Artificial intelligence act

OVERVIEW

The European Commission unveiled a new proposal for an EU regulatory framework on artificial intelligence (AI) in April 2021. The draft AI act is the first ever attempt to enact a horizontal regulation of AI. The proposed legal framework focuses on the specific utilisation of AI systems and associated risks. The Commission proposes to establish a technology-neutral definition of AI systems in EU law and to lay down a classification for AI systems with different requirements and obligations tailored on a ‘risk-based approach’. Some AI systems presenting ‘unacceptable’ risks would be prohibited. A wide range of ‘high-risk’ AI systems would be authorised, but subject to a set of requirements and obligations to gain access to the EU market. Those AI systems presenting only ‘limited risk’ would be subject to very light transparency obligations. While generally supporting the Commission's proposal, stakeholders and experts call for a number of amendments, including revising the definition of AI systems, broadening the list of prohibited AI systems, strengthening enforcement and redress mechanisms and ensuring proper democratic oversight of the design and implementation of EU AI regulation.

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Ordinary legislative procedure (COD) (Parliament and Council on equal footing – formerly ‘co-decision’)

Next steps expected:
Publication of draft report
Introduction

AI technologies are expected to bring a wide array of economic and societal benefits to a wide range of sectors, including environment and health, the public sector, finance, mobility, home affairs and agriculture. They are particularly useful for improving prediction, for optimising operations and resource allocation, and for personalising services. However, the implications of AI systems for fundamental rights protected under the EU Charter of Fundamental Rights, as well as the safety risks for users when AI technologies are embedded in products and services, are raising concern. Most notably, AI systems may jeopardise fundamental rights such as the right to non-discrimination, freedom of expression, human dignity, personal data protection and privacy.

Given the fast development of these technologies, in recent years AI regulation has become a central policy question in the European Union (EU). Policy-makers pledged to develop a 'human-centric' approach to AI to ensure that Europeans can benefit from new technologies developed and functioning according to the EU values and principles. While the EU does not yet have a specific legal framework for AI, in its White Paper on Artificial Intelligence, the European Commission highlighted the necessity for a regulatory and investment oriented approach with the twin objectives of promoting the uptake of AI and of addressing the risks associated with certain uses of this new technology.

For this purpose, the European Commission initially adopted a soft-law approach with the publication of its non-binding 2019 Ethics Guidelines for Trustworthy AI and Policy and investment recommendations. However, with the Communication on Fostering a European approach to Artificial Intelligence published in 2021, the Commission shifted towards a legislative approach and called for the adoption of a new regulatory framework on artificial intelligence. Since the existing legislation protecting fundamental rights and ensuring safety and consumer rights (including data protection and non-discrimination laws) appear insufficient to tackle the risks posed by AI technologies, the Commission proposes the adoption of harmonised rules for the development, placement on the market and use of AI systems. The new rules would complement and be designed following the logic of the existing EU rules on safety products and would be adopted alongside a new Machinery Regulation, aiming to adapt safety rules to a new generation of products, such as 3D printers.

AI regulation approach in the world. The United States of America (USA) has to date taken a rather hands-off approach towards AI regulation. The National Artificial Intelligence Initiative Act of 2020 was passed primarily with the objective to foster investments and research and development (R&D) in AI, and the US Federal Trade Commission believes that, at this stage, the existing US legal framework sufficiently addresses the risk of biases and discrimination associated with the growing use of AI systems. The United Kingdom (UK) published its National AI Strategy in September 2021, setting out how the UK will invest in AI applications and plans to present its AI regulation in 2022. At international level, the Organisation for Economic Co-operation and Development (OECD) has adopted a (non-binding) Recommendation on AI, while the Council of Europe is currently working on a legal framework for the development, design and application of AI. Furthermore, in the context of the newly established EU-US tech partnership (the Trade and Technology Council), the EU and the USA seek to develop a mutual understanding on the principles underlining trustworthy and responsible AI.

Parliament’s starting position

Leading the EU-level debate, the European Parliament called on the European Commission to assess the impact of AI and to draft an EU framework for AI in its wide-ranging 2017 recommendations on civil law rules on robotics. More recently, in 2020 and 2021, the Parliament adopted a number of non-legislative resolutions calling for EU action, as well as two legislative resolutions calling for the adoption of EU legislation in the field of AI. A first legislative resolution asked that the Commission establish a legal framework of ethical principles for the development, deployment and use of AI, robotics and related technologies in the Union. A second legislative resolution called for
harmonisation of the legal framework for civil liability claims and imposition of a regime of strict liability on operators of high-risk AI systems. Furthermore, the Parliament adopted a series of recommendations calling for a common EU approach to AI in the intellectual property, criminal law, education, culture and audiovisual areas, and regarding AI civil and military uses.

Council starting position

In the past, the Council has repeatedly called for the adoption of common AI rules, including in 2017 and 2019. More recently, in 2020, the Council called upon the Commission to put forward concrete proposals that take existing legislation into account and follow a risk-based, proportionate and, if necessary, regulatory approach. Furthermore, the Council invited the EU and the Member States to consider effective measures for identifying, predicting and responding to the potential impacts of digital technologies, including AI, on fundamental rights.

Preparation of the proposal

Following the White Paper on Artificial Intelligence adopted in February 2020, the Commission launched a broad public consultation in 2020 and published an Impact Assessment of the regulation on artificial intelligence, a supporting study and a draft proposal, which received feedback from a variety of stakeholders. In its impact assessment, the Commission identifies six main problems raised by the development and use of AI systems, due to their specific characteristics.

- The use of AI poses increased risks to citizens' safety and security.
- Use of AI poses increased risks of violations of citizens' fundamental rights and Union values.
- Authorities do not have the powers, procedural frameworks and resources to ensure and monitor AI development and use complies with applicable rules.
- Legal uncertainty and complexity on how existing rules apply to AI systems dissuade businesses from developing and using AI systems.
- Mistrust in AI would impede AI development in Europe and reduce the global competitiveness of the EU economy.
- Fragmented measures create obstacles for the cross-border AI single market and threaten the Union's digital sovereignty.

The changes the proposal would bring

The Commission unveiled a new proposal for an AI act in April 2021. The legal framework focuses on the specific utilisation of AI systems and associated risks. The proposed AI act would be a horizontal EU legislative instrument applicable to all AI systems placed on the market or used in the Union.

Purpose, legal basis and scope

The general objective of the proposed AI act is to ensure the proper functioning of the single market by creating the conditions for the development and use of trustworthy AI systems in the Union. The draft legislation therefore lays down a harmonised legal framework for the development, placing on the Union market, and the use of AI products and services. In addition, the AI act proposal seeks to achieve a set of specific objectives: (i) ensure that AI systems placed on the EU market are safe and respect existing EU law, (ii) ensure legal certainty to facilitate investment and innovation in AI, (iii) enhance governance and effective enforcement of EU law on fundamental rights and safety requirements applicable to AI systems, and (iv) facilitate the development of a single market for lawful, safe and trustworthy AI applications and prevent market fragmentation.

The new AI framework, based on Article 114 and Article 16 of the Treaty on the Functioning of the European Union (TFEU), would enshrine a technology-neutral definition of AI systems and
adopt a risk-based approach, which lays down different requirements and obligations for the development, placing on the market and use of AI systems in the EU. In practice, the proposal defines common mandatory requirements applicable to the design and development of AI systems before they are placed on the market and harmonises the way ex-post controls are conducted. The proposed AI act would complement existing and forthcoming, horizontal and sectoral EU safety regulation. The Commission proposes to follow the logic of the new legislative framework (NLF), i.e. the EU approach to ensuring a range of products comply with the applicable legislation when they are placed on the EU market.

The new legislative framework was adopted in 2008 to improve the internal market for goods and strengthen the conditions for placing a wide range of products (e.g. toys, medical devices) on the EU market. It comprises a package of measures aimed at streamlining the obligations on manufacturers, authorised representatives, importers and distributors, to improve market surveillance and to regulate conformity assessments and the use of CE marking.

The new rules would apply primarily to providers of AI systems established within the EU or in a third country placing AI systems on the EU market or putting them into service in the EU, as well as to users of AI systems located in the EU. To prevent circumvention of the regulation, the new rules would also apply to providers and users of AI systems located in a third country where the output produced by those systems is used in the EU. However, the draft regulation does not apply to AI systems developed or used exclusively for military purposes, to public authorities in a third country, nor to international organisations, or authorities using AI systems in the framework of international agreements for law enforcement and judicial cooperation.

Definitions

No single definition of artificial intelligence is accepted by the scientific community and the term ‘AI’ is often used as a ‘blanket term’ for various computer applications based on different techniques, which exhibit capabilities commonly and currently associated with human intelligence. In the EU, the High Level Expert Group on AI proposed a baseline definition of AI that is increasingly used in the scientific literature, and the Joint Research Centre (JRC) has established an operational definition of AI based on a taxonomy that maps all the AI subdomains from a political, research and industrial perspective.

However, the Commission found that the notion of an AI system should be more clearly defined to ensure legal certainty, given that the determination of what an ‘AI system’ constitutes is crucial for the allocation of legal responsibilities under the new AI framework. The Commission therefore proposes to establish a legal definition of ‘AI system’ in EU law, which is largely based on a definition already used by the OECD. Article 3(1) of the draft act states that ‘artificial intelligence system’ means:

...software that is developed with [specific] techniques and approaches (listed in Annex 1) and can, for a given set of human-defined objectives, generate outputs such as content, predictions, recommendations, or decisions influencing the environments they interact with.

Annex 1 of the proposal lays out a list of techniques and approaches that are used today to develop AI. Accordingly, the notion of ‘AI system’ would refer to a range of software-based technologies that encompasses ‘machine learning’, ‘logic and knowledge-based’ systems, and ‘statistical’ approaches.

This broad definition covers AI systems that can be used on a stand-alone basis or as a component of a product. Furthermore, the proposed legislation aims to be future-proof and cover current and future AI technological developments. To that end, the Commission would complement the Annex 1 list with new approaches and techniques used to develop AI systems as they emerge – through the adoption of delegated acts (Article 4).
Furthermore, Article 3 provides a long list of definitions including that of 'provider' and 'user' of AI systems (covering both public and private entities), as well as 'importer' and 'distributor', 'emotion recognition', and 'biometric categorisation'.

**Risk-based approach**

**Pyramid of risks**

The use of AI, with its specific characteristics (e.g. opacity, complexity, dependency on data, autonomous behaviour), can adversely affect a number of fundamental rights and users' safety. To address those concerns, the draft AI act follows a risk-based approach whereby legal intervention is tailored to concrete level of risk. To that end, the draft AI act distinguishes between AI systems posing (i) unacceptable risk, (ii) high risk, (iii) limited risk, and (iv) low or minimal risk. Under this approach, AI applications would be regulated only as strictly necessary to address specific levels of risk.20

![Pyramid of risks](image)

Data source: European Commission.

**Unacceptable risk: Prohibited AI practices**

Title II (Article 5) of the proposed AI act explicitly bans harmful AI practices that are considered to be a clear threat to people's safety, livelihoods and rights, because of the 'unacceptable risk' they create. Accordingly, it would be prohibited to place on the market, put into services or use in the EU:

- AI systems that deploy harmful manipulative 'subliminal techniques';
- AI systems that exploit specific vulnerable groups (physical or mental disability);
- AI systems used by public authorities, or on their behalf, for social scoring purposes;
- 'Real-time' remote biometric identification systems in publicly accessible spaces for law enforcement purposes, except in a limited number of cases.21

**High risk: Regulated high-risk AI systems**

Title III (Article 6) of the proposed AI act regulates 'high-risk' AI systems that create adverse impact on people's safety or their fundamental rights. The draft text distinguishes between two categories of high-risk AI systems.

- High-risk AI systems used as a safety component of a product or as a product falling under Union health and safety harmonisation legislation (e.g. toys, aviation, cars, medical devices, lifts).
• High-risk AI systems deployed in eight specific areas identified in Annex III, which the Commission would be empowered to update as necessary by way of a delegated act (Article 7):
  - Biometric identification and categorisation of natural persons;
  - Management and operation of critical infrastructure;
  - Education and vocational training;
  - Employment, worker management and 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.

All of these high-risk AI systems would be subject to a set of new rules including:

Requirement for an ex-ante conformity assessment: Providers of high-risk AI systems would be required to register their systems in an EU-wide database managed by the Commission before placing them on the market or putting them into service. Any AI products and services governed by existing product safety legislation will fall under the existing third-party conformity frameworks that already apply (e.g. for medical devices). Providers of AI systems that are currently not governed by EU legislation would have to conduct their own conformity assessment (self-assessment) showing that they comply with the new requirements for high-risk AI systems and can use CE marking. Only high-risk AI systems used for biometric identification would require a conformity assessment by a ‘notified body’.

Other requirements for high-risk AI systems: Such systems would have to comply with a range of requirements particularly on risk management, testing, technical robustness, data training and data governance, transparency, human oversight, and cybersecurity (Articles 8 to 15). In this regard, providers, importers, distributors and users of high-risk AI systems would have to fulfil a range of obligations. Providers established outside the Union will have to appoint an authorised representative in the EU to (inter alia), ensure the conformity assessment, establish a post-market monitoring system and take corrective actions as needed. AI systems that conform to expected new harmonised EU standards, currently under development, would benefit from a presumption of conformity with the draft AI act requirements.22

Facial recognition: AI powers the use of biometric technologies, including facial recognition technologies (FRTs), which are used by private or public actors for verification, identification and categorisation purposes. While there are real benefits to using facial recognition systems for public safety and security, their pervasiveness and intrusiveness, as well as their susceptibility to error, give rise to a number of fundamental rights concerns with regard, for instance, to discrimination against certain segments of the population and violations of the right to data protection and privacy. Against this backdrop, in addition to the existing applicable legislation (e.g. data protection and non-discrimination), the draft AI act proposes to introduce new rules for FRTs and differentiate them according to their ‘high-risk’ or ‘low-risk’ usage characteristics. The use of real-time facial recognition systems in publicly accessible spaces for the purpose of law enforcement would be prohibited, unless Member States choose to authorise them for important public security reasons, and the appropriate judicial or administrative authorisations are granted. A wide range of FRTs used for purposes other than law enforcement (e.g. border control, market places, public transport and even schools) could be permitted, subject to a conformity assessment and compliance with safety requirements before entering the EU market. Conversely, facial recognition systems used for categorisation purposes would be considered ‘low-risk’ systems and only subject to limited transparency and information requirements.23

Limited risk: Transparency obligations

The AI systems presenting ‘limited risk’, such as systems that interacts with humans (i.e. chatbots), emotion recognition systems, biometric categorisation systems, and AI systems that generate
or manipulate image, audio or video content (i.e. deepfakes), would be subject to a limited set of transparency obligations (Title IV).

**Low or minimal risk: No obligations**

All other AI systems presenting only low or minimal risk could be developed and used in the EU without conforming to any additional legal obligations. However, the proposed AI act envisages the creation of codes of conduct to encourage providers of non-high-risk AI systems to voluntarily apply the mandatory requirements for high-risk AI systems (Title IX).

**Governance, enforcement and sanctions**

At Union level, the proposal establishes a European Artificial Intelligence Board (composed of representatives from the Member States and the European Commission), to facilitate harmonised implementation of the new rules and to ensure cooperation between the national supervisory authorities and the Commission. At national level, Member States would have to designate one or more competent authorities, including a national supervisory authority, which would be tasked with supervising the application and implementation of the regulation.

National market surveillance authorities would be responsible for assessing operators’ compliance with the obligations and requirements for high-risk AI systems (Title VIII, Chapter 3). They would have access to confidential information (including the source code of the AI systems), and are therefore subject to binding confidentiality obligations. Furthermore, they would be required to take any corrective measures to prohibit, restrict, withdraw or recall AI systems that do not comply with the AI act requirements or that, although compliant, present a risk to health or safety of persons or to fundamental rights or other public interest protection. In case of persistent non-compliance, the Member States concerned will have to take all appropriate measures to restrict, prohibit, recall or withdraw the high-risk AI system at stake from the market.

Administrative fines of varying scales (up to €30 million or 6% of the total worldwide annual turnover), depending on the severity of the infringement, are set out to sanction non-compliance with the AI act. Member States would need to lay down rules on penalties, including administrative fines and take all measures necessary to ensure that they are properly and effectively enforced (Article 71).

**Measures to support innovation**

The Commission proposes that Member States, or the European Data Protection Supervisor, could establish a regulatory sandbox, i.e. a controlled environment that facilitates the development, testing and validation of innovative AI systems (for a limited period of time) before they are put on the market (Title V). Sandboxing will enable participants to use personal data to foster AI innovation, without prejudice to the GDPR requirements. Other measures are tailored specifically to small-scale providers and start-ups (e.g. Articles 55 and 69.4).

**Advisory committees**

The European Economic and Social Committee adopted its opinion on the proposed artificial intelligence act on 22 September 2021.

**National parliaments**

The deadline for the submission of reasoned opinions on the grounds of subsidiarity was 2 September 2021. Contributions were received from the Czech Chamber of Deputies and the Czech Senate, the Portuguese Parliament, the Polish Senate and the German Bundesrat.
Stakeholder views

Definitions

Definitions are a contentious point of discussion among stakeholders. The Big Data Value Association, an industry-driven international not-for-profit organisation, stresses that the definition of AI systems is quite broad and would cover far more than what is subjectively understood as AI, including the simplest search, sorting and routing algorithms, which would consequently be subject to new rules. Furthermore, they ask for clarification of how components of larger AI systems (such as pre-trained AI components from other manufacturers or components that are not released independently), should be treated. AmCham, the American chamber of commerce in the EU, suggests avoiding over-regulation by adopting a narrower definition of AI systems, which would focus strictly on AI high-risk applications (and not extend to AI applications that are not high-risk, or software in general). AccessNow, an association defending users’ digital rights argues the definitions of ‘emotion recognition’ and ‘biometric categorisation’ are technically flawed, and recommends adjustments. AlgorithmWatch, a non-profit research and advocacy organisation, believes that the proposed AI act should use the notion of automated and algorithmic decision-making (ADM) systems that capture more precisely the socio-economic impact of AI systems on individuals and society.

Risk-based approach

While they generally welcome the proposed AI act’s risk-based approach, some stakeholders support wider prohibition and regulation of AI systems. Civil rights organisations, including EDRi and others, are calling for a ban on indiscriminate or arbitrarily-targeted use of biometrics in public or publicly-accessible spaces and for restrictions on the uses of AI systems, including for border control and predictive policing. AccessNow argues that the provisions concerning prohibited AI practices (Article 5) are too vague and proposes a wider ban on the use of AI to categorise people based on physiological, behavioural or biometric data, for emotion recognition, as well as dangerous uses in the context of policing, migration, asylum, and border management. Furthermore, they call for stronger impact assessment and transparency requirements. The European Enterprises Alliance stresses that there is general uncertainty about the roles and responsibilities of the different actors in the AI value chain (developers, providers, and users of AI systems). This is particularly challenging for companies providing general purpose application programming interfaces or open-source AI models that are not specifically intended for high-risk AI systems but are nevertheless used by third parties in a manner that could be considered high-risk. They also call for ‘high-risk’ to be redefined, based on the measurable harm and potential impact. AlgorithmWatch underlines that the applicability of specific rules should not depend on the type of technology, but on the impact it has on individuals and society. They call for the new rules to be defined according to the impact of the AI systems and recommend that every operator should conduct an impact assessment that assesses the system’s risk levels on a case-by-case basis. Climate Change AI calls for climate change mitigation and adaptation to be taken into account in the classification rules for high-risk AI systems and impose environmental protection requirements.

Consumer protection

The European Consumer Organisation, BEUC, stresses that the proposal requires substantial improvement to guarantee consumer protection. The organisation argues that the proposal should have a broader scope and impose basic principles and obligations (e.g. on fairness, accountability and transparency) upon all AI systems, as well as prohibiting more comprehensively harmful practices (such as private entities’ use of social scoring and of remote biometric identification systems in public spaces). Furthermore, consumers should be granted a strong set of rights, effective remedies and redress mechanisms, including collective redress.
Impact on investments and SMEs

There are opposing views on the impact of the proposed regulation on investment. A study by the Centre for Data Innovation (representing large online platforms) highlights that the compliance costs incurred under the proposed AI act would likely provoke a chilling effect on investment in AI in Europe and could particularly deter small and medium-sized enterprises (SMEs) from developing high-risk AI systems. According to the Centre for Data Innovation, the AI act would cost the European economy €31 billion over the next five years and reduce AI investments by almost 20%. However, such estimations of the compliance costs are challenged by the experts from the Centre for European Policy Studies, as well as by other economists. The European Digital SME Alliance warns against overly stringent conformity requirements and asks for an effective representation of SMEs in the standards-setting procedures. Furthermore, they believe sandboxes should be mandatory in all EU Member States.

Academic and other views

While generally supporting the Commission’s proposal, critics call for amendments, including revising the ‘AI systems’ definition, ensuring a better allocation of responsibility, strengthening enforcement mechanisms and fostering democratic participation. Among the main issues are:

AI systems definition

The legal definition of ‘AI systems’ contained in the proposed AI act has been heavily criticised. Smuha and others warn the definition lacks clarity and may lead to legal uncertainty, especially for some systems that would not qualify as AI systems under the draft text, while their use may have an adverse impact on fundamental rights. To address this issue, the authors propose to broaden the scope of the legislation to explicitly include all computational systems used in the identified high-risk domains, regardless of whether they are considered to be AI. According to the authors, the advantage would be in making application of the new rules more dependent on the domain in which the technology is used and the fundamental rights-related risks, rather than on a specific computational technique. Ebers and others consider that the scope of ‘AI systems’ is overly broad, which may lead to legal uncertainty for developers, operators, and users of AI systems and ultimately to over-regulation. They call on EU law-makers to exempt AI systems developed and used for research purposes and open-source software (OSS) from regulation. Other commentators question whether the proposed definition of ‘AI systems’ is truly technology neutral as it refers primarily to ‘software’, omitting potential future AI developments.

Risk-based approach

Academics also call for amendments, warning that the risk-based approach proposed by the Commission would not ensure a high level of protection of fundamental rights. Smuha and others argue that the proposal does not always accurately recognise the wrongs and harms associated with different kinds of AI systems and therefore does not appropriately allocate responsibility. Among other things, they recommend adding a procedure that enables the Commission to broaden the list of prohibited AI systems and propose banning existing manipulative AI systems (e.g. deepfakes), social scoring and some biometrics. Ebers and others call for a more detailed classification of risks to facilitate industry self-assessment and support, as well as prohibiting more AI systems (e.g. biometrics), including in the context of private use. Furthermore, some highlight that the draft legislation does not address systemic sustainability risks created by AI especially in the area of climate and environmental protection.

Experts seem particularly concerned by the implementation of Article 5 (prohibited practices) and Article 6 (regulated high-risk practices). One of the major concerns raised is that the rules on prohibited and high-risk practices may prove ineffective in practice, because the risk assessment is left to provider self-assessment. Veale and Zuiderveen Borgesius warn that most providers can
arbitrarily classify most high-risk systems as adhering to the rules using self-assessment procedures alone. Smuha and others recommend exploring whether certain high-risk systems would not benefit from a conformity assessment carried out by an independent entity prior to their deployment.

**Biometrics regulation.** A study commissioned by the European Parliament warns that the proposed definition of ‘biometric data’ (which is copied from the General Data Protection Regulation (GDPR), and is used to define ‘biometric identification system’, ‘biometric categorisation system’ and ‘emotion recognition system’), is too narrow and only reflects first generation biometric technologies. Instead, they suggest using a new definition of ‘biometrics-based data’. Furthermore, they recommend, inter alia, empowering the Commission to adapt the list of prohibited AI practices periodically, under the supervision of the European Parliament, and the adoption of a more comprehensive list of ‘restricted AI applications’ (comprising real-time remote biometric identification without limitation for law enforcement purposes). Regulation of facial recognition technologies (FRTs) is one of the most contentious issues. The European Data Protection Supervisor (EDPS) and the European Data Protection Board (EDPB) has called for a general ban on any uses of AI for the automated recognition of human features in publicly accessible spaces.

**Governance structure and enforcement and redress mechanisms**

Ebers and others stress that the AI act lacks effective enforcement structures. They argue the proposed approach leaves the preliminary risk assessment, including the qualification as high-risk, to provider self-assessment. They also raise concerns about the excessive delegation of regulatory power to private European standardisation organisations (ESOs), due to the lack of democratic oversight, the impossibility for stakeholders (civil society organisations, consumer associations) to influence the development of standards, and the lack of judicial means to control them once they have been adopted. Instead, they recommend that the AI act codifies a set of legally binding requirements for high-risk AI systems (e.g. prohibited forms of algorithmic discrimination), which ESOs may then specify further through harmonised standards. Furthermore, they advocate that European policy-makers should strengthen democratic oversight of the standardisation process.

Commentators deplore a crucial gap in the AI act, which does not provide for individual enforcement rights. Ebers and others stress that individuals affected by AI systems and civil rights organisations have no right to complain to market surveillance authorities or to sue a provider or user for failure to comply with the requirements. Similarly, Veale and Zuiderveen Borgesius warn that, while some provisions of the draft legislation aim to impose obligations on AI systems users, there is no mechanism for complaint or judicial redress available to them. Smuha and others recommend amending the proposal to include, inter alia, an explicit right of redress for individuals and rights of consultation and participation for EU citizens regarding the decision to amend the list of high-risk systems in Annex III.

It has also been stressed that the text as it stands lacks proper coordination mechanisms between authorities, in particular concerning cross-border infringement. Consequently, the competence of the relevant authorities at national level should be clarified. Furthermore, guidance would be desirable on how to ensure compliance with transparency and information requirements, while simultaneously protecting intellectual property rights and trade secrets (e.g., to what extent the source code must be disclosed), not least to avoid diverging practices in the Member States.

**Legislative process**

In Parliament, the file has been provisionally assigned to the Committee on Internal Market and Consumer Protection (IMCO), with Brando Benifei (S&D, Italy) appointed as rapporteur in June 2021. In Council, negotiations between Member States have begun to find a common position. The Portuguese Presidency circulated a progress report in June 2021. While the Member States generally support the overall objectives of the proposal, questions arise as to the definition of ‘AI system’, the scope of the draft regulation, and the requirements for high-risk AI systems. Home Affairs Ministers
also **expressed** concerns that the proposed AI act could excessively restrict the use of AI in law enforcement.

**EP SUPPORTING ANALYSIS**


**Artificial intelligence at EU borders: Overview of applications and key issues**, Dumbrava C., EPRS, July 2021.

**OTHER SOURCES**

**Artificial Intelligence Act**, European Parliament, Legislative Observatory (OEIL).


**ENDNOTES**

1. See European Commission, Proposal for a regulation of the European Parliament and of the Council laying down harmonised rules on artificial intelligence (artificial intelligence act) 2021/0106 (COD), Explanatory memorandum (Commission proposal for an AI act). While the exact definition of AI is highly contested (see below), it is generally acknowledged that AI combines a range of technologies including machine-learning techniques, robotics and automated decision-making systems.


5. See note 1 above.


8. According to the Commission impact assessment, the five specific characteristics of AI are (i) opacity (limited ability of the human mind to understand how certain AI systems operate), (ii) complexity, (iii) continuous adaptation and unpredictability, (iv) autonomous behaviour, and (v) data (functional dependence on data and the quality of data).


10. For the adoption of a harmonised set of requirements for AI systems.

11. For the adoption of specific rules for the processing of personal data in the context of biometric identification.

12. The proposal complements both the sectoral product safety legislation, based on the new legislative framework (NLF) including the General Product Safety Directive, the Machinery Directive, the Medical Device Regulation and the EU framework on the approval and market surveillance of motor vehicles. The review of the Product Liability Directive to address liability issues related to new technologies, including AI systems is planned for Q4 2021-Q1 2022.


14. See Article 2. The proposed regulation would also apply to the Union institutions, offices, bodies and agencies acting as a provider or user of AI systems.

15. This covers the case of a service (digitally) provided by an AI system located outside the EU.


See Article 3(1) and Recital 6.

Annex 1 envisages three specific techniques and approaches for AI: ‘machine learning approaches’, including supervised, unsupervised and reinforcement learning, using a wide variety of methods including deep learning; ‘logic- and knowledge-based approaches’, including knowledge representation, inductive (logic) programming, knowledge bases, inference and deductive engines, (symbolic) reasoning and expert systems; and, ‘statistical approaches’, Bayesian estimation, search and optimisation methods.


FRTs would be allowed (i) for targeted search for potential victims of crime, including missing children, (ii) to prevent a specific, substantial and imminent threat to the life or physical safety of persons or of a terrorist attack, and (iii) for the detection, localisation, identification or prosecution of a perpetrator or individual suspected of a criminal offence referred to in the European Arrest Warrant Framework Decision.

Harmonised standards are defined in accordance with Regulation (EU) No 1025/2012 and the Commission could, by means of implementing acts, adopt common technical specifications in areas where no harmonised standards exist or where there is a need to address specific safety or fundamental rights concerns (Chapter 5).

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