

How does the Digital Single Market support Artificial Intelligence

COCIR Annual General Assembly
"How to put Artificial Intelligence into daily Healthcare"
Brussels, 12 April 2019

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European Commission
DG CONNECT – Communications
Networks, Content and Technology



Digital Single Market Strategy

The European Commission has placed digital at the core of its strategy, by setting the Digital Single Market as one of its 10 priorities

The aim is to **open up digital opportunities** for people and business and to make the EU's single market **fit for the digital age**

Digital Single Market /// Mid-Term Review



One of the fields identified to deliver: "Digital transformation of health and care"



Artificial Intelligence - A priority for Europe

All is helping us to solve some of the world's biggest challenges.

- Like the steam engine or electricity in the past, AI is transforming our world, our society and our industry.
- - The stakes could not be higher. The way we approach Al will define the world we live in.

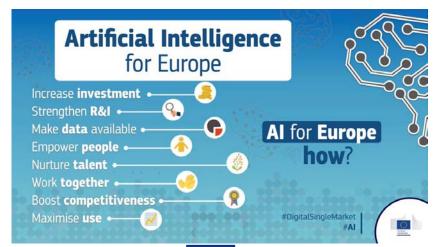


Communication Artificial Intelligence for Europe COM(2018) 137 final

Boost EU's technology and industrial capacity and AI uptake

Address AI's socioeconomic impact

Ensure an appropriate ethical and legal framework



The European Strategy on Al



The new EU initiative on Al





Publication of Ethics guidelines for trustworthy AI, 8 April 2019



First draft of the European AI ethics guidelines, 18 December 2018



Coordinated Plan on Artificial Intelligence, 7 December 2018



Commission Communication on Artificial Intelligence for Europe, 25 April 2018

Declaration of Cooperation on Artificial Intelligence for Europe, 10 April 2018

Ethical and legal framework

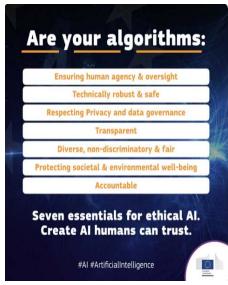






High level group of experts





7 key requirements to make AI trustworthy Published on 8 April 2019





The European Al Alliance

Joint reflection on the future of Al in Europe Full mobilisation of all stakeholders needed: industry, academia, civil society

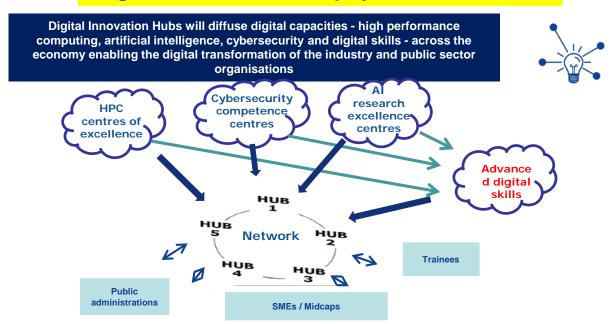
Supported by high-level expert group on AI and an online platform

Goal: Making it the world-wide reference platform for thinking and reflecting on Al





Digital Innovation Hubs: Deployment and best use



Broad roll-out of digital advances





Artificial intelligence for health and care in Europe

- Slow uptake only 16% of healthcare facilities use
 Al tools
- Low confidence among practitioners
- Limited access to high quality data to train AI systems
- Regulatory issues
- High adoption costs



Opportunities of artificial intelligence for health and care

- Empower citizens to better manage their health
- Enable faster and more accurate diagnoses
- Support clinicians in taking informed decisions
- Allow for more precise treatments and personalised medicine
- Improve drug testing and clinical trials improve patient safety
- Provide cost-effective solutions





Digital Transformation of Health and Care





EC funding for AI-based research in health and care

- Modelling and prediction of disease and in-silico clinical trials
- Decision Support Systems for diagnostics and treatments
- Intelligent health and care advice systems (choice of drugs, devices, procedures, interventions, diagnostics methods, etc.)
- AI-based solutions for independent living

HORIZON 2020

Around €2.6 billion

over the duration of Horizon 2020 on Al-related areas (robotics, big data, health, transport, future and emerging technologies).





DIGITAL IN THE NEXT MFF: OVERVIEW

Digital Europe: Capacities & roll out

- 1. High Performance Computing
- 2. Artificial Intelligence
- 3. Cybersecurity
- 4. Advanced digital skills
- Digital transformation and interoperability

Connecting Europe Facility - Digital Connectivity

- 5G roll out
- BB 4EU, Connecting communities
- Synergies with Transport /Energy

Digital in Horizon Europe R&D&I

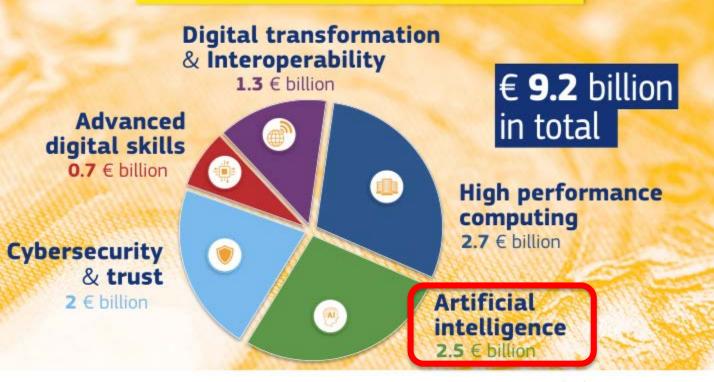
- 1. Digital under "global challenges"
 - Digital and industry cluster
 - Digital in other clusters security, health, mobility, energy, environment,...
- 2. Open Innovation
- 3. Research Infrastructure under Open Science

Creative Europe MEDIA

Invest EU
Research, innovation &
digitisation

European Regional Development
Fund / Cohesion Fund

Investing in the future: **Digital Europe** Programme







Investing in the future: **Digital Europe** Programme

€2.5 billion for Artificial intelligence

Bring the power of the AI to businesses & public administrations

Strengthen testing and experimentation facilities across the EU



Facilitate safe access and storage of data and algorithms





Conclusions

- Al is an area of strategic importance for Europe
- AI-based solutions can speed up the digital transformation of health and care in Europe
- The Commission supports AI solutions for health in care through research, shared data infrastructure and legislative frameworks
- Multi-stakeholder approach





THANK YOU!

