



Artificial Intelligence: Overview of European Commission actions

*Policy Seminar on
Artificial Intelligence*

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Dana Eleftheriadou

Policy Coordinator on Digital Transformation

*GROW.F.3 - KETs, Digital Manufacturing & Interoperability
DG Internal Market, Industry, Entrepreneurship and SMEs*

Artificial Intelligence: policy landscape

Artificial Intelligence is at the top of the policy agendas around the globe:

- ✓ World Economic Forum Summit – Jan 2017
- ✓ OECD report: The Next Production Revolution – May 2017
- ✓ G7 Ministerial on Industry and ICT – Sept 2017
- ✓ National Initiatives on AI: USA, Japan, China, UK, Germany, France...
- ✓ European Parliament Report on Robots and AI – Febr 2017
- ✓ European Council - Oct 2017

Artificial Intelligence: policy dialogue

Key outcomes:

- ✓ Major technology with far-reaching impact on our economies and societies, but a lot is still unknown.
- ✓ Big Promises: AI could contribute up to EUR 13.3 trillion to the global economy by 2030 ...and is still at a very early stage of development.
- ✓ Opening up multiple possibilities for industrial transformation and entrepreneurship.
- ✓ Multi-stakeholder, market driven approach: human at the centre of AI
- ✓ Close monitoring of AI applications and the effects on competitiveness, productivity and jobs, but...
- ✓ No early commitment on regulation at this stage.

Artificial Intelligence: opportunities and challenges for industrial transformation

1. Monitor the deployment of AI

- ✓ DTM - Digital Transformation Monitor: measuring the development and uptake of AI applications by European Industries and SMEs
- ✓ Market-driven multi-stakeholders approach:
 - ✓ **High-Level Policy Seminar on AI**
 - ✓ **European Industry Day 22-23 February 2018**
- ✓ New action on AI Opportunities and challenges for Industrial Transformation and SMEs: the objective is to
 - ✓ **identify an optimal mix of policy measures at European level (regulatory, business, financial, etc.)**
 - ✓ **create a favourable framework for the development and uptake of AI applications by European SMEs**

Artificial Intelligence: opportunities and challenges for industrial transformation

- ✓ Take stock of previous and on-going work to assess emerging policy developments in the field of AI
- ✓ Monitor and analyse emerging applications of AI and foresee potential disruptions and opportunities in specific sectors:
 - ✓ **energy and resource efficiency;**
 - ✓ **connected and automated driving; drones;**
 - ✓ **healthcare;**
 - ✓ **value chain optimisation;**
 - ✓ **education; etc.**
- ✓ Identify policy measures that could help industry and businesses benefit from AI while mitigating its risks
- ✓ Facilitate and accelerate important investments to encourage SMEs to embrace AI technologies. E.g. by designing suitable financial mechanisms and funds.
- ✓ Raise awareness

Artificial Intelligence: opportunities and challenges for industrial transformation

2. Common regulatory framework

- ✓ Existing EU safety rules and standards undergoing evaluation:
 - ✓ **Machinery Directive**
 - ✓ **Radio Equipment Directive**
 - ✓ **Product Liability Directive**
 - ✓ **Standards**

3. Investments on AI applications

- ✓ European Fund for Strategic Investments: EUR 225 billion investments approved so far; 450.000 SMEs involved;
- ✓ ESCALAR: European VC Fund of Funds
- ✓ Smart Specialisation Platform on Industrial Modernisation

Artificial Intelligence: opportunities and challenges for industrial transformation

4. Access to technologies and skills

- ✓ The Digital Cities Challenge: 15 cities coached by world-class talents, many more join in on own resources: Call open until 24 January.
- ✓ Big Data for SMEs: fair access to in-vehicle data; EU unified data sets for diabetes
- ✓ Advanced Manufacturing Support Centre for SMEs
- ✓ Skills for Smart Industrial Specialisation and Digital Transformation
- ✓ Blueprint for Sectoral Cooperation on Skills: Pilot implementation in:
 - ✓ Automotive; Defence; Space; Maritime technologies
 - ✓ Tourism; Textile, clothing, footwear and leather
 - ✓ Additional sectors in 2018: construction, steel, paper industry, renewable energy and green technologies, additive manufacturing, and maritime shipping



Thank you!

Further reading & contact:

Digital transformation of industry and enterprises:

http://ec.europa.eu/growth/industry/digital-transformation_en

Big Data and Digital Platforms: https://ec.europa.eu/growth/industry/policy/digital-transformation/big-data-digital-platforms_en

<http://ec.europa.eu/DocsRoom/documents/18503>

Skills for Industry: http://ec.europa.eu/growth/industry/policy/skills_en

Digital Skills and Jobs Coalition: <https://ec.europa.eu/digital-single-market/en/digital-skills-jobs-coalition>

Blueprint for sectoral cooperation on skills: <http://europa.eu/!gc96YU>

Strategic Policy Forum on Digital Entrepreneurship:

http://ec.europa.eu/growth/sectors/digital-economy/entrepreneurship/strategic-policy-forum/index_en.htm