

## **Feedback on the Artificial Intelligence Act**

The Center for Data Innovation (Transparency Register #: 367682319221-26) is pleased to respond to the European Commission's public consultation on the Artificial Intelligence Act (AIA).¹ We agree with the Commission's position that artificial intelligence (AI) technologies should be subject to a well-designed regulatory framework. This framework should encourage the responsible adoption and use of the technology to benefit society, provide guardrails that address potential harms, and foster growth and innovation in the European digital economy. Al represents a new frontier of digital technology whose impact on the economy and society will be transformative in the next decades. It is of central importance that the EU creates conditions where citizens can take advantage of the incredible range of opportunities AI represents for new sources of growth, productivity, and scientific progress that will make Europe richer, healthier, and safer.

# OVERVIEW OF THE CENTER FOR DATA INNOVATION'S POSITION ON THE ARTIFICIAL INTELLIGENCE ACT

The AIA is too broad in its attempt to regulate an entire stack of technologies and applications at such an early stage in the development of AI. The added cost for the development and deployment of AI imposed by the many regulatory obligations in the Act will impose an expensive burden on the European digital ecosystem. In particular, the AIA, along with other regulatory barriers to market entry and growth, will make it difficult for European digital entrepreneurs to set up new businesses, grow them, and in the process create jobs, technological progress, and wealth. In 2000, the Lisbon Strategy set out to make Europe "the most competitive and dynamic knowledge-based economy in the world." The EU has not achieved this goal, and the proposed top-down regulatory framework for AI development and use will once again create difficult conditions for new businesses to enter a revolutionary digital market, resulting in more missed opportunities for growth in Europe.

The AIA sets up an overarching regulatory framework for the widest possible range of AI algorithms. This approach is a flawed way to regulate a general-purpose technology like AI, which is more akin to the wheel, electricity, or the internal combustion engine, rather than specific technologies like automotive vehicles, airplanes, or the Haber process for ammonia production. Al involves a constantly evolving set of tools, methodologies, algorithmic frameworks—in other words, it is not an explicit device or engineering process, but rather an information-technological approach that will end

<sup>&</sup>lt;sup>1</sup> "Artificial intelligence – ethical and legal requirements," European Commission, n.d., <a href="https://ec.europa.eu/info/law/better-regulation/have-your-say/initiatives/12527-Artificial-intelligence-ethical-and-legal-requirements">https://ec.europa.eu/info/law/better-regulation/have-your-say/initiatives/12527-Artificial-intelligence-ethical-and-legal-requirements</a> en.



up embedded in many different social and commercial products and services, and thus is not easily amenable to singular regulation. It is impossible to predict the future impact of Al today and attempts to impose broad *a priori* rules on the technology will most likely create deadweight losses, opportunity costs, second-order effects, and other kinds of deleterious impacts on the rate and reach of digital progress in Europe.

The Center for Data Innovation recommends a regulatory approach for AI based on the idea of algorithmic accountability: the principle that an algorithmic system should employ a variety of controls to ensure the operator (the party responsible for deploying the algorithm) can verify it acts in accordance with its intentions, as well as identify and rectify harmful outcomes. Adopting this framework would both promote the vast benefits of algorithmic decision-making and minimize harmful outcomes.<sup>2</sup> This regulatory approach focuses on evidence-based action against documented harms, rather than an *ex ante* approach that tries to foresee how a new technological stack is used. Algorithmic legislation should focus on the idea that the operators of such tools can demonstrate they had controls to ensure the system was acting as intended. This approach allows for the regulatory framework to change over time as market forces, social norms, new technologies, and other factors shape the use of algorithms in society.

Beyond suggesting a different overall approach to regulating AI, we have the following concrete recommendations on how to improve the AIA.

#### **EXPAND AI REGULATORY SANDBOXES**

One of the costliest negative externalities the AIA creates is the reduction in the opportunities for AI development and use in Europe. Because the AIA applies horizontally, it dampens the prospects of European startups and small and medium enterprises (SMEs) developing and using AI. The AIA's regulatory sandbox provision is a sandbox in name only: It promises close regulatory oversight without any meaningful concessions in return. A sandbox should allow companies to experiment with new technologies free from some or all of an existing regulatory framework, while regulators monitor the impact. The sandbox acts as a two-way street: if regulators see that suspending certain rules or requirements does not lead to adverse outcomes, they conclude that these rules are redundant. A better approach for the AIA's sandbox would thus be to lift certain legal or regulatory requirements in exchange for closer supervision of outcomes by regulators. This would allow businesses to creatively experiment with new AI systems and see what impact various requirements have or do not have in the real world.

<sup>&</sup>lt;sup>2</sup> For more, see Joshua New and Daniel Castro, "How Policymakers Can Foster Algorithmic Accountability," May 21, 2018, <a href="https://www2.datainnovation.org/2018-algorithmic-accountability.pdf">https://www2.datainnovation.org/2018-algorithmic-accountability.pdf</a>.



To improve the AIA, the sandbox should:

- 1. Create a full exemption of the law's requirements for new businesses that can demonstrate they are closely monitoring and reporting on the safety and reliability of their systems.
- 2. Make it easy and straightforward for new businesses to join the sandbox and ensure new businesses working on AI have a legal right to participate in a sandbox where the AIA does not apply.
- 3. Exempt participating businesses from complying with the AIA until they have demonstrated the viability of their product and have begun to scale.

A major expansion of the sandbox provision is necessary to avoid making the EU a graveyard for domestic AI development where only mature AI companies go to sell their wares once they have scaled elsewhere. In addition, the AI regulator should apply learnings from sandbox participants into the law. For example, they should drop certain provisions if they turn out to be unnecessary or replaceable with more efficient alternatives that do not adversely affect consumer rights and safety.

### RELAX PROBLEMATIC TECHNICAL REQUIREMENTS

On multiple occasions, the Commission stressed that the purpose of the Act is not to regulate the technology of Al itself, but its use, depending on the level of risk it creates. However, several requirements for high-risk Al systems are specific technological regulations. The following obligations are problematic, as they are at odds with the technical realities faced by Al developers:

- 1. "Training, validation and testing data sets shall be relevant, representative, free of errors and complete." Most useful and relevant data sets would not meet such a high bar. While data quality is important, especially in unsupervised learning, many AI systems are designed to turn messy and noisy data into useful outputs. This requirement introduces an unattainably high bar for many types of AI systems and rules out an entire class of useful AI tools in Europe for the future.
- 2. "For high-risk AI systems, the requirements of high quality data, [...] traceability, [and] transparency [...] are strictly necessary." Requiring "traceability" and "transparency" as strictly necessary is problematic as these are contentious terms subject to varying interpretations. Under a strict reading, this clause introduces a legal requirement for explainable AI in Europe. Many researchers are already working on interpretable AI. However, several AI methodologies are, by their very nature, explainable only at higher levels of abstraction. This does not inherently reduce their usefulness. Indeed, plenty of human decisions are themselves untraceable. It is unreasonable to expect all AI systems to be traceable, as risks to fundamental rights can be mitigated through other tools (e.g., the right to appeal a given decision).



### CLARIFY AND REMOVE UNNECESSARY AND BURDENSOME COMPLIANCE REQUIREMENTS

The legislation creates an immense compliance burden for developers and users of high-risk AI systems. Europe's SMEs (which make up 99 percent of all businesses in Europe) stand to benefit from adopting and implementing AI tools to improve their ability to plan, decide, and manage resources, including human capital, and thus increase their productivity and raise wages. However, SMEs will be deterred from adopting AI tools by the enormous workload the AIA creates for them which will force many businesses to shift resources from investment to compliance. It is therefore of great importance that the AIA maintains the current self-assessment procedure and declaration of conformity, as mandating third-party compliance verification would be prohibitively expensive for most small businesses. The EU needs to incentivize the increased use of AI by European companies, as this will have important spillover effects for economic growth, productivity, and wages.

To reduce some of the AIA's burden, the proposal should be modified as follows:

- 1. Adjust the overly prescriptive requirement for humans to "fully understand" an Al system, and instead require operators to "understand the principles governing the Al system and verify it acts in accordance with their intentions."
- 2. Remove "inference and deductive engines" and "statistical approaches" from Annex I, as these are vague terms and are likely to encompass a huge range of software systems which it is unreasonable to categorize as constituting AI.
- 3. Clarify and align the terms "placing on the market", "making available on the market," "putting into service," and "developed with a view to placing it on the market," to avoid confusion.
- 4. Include a statutory commitment to liaise and align new standards with efforts from recognized international standard-setting bodies such as IEEE or from allied nations such as NIST, as well as seek input on these standards from industry voices, to ensure harmonized standards are created with a view to setting up an Al governance framework that extends beyond the EU and has an international dimension, especially in terms of compatibility with other like-minded democracies.

### **FINAL COMMENTS**

The many calls by civil society to further expand the bans on various Al tools must be resisted. The Commission is to be lauded for its balanced approach now how to regulate the use of biometric recognition tools by public authorities. Banning such tools outright represents an assault on European citizens' rights to live safe and secure lives, especially given that the AIA takes such care to ensure that privacy rights are respected by AI.



As a regulatory guiding principle, the Commission should bear in mind that the right to privacy co-exists along other fundamental rights for European citizens, rights to economic opportunity, to security, and to progress. The EU should not sacrifice the prospects for dramatic, foundational improvements to technology and society in the coming decades because of a fear of new digital tools. Al is arguably the most important human advancement since electricity. The European Union should ensure that it helps the peoples of Europe take advantage of this powerful new technology, to use it innovatively and help it generate growth. Businesses and societies that want to participate in this next wave of technological change need to be incentivized to do so, not hamstrung with a new set of costly and cumbersome regulations.