

Lena Axén

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Ämne: N2016/04094/FÖF Vinnovas redovisning av uppdrag att i samarbete med OECD planera och arrangera en konferens

Bifogade filer: Bilaga 1. Program Smart Industry Enabling the Next Production Revolution....pdf; Bilaga 2. Deltagarlista Smart Industry Enabling the Next Production Revo....pdf; Missiv rapportering OECD-konferens 17-18 nov 2016.pdf; Rapportering av Uppdrag att i samarbete med OECD planera och arrangera e....pdf

Kategorier: Lena

Insänder härmed Vinnovas redovisning av uppdrag angående dnr N2016/04094/FÖF "Uppdrag att i samarbete med OECD planera och arrangera en konferens kring smart industri".

Med vänlig hälsning

Registraturen

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Datum
2017-03-22
Projektnr

Diariennr
2016-03497
Ert diariennr
N2016/04094/FÖF

Näringsdepartementet

Rapportering av Uppdrag att i samarbete med OECD planera och arrangera en konferens kring smart industri

Vinnova rapporterar härmed uppdraget att i samarbete med OECD planera och arrangera en konferens kring smart industri i enlighet med Regeringsbeslut 2016-06-09.

I detta ärende har generaldirektör Charlotte Brogren beslutat. Göran Marklund har varit föredragande. I den slutliga handläggningen har även Karin Stridh och Marianne Löfgren deltagit.

Charlotte Brogren

Smart Industry: Enabling the Next Production Revolution – Implications and Strategies for Industry and Policy

Clarion Hotel Sign, Stockholm
November 17-18, 2016

Objective

Bringing together policymakers, business representatives, leading academics and policy analysts, this conference will examine the industrial and policy implications of possible changes in production over the next 10-15 years. The deliberations will draw on the conclusions of a two-year OECD project on the Next Production Revolution. The discussions at this conference will inform a final OECD publication on future production to be released in early 2017.

Program Overview

Thursday November 17

Item	Time	Title
1	08:00-09:00	Registration
2	09:00-09:20	Opening – Minister’s and the OECD’s introduction
3	09:20-10:30	What might production look like in 10 years?
4	10:30-11:00	Coffee break – segmenting to session rooms
5	11:00-12:30	Parallel sessions I-IV
6	12:30-13:30	Lunch break – opening to plenary room
7	13:30-14:00	Key points from parallel sessions – Summaries by session
8	14:00-15:15	Policy priorities: the view from business
9	15:15-15:45	Coffee break
11	15:45-16:30	US government initiatives to support advanced manufacturing
12	16:30-17:00	Reflections from day 1
13	17:00-18:00	Open mingling
14	18:30-20:30	Dinner arrangements

Friday November 18

Item	Time	Title
15	08:00-09:00	Registration
16	09:00-09:20	Opening Minister Ylva Johansson, Minister Mikael Damberg and Dominique Guellec, OECD
17	09:20-10:20	Diffusing new technologies and supporting SMEs – What can governments do?
18	10.20-11.00	Coffee break
19	11:00-12:00	National strategies for competitiveness in the next production revolution – an exchange of experiences
20	12:00-13:00	Lunch break – segmenting to session rooms
21	13:00-14:30	Parallel sessions I-IV
22	14:30-15:15	Coffee break – opening to plenary room
23	15:15-15:45	Key points from parallel sessions
24	15:45-16:30	Next Production Revolution - Take-home messages
25	16.30	End of conference

Program Detail

Plenary moderator:

Ms **Sylvia Schwaag Serger**, Adjunct Professor, Executive Director, International Strategy and Networks, Vinnova

Thursday 17 November

1	Registration	08.00-09.00
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2	Plenary	09.00-09.20
	Opening session – Minister´s and the OECD´s introduction	

The Conference will be opened by Mr **Mikael Damberg**, Minister for Enterprise and Innovation, Sweden and Mr **Douglas Frantz**, Deputy Secretary-General, OECD. Minister Damberg will welcome participants, present the conference objectives and outline the Swedish government's flagship policies related to the conference. Mr Frantz will describe the goals of recent OECD work on Next Production Revolution and how the conference will facilitate the development of OECD policy recommendations.

3	Plenary	09.20-10.30
	What might production look like in 10 years?	

This session will discuss production outlooks and scenarios in relation to megatrends, emerging technologies and future scenarios outlined in the forthcoming OECD Science, Technology and Innovation Outlook, 2016 (an OECD biannual flagship publication).

- Mr **Michael Keenan**, Senior policy analyst, Directorate for Science Technology, OECD (12-15 min)
- Mr **Richard Kitney**, Professor of BioMedical Systems Engineering, Imperial College London
- Mr **Per Lyrvall**, Country Manager Sweden, Stora Enso, Sweden
- Ms **Monica Bellgran**, Professor Mälardalen University and the Association of Swedish Engineering Industries
- Ms **Charlotte Brogren**, Director General, Vinnova

Parallel session I 11.00-12.30

5A Foresight and public attitudes in relation to the next production revolution

This session addresses two further aspects of the OECD's recent work on the Next Production Revolution, namely: in preparing for future change, how should governments develop and use foresight analysis?; and, what should governments do to address public attitudes to – and sometimes anxieties over - technological change in production.

Moderator: Mr **Göran Marklund**, Deputy Director General External Matters; Director and Head of Operational Development and Analysis Division, Vinnova.

- Mr **David Winickoff**, Senior Policy Analyst, Directorate for Science, Technology and Innovation, OECD
- Ms **Eva Lindström**, State Secretary to Mikael Damberg, Minister for Enterprise and Innovation
- Mr **Attila Havas**, Senior Research Fellow, Hungary Academy of Sciences, Hungary
- Ms **Klara Sekanina**, Member of the Austrian Council for Research and Technology Development
- Ms **Melanie Smallman**, Lecturer and Deputy Director, Responsible Research and Innovation Hub, Department of Science and Technology Studies, University College London
- Mr **Petri Peltonen**, Under-Secretary of State, Finland

5B**Parallel session II 11.00-12.30****Biotechnology and bio-production**

Progress in science has yielded tools that permit a bio-based revolution in production. Bio-based batteries, artificial photosynthesis and micro-organisms that produce biofuels are just some among the recent breakthroughs. But a range of regulatory and other policies are needed to realise the promise of recent developments. This session examines the key technologies and policy priorities.

Moderator: Ms **Jenni Nordborg**, PhD, Director and Head of Health Division, Vinnova

- Mr **James Philp**, Policy Analyst, Science and Technology Policy Division, OECD
- Mr **Stefano Facco**, Head of New Business Development, Novamont, Italy
- Mr **Jon Haag**, Director Consumer Insights, BillerudKorsnäs, Sweden
- Mr **Stephen James**, Vice-President, Head of Research and Translation Science, SOBI, Sweden
- Ms **Malin Parkler**, Country Manager Pfizer, Sweden

5C**Parallel session III 11.00-12.30****New materials and nanotechnologies**

Progress in materials science and computation will permit a simulation-driven approach to developing new materials. This will reduce time and cost as companies perform less repetitive analysis. It will also shorten the time between materials discovery and their commercial use. Nanotechnology is also increasingly used in production processes and manufactured products. This session will examine the production potential of these related technologies and the policy issues they raise.

Moderator: Ms **Katrin Danerlöv**, PhD, Analyst, Vinnova

- Ms **Steffi Friedrichs**, Policy Analyst, Directorate for Science, Technology and Innovation, OECD
- Mr **Andreas Bhagwani**, CEO, Nanologica, Sweden
- Mr **Jesper Ederth**, Manager Strategic Research, Sandvik Materials technology, Sweden
- Mr **Greg Olson**, Chief Science Officer, QuesTek Innovations LLC, USA, and Walter P. Murphy Professor of Materials Science and Engineering, Northwestern University.
- Ms **Stacey Sörensen**, Pro vice chancellor for research and research infrastructures, Lund University, Sweden

5D	Parallel session IV 11.00-12.30
	Future production and 3D printing

3D printing has experienced significant recent innovation, making printers smaller, more affordable and able to print with a wider variety of media. Some observers forecast important environmental benefits from 3D printing and a major shift in how production is distributed. This session examines these claims and considers the implications for policy.

Moderator: Ms **Margareta Groth**, PhD in Materials Processing, MSc, Head of Industrial Technologies Department, Vinnova

- Mr **Shardul Agrawala**, Head of the Environment and Economy Integration Division, OECD
- Mr **Günter Hörcher**, Head of Research Strategy, Fraunhofer IPA, Germany
- Ms **Danica Kragic**, Director, Centre for Autonomous systems, KTH, Sweden
- Ms **Cecilia Warrol**, Programme Director, Production2030, The Association of Swedish Engineering Industries
- Ms **Mi Åberg**, Technical Concept Designer, Tetra Pak, Sweden

6	Lunch	12.30-13.30
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7	Plenary	13.30-14.00
	Key points from the parallel sessions: Summaries by session rapporteurs	

Report from Parallel Sessions by moderators

4 x 5 minutes

8	Plenary	14.00-15.15
	Policy priorities: the view from business	

From perennial policy considerations, such as the suitability of education and training systems, to ICT infrastructures, standards required for the Internet-of-Things, and regulations governing safety in synthetic biology, many policy settings will affect business' use of the technologies which are central to the next production revolution. Framework conditions will also shape how companies innovate and develop business models best suited to the new technologies. This discussion will address the following questions:

- What are the priorities for policy reform and why?
- To facilitate future production, what must governments do that they have not done already?

Moderator: Mr **Dominique Guellec**, Head of the Science and Technology Policy Division, Directorate for Science, Technology and Innovation, OECD

- Mr **Jacob Wallenberg**, Chairman Investor AB, Sweden
- Ms **Suzanne Håkansson**, Vice President Health Care Affairs, AstraZeneca, Sweden
- Mr **Chaisung Lim**, Chairman of the Korea Industry 4.0 Association, Korea
- Ms **Maria Weiland**, Director Business Development R&T, Saab Aerostructures, Sweden
- Mr **Richard Johnson**, Chairman, OECD/BIAC Technology & Innovation Committee

9	Coffee break	15.15-15.45
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11	Plenary	15.45-16.30
	US government initiatives to support advanced manufacturing	

Mr **William B. Bonvillian**, Director of the Massachusetts Institute of Technology's Washington, D.C. Office, USA

Together with Ms Sylvia Schwaag Serger

12	Plenary	16.30-17.00
	Reflections from day 1	

Ms **Eva Lindström**, State Secretary to Mikael Damberg, Minister for Enterprise and Innovation, Sweden

Mr **Dominique Guellec**, Head of the Science and Technology Policy Division, Directorate for Science, Technology and Innovation, OECD

13	Open mingling	17.00 – 18.00
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14	Dinner arrangements	18.30 – 20.30
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Friday 18 November

15 Registration 08.00-09.00

16 Plenary 09.00-09.20
Opening

Ms **Ylva Johansson**, Minister for Employment and Integration, Sweden

Mr **Mikael Damberg**, Minister for Enterprise and Innovation, Sweden

Mr **Dominique Guellec**, Head of the Science and Technology Policy Division, Directorate for Science, Technology and Innovation, OECD

17 Plenary 09.20-10.20
Diffusing new technologies and supporting SMEs – what can governments do?

An important way in which framework policies affect the diffusion of technology is through their influence on the process of resource allocation to firms. But dedicated institutions for technology diffusion can also play an important role. Dedicated technology diffusion institutions include industrial extension programs, applied technology centres and university technology transfer offices. Networks, partnerships and open source collaborations are also increasingly important. This session examines what is known about the best designs and operational practices for institutions that facilitate diffusion of existing technologies. It will also consider the role of SMEs as sources of new production technologies.

- Mr **Philip Shapira**, Professor, University of Manchester, UK, and Georgia Institute of Technology, USA (15 min)
- Ms **Mimmi Alladin**, Head of Business Development, Siemens, Sweden
- Mr **William B. Bonvillian**, Director of the Massachusetts Institute of Technology's Washington, D.C. Office, USA
- Mr **Johan Frisk**, CEO, Opiflex, Sweden
- Ms **Ulrike Tagscherer**, Manager Business Model Development, Fraunhofer-Gesellschaft

18 Coffee break 10.20 – 11.00

	Plenary	11.00-12.00
19	National strategies for competitiveness in the next production revolution – an exchange of experiences	

Ministers and senior officials from invited countries will consider the key challenges faced today in preparing for science and technology-driven changes in production, the approaches being adopted, the most appropriate areas for international co-operation, and the lessons learned from national strategies for industrial development.

The session will be chaired by Mr **Mikael Damberg**, Minister for Enterprise and Innovation, Sweden.

- Mr **Matthias Machnig**, Staatssekretär im Bundesministerium für Wirtschaft und Energie, Germany
- Ms **Dilek Ayhan**, State Secretary to Minister of Trade, Industry and Fishery, Norway
- Ms **Katarina Areskoug Mascarenhas**, Head of European Commission's Representation in Sweden

20	Lunch	12.00-13.00
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	Parallel session I	13.00-14.30
21A	Skills, job-creation and labour market – new approaches?	

The Next Production Revolution will accelerate changes in the demand for skills in production and related services and could deeply affect labor market dynamics. Policy challenges are likely to arise in labor markets and in education and training systems. This parallel session will examine the emerging evidence relevant to these developments, reflect on likely future scenarios and consider the policy challenges which may be required.

Moderator: Mr **Göran Marklund**, Deputy Director General External Matters; Director and Head of Operational Development and Analysis Division, Vinnova

- Ms **Katharine Mullock**, Labour Market Economist, Directorate for Employment, Labour and Social Affairs, OECD
- Mr **Niklas Johansson**, State Secretary to Mikael Damberg, Minister for Enterprise and Innovation, Sweden
- Mrs **Nanna Höjlund**, Vice-President, LO - The Danish Confederation of Trade Unions
- Mr **Michael J. Handel**, Associate Professor, Department of Sociology and Anthropology, Northeastern University, USA
- Ms **Stephanie Jamet**, Senior Policy Analyst, Directorate for Education and Skills, OECD

21B	Parallel session II: 13.00-14.30
	Circular flows, sustainability and environment

Increasing the use of renewable resources in relation to production and related systems of services is essential for environmental sustainability. Doing so raises challenges in terms of business models and the design of effective and efficient policy measures. This session examines key policy challenges and priorities, as well as good business practices.

Moderator: Ms **Margareta Groth**, PhD in Materials Processing, MSc, Head of Industrial Technologies Department, Vinnova

- Mr **Nick Johnstone**, Head, Structural Policies Division, Directorate for Science, Technology and Innovation, OECD
- Mr **Johan Felix**, Chalmers Industriteknik, Sweden
- Ms **Mari Pansar**, Director, Resource-wise and carbon-neutral society, Sitra, Finland.
- Ms **Erja Ämmälähti**, Senior Advisor, Tekes, Finland
- Mr **Jeremy Faludi**, Sustainable Design Strategist & Educator, USA

21C	Parallel session III: 13.00-14.30
	Higher education, research and linking business to the next production revolution

Critical for the impact of research and higher education on innovation and business is how they link and interact with each other in connection with industrial technological development. There are a number of policy challenges in this context, including incentive structures, the design of public-private partnerships and funding schemes, and the nature of governance. This parallel session focuses on key policy challenges and will consider good policy practices across countries.

Moderator: Ms **Judit Wefer**, PhD, EU Policy coordinator, Vinnova

- Mr **Mario Cervantes**, Head of Secretariat for the OECD Working Party on Innovation and Technology Policy (TIP), Directorate for Science, Technology and Innovation, OECD
- Ms **Eva Lindström**, State Secretary to Mikael Damberg, Minister for Enterprise and Innovation, Sweden
- Mr **Martin Bunčák**, Vice Chair Technology Agency, the Czech Republic
- Mr **Eoin O'Sullivan**, Director, Centre for Science, Technology & Innovation Policy (CSTI), University of Cambridge, UK
- Ms **Tuula Teeri**, President Aalto University, Finland

21D	Parallel session IV: 13.00-14.30
	Digitilization and robotization

ICT is driving a transformation of production. Two trends make digital technologies transformational. The first is cost reduction, which has enabled wider diffusion of the technologies, including to SMEs. The second and more important trend is the combination of different ICTs and their convergence with other technologies. The pervasiveness of digital technologies has a consequence that many policy settings influence their use. This session examines the key issues that governments need to consider.

Moderator: Ms **Cecilia Sjöberg**, PhD, Director and Head of services and ICT Division, Vinnova

- Mr **Christian Reimbach-Kounatze**, Policy analyst, Directorate for Science, Technology and Innovation, OECD
- Mr **Stephen Ezell**, Vice President, Global Innovation Policy, The Information Technology & Innovation Foundation, USA
- Mr **Stefan Drakensjö**, Head of Robots & Applications ABB AB, Sweden
- Ms **Sara Mazur**, Vice President and Head of Ericsson Research, Ericsson AB Sweden
- Ms **Charlotte Brogren**, Director General, Vinnova

22	Coffee 14.30-15.15
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23	Plenary 15.15-15.45
	Key points from the parallel sessions: Summaries by session rapporteurs

Report Parallel Sessions by moderators

24	Plenary 15.45-16.30
	Next Production Revolution - Take-home messages

- Ms **Eva Lindström**, State Secretary to Mikael Damberg, Minister for Enterprise and Innovation, Sweden
- Ms **Karolina Skog**, Minister for the Environment, Sweden
- Ms **Dilek Ayhan**, State Secretary to Minister of Trade, Industry and Fishery, Norway
- Mr **Dominique Guellec**, Head of the Science and Technology Policy Division, Directorate for Science, Technology and Innovation, OECD.

25	End of conference 16.30
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Deltagarförteckning Smart Industry Conference 17-18 november 2016 i Stockholm

Förnamn	Efternamn	Organisation	Land
Tuula	Teeri	Aalto University	Finland
Jesper	Ederth	AB Sandvik Materials Technology	Sweden
Urban	Wass	AB Volvo	Sweden
Patricia	Kempff	ABB	Sweden
Stefan	Thorburn	ABB	Sweden
Anders	Kettis	ABB AB	Sweden
Stefan	Drakensjö	ABB Robotics	Sweden
Teresa	Jonek	Almega - the Employers' Organisation for the Swedish Service Sector	Sweden
Tuula	Ahlström	American Embassy	Sweden
Suzanne	Håkansson	AstraZeneca AB	Sweden
Kerstin	Classon	Australian Trade Commission	Sweden
Klara	Sekanina	Austrian Council for Research and Technology Development	Switzerland
Mikael	Klintberg	Automation Region	Sweden
Karolina	Winbo	Automation Region	Sweden
Lars-Göran	Larsson	Bearing Group Ltd.	Sweden
Sabine	Mayer	Bergfors	Sweden
Jon	Haag	BillerudKorsnäs AB	Sweden
Daniel	Lund	Biopharmaceutical Supply	Sweden
Göran	Liljegren	Blue Institute	Sweden
Lena	Sellgren	Business Sweden	Sweden
Carin	Skoglar	Business Sweden	Sweden
Melinda	From	Business Värmland	Sweden
Mutlu	Akin	Capital Markets Board of Turkey	Turkey
Unal	Eryilmaz	Capital Markets Board of Turkey	Turkey
Talat	Ulussever	Capital Markets Board of Turkey	Turkey
Thomas	Niebel	Centre for European Economic Research (ZEW) Mannheim	Germany
Antonina	Levashenko	Centre OECD-Russia, RANEP	Russia
Jon	Johnsson	CEVT AB	Sweden
Åsa	Fasth-Berglund	Chalmers	Sweden
Thomas	Almesjö	ChromoGenics AB	Sweden
Johan	Felix	CIT Recycling Development	Sweden
Johan	Gunnarsson	Combitech	Sweden
Carolina	Brånby	Confederation of Swedish Enterprise	Sweden
Maria	Lindqvist	County Administrative Board of Stockholm	Sweden
Annika	Markovic	Delegation of Sweden to the OECD and UNESCO	Sweden
Staffan	Vallin	Delegia	Sweden
Per	Willén	Delegia	Sweden
Jan	Lindoff	Doff Invest, MITC	Sweden
Henk	Gritter	Dutch Ministry of Economic Affairs	The Netherlands
Per	Henricsson	Elektroniktidningen	Sweden
Mariano Hermar	Mujica	Embassy of Argentina	Sweden
Smyth	Louise	Embassy of Ireland	Sweden
Claudia	Keller Lapayre	Embassy of Mexico	Sweden
David	Ruiz	Embassy of Mexico	Sweden
Kai Age	Eide	Embassy of Norway	Sweden
Javier	Jiménez-Ugarte	Embassy of Spain	Sweden
Maria	Lonnberg	Embassy of Sweden, Office of Science and Innovation	USA
Ruiting	Ai	Embassy of the People's Republic of China in Sweden	Sweden
Håkan	Gergils	Entreprenörskapsforum	Sweden
Sofi	Elfving	Ericsson AB	Sweden
Ulrika	Engström	Ericsson AB	Sweden
Torbjörn	Lundahl	Ericsson AB	Sweden
Sara	Mazur	Ericsson AB	Sweden
Rene	Summer	Ericsson AB	Sweden
Nina	Washington	Ericsson Research	Sweden
Katarina	Areskoug Mascarenhas	European Commission	Sweden
Jeremy	Faludi	Faludi Design	USA
Fredrik	Sidahl	Fordonskomponentgruppen - FKG	Sweden
Günter	Hörcher	Fraunhofer IPA	Germany
Ulrike	Tagscherer	Fraunhofer-Gesellschaft	Germany
Carolina	Sundell	Gaudeamus	Sweden
Carsten	Dippel	German Federal Ministry for Economic Affairs and Energy	Germany
Mattias	Machnig	German Federal Ministry for Economic Affairs and Energy	Germany
Richard	Johnson	Global Helix LLC	USA
David	Motander	Google	Sweden
Sören	Andersson	Government Offices of Sweden	Sweden
Ninni	Andersson	Government Offices of Sweden	Sweden
Susanne	Adlercreutz	Governmental Offices of Sweden	Sweden
Isik	Percin Demircelik	HACETTEPE UNIVERSITY	Turkey
Boris	Guina	HAMAG-BICRO	Croatia
Jenny	Sperens	HIQ AB	Sweden
Zita	Fáskerti	Hungarian Embassy	Sweden
Lars	Wiigh	IBM Svenska AB	Sweden

Chantelle	Kiernan	IDA	Ireland
Ola	Asplund	IF Metall	Sweden
Aleksandar	Zuza	IF Metall	Sweden
Eskil	Ullberg	IKU	Sweden
Richard	Kitney	Imperial College	United Kingdom
Anders	Blom	Innovair	Sweden
Zoë	Webster	Innovate UK	United Kingdom
Tina	Nordlander	Innovation Norway	Sweden
Attila	Havas	Institute of Economics, CERS, HAS	Hungary
Johan	Falk	Intel Corporation	Sweden
Jacob	Wallenberg	Investor AB	Sweden
Olle	Samuelson	IQ Samhällsbyggnad AB	Sweden
Eva	Schelin	IQ Samhällsbyggnad AB	Sweden
Stephen	Ezell	ITIF	USA
Cathie	Hall	K3	United Kingdom
Gaukur	Sigurdsson	K3	Iceland
Madelene	Sandström	KK-stiftelsen	Sweden
Peter	Kopelman	Kopelman Consulting AB	Sweden
Ahmet Hamdi	Demircelik	KOSGEB	Turkey
Asli Gaye	GENÇ	KOSGEB	Turkey
Danica	Kragic	KTH Royal Institute of Technology	Sweden
Anna	Kramers	KTH Royal Institute of Technology	Sweden
Väino	Tarandi	KTH Royal Institute of Technology	Sweden
Jerker	Delsing	Luleå University of Technology	Sweden
Anders	Lundkvist	Luleå University of Technology	Sweden
Valeriy	Vyatkin	Luleå University of Technology	Sweden
Stacey	Sörensen	Lund University	Sweden
Harald	Egner	Manufacturing Technology Centre / HVMC	United Kingdom
William	Bonvillian	Massachusetts Institute of Technology	USA
Magnus	Larsson	MAX IV Laboratory	Sweden
Åsa	Danell	Ministry for Enterprise and Innovation	Sweden
Maria	Ramstedt	Ministry for Foreign Affairs	Sweden
Seppo	Kangaspunta	Ministry of Economic Affairs and Employment	Finland
Martti	Myllylä	Ministry of Economic Affairs and Employment	Finland
Petri	Peltonen	Ministry of Economic Affairs and Employment	Finland
Duygu	Ercan Mörel	Ministry of Economy	Turkey
Dimitrijus	Kucevicius	Ministry of Economy of the Republic of Lithuania	Lithuania
Magnus	Härviden	Ministry of Education and Research	Sweden
Mats	Johnsson	Ministry of Education and Research	Sweden
Anders	Jörnsten	Ministry of Education and Research	Sweden
Josefine	Boman	Ministry of Employment	Sweden
Jonna	Jonsson	Ministry of Employment	Sweden
Kirsti	Vilen	Ministry of Employment and the Economy	Finland
Håkan	Alm	Ministry of Enterprise and Innovation	Sweden
Emilie	Anér	Ministry of Enterprise and Innovation	Sweden
Joakim	Bourelius	Ministry of Enterprise and Innovation	Sweden
Johanna	Carnö	Ministry of Enterprise and Innovation	Sweden
Mikael	Damberg	Ministry of Enterprise and Innovation	Sweden
Karin	Eckerdal	Ministry of Enterprise and Innovation	Sweden
Magnus	Granlund	Ministry of Enterprise and Innovation	Sweden
Andréa	Grängsjö	Ministry of Enterprise and Innovation	Sweden
Andreas	Halvarsson	Ministry of Enterprise and Innovation	Sweden
Johan	Harvard	Ministry of Enterprise and Innovation	Sweden
Niklas	Johansson	Ministry of Enterprise and Innovation	Sweden
Camilla	Lehorst	Ministry of Enterprise and Innovation	Sweden
Eva	Lindström	Ministry of Enterprise and Innovation	Sweden
Sofia	Nyman	Ministry of Enterprise and Innovation	Sweden
Carl	Rosen	Ministry of Enterprise and Innovation	Sweden
Per	Stagnell	Ministry of Enterprise and Innovation	Sweden
Lena	Svendsen	Ministry of Enterprise and Innovation	Sweden
Jennie	Sölving	Ministry of Enterprise and Innovation	Sweden
Altin	Vejsiu	Ministry of Enterprise and Innovation	Sweden
Richard	Vesterberg	Ministry of Enterprise and Innovation	Sweden
Åsa	Sterte	Ministry of Finance	Sweden
Emanuel	Badehi Kullander	Ministry of Foreign Affairs	Sweden
Andreas	Vass	Ministry of Foreign Affairs	Sweden
Malena	Swanson Falk	Ministry of the Environment and Energy	Sweden
Anna Carin	Thomé	Ministry of the Environment and Energy	Sweden
Mikael	Gröning	Mälardalen University	Sweden
Andreas	Bhagwani	Nanologica	Sweden
Erik	Dahlberg	National Board of Trade	Sweden
Magnus	Rentzhog	National Board of Trade	Sweden
Michael	Handel	Northeastern University	USA
Gregory	Olson	Northwestern University	USA
Dilek	Ayhan	Norwegian Ministry of Trade, Industry and Fisheries	Norway
Arne	Benjaminsen	Norwegian Ministry of Trade, Industry and Fisheries	Norway
Tone	Evje	Norwegian Ministry of Trade, Industry and Fisheries	Norway
Reidun	Malvik	Norwegian Ministry of Trade, Industry and Fisheries	Norway
Thomas	Bengtsson	Näringsdepartementet	Sweden
Björne	Hegeföldt	Näringsdepartementet	Sweden
Karam	Malki	Näringsdepartementet	Sweden
Marie-Louise	Eriksso	Näringsliv Skåne	Sweden
Shardul	Agrawala	OECD	France

Mario	Cervantes	OECD	France
Douglas	Frantz	OECD	France
Steffi	Friedrichs	OECD	France
Dominique	Guellec	OECD	France
Stephanie	Jamet	OECD	France
Nick	Johnstone	OECD	France
Michael	Keenan	OECD	France
Katharine	Mullock	OECD	France
Alistair	Nolan	OECD	France
James	Philp	OECD	France
David	Winickoff	OECD	France
Hui	Luo	Office of Science and Technology, Chinese Embassy	Sweden
Premysl	Filip	Office of the Government	Czech Republic
Johan	Frisk	OpiFlex Automation AB	Sweden
Ove	Leichsenring	OpiFlex Automation AB	Sweden
Christer	Erlandsson	Peltarion Solutions AB	Sweden
Thomas	Malmer	Percipia AB	Sweden
Kerstin	Falck	Pfizer AB	Sweden
Malin	Parkler	Pfizer AB	Sweden
Natalia	Toganova	Primakov National Research Institute of World Economy and International Relations (IMEMO)	Russia
Hanna	Widell	Produktion 2030	Sweden
Ida	Berglund	QuesTek Innovations	USA
Christina	Nordin	Regeringskansliet	Sweden
Lennart	Svensson	Region Skåne	Sweden
Elin	Leidstedt	Region Östergötland	Sweden
Olof	Sandberg	RISE Research Institutes of Sweden	Sweden
Pia	Sandvik	RISE Research Institutes of Sweden	Sweden
Anders	Ösund	RISE Research Institutes of Sweden	Sweden
Hauke	Bossen	Roland Berger	Sweden
Ivan	Ermokhin	Russia-OECD Center (RANEPa)	Russia
Ann-Kristin	Adolfsson	SAAB	Sweden
Maria	Weiland	Saab Aeronautics	Sweden
Michael	Hillring	Sandvik	Sweden
Eilert	Johansson	SICS Swedish ICT AB	Sweden
Helena	Jerregård	SICS Swedish ICT Västerås AB	Sweden
Anders OE	Johansson	SICS Swedish ICT Västerås AB	Sweden
Ingrid	Nordmark	SICS, RISE	Sweden
Mimmi	Alladin	Siemens AB	Sweden
Göran	Persson	Siemens AB	Sweden
Thomas	Idermark	SIS, Swedish Standards Institute	Sweden
Ulf	Sjöblom	Sjöblom Consulting AB	Sweden
Magnus	Svensson	Smartare Elektroniksystem	Sweden
Stephen	James	Sobi	Sweden
Niklas	Grybe	SP Sveriges Tekniska Forskningsinstitut	Sweden
Eva	Petursson	SSAB	Sweden
Carl	Orrling	SSAB AB	Sweden
Sara	Kvarfordh	Stora Enso	Sweden
Per	Lyrvall	Stora Enso	Sweden
Irene	Ek	Swedish Agency for Growth Policy Analysis	Sweden
Eva	Dalenstam	Swedish Environmental Protection Agency	Sweden
Mattias	Blomberg	Swedish Foundation for Strategic Research, SSF	Sweden
Lars	Hultman	Swedish Foundation for Strategic Research, SSF	Sweden
Mattias	Lundberg	Swedish Foundation for Strategic Research, SSF	Sweden
Hans	Hentzell	Swedish ICT	Sweden
Åsalie	Hartmanis	SwedNanoTech	Sweden
Mats	Lundin	Swerea IVF AB	Sweden
David	Marek	Technology Centre CAS	the Czech Republic
Erja	Ämmälahti	Tekes - The Finnish Funding Agency for Innovation	Finland
Magnus	Leonhardt	TeliaSonera	Sweden
Mi	Åberg	Tetra Pak	Sweden
Agneta	Jacobson	Teyi	Sweden
Charlotte	Andersdotter	The Association of Swedish Engineering Industries	Sweden
Monica	Bellgran	The Association of Swedish Engineering Industries	Sweden
Peter	Johansson	The Association of Swedish Engineering Industries	Sweden
Cecilia	Warrol	The Association of Swedish Engineering Industries	Sweden
Nanna	Højlund	The Danish Confederation of Trade Unions	Denmark
Chaisung	Lim	The Korea Industry 4.0 Association	the Republic of Korea
Maria	Hollander	The Paper Province	Sweden
Staffan	Larsson	The Royal Court	Sweden
Per	Hilletoft	The School of Engineering Jönköping University	Sweden
Lena	Carlsson	The Swedish Agency for Economical and Regional Growth	Sweden
Johanna	Pauldin	The Swedish Agency for Economical and Regional Growth	Sweden
Gunilla	Thorstensson	The Swedish Agency for Economical and Regional Growth	Sweden
Staffan	Bjurulf	The Swedish Association of Graduate Engineers	Sweden
Klara	Helstad	The Swedish Energy Agency	Sweden
Frida	Ekeberg	The Swedish Patent and Registration Office	Sweden
Amer	Ahmed	The World Bank	USA
Anabel	Gonzalez	The World Bank	Sweden
Mary	Hallward-Driemeier	The World Bank	USA
José	Reis	The World Bank	USA
Linda	Kron Dahl	Things	Sweden
Sture	Henckel	Tidningen Ingenjören	Sweden
Ann-Sofi	Sjöberg	Trygghetsrådet	Sweden

Åsa	Fällman	Umeå kommun	Sweden
Pilar	Fajarnes	UNCTAD	Switzerland
Joachim	Karl	UNCTAD	Switzerland
Hasan Tahsin	Batum	Under Secretariat of Treasury	Turkey
Ludovico	Alcorta	UNIDO	Austria
Emma	Tjärnbäck	Unionen	Sweden
Marina	Åman	Unionen	Sweden
Lisa	De Propriis	University of Birmingham	United Kingdom
Eoin	O'Sullivan	University of Cambridge	United Kingdom
Philip	Shapira	University of Manchester and Georgia Institute of Technology	United Kingdom
Klas	Hjort	Uppsala University	Sweden
Karl	Bergman	Vattenfall AB	Sweden
Birgit	Augustsson	Vinnova	Sweden
Mårten	Berg	Vinnova	Sweden
Sanna	Berg	Vinnova	Sweden
Charlotte	Brogren	Vinnova	Sweden
Vilgot	Claesson	Vinnova	Sweden
Katrin	Danerlöv	Vinnova	Sweden
Margareta	Groth	Vinnova	Sweden
Daniel	Holmberg	Vinnova	Sweden
Ulf	Holmgren	Vinnova	Sweden
Maria	Landgren	Vinnova	Sweden
Ida	Langborg	Vinnova	Sweden
Henrietta	Larsson	Vinnova	Sweden
Göran	Marklund	Vinnova	Sweden
Jenni	Nordborg	Vinnova	Sweden
Pär	Pihlqvist	Vinnova	Sweden
Daniel	Rencrantz	Vinnova	Sweden
Sofia	Rickberg	Vinnova	Sweden
Sylvia	Schwaag Serger	Vinnova	Sweden
Tommy	Schönberg	Vinnova	Sweden
Cecilia	Sjöberg	Vinnova	Sweden
Tero	Stjernstoff	Vinnova	Sweden
Karin	Stridh	Vinnova	Sweden
Peter	Svensson	Vinnova	Sweden
Karin	Tell	Vinnova	Sweden
Marit	Thunberg Werner	Vinnova	Sweden
Judit	Wefer	Vinnova	Sweden
Jens	von Axelson	Vinnova	Sweden
Annika	Zika-Viktorsson	Vinnova	Sweden
Peter	Åslund	Vinnova	Sweden
Thomas	Lezama	Volvo Lastvagnar	Sweden
Shiva	Käck	Volvo Powertrain AB	Sweden
Ernesto	Lopez Cordova	World Bank	Switzerland
Nima	Elmi	World Economic Forum	Switzerland
Stefan	Andreason	Tekniker	Sweden
Gustav	Birath	Tekniker	Sweden
Joakim	Bochmann	Tekniker	Sweden
Jonas	Ekdahl	Tekniker	Sweden
Joacim	Fagerström	Tekniker	Sweden
Jesper	Fjälling	Tekniker	Sweden
Andreas	Osslund	Tekniker	Sweden
Christer	Rising	Tekniker	Sweden
Robert	Wallgren	Tekniker	Sweden
Johan	Vegna	Tekniker	Sweden
Anton	Visco	Tekniker	Sweden
Pehr	Arte	WestreamU	Sweden
Karl	Danielsson	WestreamU	Sweden
Henrik	Gatarski	WestreamU	Sweden
Richard	Gatarski	WestreamU	Sweden
Saga	Glauser	WestreamU	Sweden
Emma	Juric	WestreamU	Sweden
Stefan	Lundaahl	WestreamU	Sweden
Erik	Thunholm	WestreamU	Sweden
Sara	Haas	WestreamU	Sweden

Rapportering av Uppdrag att i samarbete med OECD planera och arrangera en konferens kring smart industri

Vinnova har under 2016, i nära samarbete med OECD och Näringsdepartementet, planerat och genomfört en konferens på temat smart industri i enlighet med uppdraget.

Konferensen "Smart Industry: Enabling the Next Production Revolution - Implications and Strategies for Industry and Policy" ägde rum 17-18 november 2016 på Clarion Hotel Sign i Stockholm. Drygt 300 deltagare från 27 länder runt om i världen representerade akademi, näringsliv och offentliga aktörer.

Bakgrund

OECD har under de senaste 2-3 åren bedrivit ett större projekt om framtidens produktion - "The Next Production Revolution". Under våren 2017 kommer de att publicera en rapport på detta tema. Konferensen var ett led i slutarbetet med rapporten där kapitelförfattarna, som är internationellt framstående forskare och experter, presenterade sina resultat inom projektet och ville få respons på dessa i ett större internationellt forum. Projektet syftar bland annat till att ta fram underlag och informera regeringar om möjliga scenarier för framtidens produktion, 10-15 år fram i tiden, och hur policy kan utvecklas för att ta vara på möjligheter och hantera risker med industrins omställning. OECD-projektet har mycket hög relevans i förhållande till den svenska regeringens nyindustrialiseringsstrategi Smart Industri.

Konferensen 17-18 november

Upplägget för de två konferensdagarna baserades på den kommande OECD-rapportens olika delområden:

- Foresight and public attitudes in relation to the next production revolution
- Biotechnology and bio-production
- New materials and nanotechnologies
- Future production and 3D printing
- Skills, job-creation and labour market - new approaches?
- Circular flows, sustainability and environment
- Higher education, research and linking business to the next production revolution
- Digitilization and robotization

2017-03-22

Dnr: 2016-03497 Ert dnr: N2016/04094/FÖF

Konferensens första dag hade ett analytiskt fokus – towards the OECD report - medan dag två hade ett politiskt fokus – policy insight and policy sharing. Tanken med upplägget var att utgå från ett gediget tematiskt fokus som sedan politiker kan ta vidare för att reflektera över hur deras respektive regeringar kan agera för att på bästa sätt möjliggöra omvandlingen mot smart industri.

En viktig del av programmet var interaktionen mellan talare och deltagare under de olika sessionerna. Förutom att ha en direkt dialog och kunna ställa frågor i plenum, fanns även möjlighet att via det digitala verktyget Mentimeter svara på och reflektera över färdigformulerade frågor, men också ställa egna frågor.

Medverkande i de olika parallella sessionerna var författarna till respektive delområde i den kommande OECD-rapporten samt kommentatorer inom respektive område från olika håll i världen. Dessa representerade både små och multinationella företag, branschorganisationer, forskningsinstitut, myndigheter, fackförbund och akademi.

Förutom att ta del av resultat från bokens kapitelförfattare bjöds talare in från ett antal länder för att presentera olika perspektiv och framtidsscenarier kring produktion de kommande 10-15 åren. Vi fick bland annat ta del av initiativ och aktuell utveckling i USA, Korea, Tyskland och Sverige.

Inbjudna till konferensen var relevanta svenska offentliga aktörer som är engagerade i arbetet med regeringens nyindustrialiseringsstrategi Smart Industri, de som deltog i konferensen Sverige digitaliserar 31 maj 2016 samt ett urval av OECDs olika nätverk.

Från den svenska regeringen deltog, förutom närings- och innovationsministern, arbetsmarknads- och etableringsminister Ylva Johansson och miljöminister Karolina Skog. Dessutom deltog statssekreterarna Eva Lindström och Niklas Johansson från Näringsdepartementet. Från Tyskland deltog Matthias Machnig, Staatssekretär im Bundesministerium für Wirtschaft und Energie och Norge representerades av Dilek Ayhan, State Secretary to Minister of Trade, Industry and Fishery.

OECD deltog aktivt under konferensen. Douglas Frantz (Deputy Secretary-General) och Dominique Guellec (Head of the Science and Technology Policy Division, Directorate for Science, Technology and Innovation) deltog dels som värdar i egenskap av att vara en av arrangörerna av konferensen, men även som talare och moderator.

Vinnova bistod med moderatorer till de flesta plenar- och parallella sessioner med några få undantag då OECD modererade.

2017-03-22

Dnr: 2016-03497 Ert dnr: N2016/04094/FÖF

Förutom själva konferensen anordnades mingel och middag på kvällen dag 1 för alla deltagare. Särskilt inbjudna bjöds dessutom in till visning och middag i AtlasCopcocs gruva i Sickla där närings- och innovationsminister Mikael Damberg var värd. Under den första dagen arrangerades även ett rundabordsamtal med lunch på Clarion Hotel Sign för talare i plenarsessionerna och som statssekreterare Eva Lindström var värd för. I anslutning till konferensen skedde bilaterala politiska möten mellan Sverige-Tyskland och Sverige-Norge.

Digitalt, hållbart och jämställt konferensupplägg

Vinnova valde att skapa en särskild webbplats för konferensen (www.vinnova.se/smartindustry) där information samlades inför, under och efter konferensen. Detta fungerade utmärkt och minskade antalet frågor från talare och deltagare till ett minimum, till skillnad från konferenser där sådan webbplats inte finns. Programmet, information om medverkande talare, deltagarlista, länkar till digitala kanaler, och den individuella entrékoden till konferensen fanns dessutom enbart tillgängligt digitalt i ett webbgränssnitt anpassat för smartphones. (<http://m2.delegia.com/M/8568>). Av responsen att döma från deltagare och medverkande var detta rätt beslut. Att välja en digital lösning, stället för att trycka upp pappersdokument, är också ett aktivt ställningstagande som Vinnova gjorde, i samråd med Näringsdepartementet, för att tänka hållbart och för att förhålla sig till bland annat miljömålen i Agenda 2030.

Konferensens plenar och parallella sessioner filmades. Detta som ett alternativ till att webbsända konferensen, vilket skulle varit rätt komplicerat i och med att det pågick flera parallella sessioner samtidigt. Det filmade materialet finns utlagt på konferensens webbplats, dels som dokumentation, dels för att tillgängliggöra konferensen för en bredare publik, eftersom den riktade sig enbart till särskilt inbjudna.

Vid planeringen av denna konferens såväl som andra som Vinnova är med och arrangerar togs hänsyn till Vinnovas policy för konferenser och seminarier som bland annat omfattar jämställdhet och hållbarhet. Vinnova jobbade därför aktivt dels med att få en jämn balans när det gäller könsrepresentationen bland talarna med målet att andelen kvinnor respektive män skulle vara 40-60 procent, dels med att välja ett konferensställe som jobbar hållbart. Av de 54 talarna var 21 kvinnor vilket utgör 39 procent och vad beträffar Clarion Hotel Sign, som ingår i Nordic Choice-kedjan, har det hotellet ett tydligt hållbart arbete och tar ett samhällsansvar när det gäller miljö, socialt engagemang, etiska riktlinjer och mat. <https://www.nordicchoicehotels.se/samhallsansvar/>

Resultat

Efter konferensen skickade Vinnova ut en enkät till deltagare och talare för att få återkoppling på arrangemanget, vilket är i enlighet med Vinnovas gängse rutin för större konferenser. Vi fick in 91 svar. Nedan finns ett urval av svar och fritextkommentarer:

- På frågan “**What’s your general impression of the conference?**” svarade 76,8 procent att den var ”Very interesting and informative” och 20,3 procent “Fairly interesting and informative”, vilket är ett fantastiskt bra resultat i sådana här sammanhang.
- På frågan “**Did the conference meet your expectations?**” svarade 45,6 procent att ”It exceeded my expectations” och 52,9 procent svarade “Yes”. Även detta är ett överväldigande bra resultat.
- På frågan “**What did you find particularly interesting about the conference?**” fick vi bland annat följande svar:
 - Excellent selection of speakers with interesting facts and stories to tell.
 - The mix civil society, entrepreneurs, policy makers, and researchers.
 - The way it was organized - round tables, online interactive tools, composition of topics and speakers.
- Well chosen industry representatives, who were prepared: with visions and possibilities of smart manufacturing.
- The high quality of presentations, including those by politicians, as well as the attention politicians paid to the discussions.
- Very good selection of topics.
- The programme provided new substance throughout the two days.
- Much to learn from Scandinavian labor unions, helping workers through productivity growth, offering hope not fear. (Deltagare från USA)
- We need to think in terms of transformation instead of disruption. (Medverkande från OECD)
- A very well organized and interesting conference.
- Looking forward to further such conferences.

Konferensen fick ett stort genomslag på Twitter via hashtaggen #smartindustryOECD, vilket med tanke på förutsättningarna (konferens på engelska, inte tillgänglig via webbsändning, behandlar rätt komplexa ämnen och inte hade någon draghjälp från media) är ovanligt bra. Konferensen låg i toppen av alla tweets skickade via Twitter i Sverige (”trendade”) den första dagen, enligt Trendialia Sweden.

Redovisning av rekviderade medel

Vinnova har av Kammarkollegiet rekviderat 1 miljon kronor i enlighet med anvisningar i uppdraget. Nedan framkommer hur dessa medel använts, samt vilka övriga kostnader som konferensen genererat och som belastat Vinnovas FoU-anslag.

Redovisning av förbrukade medel		SEK
Arvode		24 374
Resekostnader		190 871
Konferenskostnader		1 692 693
Total förbrukade medel		1 907 939
Rekviderat RU		-1 000 000
Finansiering FoU anslaget		907 939

Kommentarer till förbrukade medel:

- Arvode och reseersättning avser talare.
- Konferenskostnader inkluderar hyra av lokaler, hotellövernattningar för talare, förtäring, filmning och övrig teknik, samt säkerhet och bevakning.

Projektgrupp

Vinnova har haft ett nära och utmärkt samarbete, både när det gäller programplanering och genomförande av konferensen, med framför allt FÖF-enheten på Näringsdepartementet. Från OECD deltog Alistair Nolan aktivt i programupplägget. I Vinnovas arbetsgrupp ingick Göran Marklund, Karin Stridh och Marianne Löfgren.

Bilagor:

1. Program
2. Deltagarlista