How to leverage the digital transformation’s potential for innovation and research?

20 June 2018
Paris, OECD Conference Centre

INTRODUCTION TO THE WORKSHOP

Caroline Paunov
TODAY’S AGENDA
Session 1: Keynote

Prof. Jonathan Haskel, Professor of Economics at Imperial College Business School, Imperial College London
**Session 2: Opportunities and barriers for research collaboration in the digital age**

**Questions to address**

- To what extent has the digital transformation changed opportunities to engage in research activities related to innovation for different actors and places?
- Are changes similar across academic disciplines and industry sectors? What are the expected trends?
- Should policy intervene to ensure more widespread opportunities to innovate at the research stage?
- How does the digital transformation facilitate opportunities for extending research networks and collaborations with others?

**Participants**

- **Perspectives from TIP work:**
  - **Dominique Guellec**, OECD

- **Speakers:**
  - **Peter Leihn**, Data61, Australia
  - **Medha Devare**, International Food Policy Research Institute
  - **Michaela Muruianu**, Digital Catapult, UK
  - **Jean-Michel Dalle**, Agoranov, France
  - **Claire Stolwijk**, TNO, the Netherlands
  - **Steven Drew**, InnoCentive
**Session 3: Opportunities and barriers for developing and commercialising innovation in the digital age**

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<th>Questions to address</th>
<th>Participants</th>
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| • To what extent has the digital transformation changed opportunities for different actors to develop and commercialise innovations across different value chains? | **Perspectives from TIP work:**  
  *Sandra Planes*, OECD                                                                 |
| • Are changes similar across actors and industries and in particular across agro-food, automotive/transportation and retail sectors? | **Speakers:**  
  – *Zoltán Cséfalvay*, Ambassador of Hungary to the OECD                     |
| • What can policy do to ensure more widespread opportunities?                        |  
  – *Frank Nagle*, Harvard Business School                                      |
  – *Ido Dor*, Evogene, Israel                                                      |
  – *Manuel Davy*, Vekia                                                           |
  – *Eija Laineenoja*, Ministry of Economic Affairs and Employment, Finland         |
  – *Young-Jun Moon*, Korea Transport Institute (KOTI)*                           |
Session 4 / breakout groups: Policy implications

Breakout group 1 (room CC4)
Topic: Data access policies for innovation
Chair: Jerry Sheehan, Deputy Director, National Library of Medicine, National Institutes of Health, USA
Ice-breaker intervention: Margherita Russo, Professor, University of Modena and Reggio Emilia, Italy
Support: Diogo Machado, Junior Economist/Policy Analyst, OECD
Rapporteurs: Jerry Sheehan and Margherita Russo

Breakout group 2 (room MB2122)
Topic: Speedy and agile policies in the digital age
Chair: Byeongwon Park, Research Fellow, Center for Strategic Foresight, Science and Technology Policy Institute, Korea
Ice-breaker intervention: Kai Husso, Enterprise and Innovation Department, Ministry of Economic Affairs and Employment, Finland
Support: Sandra Planes, Junior Policy Analyst, OECD
Rapporteur: Byeongwon Park and Kai Husso

Breakout group 3 (room MB3122)
Topic: Investment in core technologies and the contributions of public research
Chair: Agni Spilioti, Director, Policy Planning Directorate, Ministry of Education, Research and Religious Affairs, Greece
Ice-breaker intervention: Tiago Santos Pereira, Head, Studies and Strategy Office, Foundation for Science and Technology, Portugal
Support: Martin Borowiecki, Junior Economist/Policy Analyst, OECD
Rapporteur: Agni Spilioti and Tiago Santos Pereira

Breakout group 4 (room MB5122)
Topic: IP and market competition in the digital age
Chair: David Legg, Lead Specialist, Economics, performance and strategy department, Innovate UK
Ice-breaker intervention: Ana Nieto, DG RTD-OECD Co-ordinator, Directorate-General for Research and Innovation, European Commission
Support: Andrés Barreneche, Policy Analyst, OECD
Rapporteur: David Legg and Ana Nieto
INTRODUCTION TO THE PROJECT
Digitalisation of innovation

New innovation dynamics across and within sectors

Innovation policies for inclusive and sustainable growth
- Public research
- Science-industry linkages
- Businesses

Collaborative innovation
Project timeline

**Project kick-off**

January 2017

**Workshop in London**

June

**Workshop in Paris**

Sept.

**TIP meeting**

Dec.

**Workshop in Paris**

April

**TIP meeting**

March

**TIP meeting**

Spring 2019: Final project report & high level conference

**TIP meeting**

Development of country case studies

**Workshop in Netherlands**

**Thematic work**

**Workshop in Paris**

20 June

**Ministry of Economic Affairs and Climate Policy**
Overview of new project outputs

Policy framework
(DSTI/STP/TIP(2018)5)

Policy collection exercise
(DSTI/STP/TIP(2017)5/REV2)

Cross-sectoral analysis
(DSTI/STP/TIP(2018)6)

Automotive sector analysis
(DSTI/STP/TIP(2017)3/REV2)

Case studies

Workshop proceedings & brochures
Synergies with TIP project on knowledge transfer

Policy instruments and mixes

Barriers to knowledge diffusion

Industry

Formal & informal channels

Intermediaries

Research institutions

Innovation performance

Productivity & addressing social challenges
INTRODUCTORY QUIZ
What in your view is the **main change** brought by the digital transformation on innovation?

**Possible answers:**

1. Data is core input for innovation
2. Speed of innovation is larger
3. Innovation is more collaborative than before
4. There is more uncertainty than before
5. There is more service innovation than before
AI will bring fundamental changes to our economies and societies. Do you think **governments are prepared to deal with AI** so that benefits are maximised and damages are avoided?

Possible answers:

1. Yes
2. No
In your opinion, which of the following is the most important challenge preventing firms from leveraging digital innovation?

Possible answers:

1. Data collection, ownership and analysis
2. Need to set up collaborations for effective data exploitation
3. Platform economy competition & entry conditions
4. Regulatory uncertainty
5. Consumer resistance to new processes & products