

Artificial Intelligence for Europe

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Maximising benefits from AI



EU strengths





World-leading position in robotics and embedded systems



Strong business-to-business domain



Strong industrial and services sectors: automotive, healthcare, agrifood







EU strategy for AI

A STRATEGY FOR EUROPE

Boost technological and industrial capacity & AI uptake

Prepare for socioeconomic changes Ensure an appropriate ethical & legal framework

AI FOR GOOD AND FOR ALL



European Commission

AI Coordinated plan highlights

Maximise investments through partnerships

- National AI strategies
- AI public-private partnership
- AI scale-up fund to support startups and innovators in AI
- Developing and connecting world-leading centres for AI and reference test sites

Create European data spaces

• Make data sharing across borders seamless (eg. common health database with anonymised data); support centre for data sharing to give practical advice

Nurture talent, skills and life-long learning

• Support advanced degrees in AI dedicated scholarships. support digital skills and lifelong learning ; retain and attract highly-skilled AI professionals in Europe (blue card)

Develop ethical and trustworthy AI to create trust

Bring Europe's ethical approach to the global stage





Commission

THE EUROPEAN AI ALLIANCE

Joint reflection on the future of AI in Europe

Full mobilisation of all stakeholders needed: industry, academia, civil society Supported by highlevel expert group on AI and an online platform

Goal: Making it a reference platform for thinking and reflecting on AI

https://ec.europa.eu/digital-single-market/en/european-ai-alliance

AI Watch

- Knowledge service to monitor development, uptake and impact of AI in the EU
 - AI definition and taxonomy
 - Investments in AI
 - AI ecosystem and indicators
 - AI technology watch
 - AI uptake
 - National initiatives and country profiles
 - Use of AI in public services





EU investments in AI

2018-2020: €1.5 billion in = 70%+ of annual investment



Goal beyond 2020: Increasing investments from €4-5 billion / year today to €20 billion / year



European Commission



Digital Europe Programme











TECHNICAL SUPPORT (development, integration, etc.)

INFRASTRUCTURE

TESTING

KNOWLEDGE



ACCESS TO USERS

INNOVATION COACHING



TRAINING

ACCESS TO FINANCE

Preparing for socio-economic challenges



Anticipating changes in the labour market



Re-skilling the workforce, Attracting & retaining talent



High-Level Expert Group on the Impact of the Digital Transformation on EU Labour Markets

- Potential social impacts (risks and opportunities) of digitisation, in particular the large-scale application of artificial intelligence, and the expected job losses and gains;
- Impact of digitisation on skills requirements;
- How to manage digitisation's impact on labour law and working conditions?
- How to use digitisation (in particular artificial intelligence) to make labour markets more inclusive?

- Impact of digitisation on income distribution and existing inequality and ways to respond to it;
- Defining ways to adapt social security systems to ensure a high level of social protection for all forms of employment;
- Evaluating mechanisms to adapt the tax and benefit system.

https://ec.europa.eu/digital-single-market/en/high-level-expert-group-impact-digital-transformation-eu-labour-markets



Ethical and legal framework



High level group of experts



Ethical priorities by early 2019



Some ethics guidelines dimensions

- Transparency and Accountability
- Robustness and Safety
- Data Governance and Privacy
- Diversity and Non-discrimination
- Human Autonomy and Oversight
- Societal and Environmental well-being



Joining forces



All Member States, Norway and Swizerland signed the Declaration of cooperation on AI

Coordinated plan with Member States by end of 2018 Interaction with Member States via the European platform on national initiatives to digitise industry



European Commission

AI-induced transformation of organisations

- Analytical, administrative and clerical jobs to be affected first?
- Organisations to become more collaborative and team oriented?
- More agile ways of working?
- Multidisciplinary teams?
- Organisations to be optimised for adaptability and learning in preparation of tech disruption? Culture of learning throughout organisation?

-> Define the objectives of using AI, make available proper dataset, redesign workflows



Thank you

