European Commission AI Watch initiative: Artificial Intelligence uptake and the European Geosciences Community

EGU General Meeting 2020

05 May 2020

Stefano Nativi and Max Craglia
“Artificial Intelligence for Europe” (COM (Apr 2018) 237) – a strategy to lead the way

1. Boost technological and industrial capacity & AI uptake
2. Prepare for socio-economic changes
3. Ensure an appropriate ethical & legal framework

Joining Forces

Digital Europe

- Advanced digital skills: €0.7 billion
- Digital transformation & interoperability: €1.3 billion
- High performance computing: €2.7 billion
- Artificial intelligence: €2.5 billion

Total: €9.2 billion
“Artificial Intelligence for Europe” (COM (Apr 2018) 237)

— a strategy to lead the way

Joining Forces

- **By the end of the year**, the Commission will work, as part of the existing European platform of national initiatives to digitise industry, on a **coordinated plan with Member States** in order to maximise the impact of investments at EU and national levels, exchange on the best way for governments to address legal and ethical considerations for the AI transformation and monitor AI-related developments, especially in Member States, AI uptake and its impact on labour markets as well as AI capabilities, including high-level benchmarking, showcasing current capabilities and developing an AI index in order to inform the discussions.

- **By July 2018**, the **European AI Alliance** will bring stakeholders to gather input, exchange views, develop relevant measures to encourage the development and use of AI.
Coordinated Plan on Artificial Intelligence
(COM(Dec 2018) 795)

• The Plan foresees the creation of **AI Watch**: the “Commission Knowledge Service to Monitor the Development, Uptake and Impact of Artificial Intelligence for Europe”

• AI Watch is an initiative of the European Commission (EC) jointly developed by the EC Joint Research Centre (JRC) and the Directorate General for Communications Networks, Content and Technology (DG CONNECT)

• AI Watch is monitoring industrial, technological and research capacity, policy initiatives in the Member States, uptake and technical developments of Artificial Intelligence and its impact in the economy, society and public services.

• It provides a number of analyses necessary to monitor and facilitate the implementation of the European Strategy for AI
AI Watch Knowledge Base

- It provides knowledge base services
  - To search
  - To browse by topic
  - To get the latest knowledge
  - To browse by country
AI Watch project research topics

- 9 tasks are active managed by a Task Leader:

1. Landscape of AI in Europe: from research to market and society
2. Evolution of AI technology
3. Evolution of AI uptake
4. Evolution of European market shares in robotics
5. EU MS national initiatives on AI
6. Overview and analysis of the use and impact of AI in public services
7. AI index
8. Portal development
9. Monitoring standardization on AI

International collaborations:
- Stanford University
- OECD
Possible collaboration with EGU Community

- To monitor and understand what has been the AI impact on Geosciences research and innovation – see for example Climate Change studies and Digital Twin of the Earth.

Al Watch homepage: https://ec.europa.eu/knowledge4policy/ai-watch_en#what

Contact us: EC-AI-WATCH@ec.europa.eu
Thank you

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