

SHAPING EUROPE'S DIGITAL FUTURE

EU approach to Artificial Intelligence and the world of labour

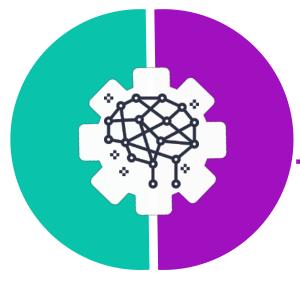
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The baseline

Al is good ...

- For citizens
- For business
- For the public interest





.. but may create some risks

- For the safety of consumers and users
- For fundamental rights



European Al policy (2018-2021)

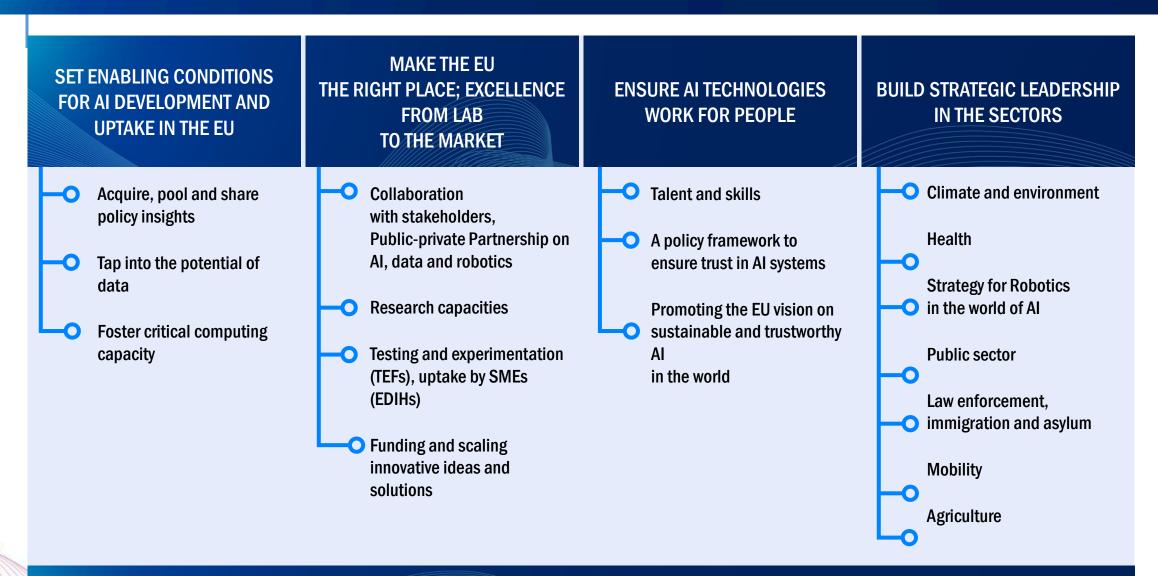
Key initiatives:

- European Strategy on AI (April 2018)
- Guidelines for Trustworthy AI developed in 2019 by the High-Level Expert Group on Artificial Intelligence (HLEG)
- First Coordinated Plan on AI (December 2018)
- The Commission's **White Paper on Al** (February 2020) followed by a **public consultation**.
- Al package (April 2021)
 - Coordinated plan on AI (review)
 - Proposal for an Al Regulation

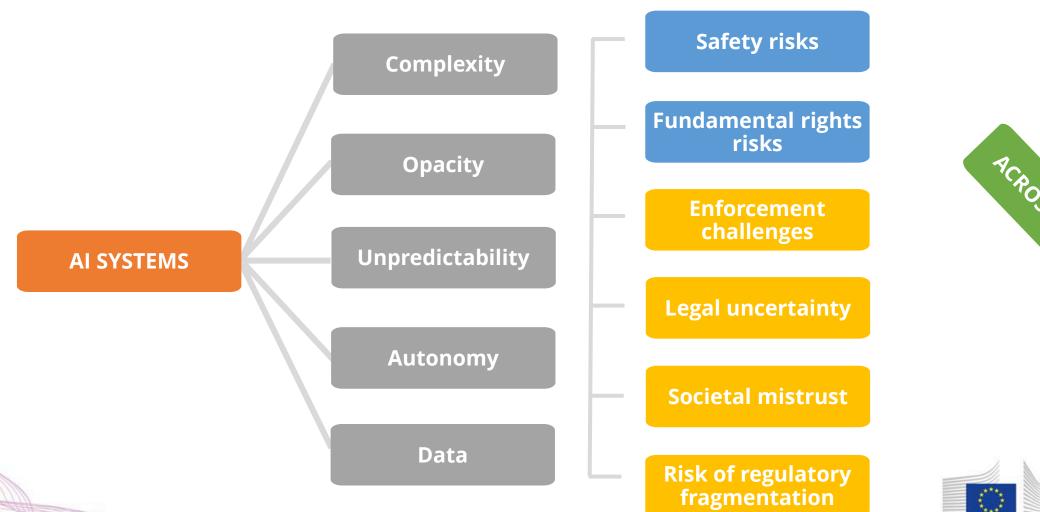




Updated Coordinated Plan on AI (review from 2018): joint commitment between the Commission and Member States



Why do we need an AI regulation in Europe?







Proposal for a Regulation on Al

Horizontal legislation laying down uniform rules for AI in the EU market

- "Classic" internal market rules applicable to the placing on the market, putting into service and use of Al systems
- Two main objectives:
 - create a single market for trustworthy AI in EU
 - address risks to safety and fundamental rights
- Consistent with and complementing existing EU and national law (e.g. employment, data protection)

Innovation-friendly and risk-based legislation

- Provide legal certainty to operators and stimulate trust in the market
- ▶ No overregulation: designed to intervene only where strictly needed following a risk-based approach

Creates a level playing field for EU and non-EU players

Applicable independent of origin of producer or user



Definition of Artificial Intelligence



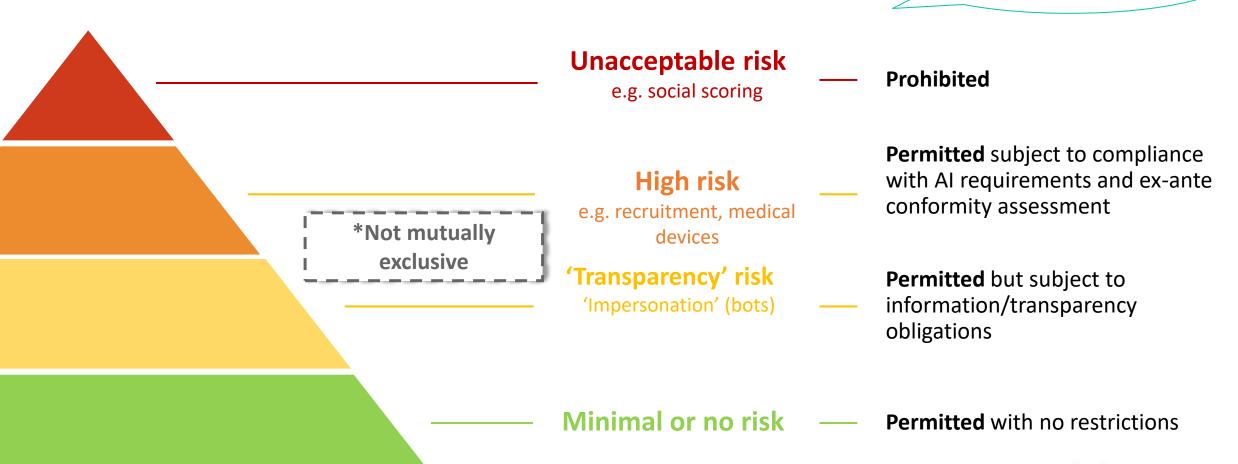
- 6 "a software that is developed with one or more of the techniques and approaches listed in Annex I and can, for a given set of humandefined objectives, generate outputs such as content, predictions, recommendations, or decisions influencing the environments they interact with"
- Definition of AI should be as neutral as possible in order to cover techniques which are not yet known/developed
- Overall aim is to cover all AI, including traditional symbolic AI, Machine learning, as well as hybrid systems
- Annex I: list of AI techniques and approaches should provide for legal certainty (adaptations over time may be necessary)



Risk-based approach

The higher the risk the stricter the rules

No regulation of the technology as such





Most Al systems will not be high-risk (Titles IV, IX)

Transparency obligations for certain AI systems (Art. 52)

- Notify humans that they are interacting with an AI system unless this is evident
- Notify humans that they are exposed to emotional recognition or biometric categorisation systems
- Apply label to deep fakes

MINIMAL OR NO RISK

Possible voluntary codes of conduct (Art. 69)

- No mandatory obligations
- Commission and Board to encourage drawing up of codes of conduct (voluntary application of requirements for high-risk AI systems or other requirements)



High-risk Artificial Intelligence Systems (Title III, Chapter 1 & Annexes II and III)



SAFETY COMPONENTS OF REGULATED PRODUCTS

(e.g. medical devices, machinery) which are subject to third-party assessment under the relevant sectorial legislation

- CERTAIN (STAND-ALONE) AI SYSTEMS IN THE FOLLOWING AREAS
 - ✓ Biometric identification and categorisation of natural persons
 - Management and operation of critical infrastructure
 - Education and vocational training
 - Employment and workers management, access to self-employment

- Access to and enjoyment of essential private services and public services and benefits
- ✓ Law enforcement
- Migration, asylum and border control management
- Administration of justice and democratic processes



Employment, workers management and access to self-employment





Al systems intended to be used for **recruitment or selection of natural persons**, notably for advertising vacancies, screening or filtering applications, evaluating candidates in the course of interviews or tests;



All intended to be used for making decisions on promotion and termination of work-related contractual relationships, for task allocation and for monitoring and evaluating performance and behavior of persons in such relationships



Requirements for high-risk AI (Title III, chapter 2)



Use high-quality training, validation and testing data (relevant, representative etc.)

Establish documentation and design logging features (traceability & auditability)

for RBI applications - enhanced logging requirements

Establish and implement risk management processes

Ensure appropriate degree of **transparency** and provide users with **information** (on how to use the system, its capabilities and limitations)

Enable **human oversight** (measures built into the system and/or to be implemented by users)

Enhanced oversight for RBI applications - "Four eyes" principle

Ensure robustness, accuracy and cybersecurity

NB! Harmonised technical standards developed by ESOs will support providers to demonstrate compliance

CE marking and process (Title III, chapter 4, art. 49.)

CE marking = indication that product complies with requirements of applicable Union legislation

In order to affix a CE marking, provider shall undertake the following steps:

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Determine whether its Al system is classified as high-risk under the new Al Regulation



Ensure design and development of AI systems are in compliance with the AI Regulation



Undergo conformity
assessment procedure to
assess and demonstrate
compliance

PLACING ON THE MARKET or PUTTING INTO SERVICE



Affix the CE marking to the system and sign a declaration of conformity



Provider obligations (incl. companies developing in-house)

- ▶ Undergo **conformity** and potentially re-assessment of the system (in case of significant modifications) to demonstrate compliance with AI requirements
- ► Establish and Implement quality management system in its organisation
- ▶ Draw-up and keep up-to-date **technical documentation**
- ▶ **Keep logs** to monitor the operation of the high-risk AI system (when empowered by law or the user)
- ▶ **Register** stand-alone AI system in public EU database
- ► Affix CE marking and sign declaration of conformity
- ► Conduct **post-market monitoring** and take corrective action
- ▶ Report serious incidents and malfunction that can pose risks to fundamental rights
- ▶ Collaborate with market surveillance authorities

User obligations (Al developed in-house or bought off the shelf)

- ▶ Ensure human oversight and operate AI system in accordance with the instructions of use
- ▶ Monitor operation for possible risks
- ▶ Inform the provider or distributor about any serious incident or any malfunctioning
- ▶ Use the information given by the provider for the data protection impact assessment (where applicable)

Existing legal obligations for users continue to apply (e.g. under employment law see also recital 31)

Al that contradicts EU values is prohibited (Title II, Art. 5)





Subliminal manipulation resulting in physical/ psychological harm

EXAMPLE

An **inaudible sound** is played in truck drivers' cabins to push them to **drive longer than healthy and safe**. All is used to find the frequency maximising this effect on drivers.



EXAMPLE

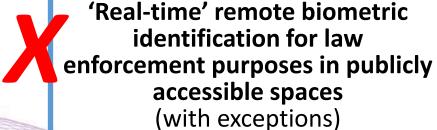
A doll with an integrated **voice assistant** encourages a minor to **engage in progressively dangerous behavior** or challenges in the guise of a fun or cool game.



'Social scoring' by public authorities

EXAMPLE

An AI system **identifies at-risk children** in need of social care **based on insignificant or irrelevant social 'misbehavior'** of parents, e.g. missing a doctor's appointment or divorce.



EXAMPLE

All faces captured live by video cameras checked, in real time, against a database to identify a terrorist.



Supporting innovation (Title V)

Regulatory sandboxes
Art. 53 and 54

Support for SMEs/start-ups Art. 55





Governance and Enforcement (Title VIII and IX)

National level

Key role for enforcement

National Market
Surveillance Authorities



Cooperation with other authorities responsible for enforcement of fundamental rights legislation

European level

Coordination of implementation and exchange

European Artificial Intelligence Board



Commission to act as Secretariat



Expert Group*



Commission

*Not foreseen in the regulation but the Commission intends to introduce it in the implementation process.

Next steps

2

3

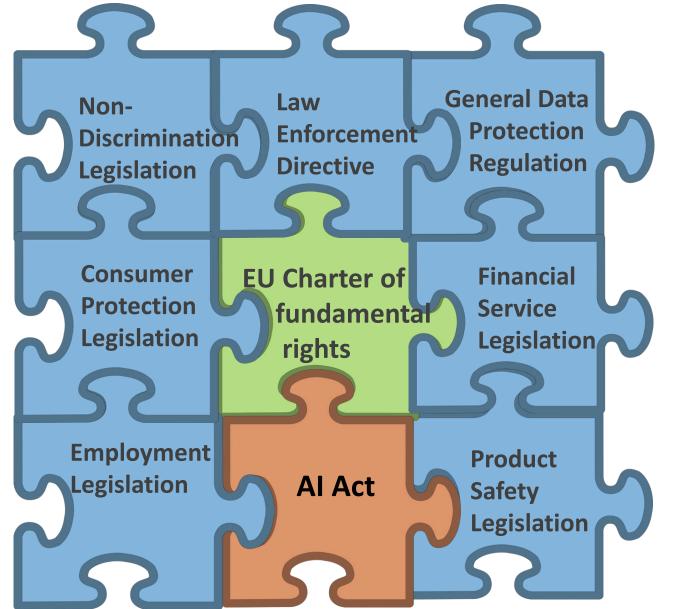
The European Parliament and the Council as colegislators will negotiate the proposal and agree on a compromise in the ordinary legislative procedure

Once adopted, there will be 2 years of transitional period before the Regulation becomes directly applicable across the EU.

In parallel, harmonized standards of CEN/CENELEC should be ready and support operators in the practical implementation of the new rules& conformity assessment procedures



Comprehensive EU regulatory approach to Al





Making Europe fit for the digital age

- ➤ Proposal for AI Regulation
- ➤ Proposal for a Platform work Directive
- ➤ Digital decade: digital targets for 2030
- ➤ Data strategy, the Data Governance Act and proposal for a Data Act
- ➤ Proposals for Digital services Act and Digital Market Act (DSA and DMA)
- ➤ Proposal for review of the Network and Information Security Regulation (NIS2)
- ➤ Proposal for the eIDAS Regulation



