labor mobility. Recent publications related to inter-organizational knowledge flows include:

- Timmermans, B. and Reinau, K.H. (2014). "Killing Cinderella: A case study on agency problems in distributed R&D". Paper presented at Geography of Innovation Conference, Utrecht, Holland.
- Timmermans, B. and Boschma, R. (2014). "The effect of intra- and interregional labour mobility on plant performance in Denmark: The significance of related labour inflows". In *Journal of Economic Geography*, Vol. 14, No. 2, p. 289-311.
- Østergaard, C.R., Timmermans, B. And Kristinsson, K. (2011). "Does a different view create something new? The effect of employee diversity

on innovation". In *Research Policy*, Vol. 40, No. 3, p. 500-509.

Christian R. Østergaard (cro@business.aau.dk) is Associate Professor of Economics, Innovation and Regional Development. He is member of DRUID Executive Committee as the organizer of the yearly DRUID Academy PhD. conference (see druid.dk). His current research activities focus on how offshoring affects firms' innovative performance; the link between employee diversity and innovation; the evolution of industries and regional industrial clusters; decline and resilience of regional clusters; mobility of people from companies that close down. Recent publications related to clusters:

- Østergaard, C.R. and Park, E.K. (2015). "What Makes Clusters Decline? A Study on Disruption and Evolution of a High-Tech Cluster in Denmark". In *Regional Studies*, Vol. 49, No. 5, p. 834-849.
- Østergaard, C.R. and Park, E.K. (2013). "Knowledge intensive entrepreneurship from firm exit in a high-tech cluster: The case of the wireless communications cluster in Aalborg, Denmark". In: eds. McKelvey, M. and Lassen, A. H. How Entrepreneurs Do What They Do: Case Studies of Knowledge Intensive Entrepreneurship, Edward Elgar Publishing, Incorporated.
- Dahl, M., Østergaard, C.R. and Dalum, B. (2010).
 "Emergence of regional clusters: the role of spinoffs in the early growth process". In: *The Handbook of Evolutionary Economic Geography*, eds. Boschma, R, and Martin, R. Cheltenham, UK: Edward Elgar Publishing, p. 205-221.
- Østergaard, C.R. (2009). "Knowledge flows through social networks in a cluster: Comparing university and industry links". In: *Structural Change and Economic Dynamics*, Vol. 20, No. 3, p. 196-210.

Gert Villumsen (gv@aub.aau.dk) is Associate Professor at IKE, with research focused on specialization patterns and competitiveness. Publications related to clusters include:

 Dalum, B., Pedersen, C., Østergaard, C.R., and Villumsen, G. (2005), "Technological Life-Cycles: Lessons From a Cluster Facing Disruption". In *European Urban and Regional Studies*, Vol. 12, No. 3, p. 229-246.

Jacob R. Holm (jrh@business.aau.dk) is Assistant Professor at IKE, with research focused on the importance of geography for creative destruction of skills, the importance of policy and institutions for work organization, and evolutionary economic theory. Recent publications related to the geography of specialized competencies include:

 Holm, J.R. and Østergaard, C.R. (2015). "Regional al Employment Growth, Shocks and Regional Industrial Resilience : A Quantitative Analysis of the Danish ICT Sector". In *Regional Studies*, Vol. 49, No. 1, p. 95-112.

- Holm, J.R., Østergaard, C.R. and Olesen, T.R. (2014). "Destruction and Reallocation of Skills Following Large Company Exit". Paper presented at DRUID Society Conference 2014, Copenhagen, Denmark.
- Drejer, I., Holm, J.R. and Dam, K. (2014). "The geographical mobility of recently graduated medical doctors". Paper presented at "Beyond spillovers?" Conference, Kassel, Germany.

DEPARTMENT OF DEVELOPMENT AND PLANNING

The Department of Development and Planning

includes development and planning in a broad sense, and thereby it reaches from the social science aspects of development (technological, environmental, international and administrative aspects), to physical planning, sector planning, land management, and to technical subjects such as road engineering, road safety, surveying and mapping. The department belongs to the Faculty of Engineering and Science. Within the Department, there are seven research centers within the areas



of: spatial planning; environmental assessment; health informatics; innovative fisheries management; design, innovation and sustainable transition; problem-based learning; and blue governance.

Søren Kerndrup (soeren@plan.aau.dk) is Associate Professor within the Department of Development and Planning, within the field of sustainability, innovation and policy. His research focuses on networks in regions, and regional entrepreneurialism. Recent publications related to clusters and innovation networks (and sustainability) include:

 Mosgaard, M., Riisgaard, H., and Kerndrup, S. (2014). "Light Island Ferries in Scandinavia : A Case of Radical Eco-innovation". In: *Eco-Innovation and the Development of Business Models: Lessons from Experience and New Frontiers in Theory and Practice*. ed. Susana Garrido Azevedo; Marcus Brandenburg; Helena Carvalho; Virgílio Cruz-Machado. Vol. 2 Springer Publishing Company, p. 275-295. (Greening of Industry Networks Studies, Vol. 2).

- Lehmann, M., Kerndrup, S., Smink, C., and Mosgaard, M. (2009). "Green Networks: 15 Years of Danish Experience". In *Joint Actions on Climate Change: Conference Proceedings* ed. Rikke Dorothea Andersen; Martin Lehman. Institut for Samfundsudvikling og Planlægning, Aalborg Universitet, p. 219-220.
- Lehmann, M., Kerndrup, S., Smink, C., and Mosgaard, M. (2007). "Klynger : et paradoks i en globaliseret verden". In *Det Kongelige Danske Geografiske Selskabs årsskrift for 2007* ed. Malene Kauffmann Hansen; Ole Mertz. København : Det Kongelige Danske Geografiske Selskab, p. 55-57.
- Kerndrup, S. (2005). "Transformation of regional clusters". In *Regional growth agendas: conference abstract* volume: 28-31. May 2005, Aalborg University, Denmark. Regional Studies Association, p. 111-112.

AARHUS UNIVERSITY



DEPARTMENT OF MANAGEMENT

The Department of Management is part of Aarhus School of Business and Social Sciences, one of the four faculties at Aarhus University. The department employs approximately 120 researchers, PhD students, research associates and 14 administrative staff. The Department of Management teaches and carries out research on management and marketing – with an international focus. Within the Department, there are nine research groups within the areas of: business-to-business marketing management; entrepreneurship (iCARE); innovation management; information systems; management and leadership; customer relations in the food sector; marketing and sustainability; quantitative analytics; and organizational behavior and strategy.

Lars Frederiksen (l.frederiksen@badm.au.dk) is Professor and Head of the Innovation Management Research Group within the Department of Management. Lars specializes in the management of innovation and technology with particular emphasis on innovation strategies, knowledge creation and search, entrepreneurship, user innovation, social networks and communities, idea management, and capability development in project-based organizations. Recent work related to open innovation includes:

- Van den Ende, J., Frederiksen, L., and Prencipe,
 A. (2014)."The front end of innovation: Organizing search for ideas". In *Journal of Product Innovation Management*.
- Hellerstedt, K., Wennberg, K., & Frederiksen, L.
 (2014). "University Knowledge Spillovers and Regional Start-up Rates: Supply and Demand-side Factors". In: Academic Entrepreneurship: Creating an Entrepreneurial Ecosystem (Advances in Entrepreneurship, Firm Emergence and Growth, Volume 16) Emerald Group Publishing Limited, 16, p. 137-168.

- Autio, E., Dahlander, L., & Frederiksen, L. (2013).
 "Information exposure, opportunity evaluation, and entrepreneurial action: An investigation of an online user community". In: *Academy of Management Journal*, Vol. 56, No. 5, p. 1348-1371.
- Dahlander, L. and Frederiksen, L. (2012). "The core and cosmopolitans : A relational view of innovation in user communities". In *Organization Science*, Vol. 23, No. 4, p. 988-1007.

DEPARTMENT OF ECONOMICS AND BUSINESS

The Department of Economics and Business Economics is part of Aarhus School of Business and Social Sciences, one of the four faculties at Aarhus University. The department employs approximately 140 academic staff and 70 PhD students. The Department teaches and carries out research into microeconomics, macroeconomics, econometrics, finance and accounting, as well as operations research. The department has a strong international focus in its research and degree programmes.

Philipp Schröder (psc@econ.au.dk) is Professor within the Department of Economics and Business Economics and is Director of the Tuborg Research Centre for Globalization and Firms. His research addresses the topics of: International economics, Industrial economics, Globalization, European economic integration, Transition economics, Public economics and green regulation, and Economics of open source software. Recent publications related to international knowledge spillovers and globalization:

- Dilling-Hansen, M., Madsen, E.S., Schröder, P., Smith, V. (2010). "Export performance and Investment in R&D". Paper presented at EARIE Conference, Istanbul, Turkey.
- Kure, N., Nørreklit, H., Linneberg, M.S., Schröder,
 P. (2010). "The local construction of the researcher in the global context of performance culture".

Paper presented at EGOS 2010 Colloquium, Lissabon, Portugal.

 Schröder, P., Görg, H., Bitzer, J. (2007). "International outward knowledge spillovers : A follow-up on Samuelson's controversial paper". Paper presented at EEA/ESAM, European Economic Association, Annual Conference, Budapest, Hungary

COPENHAGEN BUSINESS SCHOOL



DEPARTMENT OF BUSINESS AND POLITICS

The Department of Business and Politics (DBP) is one of 15 departments at Copenhagen Business School, and focuses on the institutional challenges presented to us regularly due to the interaction between business and society. DBP was established 1st of January 2011 by turning the International Center for Business and Politics (CBP) into a department, and currently has more than 50 staff (including more than 10 PhD students) and 17 scholars from Europe, North America, Asia and Australia who are affiliated with the Department as visiting professors to maintain a constant dialogue with leading international researchers.

Susana Borrás (sb.dbp@cbs.dk) is Professor and Head of the Department of Business and Politics. She conducts research on the interaction between governments and innovation. As a social scientist expert on public policy, two of her leading questions are, what governments can do to foster and to improve socio-technical innovation in the economy, and what makes some decisions regarding socio-technical and innovation change to be democratically legitimate and others not. Her main attention is in the European Union, both at the supra-national level as well as national and local (cluster) levels. In particular she studies the complex interactions between public and private realms, which have been recently called 'new modes of governance'. Publications related to innovation governance, global innovation networks and clusters include:

- Borrás, S. and Seabrooke, L. (editors) (2015).
 Sources of National Institutional Competitiveness: Sensemaking in Institutional Change. Oxford: Oxford University Press 2015, 208 pages.
- Borrás, S. and Edler, J. (editors) (2014). The Governance of Socio-Technical Systems: Explaining Change. Cheltenham: Edward Elgar Publishing, Incorporated 2014, 232 pages. (EU-SPRI Forum

on Science, Technology and Innovation Policy)

- Borrás, S. and Haakonsson, S. (2011). "The Impact of Global Innovation Networks in National Systems: The Case of Danish Food Industry". In: *Global Innovation Networks: Challenges and Opportunities for Policy*. ed. Susana Borrás. Brussels: European Commission 2011, p. 99-120. (INGINEUS Project Deliverables, No. D10.1)
- Borrás, S. and Tsagdis, D. (2008). Cluster Policies in Europe: Firms, Institutions and Governance. Cheltenham: Edgar Elgar publishing.

DEPARTMENT OF INNOVATION AND ORGANIZATIONAL ECONOMICS

The Department of Innovation and Organizational Economics (INO) is a strategy-oriented department focused on researching the development of society's economic organization – i.e. how and why activities are organised in markets, companies, industries and other "institutions". INO has a number of research projects related to various aspects of open innovation, and has already achieved high standing in this research topic. The department has a total staff of some 40 people, including 10 full professors and about 13 assistant/associate professors. The group of researchers is not only highly qualified (evidenced by both publications and review activities), but also very collaborative. This pertains to internal support and co-authorships, as well as to external relations to prominent international researchers.

Keld Laursen (kl.ino@cbs.dk), Professor, conducts research on localized social capital, researcher mobility, external partner search and collaboration – and their relation to innovation. He is an editor of Research Policy and the Program Chair of the Academy of Management's Technology Innovation Management Division. Recent publications related to clusters and collaborative innovation processes include:

- Laursen, K., Masciarelli, F. and Reichstein, T. (forthcoming). "A Matter of Location: The Role of Regional Social Capital in Overcoming the Liability of Newness in R&D Acquisition Activities". In: *Regional Studies*.
- Laursen, K. and Salter, A. (2014). "The Paradox of Openness: Appropriability, External Search and Collaboration". In *Research Policy*, Vol. 43, No. 5, p. 867-878.
- D'Agostino, L.M., Laursen, K. and Santangelo, G. (2013). "The impact of R&D offshoring on the home knowledge production of OECD investing regions". In: Journal of Economic Geography, Vol. 13, No. 1, p. 145-175.
- Laursen, K., Masciarelli, F. and Prencipe, A.
 (2012). "Regions matter: how localized social capital affects external knowledge acquisition and innovation". In: *Organization Science*. Vol. 23, No. 1, p. 177-193.

Mark Lorenzen (mark@cbs.dk) is Professor of Innovation, Entrepreneurship and Industrial Dynamics. His research is in the field of industrial dynamics, with a special focus on the relationships between innovation and the economic organization of the market in networks, projects, and clusters – currently within the creative industries. He is director of DRUID and editor-in-chief emeritus of *Industry and Innovation*, series editor of the Routledge Studies in Industrial Dynamics, and editor of The Oxford Handbook of Creative Industries. Recent publications related to social capital, clusters and innovation include:

- Lorenzen, M., Maurer, I., and Staber, U. (2012).
 "Space and Inter-Organizational Relations: Introduction". In: *Industry and Innovation*, Vol. 19, No. 3 (6), p. 181-186.
- Lorenzen, M. and Mudambi, R. (2012). "Clusters, Connectivity and Catch-Up: Bollywood and Bangalore in the Global Economy". In: *Journal of Economic Geography*.

- Foss, N. and Lorenzen, M. (2009). "Towards an Understanding of Cognitive Coordination: Theoretical Developments and Empirical Illustrations". In: *Organization Studies*, Vol. 30, No. 11, p. 1201-1226.
- Lorenzen, M. and Andersen. K.V. (2009). "Centrality and Creativity: Does Richard Florida's Creative Class Offer New Insights Into Urban Hierarchy?". In: *Economic Geography*, Vol. 85, No. 4, p. 363-390.

Peter Maskell (pm.ino@cbs.dk), Professor, conducts research in the fields of: Innovation, Industrial Organization and Dynamics; Economic Geography, Location Economics; Inter-firm Cooperation and Market Forms; Institutional Evolution and Competitiveness; and Global knowledge pipelines and the role of clusters. Recent publications related to global knowledge pipelines and clusters include:

- Maskell, P. (2015). "Accessing Remote Knowledge: The Roles of Trade Fairs, Pipelines, Crowdsourcing and Listening Posts". In: *Temporary Knowledge Ecologies: The Rise of Trade Fairs in the Asia-Pacific Region*. ed. Harald Bathelt; Gang Zeng. Cheltenham: Edward Elgar Publishing, Incorporated, p. 19–41.
- Malmberg, A. and Maskell, P. (2010). "An Evolutionary Approach to Localized Learning and Spatial Clustering". In: *The Handbook of Evolutionary Economic Geography*. ed. Ron Boschma; Ron Martin. Cheltenham, UK: Edward Elgar Publishing, Incorporated, p. 391-405.
- Maskell, P. and Malmberg , A. (2009). "Localised Learning and Industrial Competitiveness". In: *Learning by Populations of Organizations: Organizational Learning and Knowledge Management*. ed. William H. Starbuck; Suzanne G. Tilleman. Cheltenham: Edward Elgar Publishing, Incorporated, p. 406-424. (The International Library of Critical Writings on Business and Management, No. 9)
- Maskell, P. (2008). "Towards a Knowledge-based Theory of the Geographical Cluster". In: *Economy: Critical Essays in Human Geography*. ed. Ron

Martin. Aldershot: Ashgate, p. 377-399. (Contemporary Foundations of Space and Place)

Thomas Rønde (thr.ino@cbs.dk) is Professor in innovation and entrepreneurship. His primary research interests are innovation, organizational economics, and competition policy. Thomas is also Chief Economist at the Danish Competition and Consumer Authority. Recent publications related to knowledge spillovers and innovation include:

- Kaiser, U., Kongsted, H.C., and Rønde, T. (2015).
 "Does the mobility of R&D labor increase innovation?" In: *Journal of Economic Behavior and Organization*, February 2015, 110, p. 91–105.
- Gerlach, H., Rønde, T. and Stahl, K. (2009). "Labor Pooling in R&D Intensive Industries". In: *Journal of Urban Economics*, Vol. 65, No. 1, p. 99-111.

Finn Valentin (fv.ino@cbs.dk) is Professor and Director of the Research Centre on Biotech Business. His research focuses on interactive learning and innovation (as applied within biotech). Recent publications include:

- Lauto, G. and Valentin, F. (2013). "How Large-Scale Research Facilities Connect to Global Research". In: *Review of Policy Research*, Vol. 30, No. 4, p. 381-408.
- Alkærsig, L. and Valentin, F. (2013). "The Enabling Effect of Interaction with Clinical Researchers in Life Sciences." In: *Proceedings of the 2013 EU-SPRI Forum Conference Madrid: EU-SPRI Forum 2013*, 7 pages.
- Alkærsig, L., Beukel, J., Lauto, G., and Valentin,
 F. (2013). "Types of Learning in Complex Technological Innovations". Paper presented at The Academy of Management Annual Meeting 2013,
 Lake Bueno Vista (Orlando), FL, United States.
- Alkærsig, L., Beukel, J., Lauto, G., and Valentin,
 F. (2012). "Not all Technology Combinations are Created Equal: How Technological Rarity Increas-

es Innovation Value". Paper presented at The DRUID Society Conference 2012 on Innovation and Competitiveness, Frederiksberg, Denmark.

Henrik Sornn Friese (hsf.ino@cbs.dk) is Associate Professor and Director of CBS Maritime. His research focuses on: Economic geography of global industries; Configuration of value-creating activities in global industries; Organizational evolution in firms and markets; Networks and inter-firm linkages in the evolution of industries; Developments and dynamics in the international shipping industry and the broader maritime sector. Recent publications related to inter-firm knowledge sharing/collaboration and clusters include:

- Gammelgaard, B., Sornn-Friese, H., Hansen, J., Jessen, M. and Larsen, M. (2013). "Competencies in the Danish Maritime Cluster: A Benchmarking-Analysis". København: Danmarks Maritime Klynge, 124 pages.
- Gammelgaard, B., Sornn-Friese, H. and Kinra, A.
 (2013). "Identifying Opportunities for Public Private Collaboration in Sustaining Maritime Economies: The Case of the Danish Maritime Cluster".
 Paper presented at Global Challenges in PPP, Antwerp, Belgium.

Kristina Vaarst Andersen (kva.ino@cbs.dk) is Assistant Professor at INO. Her research focuses on economic sociology, strategic management, network dynamics and economic geography. Recent publications related to social capital/network dynamics and clusters include:

- Andersen, K.V. and Lorenzen, M. (2014). "Diversity vs Dharma: How Social Capital Increases and Impedes Project Performance in Bollywood". Paper presented at The Academy of Management Annual Meeting 2014, Philadelphia, United States.
- Andersen, K.V., Bugge, M.M., Hansen, H.K., Isaksen, A., and Raunio, M. (2014). "One Size Fits All?:

Applying the Creative Class Thesis to a Nordic Context". In: *The Creative Class Goes Global*. ed. Charlotta Mellander; Richard Florida; Bjørn T. Asheim; Meric Gertler. Abingdon: Routledge, p. 117-137. (Regions and Cities, Vol. 69)

- Andersen, K.V. (2013). "The Problem of Embeddedness Revisited: Collaboration and Market Types". In: *Research Policy*, Vol. 42, No. 1, p. 139–148.
- Lorenzen, M. and Andersen, K.V. (2009). "Centrality and Creativity: Does Richard Florida's Creative Class Offer New Insights Into Urban Hierarchy?". In: *Economic Geography*, Vol. 85, No. 4, p. 363-390.

ROSKILDE UNIVERSITY



DEPARTMENT OF COMMUNICATION, BUSINESS AND INFORMATION TECHNOLOGIES

The **Department of Communication, Business and Information Technologies (CBIT)** is an innovative and interdisciplinary university environment that combines science, the social sciences and humanities in the study of the interplay between communication, business and information technology in theory and in practice. Design, innovation and change in a globalized knowledge society are themes that run through CBIT research environments, where the actor perspective and a practical orientation play a central role. The Department has more than 170 researchers within 7 research groups:

- User-driven IT innovation (UDI)
- Communication, journalism and social change (CJSC)
- Programming, logic and intelligent systems (PLIS)
- Management in Transition (MIT)
- Visual culture and performance design (VISPER)
- Dialogic Communication (DK)
- Innovation in services and experiences (ISO)

Many of the Department's researchers are engaged in analyzing, creating, forming and communicating different types of practice involving users, workers, target groups, the public or other types of actors.

Ada Scupola (ada@ruc.dk) is a Senior Associate Professor (Lektor MSK) within the Innovation in services and experiences (ISO) research group and editor-in-chief of The International Journal of E-Services and Mobile Applications. Her main research interests include: Innovation theory with focus on user-driven innovation and ICT-based innovation in service companies such as consulting, facility management services and libraries; ICT adoption and diffusion; Studies of factors such as social capital, company resources and information technology that affect organizational populations such as clusters. Recent publications include:

- Nicolajsen, H.W. and Scupola, A. (2011). "Investigating issues and challenges for customer involvement in Business services innovation". In: *Journal of Business and Industrial Marketing*, Vol. 26, No. 5, p. 368-376.
- Steinfield, C., Scupola, A. and Lopez, C. (2010).
 "Social Capital, ICTs Use and Company Performance: Findings from the Medicon Valley Biotech Cluster". In: *Technological Forecasting and Social Change*, Vol. 77, No. 7, p. 1156-1166.
- Steinfield, C. and Scupola, A. (2008). "Understanding the Role of ICT Networks in a Biotechnology Cluster: An Exploratory Study of Medicon Valley". In: *The Information Society*, Vol. 24, No. 5, p. 319-333.
- Scupola, A. and Steinfield, C. (2008). "The role of a network organization and Internet-based technologies in clusters – the Case of Medicon Valley". In: *Innovation and the Creative Process*, Fuglsang, L. (Ed.), pp. 193-211. Edward Elgar.

DEPARTMENT OF ENVIRONMENTAL, SOCIAL AND SPATIAL CHANGE

The Department of Environmental, Social and Spatial Change (ENSPAC) works with the planning of the integrated human, environmental and geographical organization of modern societies. This inter-disciplinary department works across social science, natural science, technical science and humanities. More than 150 researchers at the Department are organized around a variety of thematic areas. Present focus areas include: Working Life and Health Promotion, Mobility and Urban Studies (MOSPUS), Climate Change Adaption and Mitigation (METRIK), and Biological Production, Environmental Risk and Designing Human Technologies. (Cluster relevant research is especially carried out in the MOSPUS and METRIK research groups.) Each of these areas has their specific interdisciplinary and experimental approaches to focus on vital connections across

environmental, social and spatial change. The department is interested in human everyday life, in natural, social and technological systems, and how they work together through sustainability, design and planning. An important priority for the Department is strengthening relationships with public and private stakeholders; and collaborative activities with partners in industry, sector research institutions, regional organizations, NGOs and international bodies are strongly encouraged.

Henrik Toft Jensen (htj@ruc.dk) is Associate Professor within the research group on Space, Place, Mobility and Urban Studies (MOSPUS). His research focuses on the topics of: Regional Geography; Urban development and mobility; Technological development; Relations between central and local state; and Relations between universities and regions. Recent publications related to knowledge dynamics and regional development include:

- Jensen, H. T., Frederiksen J. S., and Plum V.
 (2015). "Tourism Regional Management and Development". In: *ENSPAC*, p.27.
- Jensen, H.T., Koch, M. S., Christensen, M. D. and Plum, V. (2013). "Industrien, Job og Krise". In: *ENSPAC*, p. 120.
- Jensen, H.T., Plum, V., Møller, C.H., Hens, M.F.,
 Vinter Clausen, T., Bagger, C.L. (2011). "Open
 Door til-vækst : En artikkelsamling om øget vækst
 gennem øget samarbejde". 24 pages.
- Jensen, H.T. and Petersen, L.E. (2010). "Knowledge dynamics in the food and drink sector in Zealand". In: *Regional trajectories to the knowledge economy: Nordic-European Comparisons*. ed. Margareta Dahlstrøm; Sigrid Hedin. Nordregio. p. 71-77.

UNIVERSITY OF COPENHAGEN

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DEPARTMENT OF GEOSCIENCES AND NATURAL RESOURCE MANAGEMENT; SECTION FOR GEOGRAPHY

The **Department of Geosciences and Natural Resource Management (IGN)** is a broadly based department at the Faculty of Science at the University of Copenhagen. IGN's activities include research and development, BSc and MSc courses and adult education/continuity training, servicing the public sector, innovation, monitoring, consultancy and outreach as well as international development and environmental assistance. The Department has about 450 employees and conducts research and research based teaching within the fields of geology, geography and geoinformatics, forest, nature and biomass and landscape architecture and planning.

The Section for Geography has a broad focus: From urban and regional planning, labour market and employment, poverty and migration in developing countries – to coastal protection and climate analyses. The section consists of the four research groups: Transformation of Cities and Landscapes - Geoinformatics (led by Lars Winther); Environment and Society in Developing Countries (led by Ole Mertz); Dynamic Geomorphology and Quaternary Geology (led by Aart Kroon); and Terrestrial Ecosystem Analysis. Processes and interplay between climate, soil and water (led by Henrik Breuning-Madsen).

Christian Wichmann Matthiesen (cwm@ign.ku.dk) is Professor emeritus within the Section for Geography. His research has covered a range of fields such as Urban System Structure and Function, Urban Growth, Large City (re)-vitalization, Urban Structure, Implications of Infrastructural Investments, Metropolitan Competition, Regional Development, Triple Helix (cooperation: universities, corporate world, regional government) and Multivariate Statistical Methods. Publications related to regional development and clusters include:

- Matthiessen, C.W. (2015). "The Femarnbelt link will be a growth dynamo for the Baltic Sea Region". København : Femern A/S , 13 pages.
- Matthiessen, C.W. and Herrmann, H. (2011).
 "Clusters in the Economy: Potential New Interaction". In: *The Fehmarnbelt Fixed Link: Regional Development Perspectives*. ed. Christian Wichmann Matthiessen; Marianne Worm. Copenhagen: Syddansk Universitetsforlag, p. 238-277.
- Matthiessen, C.W., Schwarz, A.W., and Find,
 S. (2011). "Research nodes and networks". In: *Handbook of creative cities*. ed. David Emanuel Andersson; Åke E. Andersson; Charlotta Mellander.
 Cheltenham: Edward Elgar Publishing, Incorporated, p. 211-228.
- Matthiessen, C.W., Find, S., and Schwarz, A.W.
 (2011). "The World of Science: Centres, Networks, Development Opportunities". In: *The Fehmarnbelt Fixed Link: Regional Development perspectives*.
 ed. Christian Wichmann Matthiessen; Marianne
 Worm. Syddansk Universitetsforlag, p. 280-327.

Lars Winther (lw@ign.ku.dk) is Professor and Head of the research group on Transformation of Cities and Landscapes (within the Section for Geography). His research is on the key aspects of urban and regional development and industrial change and location with a focus on the importance of employment, human capital, competitiveness and innovation and the geography of the knowledge economy. Recent publications related to geography and innovation include:

- Skytt-Larsen, C.B. and Winther, L. (2015). "Knowledge Production, Urban Locations and the Importance of Local Networks". In: *European Planning Studies*, p. 1-23.
- Hansen, T., Winther, L., and Hansen, R.F. (2014).
 "Human capital in low-tech manufacturing : The geography of the knowledge economy in Denmark". In: *European Planning Studies*, Vol. 22, No. 8, p. 1693-1710.

- Hansen, H.K. and Winther, L. (2014). "Regional development and the impact of the public sector in Denmark: employment growth and human capital". In: *Geografisk Tidsskrift/Danish Journal of Geography*, Vol. 114, No. 2, p. 156-168.
- Hansen, T. and Winther, L. (2014). "Competitive low-tech manufacturing and challenges for regional policy in the European context: lessons from the Danish experience". In: *Cambridge Journal of Regions, Economy and Society*, Vol. 7, No. 3, p. 449-470.

Høgni Kalsø Hansen (hh@ign.ku.dk) is Associate Professor within the Transformation of Cities and Landscapes research group. He is conducting research within the area of urban economic dynamics focusing on the match/mismatch between industrial structures and skills, along with human capital, innovation and labour mobility. Recent publications related to human capital and (the geography of) innovation include:

- Hansen, H.K. and Winther, L. (forthcoming). "Employment growth, human capital and educational levels: uneven urban and regional development in Denmark 2002–2012". In: *Danish Journal of Geography*.
- Ejermo, O. and Hansen, H.K (forthcoming). "How important are local inventive milieus: The role of birthplace, high school and university education".
 In: *Geoforum*
- Andersen, K.V., Bugge, M.M., Hansen, H.K., Isaksen, A., and Raunio, M. (2014). "One Size Fits All?: Applying the Creative Class Thesis to a Nordic Context". In: *The Creative Class Goes Global*. ed. Charlotta Mellander; Richard Florida; Bjørn T. Asheim; Meric Gertler. Abingdon: Routledge, p. 117-137. (Regions and Cities, Vol. 69)
- Eriksson, R. and Hansen, H.K. (2013). "Industries, skills, and human capital : how does regional size affect uneven development?". In: *Environment and Planning A*, Vol. 45, No. 3, p. 593-613.

UNIVERSITY OF SOUTHERN DENMARK



DEPARTMENT OF BORDER REGION STUDIES

The Department of Border Region Studies (IFG) is part of the Faculty of Business and Social Sciences. The research and teaching fields at the Department range from business studies, European studies, regional economics and development, and to minorities, living conditions and history in border regions. The 50 teachers and researchers of the department cover these subject areas and are active in research communication at all levels. IFG is publishing the popular science magazine PLUK, which presents research results from the Southern Jutland region. The Department has three research groups: People and Society; Regional Economics; and Global Business Relationships (GBR)/The Danfoss Center of Global Business.

The research group in **Regional Economics and Development** at the Department of Border Region Studies focuses on theoretical, methodological and empirical research activities exploring the importance of: regional spillovers, cross-border interaction, institutions and policy, and firms and individuals for regional economics and business development.

Andreas Cornett (cornett@sam.sdu.dk) is Professor and Research Director of the Regional Economics group at IFG. His research focuses on the topics of: Processes of clustering and regional innovation systems; Regional convergence and disparities; Comparative regional policy (EU and national); The process of integration and the implications for peripheral regions; Economic transition and the development of the international economic system; and National and regional adaptation to economic and political integration. Recent publications related to clusters and cross-border interaction/integration include:

- Cornett, A. P. (2014). "Cluster development policy as a tool in regional development and competi-

UNIVERSITY OF SOUTHERN DENMARK

tiveness policy - theoretical concepts and empirical evidence". In: *Knowledge, Innovation and Space: New Horizons in Regional Science*. eds. Karlsson, C., Johansson, B., Kobayashi, K. & R. Stough, R. Edward Elgar Publishing, Incorporated, p. 213-233.

- Cornett, A. P. and Othengrafen, F. (2013). "A Critical Assessment of the Added Value of Territorial Cohesion". In: *European Journal of Spatial Development*. October, 30 pages.
- Cornett, A. P. (2013). "Conceptualisation of Clusters as a Tool in Local and Regional Business Development". In: *Resources and Competitive Advantage in Clusters*. eds. Brown, K., Burgess, J., Festing, M. & Royer, S. Rainer Hampp Verlag, Chpt. 3, p. 30-45.
- Cornett, A. P. (2012). "Cluster and cluster development in the knowledge economy". In: *Foundations of the Knowledge Economy Innovation, Learning and Clusters*. ed. Knut Ingar, W. Cheltenham, UK Northampton, MA USA: Edward Elgar Publishing, Incorporated, Chpt. 12, p. 213-232.

Susanne Gretzinger (sug@sam.sdu.dk) is Associate Professor within the Department of Border Region Studies. Her research focuses on the topics of: Social Network Analysis (SNA perspective); Social Capital, Intellectual Capital (Absorptive Capacity); Value and Rent (Co-) Creation in Networks, Clusters (Value Adding Webs); Knowledge-Management in Networks; Innovation-Management; and Market-oriented Management of Networks. Recent publications related to social capital, knowledge networks and clusters include:

- Gretzinger, S. and Royer, S. (2014). "Relational Resources in Value Adding Webs: The case of a Southern Danish Firm Cluster". In: *European Management Journal*. Vol. 32, No. 1, p. 117-131.
- Gretzinger, S., Hinz, H. And Matiaske, W. (2012).
 "Intermediaries in the Management Process of Innovation: The Case of Danish and German SMEs".

In: *Case-Studies in Innovation: For Researcher, Teachers and Students.* Fulford, H. (ed.). Academic publishing international (api), 12 pages.

- Gretzinger, S. and Royer, S. (2011). "Social and Symbolic Capital in Firm Clusters: An Empirical Investigation of Relational Resources and Innovation Capabilities". Paper presented at ECEI2011- 6th European Conference on Innovation and Entrepreneurship.
- Gretzinger, S., Hinz, H. And Matiaske, W. (2010).
 "Cooperation in Innovation Networks: The Case of Danish and German SMEs". In: *Management Revue*. Vol. 21, No. 2, p. 193-216.

DEPARTMENT OF ENTREPRENEURSHIP AND RELATIONSHIP MANAGEMENT

The Department of Entrepreneurship and Relationship Management (IER) is part of the Faculty of Business and Social Sciences. The Department is rooted in a business economic tradition and conducts research in collaboration with businesses and industry-promoting institutions. The Department is based at the Kolding campus and has about 75 employees. The activities of the department are organized in three research groups: accounting and economic, entrepreneurship and organization (including network organization and relationship management), and marketing and supply chain (including innovation and business development, network and value chains).

Torben Bager (tob@idea.sdu.dk) is Professor at the Department of Entrepreneurship and Relationship Management and Director of the IDEA Entrepreneurship Centre. His research focuses on the areas of: organization theory and management; economic sociology, immigrant business and globalization; entrepreneurship and firm growth; and entrepreneurship teaching and training. Recent publications related to entrepreneurship and networks include:

- Bager, T., Ottósson, H. and Schøtt, T. (2010).
 "Intrapreneurs, entrepreneurs and spin off entrepreneurs: Similarities and differences". In: *International Journal of Entrepreneurship and Small Business*. Vol. 10, No. 3, p. 339-358.
- Ottósson, H. and Bager, T. E. (2009). "Abandoned intentions - The influence of social capital, human capital and entrepreneurial attitude on advancement of entrepreneur intentions".
- Bager, T. E. and Klyver, K. eds. (2007). *Iværksætterne og deres netværk*. København: Børsen.

Poul Rind Christensen (rind@sam.sdu.dk) is Professor and Head of Centre for Design, Culture and Management at the Department. His current research areas focus on the nexus of design and innovation management; small business management and entrepreneurship; and organizational change and inertia in the context of business networks. Past research areas include theories and models on small firms' internationalization; and studies on the dynamics of industrial cluster formation. Recent publications related to design, innovation management and clusters include:

- Jensen, S., Ingstrup, M. B. and Christensen, P.R. (2015). "Cluster emergence: The development of a design cluster in Southern Denmark". Proceedings of the 18th Uddevalla Symposium 2015, 11-13 June, Sønderborg, Denmark. University West, 15 pages.
- Ingstrup, M. B. and Christensen, P. R. (2014).
 "Change of Cluster Specialization through the Process of Globalization". Proceedings of the 17th Uddevalla Symposium 2014, 12-14 June, Uddevalla Sweden. University West, 19 pages.
- Storvang, P., Jensen, S. and Christensen, P. R. (2014). "Innovation through Design: A Framework for Design Capacity in a Danish Context". In: *Design Management Journal*. Vol. 9, No. 1, p. 9-22.
- Bang, A. L. and Christensen, P. R. (2013). "Co-Creation in Distributed Value Creation Systems and Net-

works". 17 Apr 2013. 10th European Academy of Design, Gothenburg, Sweden, April, 2013. 9 pages.

- **Torben Munk Damgaard** (torben@sam.sdu.dk) is Associate Dean for Business and Knowledge Exchange (within the Dean's office for the Faculty of Business and Social Sciences) and part of the Department of Entrepreneurship and Relationship Management. His research focuses on the topics of: Cluster and clustering – Development and facilitation; Business marketing emphasizing leadership across companies; Relationship Management and Managing in Networks; and Managing and competence development in SMEs. Recent publications related to cluster development and managing networks include:
- Ingstrup, M. B., Steinbórsson, R. S. and Damgaard, T. M. (2014). "Cluster Governance: In Between Top-down and Bottom-up Clusters". 2014 Proceedings of the 17th Uddevalla Symposium 2014, 12-14 June, Uddevalla Sweden. University West, 22 pages.
- Ingstrup, M. B. and Damgaard, T. (2013). "Cluster Development through Public Sector Facilitation".
 In: *Resources and Competitive Advantage in Clusters*. Brown, K., Burgess, J., Festing, M. and Royer, S. (eds.). Rainer Hampp Verlag, p. 46-65.
- Damgaard, T., Ingstrup, M. B. and Mikkelsen, M.D. (2012). "A literature review on resource transfer between clusters". Syddansk Universitet. Institut for Entreprenørskab og Relationsledelse. 79 pages.
- Andersen, P., Christensen, P.R., and Damgaard, T.
 (2009). "SMEs global sourcing and relationship norms". In: *Industrial Marketing Management*, Vol. 38, No. 7, p. 814-824.

Mads Bruun Ingstrup (mbi@sam.sdu.dk) is Assistant Professor within the Department of Entrepreneurship and Relationship Management, and member of the Centre for Entrepreneurship and Small Business Studies. His research focuses on

UNIVERSITY OF SOUTHERN DENMARK

the topics of international business development, entrepreneurial ecosystems, smart specialization, regional development, and cluster governance and development. Recent publications related to clusters and international business development include:

- Ingstrup, M. B. (2014). "When Firms Take the Lead in Facilitating Clusters". In: *European Planning Studies*. Vol. 22, No. 9, p. 1902-1918.
- Ingstrup, M.B. and Damgaard, T. (2013). "Cluster Facilitation from a Cluster Life Cycle Perspective". In: *European Planning Studies*. Vol. 21, No. 4, p. 556-574.
- Ingstrup, M. B. (2013). "Facilitating Different Types of Clusters". In: *Management Revue*. Vol. 24, No. 2, p. 133-150.
- Ingstrup, M.B. (2010). "The role of cluster facilitators". In: *International Journal of Globalisation and Small Business*. Vol. 4, No. 1, p. 25-40.

DEPARTMENT OF MARKETING AND MANAGEMENT

The **Department of Marketing and Management** is part of the Faculty of Business and Social Sciences. Research within the department is anchored in an understanding of the cooperation between markets, organizations and individuals. It encompasses a variety of areas from evolutionary models of organization to the culture of 'hot dog stands'. The research of approximately 80 employees at the department is organized into five research units: Consumption, Culture and Commerce; International Business & Entrepreneurship; CENTRE for Integrative Innovation Management; Strategic Communication & Management; and Strategic Organizational Design.

René Chester Goduscheit (rene@sam.sdu.dk) is Associate Professor within the Centre for Integrative Innovation Management at the Department of Marketing and Management. His research focuses on topics of: Open Innovation (user innovation, inter-organizational innovation); New business models and business development; University-company knowledge and technology sharing; and Service Innovation. Parallel to his university research, he collaborates with LB Analyse – providing expert input on innovation management and network analysis. Recent publications related to inter-firm collaboration and innovation include:

- Goduscheit, R. C. and Jørgensen, J. H. (2013).
 "User toolkits for innovation a literature review".
 In: *International Journal of Technology Management*. Vol. 61, No. 3/4, p. 274-292.
- Jørgensen, J. H., Rasmussen, E. S., Goduscheit, R. C. and Bergenholtz, C. (2012). "Managing the Fuzzy Front End: Intra-Firm Versus Inter-Firm Networks". In: *Perspectives on Supplier Innovation: Theories, Concepts and Empirical Insights on Open Innovation and the Integration of Suppliers*. Brem, A. and Tidd, J. (eds.). Imperial College Press, Ch. 14, p. 473-498. (Series on Technology Management, Vol. 18).
- Bergenholtz, C. and Goduscheit, R. C. (2011). "An examination of a reciprocal relationship between network governance and network structure". In: *International Journal of Strategic Business Alliances*. Vol. 2, No. 3, p. 171-188.

OTHER INDIVIDUALS WITH A RESEARCH DEGREE

Jacob Høj Jørgensen (jhj@delendorff.com) is Owner and CEO at Delendorff Advisory. Delendorff Advisory specializes within the areas of network analysis, user-driven innovation, creativity and business development - using research-based methods as an integrated part of their consulting services. Jacob received his PhD from Aalborg University (Center for Industrial Production) in 2010 on employing the lead-user method in an inter-organizational network. Jacob's research interests include: Networks and Network Analysis; User Centric Innovation; Creative Thinking and Business Innovation. He applies this knowledge in consultancy engagements - working, for example, with the implementation of user-driven innovation methods and network-based innovation processes. Parallel to his consultancy, Jacob is a lecturer on integrative innovation management at Aarhus University.

Stefan Brendstrup (stefan@lbanalyse.dk) is Partner at LB Analyse. LB Analyse is a consulting company focused on business development and regional development. Stefan received his PhD in Political Science from Aarhus University in 2005, addressing the topic of restructuring and liberalization of public service sectors. Stefan's research interests focus on regional evaluation, analysis and learning and in particular on developing meaningful measures of public initiatives. LB Analyse has evaluated a number of cluster initiatives including the use of network analysis as a way to measure the progress of the cluster development.

RESEARCH NETWORKS

In addition to the research departments/institutions described above, there are several Danish-led research networks which have relevance to clusters.

DRUID (Danish Research Unit for Industrial Dy-

namics) has existed since 1995 and aims to promote innovation research at Copenhagen Business School (CBS), Aalborg University (AAU) and University of Southern Denmark (SDU). Currently, 60+ scholars at CBS, AAU and SDU are affiliated to DRUID. (All INO scholars at CBS are per default affiliated with DRUID). Over the last 20 years, DRUID has evolved into a "hub" of a large international network in industrial dynamics supported by two annual conferences (see below) and an internationally well-recognized electronic working paper series. DRUID is associated with the journal *Industry and Innovation*, published by Routledge.

The DRUID network organizes two major events each year:

- the DRUID conference a leading academic conference on innovation and the dynamics of structural, institutional and geographic change
- the DRUID academy a specialized course program and unique annual PhD training confer-

ence in management and innovation that attracts students from Europe and beyond

The current Director is Mark Lorenzen, Copenhagen Business School and the Administrative Officer is Jeanette Hvarregaard, Aalborg University. In addition to the Director and the Administrative Officer, the Executive Commitee consists of Jesper Lindgaard Christensen and Michael Dahl (both Aalborg University), Keld Laursen and Peter Maskell (both Copenhagen Business School) and Thorbjørn Knudsen and Mette Præst Knudsen (both University of Southern Denmark). The DRUID International Scientific Advisory Committee is chaired by Olav Sorenson, Yale School of Management, and it has as members 15 international scholars in the field of industrial dynamics.

GLOBELICS (The Global Network for the Economics of Learning, Innovation and Competence

Building Systems) is a worldwide, open and diverse community of scholars working on innovation and competence building in the context of economic development. The network was started in 2002 by economists and experts on innovation systems (including Bengt-Åke Lundvall from Aalborg University). The IKE Group at Aalborg University has been a key architect behind Globelics. Over time the network has integrated expertise with a wider social science background and experts on broader aspects of development. But the network's core field of study remains the role of innovation, and of innovation systems as complexes of institutions that mold and support innovation in countries at different levels of industrialization.

Globelics is an informal network and most activities are initiated and organized at the local level. Globelics' main activities include an annual conference (attended by more than 2000 scholars) and Globelics Academy (attended by more than 300 PhD students), as well as hosting research projects and maintaining a strong global network (facilitated through its website and various regional chapters).

The formation of the Globelics Secretariat was based on grants from Sida, Sweden and from Aalborg University. The Globelics Scientific Board gives advice on local activities and initiates new activities. The Globelics Secretariat serves as secretariat for the Scientific Board, gives advice on local activities and is responsible for activities supported by Sida, Sweden. Regional chapters of Globelics have been developed in Africa, Asia, Europe, Latin America, and the Mediterranean Area (AfricaLics, AsiaLics, EuroLics, LaLics and MEDAlics).

