

GOING DIGITAL: THE FUTURE OF INDUSTRY AND JOBS

OECD conference centre, 24 April 2017

The digital transformation of economies and societies is under way: digital technologies have become pervasive, automation gets widely deployed and artificial intelligence emerges as the next technological paradigm. But how does the digital transformation change industry structure, business models and affects performance? Which framework conditions enable firms to compete and thrive in global and digital markets? What does the digital transformation entail for jobs, skills, wage patterns and income distribution? How can policies facilitate the transformation of production while ensuring that the benefits accrue to companies of all sizes and citizens alike?

These are some of the questions that the workshop on "Going digital: the future of industry and jobs" will try and address, by eliciting input from a number of key stakeholders, including academia, policy makers and international institutions. This workshop, organised in collaboration with the EU-funded [IS|Growth](#) project, aims at gathering helpful feedback and guidance in relation to the OECD project "[Going digital](#)", a cross-departments endeavour that OECD has engaged in for the biennium 2017-18.

Structure of the workshop

As the digital transformation is impacting firms, governments and citizens alike, the first step is to understand the depth and breadth of the changes brought about by digital technologies.

The first panel reflects on the emerging digital technological paradigm and its implications for industry and the behaviour and performance of economic agents worldwide. Attention is devoted to the way in which digital transformation may shape firm dynamics, as well as innovation and technology development and adoption.

The second panel focuses on framework conditions and the role of policy. In particular, it discusses a number of policy initiatives put in place to enable firms to seize the benefits brought about by the digital transformation, help them compete in global digital markets, and address the challenges that the digital paradigm poses to economic agents.

The third panel discusses the implications of digital transformations for labour markets, jobs and skills. The multi-stakeholders discussion covers issues such as the type of jobs that will accompany the process of digital transformation and those that the transformation itself will generate; the number and quality of new jobs; the skills that workers will need; and the education and life-long training required for those skills. The panel discusses also the design of mechanisms aligning skills demand and supply in the context of a continuously evolving digital paradigm.

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| 9:00-9:20 | Opening and Welcome | Andy Wyckoff, OECD Director, Science Technology and Innovation (STI) Professor Giovanni Dosi Director, Institute of Economics, Scuola Superiore Sant'Anna (SSSA, IT) |
| 9:20-10:20 | Keynote speech "Understanding the digital transformation" | <u>Moderator</u> : Andy Wyckoff, OECD Director, Science Technology and Innovation (STI) <u>Key note</u> : Professor Jim Bessen, Boston University (US) |
| 10:20-11:20 | Panel "DT: a new technological and economic paradigm" | <u>Moderator</u> : Dirk Pilat, OECD Deputy Director, STI Massimo Moggi SSSA (IT) and Partner, Seldon Group Claudia Tapia, Director IPR Policy, Ericsson Mariagrazia Squicciarini, OECD Senior Economist, STI |
| 11:20-11:45 | Coffee break | |
| 11:45-13:00 | Panel "Industry 4.0: goals, policy instruments, challenges and outcomes" | <u>Moderator</u> : Dirk Pilat, OECD Setting the scene: key findings from the OECD "Next Production Revolution" project. Dirk Pilat, Deputy Director, STI, OECD Stefano Firpo (tbc) Director, Italian Ministry of Economic Development (MISE) Markus Heß, Deputy Director General, Industrial Policy Department, German Federal Ministry for Economic Affairs and Energy. Japan representative (TBA) |
| 13:00-14:30 | Lunch break | |
| 14:30-15:30 | Keynote speech "Going digital: Which jobs? Which skills? Which labour markets?" | <u>Moderator</u> : Andreas Schleicher, OECD Director, Education and Skills (EDU) <u>Key note</u> : Professor Richard Freeman, Harvard University (US) |
| 15:30-16:00 | Coffee break | |
| 16:00-17:45 | Panel "Jobs, skills, automation and the digital transformation: what future?" | <u>Moderator</u> : Stefano Scarpetta, OECD Director, Employment, Labour and Social Affairs (ELS) Guy Michaels Professor, London School of Economics (UK) Mady Delvaux Member of European Parliament Anna Byhovskaya Trade Union Advisory Committee to the OECD (TUAC) TBA Business and Industry Advisory Committee to the OECD (BIAC) TBA International Labour Organization (ILO) |
| 17:45-18:00 | Concluding remarks | |