

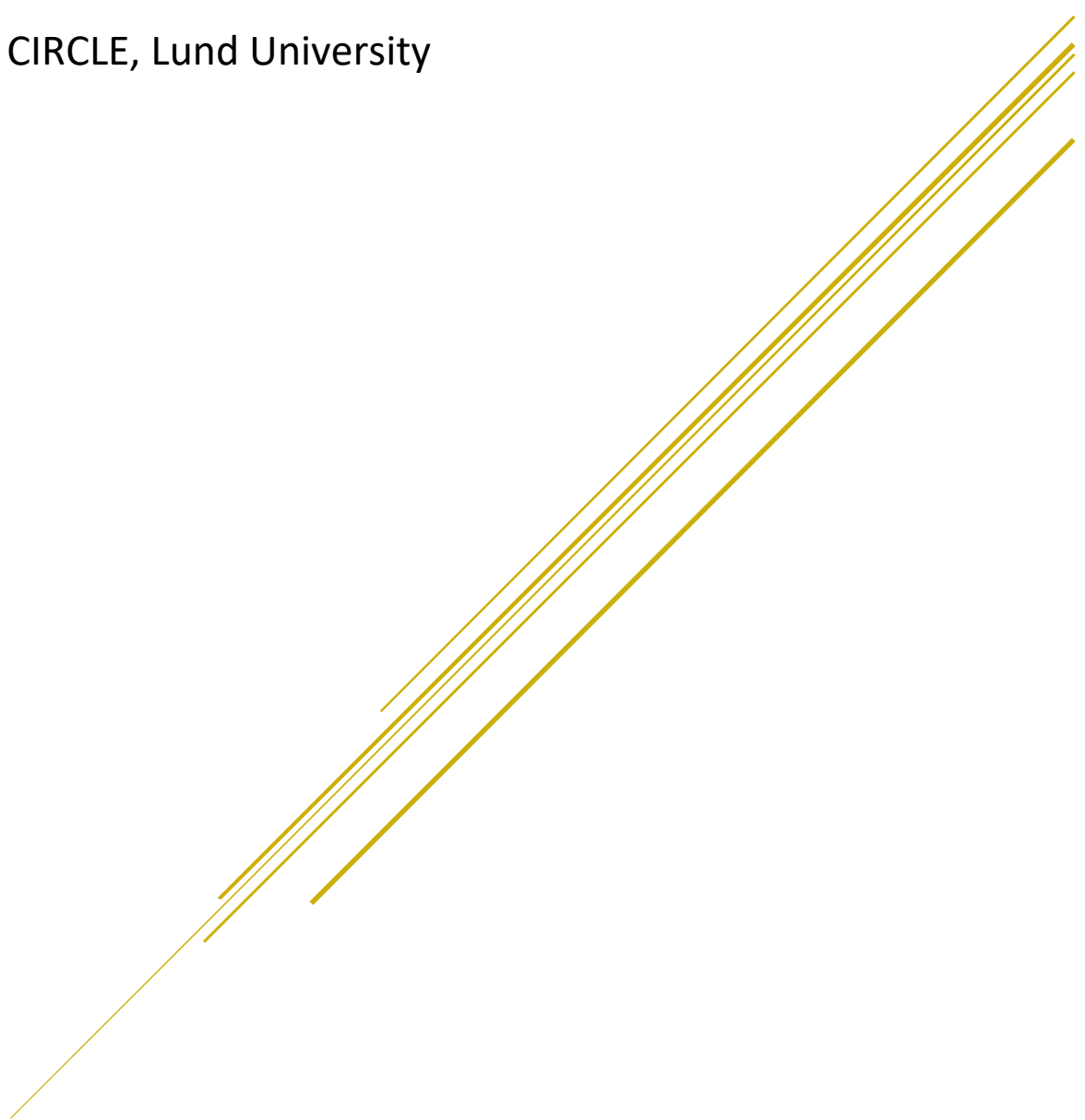


LUND
UNIVERSITY



ANNUAL REPORT 2018

CIRCLE, Lund University



Center for Innovation, Research and Competence in the
Learning Economy (CIRCLE)
Lund University

TABLE OF CONTENTS

TABLE OF CONTENTS.....	2
LETTER FROM THE DIRECTOR.....	3
RESEARCH AT CIRCLE	4
INTERACTION WITH SOCIETY AND POLICY MAKERS	5
TEACHING AT CIRCLE	6
PROJECTS AT CIRCLE 2018.....	8
RESEARCH OUTPUT BY CIRCLE EMPLOYEES	9
JOURNAL ARTICLES	9
BOOKS.....	11
BOOK CHAPTERS	11
CIRCLE WORKING PAPERS.....	12
CONFERENCE PAPERS	12
KEYNOTE PRESENTATIONS IN ACADEMIC CONFERENCES	14
AWARDS FOR RESEARCH AND PERSONAL GRANTS.....	14
TEACHING AND SUPERVISION BY CIRCLE EMPLOYEES	15
COURSES AT LUND UNIVERSITY	15
COURSES AT OTHER UNIVERSITIES.....	17
SUPERVISION OF PHD STUDENTS.....	17
INTERACTION WITH SOCIETY BY CIRCLE EMPLOYEES.....	18
POLICY REPORTS	18
ASSIGNMENT IN POLICY BOARDS AND EVALUATION PANELS.....	19
DEBATE ARTICLES	19
POLICY WORKSHOPS	20
MEDIA EXPOSURE	21

LETTER FROM THE DIRECTOR

2018 was the first year of CIRCLE's new organizational placement within Lund University. Since January 2018, CIRCLE is a cross-faculty research centre at Lund University (organizationally placed at LTH). Its members are employed at the Faculty of Engineering (LTH), the School of Economics and Management and the Faculty of Social Sciences. All three faculties have committed to contribute to the development of CIRCLE. This process has taken considerable time and energy, but now, we feel a great enthusiasm and hope for the future. CIRCLE's goal hasn't changed at all. CIRCLE still aims to be a world-leading institute in Innovation Studies that operates as a main attractor on the most talented and brightest researchers in our field. In 2018, CIRCLE has both attracted substantial external financing and started to recruit new talent. Many of CIRCLE's achievements during the year you can read about in this Annual Report.

Highlights in 2018 include over 80 research publications presented during the year (see Section Research at CIRCLE). This figure is naturally lower than the previous years, a fact that can simply be explained by the lower number of employees. In 2018, CIRCLE has started to recruit again, something that will continue in 2019. New externally funded projects in 2018 will help to finance these recruitments.

Another highlight was the EU-SPRI Winter School on Geography of Innovation, organized by CIRCLE in March 2018. The school gathered junior scholars and PhD students from a large variety of institutions in 10 different countries. Thirteen scholars and leading academics within the field of geography of innovation contributed to the Winter School.

Interaction with external stakeholders and policymakers is important for CIRCLE. The academic work by CIRCLE researchers has continued to make impact on the academic community, as well as on policy makers and society at large. In this Annual Report you can read about two examples of CIRCLE's impact on academic research (see Research at CIRCLE) and society (see Interaction with Society and Policy Makers). These examples are developed as case studies for the ongoing evaluation of the 10-year Linneaus grant (LUCIE) that CIRCLE was awarded by the Swedish Research Council in 2006.

In both 2017 and 2018, CIRCLE has managed to attract a considerable amount of external research funding. We are particularly pleased that VINNOVA has granted CIRCLE a third Research Platform in 2018. This means that CIRCLE is now leading three VINNOVA funded platforms: 1) *Sweden's Position in Global Value Chains*, 2) *the Swedish Transformative Innovation Policy Platform*, and now also 3) *An Experimentally Organized Economy*.

Since 2018 CIRCLE is managed by a new Board and an executive group that performs day-to-day management. Both the Board and the executive group consist of representatives for the university's three faculties engaged in CIRCLE's development. In 2019, and onwards, we are determined to continue to strengthen CIRCLE and its role as a successful cross-disciplinary research centre in innovation studies. As always, there are many opportunities and challenges, but I firmly believe CIRCLE is in an excellent position to strengthen its role as an inspiring and leading environment for Innovation Studies.

Åsa Lindholm Dahlstrand
Lund, May 2019

RESEARCH AT CIRCLE

During 2018, CIRCLE researchers published 43 peer-review journal articles, 7 books and book chapters, 17 conference papers and 14 CIRCLE working papers (downloadable at <http://www.circle.lu.se/publications/>) in the areas of innovation studies, entrepreneurship, economics of innovation, sustainability transitions and others. Academic work by CIRCLE researchers have continued making impact on academic community. During 2018, studies by CIRCLE members have been cited c 5 000 times (based on google scholar citations).

The total budget for research in 2018 was 10 MSEK, of which the major share (73%) is from external funding. Because of CIRCLE's reorganization (with CIRCLE members employed at three different faculties at Lund University), these figures cannot be directly compared with previous years. Looking instead at the total amount of externally granted research projects at CIRCLE, we are happy to see an increase of almost 30% compared with the previous year (from 42 to 54 MSEK in external funding directly to CIRCLE research projects). This is a very positive development that brings great hope for the future.

Main CIRCLE financiers are VINNOVA, the Swedish Research Council, the European Commission, MISTRA and others. CIRCLE has been actively collaborating for research with many other universities in Sweden and Europe including Jönköping University, Gothenburg University, Chalmers University, Utrecht University, University of Stavanger, NTNU, University of, University of London, Brighton University, and University of Sussex just to mention a few.

CIRCLE's 10-year Linneaus grant (LUCIE, funded by the Swedish Research Council 2006-2016) is currently being evaluated by the Swedish Research Council. Below is a short version of the case on academic impact included in the evaluation:

Scientific Impact Case Study: Innovation and sustainability transitions at CIRCLE

Innovation and sustainability transition became a key area of research at CIRCLE as a consequence of the Linneaus Centre's objective to arrive at a dynamic perspective on innovation systems. Lars Coenen initially engaged with the emerging literature and especially criticised the lack of an explicit spatial perspective. This engagement with the geography of sustainability transitions led to the establishment of CIRCLE's fifth research platform on 'Innovation and Sustainability Transitions'.

Research on sustainability transitions recognizes the 'wickedness' of most sustainability problems, notably climate change. It conceptualizes the sustainability challenge as a result of untenable but path-dependent consumption and production patterns in socio-technical systems such as electricity, heat, buildings, mobility and agro-food. These unsustainable patterns cannot be addressed by technological fixes alone or piece-meal incremental improvements and innovation but require wholesale system-innovation: radical shifts to new kinds of socio-technical systems. Therefore, a central objective of transition research is to conceptualize and explain how radical changes can occur in the way societal functions are fulfilled at a systemic level. In the past two decades, research on sustainability transitions has developed and expanded rapidly.

Initial theorizing and empirical analyses neglected where sustainability transitions take place and is thus at risk of failing to recognize why certain transformative instances of institutional, entrepreneurial and innovative interactions occur where they do and for what reason. To redress this shortcoming, CIRCLE established a research agenda that engaged explicitly with explaining the geography of sustainability transitions.

This engagement with the geography of sustainability transitions has subsequently paved the way for a set of externally funded research project and generated significant international visibility of CIRCLE in this burgeoning research area. Recognized for its success by the leadership of CIRCLE and coordinated by Lars Coenen, this group became a novel research platform at CIRCLE on 'Innovation and Sustainability Transitions' complementing the existing four research platforms. In total, between 2012 and 2017, this platform produced 30 articles and/or book chapters and 1 edited book, resulting in approximately 3200 citations in Google Scholar.

This case confirms the value proposition suggested by inter-disciplinary research in social science by offering complimentary, multi-perspectival analyses of societal phenomena in ways that are challenging for disciplinary-oriented research. The Linneaus program has been highly instrumental in setting up this research area within CIRCLE. Important aspects underpinning this research have been the freedom and patience to conduct conceptually-oriented, theory-driven research for a sustained period of time.

Finally, it is worth emphasizing the collective nature of this research. Being part of a wider milieu in innovation studies has been indispensable for the traction and productive evolution of innovation and sustainability transitions research at CIRCLE. Much of the conceptual and empirical advancement was borne out of critical discussion and scrutiny by the collective group of researchers at CIRCLE, for example during the frequent weekly seminars that were organized, often involving high-profile guests-scholars. Similarly, this research has benefitted substantially from its productive trading zones with other researchers within Lund University, including scholars in energy and environmental systems engineering, economic geography and political science.

INTERACTION WITH SOCIETY AND POLICY MAKERS

CIRCLE researchers contribute to the dissemination of research results to policy makers and society at large by, for example, writing policy reports, debate articles, and by presenting results at policy workshops. CIRCLE members are also taking various assignments in policy boards and providing comments to journalists.

In total 15 policy reports were written by CIRCLE members during 2018. They cover a variety of themes such as evaluation of innovation systems, innovation policy, economic growth, global value chains, entrepreneurial experimentation, urbanization, sustainability transitions, the role patenting and intellectual property rights and others. In addition, CIRCLE researchers provided comments and gave interviews to journalists on various topics related to innovation, entrepreneurship and policy making.

An illustration of CIRCLE's interaction with society and policymakers can be found in the Case Study on Societal Impact, included in the ongoing evaluation of CIRCLE's 10-year Linneaus grant (LUCIE, financed by the Swedish Research Council). Below is a short summary:

Societal Impact Case Study: Functional public procurement for innovation, welfare and sustainability

Most public procurement is carried out by describing products wanted. This makes buying of innovations impossible. If problems to be solved and functions wanted were described, this would lead to innovations. Innovations are the most important source of productivity growth and this growth is the main source of increased welfare (increased wages, profits and taxes). Functional public procurement influences not only the speed of innovation processes but also their directions.

Given that public procurement amounts to 683 billion SEK annually, i.e. 17.5 % of GDP, the potential impact on innovation productivity and welfare is enormous.

Research on (functional) public procurement was enlarged and deepened during the LUCIE ten-year period and several CIRCLE researchers were involved in this work. The research has continued also after that. There is often a long time-lag between research and societal impact. Sometimes such lags are very long, since research and, impact therefrom, are evolutionary processes.

The Linnaeus grant strengthened CIRCLE very much as a research environment (centre of excellence) and the number of researchers grew rapidly during the LUCIE grant period. This included that several researchers at LUCIE/CIRCLE was important in giving advice to policy-makers and politicians on issues related to innovation policy. The main mechanism we used to reach out with our research results was ordinary publishing. This included publishing several debate articles in daily newspapers as well as always accepting interviews in the media. For reasons of space, only one limited field of research and only one person will be mentioned below as the case: Charles Edquist (CE) and research on functional procurement.

CE was the first director of CIRCLE (including LUCIE). He increasingly contributed with innovation policy advice over time to government, public agencies and international organizations. When the Swedish National Innovation Council (NIC) was created by the Prime Minister, CE was asked, by the Prime Minister, to be a member. At the first NIC meeting, CE raised the issue of transforming product procurement into functional procurement to achieve and enhance innovations. CE also emphasized the importance of functional public procurement as an innovation policy instrument operating from the demand side (and therefore potentially balancing the linear view and making innovation policy more holistic). In research CE had gradually developed the analysis of innovation-enhancing public procurement through stressing the importance of functional procurement. This NIC discussions led to the development of a National strategy for public procurement, in which functional procurement was an important element. It was decided upon by the government as a whole.

The potential impact on innovation productivity and welfare is enormous, potentially hundreds of billion SEK over a ten-year period. Functional public procurement influences not only the speed of innovation processes but also their directions. This means that functional public procurement, just like all other innovation policies, can also be used for environmental purposes, for example to direct procurement in the direction of sun rather than coal. In all the fields mentioned here the various impact processes trickle down to the citizens. Functional procurement leads to increased creativity and innovation among suppliers, as well as increased competition between suppliers and products. This, in turn, leads to higher quality of public services (i.e. to innovations in the public sector).

TEACHING AT CIRCLE

CIRCLE has continued providing master and PhD level education in collaboration with other faculties at Lund University as well as other universities. In 2018, CIRCLE members participated in teaching at three different faculties at Lund University: the School of Engineering, the Social Science Faculty, and the School of Economics and Management. CIRCLE's ambition is to contribute to further strengthening cross-disciplinary teaching at Lund University. This brings both great opportunities and challenges for the future.

CIRCLE is a member of NORSI (Norwegian Research School in Innovation), a joint Research School managed by BI, Oslo, and NTNU, Trondheim, where several of CIRCLE's PhD students are active.

CIRCLE director Åsa Lindholm Dahlstrand is as a member of the Board for NORSI. NORSI consists of a research network that includes many Norwegian universities and colleges. NORSI has an ambition to become a Nordic Research School of Innovation in the future, a development that would add more non-Norwegian partners to the network. In 2018, as well as earlier years, some of the NORSI courses were hosted at CIRCLE and/or taught by CIRCLE researchers. CIRCLE PhD students took some of the NORSI courses as a part of their PhD program.

CIRCLE is also a member of EU-SPRI (European Forum for Studies of Policies for Research and Innovation) which aims to strengthen the community of research related to policy and governance in the field of knowledge creation and innovation. In 2018, CIRCLE organized the EU-SPRI Winter School on Geography of Innovation. The school gathered 22 junior scholars and PhD students from a large variety of institutions (20) located in 10 different countries. Furthermore, the participants had a highly diverse background in terms of nationality, gender, professional experience, theoretical perspectives on the geography of Innovation, and methodological approaches. Thirteen scholars and leading academics within the field of geography of innovation contributed to the Winter School.

PROJECTS AT CIRCLE 2018

ONGOING AND UPCOMING PROJECTS AT CIRCLE 2018

Financier	Title of the project	Amount in SEK	Time period
Swedish Energy Agency	Green Transition and Co-evolution of Industry and the Energy System	16 542 000	2014-2018
Norwegian Research Council	SusValueWaste: Sustainable Path Creation for Innovative Value Chains for Organic Waste Products	1 430 808	2015-2019
SIDA	Support of Research cooperation with Universidad Mayor de San Andres (UMSA), Bolivia	500 000	2016-2019
SIDA	Support of Research cooperation with Universidad Mayor de San Simón (UMSS), Bolivia	400 000	2016-2019
EU Commission	REINVENT Realising Innovation in Transitions for Decarbonisation	3 213 583	2016-2020
MISTRA	STEPS – Sustainable Plastics and Transition Pathways	45 000 000	2016-2020
VINNOVA	SMF-Effektanalys: Samverkan i innovationssystem	737 000	2017-2018
EU Commission	Framework for the Analysis of Research and Adoption Activities and their Macroeconomic Effects	1 891 310	2017-2019
NordForsk	GONST: Where Does the Green Economy Grow? The Geography of Nordic Sustainability Transitions	20 906 600	2017-2020
VINNOVA	Sveriges position i globala värdekedjor	16 515 733	2017-2020
Marianne and Marcus Wallenberg Foundation	Renewal of Mature Industries in Sweden: Institutional Preconditions and Routes of Innovation	1 375 079	2017-2021
VINNOVA	STIPP: Swedish Transformative Innovation Policy Platform	33 286 932	2017-2022
Lundbergs Stiftelse	Leaving the Multinational: What is the Impact of the Mobility of Human Capital from Multinational Enterprises to Entrepreneurship and Small and Medium Businesses in Sweden?	1 705 564	2018-2019
Lundbergs Stiftelse	Hunting High-Quality Human Capital through Acquiring Technology Ventures? A Study of Corporate Recruitment through Acquisitions	1 626 039	2018-2020
VINNOVA	An Experimentally Organised Economy: A Proposal for Strategic Knowledge Platform	11 600 473	2018-2021
Upcoming projects in 2019			
VINNOVA	Evaluation of Vinnova's program "Genus och Mångfald för Innovation"	793 234	2019

CIRCLE members in bold.

JOURNAL ARTICLES

- Ahlin, L., **Andersson, M.** & Thulin, P. (2018). Human Capital Sorting – the ‘when’ and ‘who’ of the sorting of educated workers to urban regions, *Journal of Regional Science*, 58(3), 581-610.
- Andersson, M.**, Larsson, J.P. & **Wernberg, J.** (2018). Urban Preferences, Amenities and Age - exploring the spatial distribution of age in Stockholm from 1991 to 2011, *Regional Science Policy and Practice*, 10(4), 367-381.
- Andersson, M.**, Larsson, J.P. & **Wernberg, J.** (2019). The Economic Microgeography of Diversity and Specialization Externalities – evidence from cities, *Research Policy*, 48(6), 1385-1398. [online first in 2018]
- Andersson, M.**, Lavesson, N. & Niedomysl, T. (2018). Rural to Urban Long-Distance Commuting in Sweden - trends, characteristics and pathways, *Journal of Rural Studies*, 59, 67-77.
- Bauer, F., & **Fuenfschilling, L.** (2019). Local initiatives and global regimes–Multi-scalar transition dynamics in the chemical industry, *Journal of Cleaner Production*, 216, 172-183. [online first in 2018]
- Bauer, F., **Hansen, T.** & Hellsmark, H. (2018). Innovation in the bioeconomy – dynamics of biorefinery innovation networks, *Technology Analysis & Strategic Management*, 30(8), 935-947.
- Bengtsson, L. & **Tavassoli S.** (2018). The Role of Business Model Innovation for Product Innovation Performance, *International Journal of Innovation Management*, 22(7), 1–28.
- Carlsson, B.**, Eliasson, G. & Sjöö, K. (2018). The Swedish Industrial Support Program of the 1970s Revisited, *Journal of Evolutionary Economics*, 28(4), 805-835.
- Castellani, D., Piva, M., **Schubert, T.** & Vivarelli, M. (2019). R&D and Productivity in the US and the EU: Sectoral Specificities and Differences in the Crisis, *Technological Forecasting & Social Change*, 138, 279-291. [online first in 2018]
- David, L.** (2018). Agency and resilience in time of regional economic crises, *European Planning Studies*, 26(5), 1041-1059.
- Diener, D., **Kushnir, D.**, & Tillman, A-M. (2019). Scrap happens: A case of industrial end-users, maintenance and component remanufacturing outcome, *Journal of Cleaner Production*, 213, 863-871. [online first in 2018]
- Edquist, C.** (2019). Towards a holistic innovation policy: Can the Swedish National Innovation Council (NIC) be a role model?, *Research Policy*, 48(4), 869-879. [online first in 2018]
- Edquist, C.**, Zabala-Iturriagoitia, J.M., Barbero, J. & Zofio J.L. (2018). On the meaning of innovation performance: Is the synthetic indicator of the Innovation Union Scoreboard flawed?, *Research Evaluation*, 27(3), 196-211.
- Ejermo, O.** & **Schubert, T.** (2018). Do Higher Wages Reduce Knowledge Worker’s Job Mobility? Evidence for Swedish Inventors, *Journal of Management Studies*, 55(1), 108-145.
- Ejermo, O.** & Toivanen, H. (2018), University invention and the abolishment of the professor's privilege in Finland, *Research Policy*, 47(4), 814-25.
- Ejermo, O.** & Zheng, Y. (2018), Liberalization of European migration and the immigration of skilled people to Sweden, *IZA Journal of Development and Migration*, 8(1), 1-25.

- Fassio, C.** (2018). Export led innovation: the role of export destinations, *Industrial and Corporate Change*, 27(1), 149-171.
- Fuenfschilling, L., & Binz, C.** (2018). Global socio-technical regimes, *Research Policy*, 47(4), 735-749.
- Fuenfschilling, L., Frantzeskaki, N. & Coenen, L.** (2019). Urban experimentation & sustainability transitions, *European Planning Studies*, 27(2), 219-228. [online first in 2018]
- Fredin S., **Miörner J.** & Jogmark M. (2018) Developing and sustaining new regional industrial paths: investigating the role of 'outsiders' and factors shaping long-term trajectories, *Industry and Innovation*. DOI: <https://doi.org/10.1080/13662716.2018.1535429>
- Frenken, K., Vaskelainen, T., **Fünfschilling, L.** & Piscicelli, L. (2018). An Institutional Logics Perspective on the Gig Economy, *SocArXiv Papers*. DOI: <https://doi.org/10.31235/osf.io/uqn9v>
- Grillitsch, M.** (2019). Following or Breaking Regional Development Paths: On the Role and Capability of Innovative Entrepreneurs, *Regional Studies*, 53(5), 681-691. [online first in 2018]
- Grillitsch, M. & Asheim B.** (2018). Place-based innovation policy for industrial diversification in regions, *European Planning Studies*, 26(8), 1638-1662.
- Grillitsch, M.** Asheim, B. & Tripl, M. (2018). Unrelated knowledge combinations: Unexplored potential for regional industrial path development, *Cambridge Journal of Regions, Economy, and Society*, 11(2), 257-274.
- Grillitsch M. & Chaminade C.** (2018). Bridging the gap: citizenship diversity and global innovation networks in small and medium size companies, *European Planning Studies*, 26(12), 2279-2303.
- Grillitsch, M., Hansen, T., Coenen, L., Miörner, J. & Moodysson, J.** (2019). Innovation policy for system-wide transformation: The case of strategic innovation programmes (SIPs) in Sweden, *Research Policy*, 48(4), 1048-1061. [online first in 2018]
- Grillitsch, M., Schubert, T. & Srholec, M.** (2019). Knowledge base combinations and firm growth, *Research Policy*, 48(1), 234-247. [online first in 2018]
- Grillitsch, M. & Tavassoli S.** (2018). Cultural Diversity and Employment Growth: Moderating Effect of the Recent Global Financial Crisis, *Australian Journal of Management*, 43(4), 632-652.
- Hansen, T. & Mattes, J.** (2018). Proximity and power in collaborative innovation projects, *Regional Studies*, 52(1), 35-46.
- Koster, S. & **Andersson, M.** (2018). When is your experience valuable? – occupation-industry transitions and self-employment success, *Journal of Evolutionary Economics*, 28(2), 265-286.
- Lindholm-Dahlstrand, Å., Andersson, M. & Carlsson, B.** (2018). Entrepreneurial experimentation: a key function in systems of innovation, *Small Business Economics*, 1-20. DOI: <https://doi.org/10.1007/s11187-018-0072-y>
- Madsen, S.H.J. & Hansen, T.** (2019). Cities and climate change – examining advantages and challenges of urban climate change experiments, *European Planning Studies*, 27(2), 282-299. [online first in 2018]
- Miörner J., Zukauskaitė E., Tripl M. & Moodysson J.** (2018). Creating institutional preconditions for knowledge flows in cross-border regions, *Environment and Planning C*, 36(2), 201-218.
- Niedomysl, T., **Källström, J., Koster, S. & Östh, J.** (2019). Interregional migration of business owners: who moves and how does moving affect firm performance?, *Regional Studies*, 53(4), 503-516. [online first in 2018]
- Rammer, C. & **Schubert, T.** (2018). Concentration on the Few – Mechanisms Behind a Falling Share of Innovative Firms in Germany, *Research Policy*, 47(2), 379-389.

Tanner, AN (2018). Changing locus of innovation: a micro-process approach on the dynamics of proximity, *European Planning Studies*, 26(12), 2304-2322.

Tavassoli S. (2018). The Role of Product Innovation on Export Behavior of Firms: Is It Innovation Input or Innovation Output That Matters?, *European Journal of Innovation Management*, 21(2), 294-314.

Tavassoli S. & Karlsson C. (2018). The Role of Regional Context for Innovation Persistency of Firms, *Papers in Regional Science*, 97(4), 931-955.

Tripl, M., **Grillitsch, M.** & Isaksen, A. (2018). Exogenous sources of regional industrial change: attraction and absorption of non-local knowledge for new path development, *Progress in Human Geography*, 42(5), 687–705.

von Wirth, T., **Fuenfschilling, L.**, Frantzeskaki, N., & Coenen, L. (2019). Impacts of urban living labs on sustainability transitions: Mechanisms and strategies for systemic change through experimentation, *European Planning Studies*, 27(2), 229-257. [online first in 2018]

Wesseling, J.H. & **Edquist, C.** (2018). Public procurement for innovation to help meet societal challenges: a review and case study, *Science and Public Policy*, 45(4), 493-502.

Xiao, J., Boschma, R. & **Andersson, M.** (2018). Industrial Diversification in Europe: The Differentiated Role of Relatedness, *Economic Geography*, 94(5), 514-549.

Xiao, J., Boschma, R. & **Andersson, M.** (2018). Resilience in the European Union: The effect of the 2008 crisis on the ability of regions in Europe to develop new industrial specializations, *Industrial and Corporate Change*, 27(1), 15-47.

BOOKS

Ledendal, J., Larsson, S., & **Wernberg, J.** (2018). *Offentlighet i det digitala samhället: Vidareutnyttjande, sekretess och dataskydd*. Stockholm: Norstedts Juridik AB.

BOOK CHAPTERS

Carlsson, B. (2018). 25 års samarbete med Pontus Braunerhjelm (25 Years of Collaboration with Pontus Braunerhjelm), in *Festskrift till Pontus Braunerhjelm*, J. Eklund & P. Norlin (eds.), Stockholm: Entrepreneurship Forum.

Grillitsch, M. & Tripl, M. (2018) Innovation Policies and New Regional Growth Paths: A place-based system failure framework, in *Innovation Policy, Systems and Management*, J. Niosi, (ed.), Cambridge: Cambridge University Press.

Karlsson, C. & **Tavassoli, S.** (2018) Industrial policy in the post-industrial society: is the EU on the right track?, in *Governance and Political Entrepreneurship in Europe: Promoting Growth and Welfare in Times of Crisis*, C. Karlsson, C. Silander, & D. Silander (eds.), Cheltenham, UK: Edward Elgar Publishing.

Martin, R., Aslesen, H.W., **Grillitsch, M.** & Herstad, S.J. (2018) Regional Innovation Systems and Global Flows of Knowledge, in *New Avenues for Regional Innovation Systems - Theoretical Advances, Empirical Cases and Policy Lessons*, A. Isaksen, R. Martin. & M. Tripl (eds.), Cham: Springer.

Venturini, A., Kalantaryan, S. & **Fassio, C.** (2018). High-skilled Immigration and Innovation, in *High-Skilled Migration: Drivers and Policies*, M. Czaicha (ed.), Croydon: Oxford University Press.

Wernberg, J. (2018). Inside the black box: Platform economies and digitalization, in *Developing Platform economies – A European Policy Landscape*, S. Larsson & J. Andersson Schwartz (eds.). European Liberal Forum (ELF).

CIRCLE WORKING PAPERS

Aslesen, H. W., Martin, R., & Sardo, S. (2018). The Virtual is Reality! On Physical and Virtual Space in Software Firms' Knowledge Formation, Papers in Innovation Studies No. 2018/9.

Bellandi, M., Chaminade, C., & Plechero, M. (2018). Transformation paths and the multi-scalarity of knowledge bases under Industry 4.0 challenges, Papers in Innovation Studies No. 2018/14.

Bengtsson, L. & **Tavassoli, S.** (2018). The Role of Business Model Innovation for Product Innovation Performance, Papers in Innovation Studies No. 2018/4.

Chaminade, C., Bellandi, M., Plechero, M., & Santini, E. (2018). Understanding processes of path renewal and creation in thick specialized regional innovation systems. Evidence from two textile districts in Italy and Sweden, Papers in Innovation Studies No. 2018/13.

Comin, D., Licht, G., Pellens, M. & **Schubert, T.** (2018). Do Companies Benefit from Public Research Organizations? The Impact of the Fraunhofer Society in Germany, Papers in Innovation Studies No. 2018/7.

Edquist, C. (2018). Towards a Holistic Innovation Policy: Can the Swedish National Innovation Council Serve as a Role Model?, Papers in Innovation Studies No. 2018/2.

Ejermo, O., & Toivanen, H. (2018). University invention and the abolishment of the professor's privilege in Finland, Papers in Innovation Studies No. 2018/6.

Grillitsch, M. & Hansen, T. (2018). Green industrial path development in different types of regions, Papers in Innovation Studies No. 2018/11.

Grillitsch, M. & Tavassoli, S. (2018). Cultural Diversity and Employment Growth: Moderating Effect of the Recent Global Financial Crisis, Papers in Innovation Studies No. 2018/5.

Grillitsch, M. (2018). Place-based entrepreneurship and innovation policy for industrial diversification, Papers in Innovation Studies No.2018/3.

Grillitsch M. & Sotarauta M. (2018). Regional Growth Paths: From Structure to Agency and Back, Papers in Innovation Studies No. 2018/1.

Igna, I. A. (2018). The effects of educational mismatch on inventor productivity. Evidence from Sweden, 2003-2010, Papers in Innovation Studies No. 2018/8.

Martin, H., Martin, R., & Zukauskaitė, E. (2018). The Multiple Roles of Demand in Regional Development A Conceptual Analysis, Papers in Innovation Studies No. 2018/10.

Xiao, J. (2018). Post-acquisition dynamics of technology start-ups: drawing the temporal boundaries of post-acquisition restructuring process, Papers in Innovation Studies No. 2018/12.

CONFERENCE PAPERS

Andersson, M., Lavesson, N. & Partridge, M. (2018). The Geography of New Firm Formation – an empirical assessment for Sweden. Paper presented at ERSA 2018, Cork, Ireland. 28-31 August.

Andersson, M., Eklund, J. & Tsvetkova, A. (2018). The geography of access to finance – financial constraints of Swedish SMEs across the urban-rural hierarchy. Paper presented at Transatlantic Policy Consortium (TPC), Stockholm.

Andersson, M., Castellani, D. & **Xiao, J.** (2018). Cities, Multinationals and Startups. Paper presented at the 4th Geography of Innovation Conference, Barcelona, Spain. 31 January-2 February.

Baumgartinger-Seiringer S., **Miörner J.** & Tripl M. (2018). Towards a stage model of regional industrial path transformation. Paper presented at The Regional Innovation Policy (RIP) Conference 2018, Bergen, Norway. 11-12 October.

Bergh, A., Dildy, K., Funcke, A. & **Wernberg, J.** (2018). Economic freedom and the sharing economy. Paper presented at The Public Choice Society 2018, Charleston, South Carolina, USA. 1-3 March.

Borrás, S. & **Edquist, C.** (2018). Theoretical Foundations of a Holistic Innovation Policy. Paper presented at EU-SPRI 2018 Conference, Paris. 6-8 June.

Castellani, D. & **Fassio, C.** (2018). From new imported inputs to new exported products. Firm-level evidence from Sweden. Paper presented at DRUID Conference, Copenhagen Business School, Denmark. 11-13 June 2018.

Edquist, C. & Zabala-Iturriagoitia, J.M. (2018). Introducing functional procurement as an approach to stimulate innovation. Paper presented at EU-SPRI 2018 Conference, Paris. 6-8 June.

Fuenfschilling L., Baumgartiner-Seiringer S., **Miörner J.** & Tripl M. (2018). Institutional infrastructure for innovation-based industrial path-renewal. Paper presented at The Regional Innovation Policy (RIP) Conference 2018, Bergen, Norway. 11-12 October.

Gregg, J.S., Happel, M.K., Bolwig, S., Bugge, M.M., **Tanner, AN** & Klitkou, A. (2018). The value chain for valorisation of organic waste in promotion of a circular bioeconomy: A literature review. Paper presented at the 9th International Sustainability Transitions Conference, Manchester, United Kingdom. 12-14 June.

Hansen, T., **Tanner, AN** & Klitkou, A. (2018). Towards a relatedness framework for understanding new industry development in regions. Paper presented at the 5th Global Conference on Economic Geography, Cologne, Germany. 24-28 July.

Knutsson, P. (2018). Human Capital Sorting into New Firms. Paper presented at DRUID Conference, Copenhagen Business School, Denmark. 11-13 June.

Knutsson, P. (2018). Spatial Effects of Import Competition. Paper presented at the Nordic International Trade Seminars, University of Stockholm, Sweden. 24-25 May.

Lindholm Dahlstrand, Å., Lawton Smith, H, Bagchi-Sen, S. and Edmunds, L (2018). Understanding the role of the local in technological innovation systems: Research-based firms and regional development in Sweden and the UK. Paper presented at the 4th Geography of Innovation Conference, Barcelona, Spain. 31 January-2 February.

Miörner, J. (2018). Towards a differentiated view of institutional agency in path transformation. Paper presented at the 5th Global Conference on Economic Geography, Cologne, Germany. 24-28 July.

Nilsson, M. (2018). Proximity and the trust formation process. Paper presented at the 4th Geography of Innovation Conference, Barcelona, Spain. 31 January-2 February.

Tanner, AN (2018). Where do green industries develop? And how?. Paper presented at the Sustain Conference 2018: Creating Technology for a Sustainable Society, Technical University of Denmark (DTU), Kongens Lyngby, Denmark. 29-30 November.

KEYNOTE PRESENTATIONS IN ACADEMIC CONFERENCES

CHARLES EDQUIST

Gave a key-note lecture on Holistic Innovation Policies in Universitat de Barcelona, 18 September 2018.

BO CARLSSON

Entrepreneurial Experimentation: A Key Function in Entrepreneurial Systems of Innovation. 17th International Schumpeter Society Conference, Seoul, South Korea, July 2018.

LEA FUENFSCHILLING

The governance of sustainability transitions through transformative innovation policies. Bernard Maris UNESCO Chair: Regional Innovation Policy and Regional Transition, Toulouse, 29 November 2018.

TEIS HANSEN

Key challenges for commercialisation of forest-based biorefineries. 7th International Bioeconomy Conference, ScienceCampus Halle, The German National Academy of Sciences, Halle, Germany, June 2018.

Regional Policy fostering green industry development, 2nd Research Symposium on Networks in Changing Business Ecosystems. University of Southern Denmark, Kolding, Denmark, June 2018.

TORBEN SCHUBERT

The economic impact of universities, AESIS Annual Conference, Berlin, September 2018.

ÅSA LINDHOLM DAHLSTRAND

Presentation of CIRCLE and the Platform on Entrepreneurial experimentation, at the CIRCLE-SPRU-CENTRIM WORKSHOP, Brighton, September 2018.

AWARDS FOR RESEARCH AND PERSONAL GRANTS

Article selected as "Editors' choice 2018": **Xiao, J.**, Boschma, R. & **Andersson, M.** (2018). Resilience in the European Union: The effect of the 2008 crisis on the ability of regions in Europe to develop new industrial specializations, *Industrial and Corporate Change*, 27(1), 15-47.

TEACHING AND SUPERVISION BY CIRCLE EMPLOYEES

COURSES AT LUND UNIVERSITY

CLAUDIO FASSIO

Faculty of Engineering, Department of Design Sciences, Innovation Management

Faculty of Engineering, Department of Design Sciences, Globalization of Innovation

LUSEM, Department of Business Administration, Innovation Management and Open Innovation

JANNA ALVEDALEN

School of Economics and Management, Department of Business Administration, Basics in Business Administration, Marketing

JING XIAO

Faculty of Engineering, Department of Design Sciences, Innovation Management

Faculty of Engineering, Department of Design Sciences, Globalization and Innovation

Faculty of Engineering, Department of Design Sciences, Entrepreneurship in New and Established Ventures

JOHAN MIÖRNER

Social Science Faculty, Department of Human Geography, Region as an Arena for Economic Development

Social Science Faculty, Department of Human Geography & Department of Political Science, Research Methods in Development Studies

JOHN KÄLLSTRÖM

School of Economics and Management, Department of Economics, Macroeconomic Theory and Economic Policy

LEA FUENFSCHILLING

Faculty of Engineering, Department of Design Sciences, Entrepreneurship in New and Established Ventures

LUCINDA DAVID

Social Science Faculty, Department of Human Geography, Human Ecology, Using NVIVO

MAGNUS NILSSON

CIRCLE, EU-SPRI Winter School in Geography of Innovation

LUSEM, Department of Business Administration, From Consumer Insight to Innovation

LUSEM, Department of Business Administration, Qualitative Research Methods

LUSEM, Department of Business Administration, Degree Project in Marketing

LUSEM, Department of Business Administration, Functions of Management

LUSEM, Department of Business Administration, Programme Director of Master Programme in International Marketing and Brand Management

MARKUS GRILLITSCH

CIRCLE, EU-SPRI Winter School on Geography of Innovation

Social Science Faculty, Department of Human Geography, Bachelor of Science Programme in Urban and Regional Planning

Social Science Faculty, Department of Human Geography, Global Challenges: Resources, Environment, Business

Social Science Faculty, Department of Human Geography, Geographies of Economies: Urban and Regional Planning

Social Science Faculty, Department of Human Geography, Development Organisations and Programme Management

Social Science Faculty, Department of Human Geography, Field Studies in Development Organisations and Management

MARTIN ANDERSSON

Quantitative Methods, NORSI (Two lectures and coordination responsibility)

MONICA KEANEY

Social Science Faculty, Department of Human Geography, Human Ecology, Ekologisk ekonomi

OLOF EJERMO

CIRCLE, EU-SPRI Winter School on Geography of Innovation

LUSEM, Department of Economic History, Master thesis supervision

LUSEM, Department of Economic History, Master thesis examination

LUSEM, Department of Economic History, Advanced Topic in the Globalization of Innovation

LUSEM, Department of Economic History, Economics of Innovation

LUSEM, Department of Economic History, Swedish Economic Development

POLINA KNUTSSON

LUSEM, Department of Economics, Advanced Trade Theory

LUSEM, Department of Economics, Institutions, Markets and Firms in Chinese Context

LUSEM, Department of Economics, Introductory Macroeconomics

LUSEM, Department of Economics, Advanced Macroeconomics

STINE HACH JUUL MADSEN

Faculty of Social Science, Department of Human Geography, Geographies of Economies: Transforming places, people and production

Faculty of Social Science, Department of Human Geography, Degree Project (B-essay)

Faculty of Social Science, Graduate School, Introduction to Quantitative Methods

TORBEN SCHUBERT

Faculty of Engineering, Department of Design Sciences, Innovation Management

Faculty of Engineering, Department of Design Sciences, Globalization of Innovation

COURSES AT OTHER UNIVERSITIES

DUNCAN KUSHNIR

Chalmers University, Architecture, Introduction to Sustainability (3h annual lecture)

MARTIN ANDERSSON

BTH, Industrial Economics and Management, Managerial Economics and Business Strategy

BTH, Industrial Economics and Management, Firms in the Global Economy

OLOF EJERMO

Norwegian NORSI-PING PhD Student Program

TORBEN SCHUBERT

NORSI, Survey of Quantitative Methods

SUPERVISION OF PHD STUDENTS

ANNE TANNER

Amonpat Poonjan, Technical University of Denmark

BO CARLSSON

LaVonne Slaton, Case Western Reserve University

MAGNUS NILSSON

Janna Alvedalen, Lund University

MARKUS GRILLITSCH

Kadri Kuusk, Lund University

MARTIN ANDERSSON

Polina Knutsson, Lund University

Lucinda David, Lund University

OLOF EJERMO

John Källström, Lund University

TEIS HANSEN

Stine Hach Juul Madsen, Lund University

Monica Keaney, Lund University

TORBEN SCHUBERT

Polina Knutsson, Lund University (co-supervision)

ÅSA LINDHOLM DAHLSTRAND

Main supervisor for Eva Berggren, Halmstad University and Chalmers University

Main supervisor for Andes Billström, Halmstad University and Chalmers University of Technology (thesis defended February 2018)

External supervisor for Kjersti Kjos Longva, PhD candidate at UiT The Arctic University of Norway and NORSI

Main supervisor for Janna Alvedalen, Lund University

POLICY REPORTS

Andersson, M. & Larsson, J.P. (2019). *Västsverige: Ekonomisk utveckling och ekonomisk geografi*, Västra Götalandsregionen, Göteborg.

Andersson, M. & Larsson, J.P. (2018). *Entreprenörskapets envisa geografi*, Kampradstiftelsen, Stockholm.

Andersson, M. & Eklund, J. (2018). *Navigera under osäkerhet – entreprenörskap, innovationer och experimentell policy*, Swedish Economic Forum Report 2018, Entreprenörskapsforum, Stockholm.

Andersson, M. (2018). *Globala Värdekedjor, Löner och Konkurrenskraft*, Svenskt Näringsliv, Stockholm.

Andersson, M. & Larsson, J.P. (2018). *Att lära av staden – ekonomi och fysisk planering i urbaniseringens tidevarv*, Entreprenörskapsforum, Stockholm.

Andersson, M. & Wernberg, J. (2018). *Den osynliga infrastrukturen – en kartläggning av mjukvarans roll och behovet av mjukvarukompetens i svenska företag*, SWEDSOFT, Stockholm.

Andersson, Martin invited as external expert of an OECD country review of SME and entrepreneurship policy in Ireland. Main task to work on a chapter on the *Local dimension of SME policy*. Part of the fact-finding mission of the OECD group in Ireland, June 2018.

Bauer, F., **Hansen, T.** & López, J.A.M. (2018). *Challenges for development of biorefineries and new forest-based value chains – insights from a social science perspective*. Report for Climate-KIC.

Edquist, C., Zabala-Iturriagagoitia, J., Buchinger, E., & Whyles, G. (2018). *Mutual Learning Exercise - MLE on Innovation-related Procurement* (Rep.). Brussels: European Commission.

Ejermo, O. (2018). *Does incubation lead to innovation? Evidence from the Swedish incubation program*, PM2018:20, Tillväxtanalys: Stockholm.

Ejermo, O. and **Fassio, C.** (2018). *The effects of immigration on economic growth – a literature study*, PM2018:07, Tillväxtanalys: Stockholm.

Fassio, C. & Athreye, S. (2018). *When do firms not use patents and trademarks to protect valuable innovations? Evidence from the SIPU 2015 survey*. UK Intellectual Property Office.

Fassio, C. & **Schubert, T.**, et al. (2018). *Sweden's Position in Global Value Chains*. First year report of the Vinnova-funded project (Project number: 2017-05382).

Klofsten, M. & **Lindholm Dahlstrand, Å.** (2018). Entrepreneurial Teaching and Learning, in OECD/EU (2018), *Supporting Entrepreneurship and Innovation in Higher Education in Austria*, OECD Skills Studies, OECD Publishing, Paris.

Nielsen, T., Palm, E., **Madsen, S.**, Nilsson, L. & Lindblad, E. (2018). *Pathways to sustainable plastics – A policy brief*.

Wernberg, J. (2018). Går allt verkligen fortare? Teknologisk förändring, entreprenörskap och experiment, in *Swedish Economic Forum Report 2018: Navigera under osäkerhet – Entreprenörskap, innovationer och experimentell policy*, M. Andersson & J. Eklund (eds.), Stockholm: Entreprenörskapsforum.

ASSIGNMENT IN POLICY BOARDS AND EVALUATION PANELS

JOAKIM WERNBERG

Expert in the inquiry regarding crowdfunding, SOU 2018:20

Member of the Advisory Board for the TRIGGER Project (EU funded research project, Full title: Transforming Institutions by Gendering contents and Gaining Equality in Research)

MARTIN ANDERSSON

Member, Scientific Council, Tillväxtanalys

Member of the Board for NORSI (Norwegian Research School in Innovation), a joint Research School managed by BI, Oslo, and NTNU, Trondheim

Member, Board of directors, FORES

External expert of an OECD country review of SME and entrepreneurship policy in Ireland

Member of the Supervisory Board of RUNIN – The Role of Universities in Innovation and Regional Development, project funded from the European Union's Horizon 2020 research and innovation programme under Marie Skłodowska-Curie grant agreement No. 722295, 2017

TEIS HANSEN

Member, Bioeconomy Advisory Board, Skåne Regional Council

ÅSA LINDHOLM DAHLSTRAND

External expert for the OECD/EU HEInnovate Review Austria, 2018-2019

DEBATE ARTICLES

Andersson, M. (2018). Kunskaps- och teknikföretagen avgörande för ekonomin, Ny Teknik, 16 June.

Andersson, M. & Eklund, J. (2018). Använd experiment för att följa upp näringspolitiken, Dagens Samhälle, 22 November.

Andersson, M., Eklund, J. & Henrekson, M. (2018). Politiken måste gynna entreprenörerna, SvD, 14 May.

Edquist, C. & Zabala-Iturriagoitia, J. M. (2018). Viewpoint: The latest EU innovation index is out. It's flawed., Science Business, 22 June.

Nielsen, T., **Madsen, S.** & **Hansen, T.** (2018). Plastikproblemet kræver skrappe metoder [The plastic problem requires harsh approaches], Politiken, 10 February.

Wernberg, J. (2018). Vården bör anpassas till den utveckling som entreprenörerna redan har påbörjat, Sydsvenskan, 14 October.

Wernberg, J. (2018). Det är nästintill arrogant att vifta bort människors intresse för sin hälsa, Sydsvenskan, 6 November.

POLICY WORKSHOPS

CHARLES EDQUIST

The Directorate for Science, Technology and Innovation (DSTI), OECD. The title was “To develop a Holistic Innovation Policy should be self-evident – for all countries and regions!”, November.

The German Development Institute arranged a workshop on Sustainable Public Procurement and Charles gave the key-note introductory speech on “Functional procurement enhances innovation for sustainability”, Lund, September.

Charles made a presentation entitled: “Make Public Procurement Drive Innovation: Specify Functions Instead of Products!” at the TAFTIE Annual Conference, 2018. TAFTIE is The European Network of Innovation Agencies, and the conference was hosted by MITA, The Agency for Science, Innovation and Technology, Vilnius, 25 April.

Met with the team of the President of Lithuania. Among the issues discussed were “Holistic innovation policy”, “The Swedish National Innovation Council” and “Functional public procurement to enhance innovation”, 6 June.

CLAUDIO FASSIO

Sweden’s Position in Global Value Chains, Lund University scholars and Vinnova project managers, Lund, 8 May.

The role of multinational firms in linking the Swedish economy to Global Value Chains, Vinnova workshop in Stockholm, 24 May.

LEA FUENFSCHILLING

TIPC innovation for transformation conference, various innovation agencies (Sweden, Norway, Finland, Mexico, South Africa, Columbia), 4 October.

MARKUS GRILLITSCH

Baltic Leadership Programme – Smart Specialisation - Entrepreneurial Discovery Process, Approx. 30 policy makers from the Baltic Sea region, 30 October.

Broadening innovation policy, developing strategies for industrial transitions, high-level EC and OECD staff involved in the programming of the structural funds for the new period, 15 October.

Seminarium Region Kronoberg: Workshop on economic renewal and transformation for regional policy makers, 18 November.

MARTIN ANDERSSON

Swedish Entrepreneurship Summit 2018

ESBRI workshop

Several seminars at the Swedish Entrepreneurship Forum

ÅSA LINDHOLM DAHLSTRAND

Invited Key-note speaker on “Commercialization of research: Academic entrepreneurship in Sweden”, at the IST Austria's Science-Industry Day 2018, September.

Invited speaker on “Smart industry - a new industrialization strategy for Sweden”, at CIMR, Birkbeck Workshop on “Innovation and the UK's Industrial Strategy: How did we get here and where are we going?”, University of London, March.

MEDIA EXPOSURE

CHARLES EDQUIST

Interviewed by the Spanish daily La Vanguardia: Para innovar y gobernar bien no hacen falta doctorados, 26 September 2018.

<https://www.lavanguardia.com/lacontra/20180926/452039981138/para-innovar-y-gobernar-bien-no-hacen-falta-doctorados.html>

JOAKIM WERNBERG

Interviewed by Dagens nyheter: Prisbevakare kan ge pengar tillbaka efter köpet, 23 December 2018.

<https://www.dn.se/ekonomi/prisbevakare-kan-ge-pengar-tillbaka-efter-kopet/>

Interviewed by Elektroniktidningen: Osynlig – men nödvändig, 15 May 2018.

<http://etn.se/index.php/nyheter/64698-osynlig-men-nodvandig>

MARTIN ANDERSSON

Interviewed by Elektroniktidningen: Osynlig – men nödvändig, 15 May 2018.

<http://etn.se/index.php/nyheter/64698-osynlig-men-nodvandig>

Interviewed by ESBRI: Jag får energi av att ha tentaklarna ute, 23 February 2018.

http://www.esbri.se/artikel_visa.asp?id=1987

ÅSA LINDHOLM DAHLSTRAND

Interviewed by Nature: “Swedish science bounces back” Nature, 28 March 2018.

<https://www.nature.com/articles/d41586-018-03805-1>

Interviewed by Ny Teknik: “Delar ut tre miljarder per år: ‘Naturligt att alla projekt inte lyckas”, 13 December 2018.

<https://www.nyteknik.se/premium/delar-ut-tre-miljarder-per-ar-naturligt-att-alla-projekt-inte-lyckas-6942155>