



The workshop aims to inform policy makers on the likely impact of technology convergence with a view to the Next Production Revolution (NPR), whose societal, economic and environmental impacts are predicted to be far-reaching.

The workshop will bring together experts in technology- and policy-assessment with labour representatives, as well as leaders of large and small companies active in the area of convergence or NPR, in order to collaboratively explore the impact of these new technology trends, and to identify potential needs for the development or adaptation of adequate policies.

The potential impact of technology convergence and NPR will be elaborated on the specific cases of three application areas, chosen to have an anticipated market entry in the short, medium and long term, respectively. These technology cases are:

- ◆ Automation and Robotics
- ◆ Cyber-Physical and Social Systems
- ◆ Human-Machine Interfaces

# Rethinking Policy Assessment in the Age of Convergence and the Next Production Revolution

## Workshop 1: Technology Foresight

co-organised by the  
OECD Working Party on Biotechnology, Nanotechnology and  
Converging Technologies

and the

European Commission,  
Directorate General for Research and Innovation

15. - 16. May 2017

European Commission  
CDMA building  
Rue du Champ de Mars, 21  
1050 - Brussels

Attendance of this workshop is limited to OECD delegates and delegate-nominated experts.

To register for this workshop, please contact [steffi.friedrichs@oecd.org](mailto:steffi.friedrichs@oecd.org), stating the name of the relevant delegation.

## Synopsis (continued):

Workshop speakers will present initial results of technology- and policy-assessment exercises for each of the three technology application cases, laying the cornerstones for the workshop's central objective to review, discuss and ultimately refine the assessment results.

Workshop participants will be asked to sign up for participation in one of the three parallel breakout discussion groups.

Background information and recommended reading lists will be distributed to confirmed workshop attendees.

## AGENDA

TIME	
<b>DAY 1: Monday, 15. May 2017</b> <b>Plenary Sessions (Location: CDMA, SDR 1+2)</b>	
10:00 - 10:30	<b>Registration/Arrival</b>
<b>SESSION 1: Welcome &amp; Introduction to the Workshop</b>	
Chair: H��l��ne Chraye, Head, Advanced Materials and Nanotechnologies Unit, DG RTD, European Commission	
10:30 - 10:40	<b>Welcome by the European Commission</b>  Speaker: Peter Dr��ll, Director, Industrial Technologies Directorate, DG-RTD, European Commission
10:40 - 10:45	<b>Welcome by the BNCT Secretariat: Presentation of Workshop Outline</b>  Speaker: Dominique Guellec, Head, Science and Technology Policy Division, OECD
<b>SESSION 2a: An Overview of the likely Impacts of Convergence and NPR</b>	
Co-Chairs: Dominique Guellec Bjoern Juretzki, Assistant to the Director, Digital Industry Directorate, DG CNECT, European Commission	
10:45 - 11:30	<b>Key-Note Presentation 1: <i>Current and future Impact of Convergence and NPR</i></b>  Speaker: Hiroshi Ishiguro, Director of Intelligent Robotics Laboratory, Department of Systems Innovation, Osaka University, Japan
11:30 - 12:15	<b>Key-Note Presentation 2: <i>The History and Context of Technology Foresight</i></b>  Speaker: Lieve Van Woensel, Head of Scientific Foresight, European Parliament Research Service, Scientific Foresight Unit (STOA), Belgium

TIME	
<b>SESSION 2b:</b>	<b>Perspectives of Convergence and NPR</b>
	Co-Chairs: Sean O'Reagain, Deputy Head, Advanced Manufacturing Systems & Biotechnology Unit, DG RTD, European Commission David Winickoff, Secretary of the Working Party on Biotechnology, Nanotechnology and Converging Technologies, OECD
12:15 - 12:35	<b>Invited Presentation 1: <i>Convergence and NPR from an SME's Perspective</i></b> Speaker: Fabien Guillemot, CEO, Poietis, France
12:35 - 12:55	<b>Invited Presentation 2: <i>Convergence and NPR from a Trade Union's Perspective</i></b> Speaker: Anna Byhovskaya, Trade Union Advisory Committee (TUAC) to the OECD, France
12:55 - 13:55	LUNCH
13:55 - 14:15	<b>Invited Presentation 3: <i>Convergence and NPR in Korea</i></b> Speaker: Byeongwon Park, Director, Center for Strategic Foresight, STEPI, Korea
14:15 - 14:45	<b>Panel Discussion SESSION 2a &amp; SESSION 2b</b> Panelists: Speakers SESSION 2a and Speakers SESSION 2b
<b>SESSION 3a:</b>	<b>Elaboration of Technology Application Case-Studies and Introduction to the Firm-Level Study</b>
	Co-Chairs: Lieve Van Woensel Steffi Friedrichs, Policy Analyst, Working Party on Biotechnology Nanotechnology and Converging Technologies, OECD
14:45 - 15:15	<b>Invited Expert Opinion on Technology Application Case-Study 1 (short-term): <i>The Effect of Convergence and NPR on Automation and Robotics</i></b> Speaker: André Gzásó, Institute for Technology Assessment, Austria
15:15 - 15:45	<b>Invited Expert Opinion on Technology Application Case-Study 2 (medium-term): <i>The Effect of Convergence and NPR on Cyber-Physical and Social Systems</i></b> Speaker: Kartik Gada, Executive Director, Woodside Capital Partners, United States
15:45 -16:15	<b>Invited Expert Opinion on Technology Application Case-Study 2 (long-term): <i>The Effect of Convergence and NPR on Human-Machine Interfaces</i></b> Speaker: Bertolt Meyer, Managing Director, Institute for Psychology, Technical University of Chemnitz, Germany
16:15 - 16:45	<b>Panel Discussion SESSION 3</b> Panelists: Speakers SESSION 3a
16:45 - 17:15	BREAK

TIME	
17:15 - 17:30	<b>Introduction to the Firm-Level Study</b> Speaker: Sabine Jung-Waclik, Brimatech Services GmbH, Austria
17:30 - 17:35	<b>Guidance for Breakout Sessions</b> Speaker: Steffi Friedrichs, OECD BNCT

*... relocation into the breakout rooms for:*

**SESSION 3b: Parallel Breakout Sessions on Technology Application Case-Studies**

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Task Description:

*The Invited Expert will be asked to chair the breakout session on his Technology Case-Study.*

*Breakout Sessions will look in detail at the relevant technology application case, as well as its technology- and policy assessment previously presented by the Invited Expert.*

*Each Breakout Session will work towards presenting a refined version of (a) the initial description of the impact of convergence, (b) the list of existing policies (and their adequacy), and (c) the list of firm-selection criteria and selected interview questions.*

Parallel Sessions			
	<b>Breakout Group 1 (location: CDMA,SDR 1)</b>	<b>Breakout Group 2 (location: CDMA,SDR 2)</b>	<b>Breakout Group 3 (location: CDMA, -1/044)</b>
17:35 - 18:20	Chair: André Gzásó Rapporteur: TBC	Chair: Kartik Gada Rapporteur: TBC	Chair: Bertolt Meyer Rapporteur: TBC
	<b>(short-term) Automation and Robotics</b>	<b>(medium-term) Cyber-Physical and Social Systems</b>	<b>(long-term) Human-Machine Interfaces</b>
18:20 – 18:30	<b>Closure of Day 1</b>		
18:30 – 21:00	RECEPTION & BUFFET DINNER (location: CDMA)		

TIME	DAY 2: Tuesday, 16. May 2017		
... continues:			
<b>SESSION 3b: Parallel Breakout Sessions on Technology Application Case-Studies</b>			
09:00 - 11:15	Parallel Sessions		
	Breakout Group 1 (location: CDMA,SDR 1)	Breakout Group 2 (location: CDMA,SDR 2)	Breakout Group 3 (location: CDMA, -1/044)
	Chair: André Gzásó Rapporteur: TBC	Chair: Kartik Gada Rapporteur: TBC	Chair: Bertolt Meyer Rapporteur: TBC
	<b>(short-term) Automation and Robotics</b>	<b>(medium-term) Cyber-Physical and Social Systems</b>	<b>(long-term) Human-Machine Interfaces</b>
<b>Plenary Sessions (Location: TBC)</b>			
11:15 - 11:45	BREAK		
<b>SESSION 3c: Results from the Breakout Sessions</b>			
Co-Chairs: David Winickoff René Martins, Advanced Materials & Nanotechnologies Unit, DG RTD, European Commission			
<u>Task Description:</u> <i>An appointed rapporteur from each Breakout Session will present a refined version of (a) the initial description of the impact of convergence, (b) the list of existing policies (and their adequacy), ((c) the list of firm-selection criteria and selected interview questions. (15 min each + 5 min questions from the audience)</i>			
11:45 - 12:45	<b>Breakout Session Presentations</b>		
12:45 - 13:15	<b>Discussion</b>		
<b>SESSION 5: Workshop Closure &amp; Next Steps</b>			
Co-Chairs: Steffi Friedrichs René Martins			
13:15 - 13:30	<b>Meeting Closure, Next Steps</b>		
	Speaker: David Winickoff		
13:30 - 14:30	LIGHT LUNCH & Departure		