

UiO : **Centre for Technology, Innovation
and Culture**
University of Oslo

Annual Report 2015



TIK Centre for Technology – annual report 2015

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Letter from the Director

The TIK Centre for Technology, Innovation and Culture (Faculty of Social Sciences, University of Oslo) is currently experiencing a phase of marked positive development. During the year 2015, eight new externally funded projects were acquired and initiated. One of these is a prestigious ERC Starting Grant project awarded to Professor Kristin Asdal. The other new projects are funded by the Research Council of Norway and the European Commission (Horizon 2020 program).

The positive results in terms of project acquisition have had two important consequences for TIK. The first is that the increased external funding has made it possible to consolidate the Centre's financial situation. TIK's budget accounts have recently shifted from a deficit to a surplus, and the 5-year prognosis indicates that the Centre has good perspectives to consolidate and expand further during the coming years.

A second important consequence of the recent positive results in terms of project acquisition is that the new external funding has enabled the recruitment of ten new researchers during 2015 (one new permanently employed Associate Professor, one new externally funded senior researcher, and eight new PhD students and research assistants). These newly hired researchers, along with others that are currently being recruited, represent an important consolidation and extension of TIK's staff and scientific competence base.

With these recent developments, TIK does not only expand the size of its staff, but does also strengthen its internal composition. The Centre has currently a positive demographic structure, characterized by a large number of junior researchers as well as a majority of relatively young and middle-aged senior researchers, which will arguably represent the future of TIK. The Centre also has a quite balanced gender composition. Regarding the internationalization of its staff, TIK has recently increased the share of international employees, which now account for nearly 25% of the staff, thus coming closer to what it is typically the case in other leading Departments at UiO.

It is important to point out, however, that these recent results in relation to research activities and new projects will not be sufficient, alone, to generate a long-term permanent expansion of the TIK Centre. Their impacts will mostly be limited to the next five-year period. A crucial challenge ahead for TIK is therefore to develop a strategy for a long-term consolidation of the Centre. This long-term sustainable strategy cannot be based only on

external funding acquisition, but it will also have to take into account a second crucial dimension of the Centre's life: educational activities.

TIK's Master level education has in the last few years experienced a steady growth in the number of applicants they attract (up to 300 total applicants in the year 2015), as well as in the quality of these. TIK has in principle the possibility to enroll a greater number of these Master-level applicants, and improve the pedagogical offer we provide them with (e.g. by updating some of the existing courses, creating new courses, and establishing new international collaborations and exchange programmes). Further, TIK should also consider to strengthen the recruitment base for its Master programs by creating new Bachelor-level courses, possibly in collaboration with other Departments at the Faculty of Social Sciences and elsewhere at UiO.

In summary, a key strategy for a future and sustainable consolidation of the TIK Centre will have to take into account, along with the expansion of research project-related activities, also the need to strengthen the quality of TIK's existing educational activities and to extend these further.



A handwritten signature in blue ink that reads "Fulvio Castellacci".

Fulvio Castellacci, Director

TIK – Facts and figures

The TIK Centre at the University of Oslo was established by the senate (now the University Board) as an independent unit organized under the Faculty of Social Sciences in 1999. This unit was a merge of the former Centre for Technology and Human Values (TMV), the interdisciplinary “European master program in Society, Science and Technology” (ESST) and the Prosjektforum (project forum, which is no longer a part of the centre).

The TIK Centre carries out high quality research, education and research communication in the cross-disciplinary fields of innovation and science and technology studies.

Quick overview of TIK:

Scientific publications per year (2005-2015)	25
Masterprograms	2
Bachelor programs	0
Courses (Masters and Ph. D. courses)	11
PhD-students (per 31.12.2015)	26
Scientific man years (2015 - numbers from DBH)	23,22
Administrative man years (2015 - numbers from DBH) ¹	4,25
Total number of employees (2015 - numbers from DBH)	27,47
Budget (2015)	28.3 Million NOK
Percent of the budget that is financed by external grants (2015)	55%
Research projects with external financing (2015)	20

¹ Actual administrative years at TIK for 2015 is closer to 3,75. New head of Administration started May 1st. An extra executive officer worked in a full time position in January and February (Admin at 3,25). The extra executive office position was reduced to 50 %, starting at the end of March. The number also includes an adviser hired on an externally funded project.

Staff – new faces at TIK

Taran Thune joined the senior researcher staff as an associate professor from August 1st 2015.

TIK welcomed a total of eight new PhD candidates, see complete list of candidates in the program under PhD – Doctoral degree. Six of the new PhDs are employed at TIK: Nhat Strøm-Andersen, Artur Santoalha, Irene Øvstebø Tvedten, Tuukka Mäkitie, Bård Hobæk, and Erlend Osland Simensen.

TIK also welcomed the new postdoc Valentina Elena Tartiu.

New Head of administration, Frode Løvik, joined TIK May 1st 2015. Frode joined executive officer Anders Westby, who also started at TIK in 2015.

Professor Göran Sundqvist left his professorate at TIK in July, but continues his affiliation through a Professor II position.

Professors Erling Holden, HISF/NTNU, and Professor Ingunn Moser, Diakonhjemmet Høgskole, joined TIK in Professor II positions.

Research

Research at the TIK Centre is organized into two research groups: the Science, Technology and Culture research group and the Innovation Studies research group.

TIK's researchers in the Science, Technology and Culture research group are mainly situated within the multidisciplinary field of Science & Technology Studies (STS), and focuses on the ways in which science and technology are shaped, become institutionalized and become involved in politics. Science and technology are viewed as cultural and material practices that can be fruitfully studied from both historical and contemporary perspectives.

The innovation group focuses on understanding the complex and dynamic relationships between the technological, economic and social factors that contribute to innovation in various firms, sectors, regions and countries. The point of departure for this work is that technological change and learning are important driving forces for societal change.

Both groups are active in international networks and initiatives, including the Peder Saether Centre in Berkeley, EU-SPRI and Nordic STS.

Both groups apply for funding from a magnitude of programs and funding agents, but the dominant part of TIKs projects are funded by the Research Council of Norway, either as project coordinators or as partners in projects hosted by other institutions. Following national and university strategic decisions, TIK has also taken steps to ensure further application to, and hopefully funding from, the EU, through the Horizon 2020 Research Program.

Eight new projects launched at TIK in 2015. The most important achievement during this year has been a new ERC Starting Grant project awarded to TIK's Professor Kristin Asdal for her proposal: "Little Tools - Enacting the Good Economy: Biocapitalization and the little tools of valuation". The LittleTools project is funded by the prestigious and highly competitive Starting Grant programme of the European Research Council, and it will continue throughout the year 2020. The project will also hire three postdoc research fellows funded by the project and a PhD position. It is a highly ambitious project, characterized by several cross-cutting themes and a lot of activities aimed at both the scientific community and the general public.

Research projects at TIK in 2015

PROJECT	PROJECT LEADER	STARTING DATE	FUNDING
HappyICT - Responsible Innovation and Happiness: A New Approach to the Effects of ICTs	Fulvio Castellacci	01-des-2015	RCN - SAMANSVAR
Innovation dynamics within a multinational company: A survey-based study of Telenor	Fulvio Castellacci	01-okt-2015	Telenor
ERC StG Little Tools Enacting the Good Economy: Biocapitalization and the little tools of valuation	Kristin Asdal	01-aug-2015	EU Horizon 2020 - European Research Council Starting Grant
InGrid - Integration of Power Transmission Grids - Prospects and Challenges at National and European Levels in advancing the energy transition	Allan Dahl Andersen	01-aug-2015	RCN - ENERGIX
Utviklingen av rammen for casestudier i forbindelse med Kunnskapstriangelprosjekt I OECD	Taran Thune	01-aug-2015	Ministry of Education and Research
SusValueWaste - Sustainable path creation for innovative value chains for organic waste products	Fulvio Castellacci	01-jun-2015	RCN - BIONÆR - via NIFU
I3U Investigating the Impact of the Innovation Union	Fulvio Castellacci	01-feb-2015	EU Horizon 2020 - via Uni. Maastricht
Helseinnovasjon:Samarbeid mellom forskning, klinikk og industri	Taran Thune	01-jan-2015	South-Eastern Norway Regional Health Authority
SIVAC - Supplier Industry and Value Creation	Taran Thune	01-sep-2014	RCN - PETROSAM 2
Robust regulatory regimes? Defenses against major accidents	Helge Ryggvik	01-jun-2014	RCN - PETROMAKS 2 via IRIS
ETIS - Europeanisation of Energy-Technological Innovation Systems: drivers, consequences and strategic	Olav Wicken	01-jan-2014	NFR - ENERGIX via FNI

challenges for Norway			
The IPCC AR5 In Europe: Usability, framing and Communications og Scientific climate information	Göran Sundqvist	01-jan-2014	RCN - NORKLIMA - via CICERO
R&D Policy by Sector: A Cross Country Investigation	Fulvio Castellacci	01-okt-2013	RCN - FORFI – project transferred from NUPI
The developmental State reloaded: Brazilian industrial policy in the 21st century	Helge Ryggvik	01-sep-2013	RCN - LATINAMERIKA - via NIBR
ELSA - The Aua-Genome Project	Kristin Asdal	01-sep-2013	RCN - BIOTEK2021 - via SIFO
CenSES - Centre for Sustaniable Energy Studies	Olav Wicken	01-feb-2012	RCN - FME - via NTNU
Dissemination of Scientific Knowledge as a Policy Instrument in Climate Policy	Göran Sundqvist	01-jan-2012	RCN - NORKLIMA
RFID in Society - preparing for the Internet of things. Researching opportunities and obstacles in RFID innovation	Kristin Asdal	01-jun-2011	RCN - VERDIKT - via SIFO
Renewable energy as transition strategy	Keith Smith	01-apr-2011	RCN - RENERGI

Education

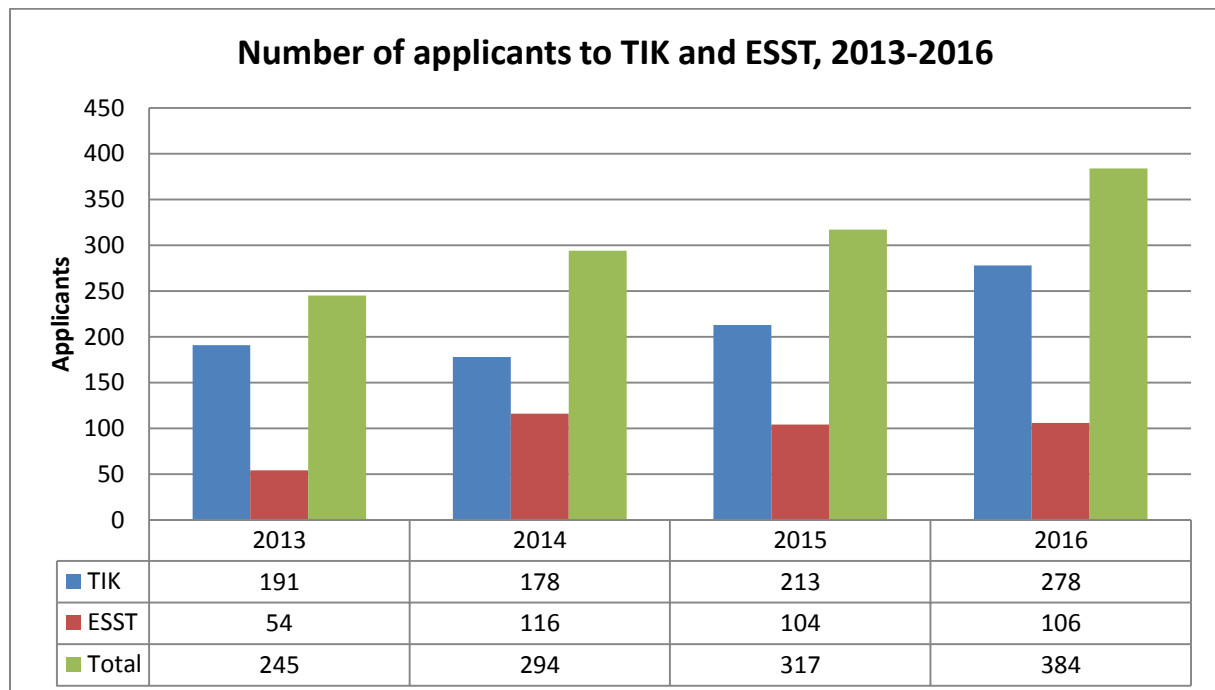
Master programs

TIK offers two programs at the master level:

- TIK - Technology, Innovation and Knowledge (2 years)
- ESST - Society, Science and Technology in Europe (1,5 years)

Rising number of applicants

30 master students are admitted in total every year, usually 20 TIK students and 10 ESST students. We have experienced a rise in applicants for the past few years, mostly to the TIK program.



Priority and quality of applicants

Students can apply to a maximum of three UiO programs in any given year, and they must make a priority list. In 2014 and 2015, around 100 of the applicants had TIK/ESST as their number one priority. The preliminary number for 2016 has risen to 130. Also, the grade point average (GPA) of applicants has been rising gradually since 2013. The GPA of admitted students in 2015 varied between B- and A. Both of these developments are positive, and are expected to increase the quality of students that will enroll in TIK's Master programmes in the coming years.

Student satisfaction

Studiebarometeret.no - a web portal made by NOKUT - for 2015 shows that TIK students find their study program engaging, educational and relevant for the job market. Students are particularly happy with the fact that the program is interesting and academically challenging (source: Studiebarometeret.no).

Other news in 2015

- Obligatory attendance was introduced for the 1st semester. There are plans to introduce more obligatory activities in 2017.
- Kristin Asdal took over as course coordinator for the STS specialization "Science and Technology in Politics and Society".
- Theses submitted: 9 ESST, 12 TIK.

Plans for 2016

- Fulvio Castellacci will substitute as master coordinator in 2016.
- The first semester course is being updated and partly reorganized. A new module on methods will be taught in autumn 2016 as part of the new fall semester course.

Teknovatøren

Teknovatøren is the TIK/ESST students' semi-scientific magazine. It receives economic support from the TIK centre. Teknovatøren published two issues in 2015: "Civilization" and "Human Performance".



From the launch of Teknovatøren's "Civilization" issue in 2015. Photo: UiO.

PhD – doctoral degree

The TIK departmental doctoral study plan in Technology, Innovation and Culture is one of seven study plans within the doctoral program that is offered by the Faculty of Social Sciences at UiO. The TIK program aims to provide both research training and a broad base of advanced knowledge in theoretical and methodological approaches within STS and innovation studies.

Disputations

Three candidates successfully defended their theses for the degree of PhD:

Candidate	Date	Thesis title	Supervisors	Committee
Linda Madsen	5.2.2015	Avian flu mobilities. Following bio(in)securities in Turkey and beyond	Kristin Asdal, TIK, og Ingunn Moser, Diakonhjemmet høgskole	Stephen Hinchcliffe, Susanne Bauer og Göran Sundqvist
Mads Dahl Gjefsen	11.5.2015	Vehicle or destination? Discordant perspectives in CCS advocacy.	Göran Sundqvist, TIK, og Sheila Jasanoff, Harvard Kennedy School	Jennie C. Stephens, Nils Markusson og Sissel Myklebust
Siri Brorstad Borlaug	17.6.2015	Excellence and innovation in research policy - external steering and internal responses.	Merle Jacob, Lunds Universitet, og Magnus Gulbrandsen, TIK	Jekob Edler, Emanuela Reale og Bjørn Stensaker

Candidates

TIK welcomed eight new PhDs in 2015, and had a total of 26 candidates enlisted in the program as of December 31st 2015:

Candidate	PhD project	Supervisor(s)	Funding
Bianca Cavicchi	Governance of bioenergy innovation systems in the rural areas of Emilia Romagna and Oppland-Hedmark.	Olav Wicken, John Bryden	NILF
Simen Gangnæs Enger New candidate in 2015	Factors affecting organisations' ability to participate and achieve EU-funding: Evidence from the Norwegian R&D sector.	Fulvio Castellacci, Magnus Gulbrandsen, samt mentor i KD Geir Arnulf	NFR/KD - offentligPhD
Morten Fosaas	Innovation Systems and Innovation Policy: Perspectives and Challenges	Jan Fagerberg og Anna Bergek	TIK - basis
Jakoba Sraml González	Creativity and the innovation process in small and medium firms	Magnus Gulbrandsen	TIK - basis

	during financial and economic turmoil: An ethnographic study		
Sveinung Grimsby New candidate in 2015	How does the Norwegian food industry act during innovation processes? A study on new product failure rate and systematic differences between successful and unsuccessful innovation projects in the food industry.	Magnus Gulbrandsen og Cathrine Finne Kure	Nofima AS
Hanne-Stine Hallingby	Modularization and dynamics in the mobile ecosystem	Magnus Gulbrandsen og Patrick Waldemar	Telenor/NFR - næringsPhD
Erlend A.T. Hermansen	The climate science-policy nexus revisited	Göran Sundqvist og Hege Westskog	CICERO
Bård Hobæk New candidate in 2015	Salmon Sustainabilities	Kristin Asdal	TIK – strategisk
Ásdis Jónsdóttir	Climate change, ecology and knowledge in Iceland: An anthropological study.	Tian Sørhaug og Gisli Palsson	TIK - basis
Christine Mee Lie	R&D Policy and green growth in East Asia	Jan Fagerberg	TIK - basis
Sylvia Lysgård	Hva dreier det seg om? Næringsliv, politikk og praksiser i to norske (miljø)saker	Göran Sundqvist og Kristin Asdal	TIK - basis
Turid Markussen	Antropologi I nord	John Law	Senter for kvinne- og kjønnsforskning (nå: STK)
Tuukka Mäkitie New candidate in 2015	Function-interactions in innovation processes: the technological innovation system of petroleum industry	Taran Thune	TIK - basis
Håkon Endresen Normann	How can we explain the R&D driven innovation policy towards renewable energy technologies in Norway, through the example of offshore wind power?	Olav Wicken	TIK - CenSES
Hilde Nykamp	Green Innovation in the Norwegian Construction Industry	Magnus Gulbrandsen	TIK - basis
Helena Nynäs	Valuation of major waterfalls in modern Norway	Sissel Myklebust og Mari Hvattum	NVE

Kjetil Olausen	Psykologi som regjeringsverktøy i norsk næringsliv: Selv- og kreativitetsteknologier blant entreprenører i kreative industrier	Tian Sørhaug og Runar Døving	Markedshøyskolen, Campus Kristiania
Hilde Reinertsen	Optics of Evaluation. Makin Norwegian foreign aid an evaluable object, 1982-1992	Kristin Asdal og Gabrielle Hecht	TIK – basis
Artur Santoalha New candidate in 2015	Smart Specialization: Where do European regions stand?	Fulvio Castellacci	TIK - strategisk
Erlend Osland Simensen New candidate in 2015	Mapping the supplier industry	Taran Thune	TIK – prosjekt: SIVAC
Guro Ådnegard Skarstad	New Fish in a New Environment: Challenges to a Comprehensive Management of Fish, Environments and Human Beings.	Kristin Asdal	NILF
Hege Rudi Standal	Universities as Strategic Actors- University management and the new era of Governance.	Magnus Gulbrandsen og Merle Jacob	TIK - basis
Nhat Strøm-Andersen New candidate in 2015	Towards a sustainable bioeconomy: The role of dynamic interplay between technology, industry and policy - a study of organic waste streams from the Norwegian food industry	Fulvio Castellacci	TIK – prosjekt: SusValueWaste
Kasper Rogde Søyland	An Innovative Century? The origins for advanced aluminium prefabrication	Olav Wicken og Finn Ørstavik	HBV
Tina Naomi Talleraas	Unlocking the Black Box of Nuclear Disarmament: A case study of the Norwegian initiative to re-politicize the bomb	Göran Sundqvist	TIK - basis
Irene Øvstebø Tvedten New candidate in 2015	Science and Corporate Policy –DNV GL as an enabler for a sustainable future"	Kristin Asdal	TIK - basis

PhD courses and seminars

- TIK 9011: PhD course in STS: The Politics and Practices of Methods was given at TIK in May. Coordinated by Hilde Reinertsen, Kristin Asdal, Noortje Marres and Ingunn Moser. 19 national and international candidates joined the course.
- Three candidates had their midway evaluation seminar, and three candidates had their final dissertation seminar
- TIK9101 TIK PhD seminars were held both in the Spring and Fall semester

TIKs candidates also benefit from TIK being involved in national and international research networks like EU-SPRI, EASST – European Association for the Study of Science and Technology, and the Norwegian Research School on Innovation (NORSI), giving access to a large number of research courses and relevant conferences.

Research communication

TIKs website

During 2015, five research based news articles were produced for TIKs web page:

1. "Fra en fjær til langt mer enn fem høns" - Linda Madsen
2. "Norsk klimapolitikk er kunnskapsløs" - Göran Sundqvist
3. "Liten tro på karbonfangst" - Mads Dahl Gjefsen
4. "Forskning og kommersialisering - hånd i hånd?" - Siri Brorstad Borlaug
5. "Predicting crime before it happens" - MA student Ailo Krogh/Teknovatøren

Two of these (no. 2 and 3) were also published on forskning.no. One was translated to English and published on TIK's English web site. In addition, 33 shorter news articles (Aktuelle saker) were written and published online. TIK's web page has between 700-1200 visitors per month.

Social media

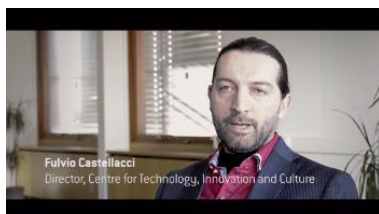
TIK has been on twitter since 2012, and in 2015 an open facebook page was created. The page has around 280 followers, and mainly targets TIK's network and potential applicants for the master and phd programs. We publish news, events, publications, available positions, TIK Talks, student information etc. The most popular posts have reached around 4500 people.

TIK Talks

In 2015, TIK started a mini-series of videos called TIK Talks. These were used to promote the centre and the research done here. The following TIK Talks were made:

1. "TIK in 2.5 minutes" - Fulvio Castellacci
2. "De uvurderlige dyrene" - Tone Druglitrø
3. "Three aspects of innovation" - Magnus Gulbrandsen

The videos were published on TIK's web site, facebook and twitter accounts, in addition to the Faculty of Social Sciences' youtube channel. The centre is considering further video production in 2016/2017.



External media dissemination

TIK researchers regularly appear in the media. The most common type of media appearance is commenting on TIK related topics in newspaper articles. Some researchers also publish articles or shorter essays in the media themselves. In 2015, 15 media appearances were registered. Notably, 9 of these were made by Helge Ryggvik in relation to the ongoing crisis in the oil sector.

Seminars and workshops

Date	Speaker	Title
January 14 th 2015	Dr Paul Benneworth, University of Twente	Social Innovation Futures – Beyond policy panacea and conceptual ambiguity
January 16 th 2015	Professor Fred Steward, University of Westminster	Energy Seminar: New policy practices for a challenge-led, broad-based model of transformative innovation
February 12 th 2015	Professor Marko Hekkert, University of Utrecht	Seminar: Energy Lessons From the Netherlands
February 20 th 2015	Dr. Anabel Marin, National Scientific and Technical Research Council (CONICET) of Argentina	TIK Seminar: Taking Advantage of Natural Resources
March 4 th 2015	Dr. Karina Sachpazidu- Wójcicka, University of Bialystok	Technology Innovation and contemporary challenges of Polish Enterprises
April 22 nd 2015	Dr. Ronan Bolton, University of Edinburgh	Low carbon energy futures: Making the markets work?
April 29 th 2015	Tina Talleraas, PhD Research Fellow, TIK	Midway seminar: Unlocking the Black Box of Nuclear Weapons
May 5 th 2015	Professor Professor Andrew Van de Ven, University of Minnesota	Government-University- Industry Ecosystems for Innovation and Economic Development
May 12 th 2015	Professor John Mathews, Macquarie University	Renewables and the greening of the energy system -- Is China driving the process?
May 20 th 2015	Professor Franco Malerba,	Catching up, sectoral systems and changes in

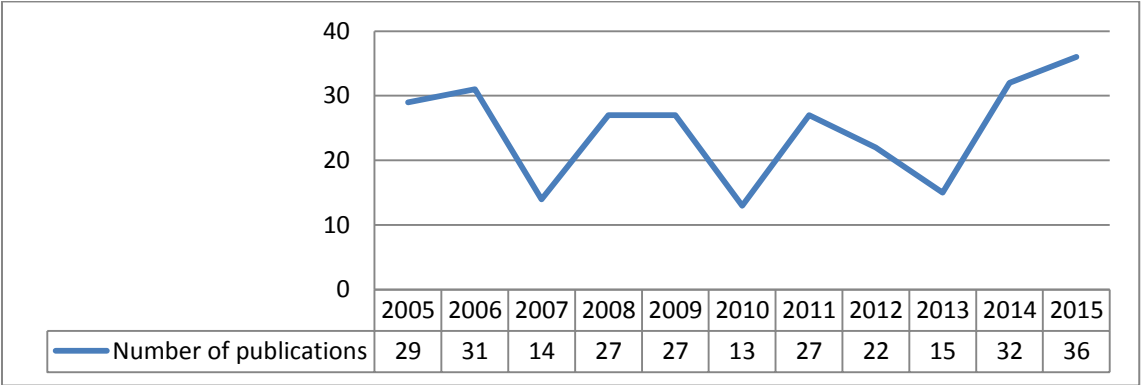
	University of Bocconi	industrial leadership
May 22 nd 2015	Helena Nynäs, The Norwegian Water Resources and Energy Directorate, PhD candidate at TIK	Midway seminar: Valuation of major waterfalls in modern Norway
May 26 th 2015	Erlend A. T. Hermansen, CICERO, PhD candidate at TIK	Final dissertation seminar: The climate science-policy nexus revisited
August 24 th 2015	Kasper Rogde Søyland, HBV, PhD candidate at TIK	Final dissertation seminar: An Innovative Century - Origins for Advanced Aluminum Prefabrication
September 3 rd 2015	Christin Mee Lie, PhD Research Fellow, TIK	Midway seminar: The impact of innovation and technological development on East Asia`s path towards green growth
September 23 rd 2015	Dr. Darrin Durant, University of Melbourne	Misreading Experts: The case of the politics of climate change
October 16 th 2015	Director Fulvio Castellacci, Sterlacchini, A, Rybalka, M., Cappelen, Å., Straahof, B., Sander, J.T.	The Effects of R&D Policy: New Research Directions and Policy Implications
October 21 st 2015	Professor Marianne Lien Social Anthropology, UiO	TIK Seminar: Domestication as Generative Practice
November 11 th 2015	Professor Jan Fagerberg TIK	The Triple Challenge for Europe: The Economy, Climate Change, and Governance
November 16 th 2015	Hilde Nykamp, PhD Research fellow, TIK	Final dissertation seminar: Green Innovation in the Norwegian Construction Industry.
November 24 th 2015	TIK researchers	TIK's Publication Workshop

Publications

2015 has been a good year for TIK in regards to scientific publications. Four new books have been published. Many of TIKs researchers on both junior and senior level have had articles published by prestigious publishers, such as Oxford University Press, Edward Elgar and MIT Press.

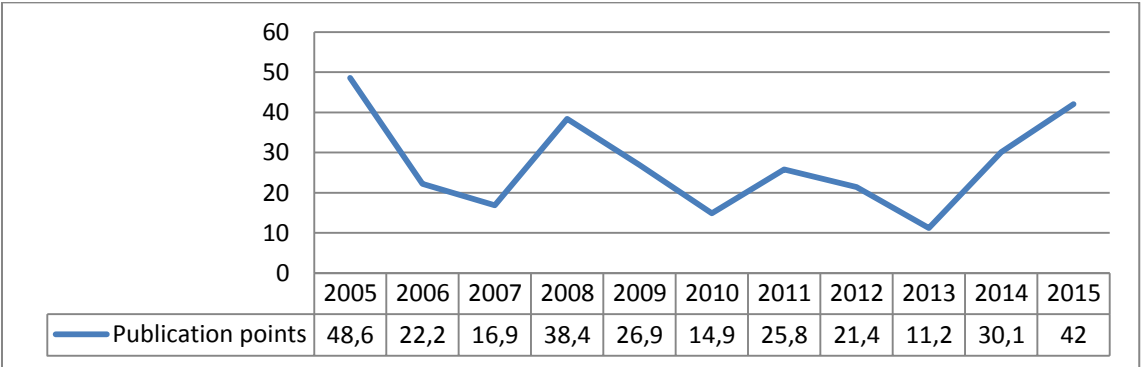
We've gone from 32 to 36 publications, and 16 out of the 36 are level two publications.

The graph below shows TIKs number of scientific publications in the period 2005-2015:



2015 also saw the introduction of a new formula for the national publication indicator. The new formula is created with the aim of closing the gap between the scientific domains. Using the old indicator, the Social Sciences and Humanities have gained more publication points relative to the Natural Sciences, based in a more traditional publication strategy, where one or just a few authors write monographs. The new indicator is set to even the field, emphasizing, among other things, international cooperation.

The positive trend on the number of publication points continues, standing at 42 points in 2015. The graph below shows TIKs publication points in the period 2005-2015:



Books

Andersen, Allan Dahl; Johnson, Björn; Anabel, Marin; Kaplan, David; Stubrin, Lilia; Lundvall, Bengt-Åke; Kaplinsky, Raphael.

Natural resources, Innovation and Development. Globelics Thematic Review. Aalborg Universitetsforlag 2015 (ISBN 978-87-7112-367-8) 154 s.

Castellacci, Fulvio; Fevolden, Arne Martin.

Innovation and Liberalization in the European Defence Sector: A Small Country Perspective. Edward Elgar Publishing 2015 (ISBN 978 1 78347 787 6) 176 s.

Fagerberg, Jan; Laestadius, Staffan; Martin, Ben R.

The triple Challenge for Europe: Economic Development, Climate Change and Governance. Oxford University Press 2015 (ISBN 978-0-19-874741-3) 275 s.

Fagerberg, Jan; Mowery, David C.

Innovation, Technology and Economic Change. Edward Elgar Publishing 2015 (ISBN 9781783474998) 913 s. The International library of critical writings in economics(306)



Edited Special issues

Nordic Journal of Science and Technology Studies – Special Issue: Engaging Environments 2015, Vol. 3, No 2.

Publications reported to the Norwegian Science Index (NVI) in 2015:

Andersen, Allan Dahl.

A functions approach to innovation system building in the South: the pre-Proálcool evolution of the sugarcane and biofuel sector in Brazil. *Innovation and Development* 2015; Volume 5.(1) s.1-21

Andersen, Allan Dahl; Johnson, Björn.

Low-carbon development and inclusive innovation systems. *Innovation and Development* 2015 ;Volume 5.(2) s.279-296

Asdal, Kristin.

Enacting values from the sea: On innovation devices, value practices, and the co-modifications of markets and bodies in aquaculture. In: *Value Practices in the Life Sciences & Medicine*. Oxford University Press 2015 ISBN 978-0-19-968958-3. s.168-185

Asdal, Kristin.

What is the issue? The transformative capacity of documents. *Distinktion : Scandinavian Journal of Social Theory* 2015; Volume 16.(1) s.74-90

Bentley, Peter; Gulbrandsen, Magnus; Kyvik, Svein.

The relationship between basic and applied research in universities. *Higher Education* 2015; Volume 70.(4) s.689-709

Bergmans, Anne; Sundqvist, Göran; Kos, Drago; Simmons, Peter.

The participatory turn in radioactive waste management: Deliberation and the social-technical divide. *Journal of Risk Research* 2015 ;Volum 18.(3) s.347-363

Borlaug, Siri Brorstad.

Moral hazard and adverse selection in research funding: Centres of excellence in Norway and Sweden. *Science and Public Policy* 2015

Borlaug, Siri Brorstad; Thune, Taran Mari; Gulbrandsen, Magnus.

Samspill mellom utdanning, forskning og innovasjon - kunnskapstriangelet i politikk og praksis. I: *Hva skjer i universiteter og høyskoler? Perspektiver fra vitenskapelig ansatte og studenter*. Universitetsforlaget 2015 ISBN 9788215024349. s.136-148

Capasso, Marco; Treibich, Tania; Verspagen, Hubertus.

The medium-term effect of R&D on firm growth. *Small Business Economics* 2015; Volume 45.(1) s.39-62

Castellacci, Fulvio; Lie, Christine Mee.

Do the effects of R&D tax credits vary across industries? A meta-regression analysis. *Research Policy* 2015 ;Volum 44.(4) s.819-832

Castellacci, Fulvio.

Group Affiliation and Firms' Export Intensity: A Cross-Country Study. *Review of Economics and Institutions* 2015 ;Volum 6.(1) s.2-22

Castellacci, Fulvio.

Institutional Voids or Organizational Resilience? Business Groups, Innovation, and Market Development in Latin America. *World Development* 2015 ;Volum 70.(June) s.43-58

Castellacci, Fulvio; Fevolden, Arne Martin.

Innovation and Liberalization in the European Defence Sector: A Small Country Perspective. Edward Elgar Publishing 2015 (ISBN 978 1 78347 787 6) 176 p.

Castellacci, Fulvio; Pons, Saira.

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