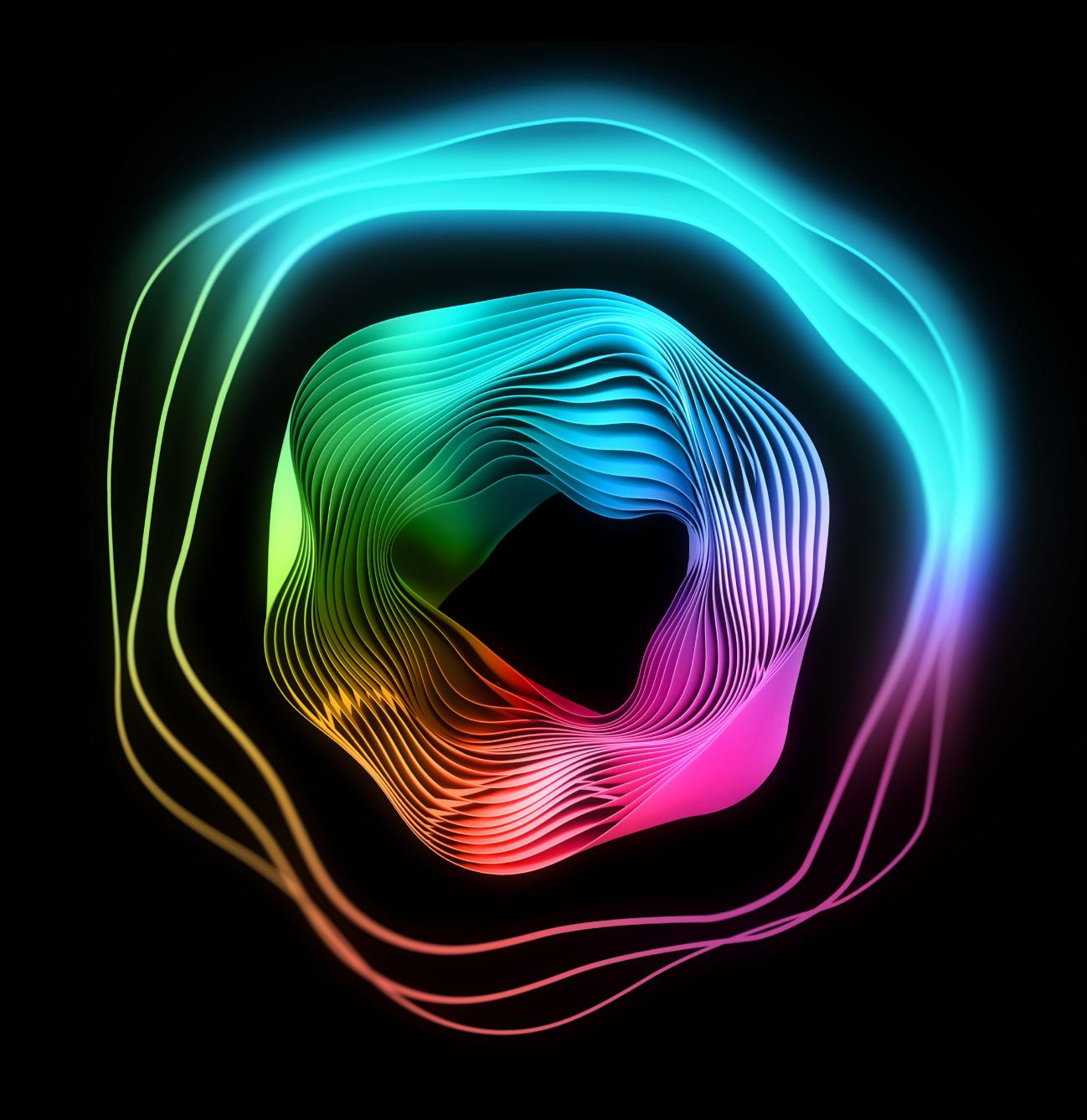
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The EU Al Act

Executive Summary February 2025



Overview

In force from 1st August 2024 with the first conditions effective from 2nd February 2025

Purpose

To promote human-centric and trustworthy AI – protecting health, safety, fundamental rights, democracy and the rule of law, and the environment from potential harmful effects – while supporting innovation, particularly among European SMEs.

Scope

Al (systems, models) deployed in the European Union. Extra territorial reach if Al system or its output affects individuals within the EU.

Approach

A risk-based approach, categorizing AI systems by use case into categories "unacceptable risk", "high risk" or other which drive compliance obligations (decommissioning prohibition, declaration of conformity, transparency requirements, or voluntary standards).

General-Purpose AI models (GPAI)

GPAI models provide base capabilities and can be applied widely to many use cases. As such, GPAI models are risk-categorized using alternate criteria and generally subject to enhanced transparency obligations.

Compliance

Providers (developers) must establish Quality Management and Risk Management Systems. They must validate high-risk AI systems against trustworthy AI principles prior to issuing a Declaration of Conformity, placing onto the EU market and registering in the public EU database. Post-launch, deployers mustlog issues into the EU database and providers update conformity assessments throughout the lifecycle.

Timing

The European Parliament and the Council have approved the final text. The AI Act was translated into all EU languages, published in the official journal, and entered into force on 1st August 2024. Its several conditions become progressively effective, for example from the 2nd February 2025 specific use cases are forbidden.

Enforcement

EU-wide authorities will coordinate across member states and follow larger topics, such as GPAl¹ and their underlying models (foundation models). National supervisors, so-called market oversight authorities, will enforce compliance, appointing "notified bodies" (permitted 3rd party auditors) to assess conformity in specific cases, engaged either by providers prior to issuing Declarations of Conformity or by the supervisor for audits.

Consequences

Fines range from 35 m€/7% global turnover (prohibited cases), 15 m€/3% (other infringements) to 7,5 m€/1% (reporting errors), as well as potential non-monetary penalties, such as forced removal of the AI system from the market.

Definition of an Al System

The final, agreed definition of AI aligns closely to the OECD definition

The negotiated perimeter aligns with the OECD definition



An AI system is "a machine-based system that is designed to operate with varying levels of autonomy and that may exhibit adaptiveness after deployment, and that, for explicit or implicit objectives, infers, from the input it receives, how to generate outputs such as predictions, content, recommendations, or decisions that can influence physical or virtual environments."

Al Systems



Machine-based



Infers outputs on input (training) data



Adaptable after placed into operation



Forecasts, decisions, recommendations



Varying degrees of autonomy



Follows explicit or implicit objectives



Influences a physical or virtual environment

Not AI Systems



Mathematical optimization



Basic data processing, including descriptive analysis



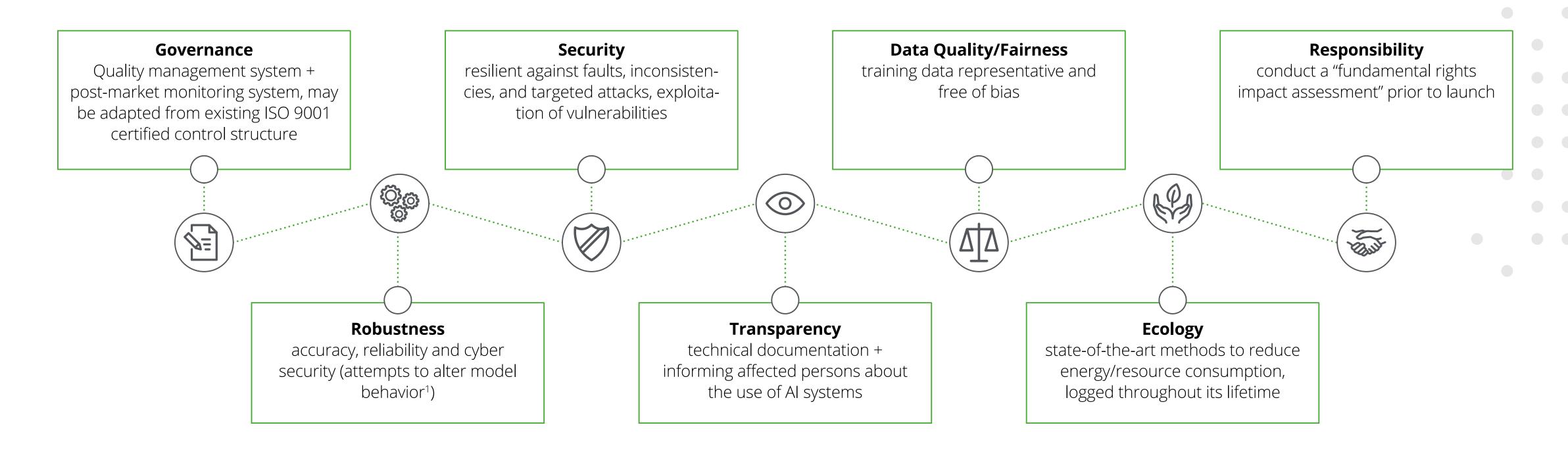
Classical heuristics



Simple forecasts

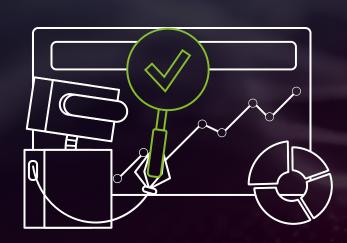
Trustworthy AI at the Core

The principles of Trustworthy AI are the paradigm for AI quality and form the bedrock for emerging technical standards



Beyond principles, European standards setters (e.g., CEN/CENELEC) will more concretely define how each of these principles translate into technical standards, against which AI systems must demonstrate compliance by law.

4 Application Scope Any Al systems affecting European citizens¹



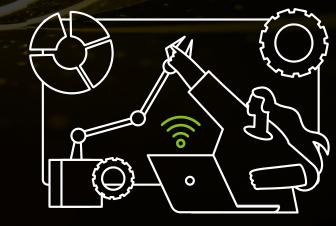
Al Systems...

- Al deployed in the EU
- Hosted outside the EU but deployed in the EU/accessed by European citizens (foundation models, very large online platforms = social media AI, or the use of their outputs)



Actors...

- Providers (Developers)
- Importers
- Distributors
- Deployers
- Authorized Representatives



Exceptions...

- Public authorities outside the EU
- R&D prior to market placement
- Academic research or personal use
- Open-source licensed²

HRAI systems already on the market prior to the AI Act, unless:

- they undergo "significant change" afterward
- they constitute a GPAI

GPAI already on the market prior to the AI Act are subject to an extended implementation period of 36 months.³

¹ not necessarily hosted or operated in Europe

² Unless they are (a) used in a high-risk Al system, (b) foundation models

³ Article 111

5

Enforcement

Each Member State shall establish a national supervisor, while the EU AI Office coordinates across borders

EU-wide



- A new body within the European Commission
- To coordinate the implementation of the Act throughout the EU Member States
- To monitor development of foundation models & general-purpose Al

Advisory Forum

- Composed of stakeholders from the business sector and civil society
- To provide a wide spectrum of viewpoints for consideration in the implementation process



- Consisting of independent experts
- To identify systemic risks, offer guidance on model classifications, ensure enforcement based on latest scientific understanding

At a national level



- National supervisor enforcing compliance
- Other competent authorities i.e., to supervise other, sector-specific regulatory requirements
- Notifying authority ensuring conformity assessments conducted properly & timely
- Notified bodies accredited to conduct conformity assessments

¹ for example, in Germany, the role is shared between existing authorities: BaFin for Financial Services, the Bundesnetzagentur (BnetzA) for all other sectors

General-Purpose AI (GPAI) and Foundation ModelsContrary to SPAI¹, the risk of GPAI is measured by the power/sophistication of the foundation model

Single Purpose Al Systems



- Detecting anomalies
- Recommender systems
- Predicting trends
- Classification (good/bad)
- Computer vision
- Reading text

General-Purpose AI Models (GPAI)



- **Large Language Model**
 - < 10²⁵ FLOP² training effort (conversation, text, code, ...)
- **Diffusion Model**
 - < 10²⁵ FLOP training effort (images, video, audio)
- "High-Impact" Foundation Model
 - > 10²⁵ FLOP training effort (multi-modal, reasoning engines, ...)
 - ... capabilities alone pose a systemic risk



Responsible parties

Developers of general-purpose Al models (foundation models), deployers if core capabilities substantially altered

Risk categorization

Differentiation in between GPAI and "high-impact" GPAI posing systemic risk

GPAI

Transparency obligations, including technical documentation, a strategy to ensure training data respecting copyrights, watermarking of AI generated content (especially training data)

Systemic Risk GPAI

Developers of general-purpose Al models (foundation models), deployers if core capabilities substantially altered

- perform model evaluations
- assess and mitigate systemic risks
- conduct adversarial testing
- report to the Commission on serious incidents
- ensure cyber security
- report on their energy efficiency
- adhere to codes of practice until harmonized EU standards published

¹ SPAI = Single Purpose AI

² FLOP = Floating Point Operations

7 Risk Classification of Al Systems

A differentiated approach depending on the perceived risk to EU citizens

Risk Category

Unacceptable Risk, i.e.

- Social scoring, profiling, manipulation
- Realtime biometric identification
- Emotion sensing at the workplace¹

High-Risk AI Systems, i.e.

- EU Product Safety list² (Annex I)
- Impairment of health, security orfundamental rights of EU citizens
- Specific cases listed in Annex III

Other AI Systems

- Chatbots
- Deep fakes
- Internal models
- Procedural tasks

Consequence

$\langle \rangle$

Prohibited

\bigcirc

02.02.2025

Timeline



i.e. Governance,ConformityAssessment,Monitoring,Logging



Freiwillige Standards



02.08.2026 – in general 02.08.2027 – Annex I (EU product safety) 31.12.2030 – Annex X (specific EU systems) GPAI: 02.08.2025

additionally...

Transparency

Obligations, also

applying to GPAI

02.08.2026



n.a.

€ Penalties up to:

35 m€ or 7% global annual turnover

• Unacceptable use cases (Article 5)

15 m€ or 3% global annual turnover

• Other breaches³

7,5 m€ or 1% global annual turnover

• Incorrect, incomplete, misleading response to a NCA/NB³ request

¹ Except for medical or security reasons

² Annex I

³ e.g. failure to comply to major requirements of HRAI (Articles 16 and 26)

⁴ NCA = National Competent Authority, NB = Notified Body

HRAI systems already on the market prior to the AI Act will be technically excluded from the scope, unless: a) they undergo "significant change" afterward b) they constitute a GPAI.

Output Output Ou

Specific cases are considered to violate fundamental human rights and are thus forbidden¹ applications of Al

Mass surveillance

Untargeted scraping of facial images from internet or CCTV for databases (privacy); ex-post remote biometric identification¹

Biometric categorization

Profiling using sensitive characteristics (demographics)²

Emotion recognition

At the workplace³ or in schools

Social scoring

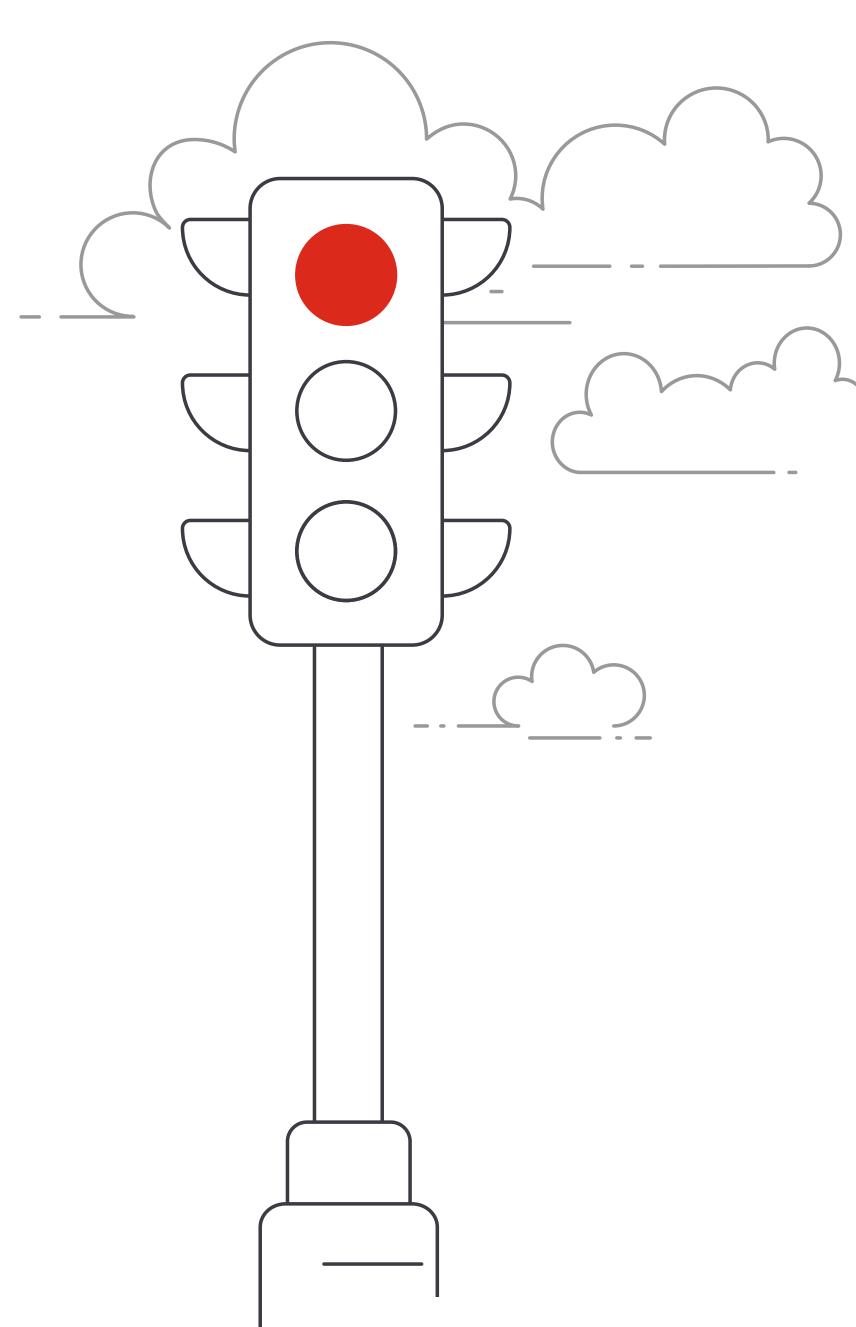
Based on behavior or personal characteristics where all conditions of Article 5(1)(c) are cumulatively fulfilled

Behavioral manipulation

To circumvent free will of individuals – particularly from vulnerable groups⁴

Implementation timeframe

02.02.2025 – regardless whether placed on the market prior to this date



¹ Except for personal use or when open source (Article 2), unless corresponding to a use case falling under Article 5

² Exceptions: crowd control; law enforcement upon prior judicial authorization for the targeted search of persons convicted or suspected criminal activity, or to detect suspicious customers (at a bank, at a supermarket) to identify early-warning indicators of an impending robbery – provided employees are not tracked and sufficient safeguards are in place

³ E.g., socio-economic status, gender, ethnicity, citizenship status, philosophical beliefs, religion, political orientation, sexual orientation

⁴ Notable exceptions: client contact in a commercial context (Marketing); tone recognition as an aid to a clerk, such as a call center agent, to cope with certain angry customers; to personalize services such as online language courses or care robots; in education provided evaluation/certification of the subject is unaffected; at the workplace where strictly necessary for medical or health safety reasons

⁵ Vulnerable individuals = particularly children, elderly, under-educated

High Risk = Conformity

Specific cases are considered to pose threats to safety or fundamental rights, depending on their implementation

1. Products listed under EU safety legislation¹

2. Annex III - Corresponding to eight specific areas:

- 1. Management and operation of critical infrastructure
- 2. Employment, worker management, access to self-employment
- 3. Access to essential private & public services/benefits²
- 4. Law enforcement³
- 5. Migration, asylum and border control management

- 6. Education and vocational training
- 7. Administration of justice⁴ and democratic process
- 8. Biometric identification/categorization⁵

Exception: Al models supporting only procedural or narrowly defined tasks of otherwise high-risk use cases are not considered high-risk

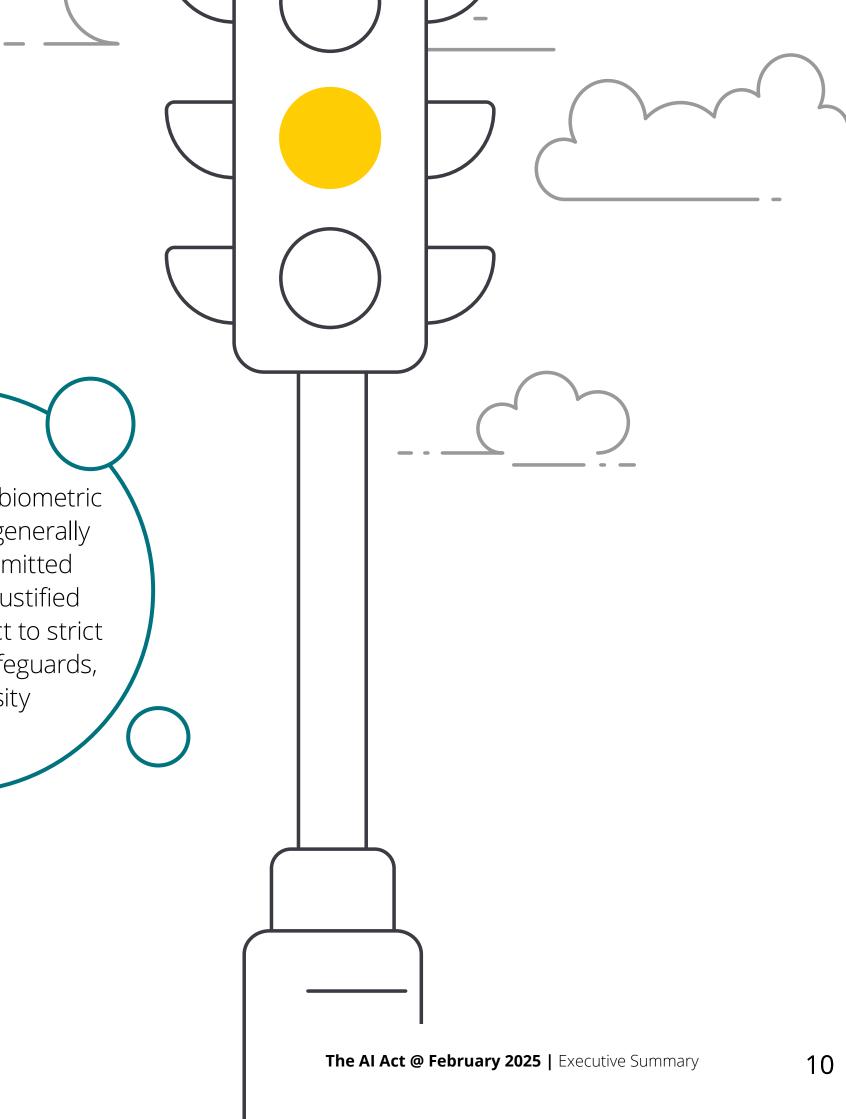
Implementation timeframe

02.08.2026 – in general

02.08.2027 – for systems on the EU Product Safety list (Annex I)

31.12.2030 – for integration of AI into specific (complex) EU-wide systems in operation prior to 02.08.2027 (Annex X)

Real-timeremote biometric identification is generally prohibited, permitted only in limited, justified exceptions subject to strict authorization, safeguards, and necessity



¹ E.g., machinery, toys, aviation, cars, medical devices and lifts.

² Such as insurance, credit, housing, utilities, health care, internet access, ... Exception: detecting fraud in application to such services not considered high-risk

³ Except for administrative proceedings to detect, prevent, prosecute criminal activity

⁴ Al may support, but not replace human decision-making for interpretation of law. Exception to Al used for administrative support processes without directly affecting the outcome of justice.

⁵ Targeted search of victims, prevention of specific & present terrorism threat, localization or identification of a person convicted or suspected of specific, serious crimes

10

Transparency Risk, No Risk/Other Risk

Al systems which do not negatively impact natural persons, differentiated directly interacting with them or not

Transparency Risk – transparency obligations if affecting EU citizens

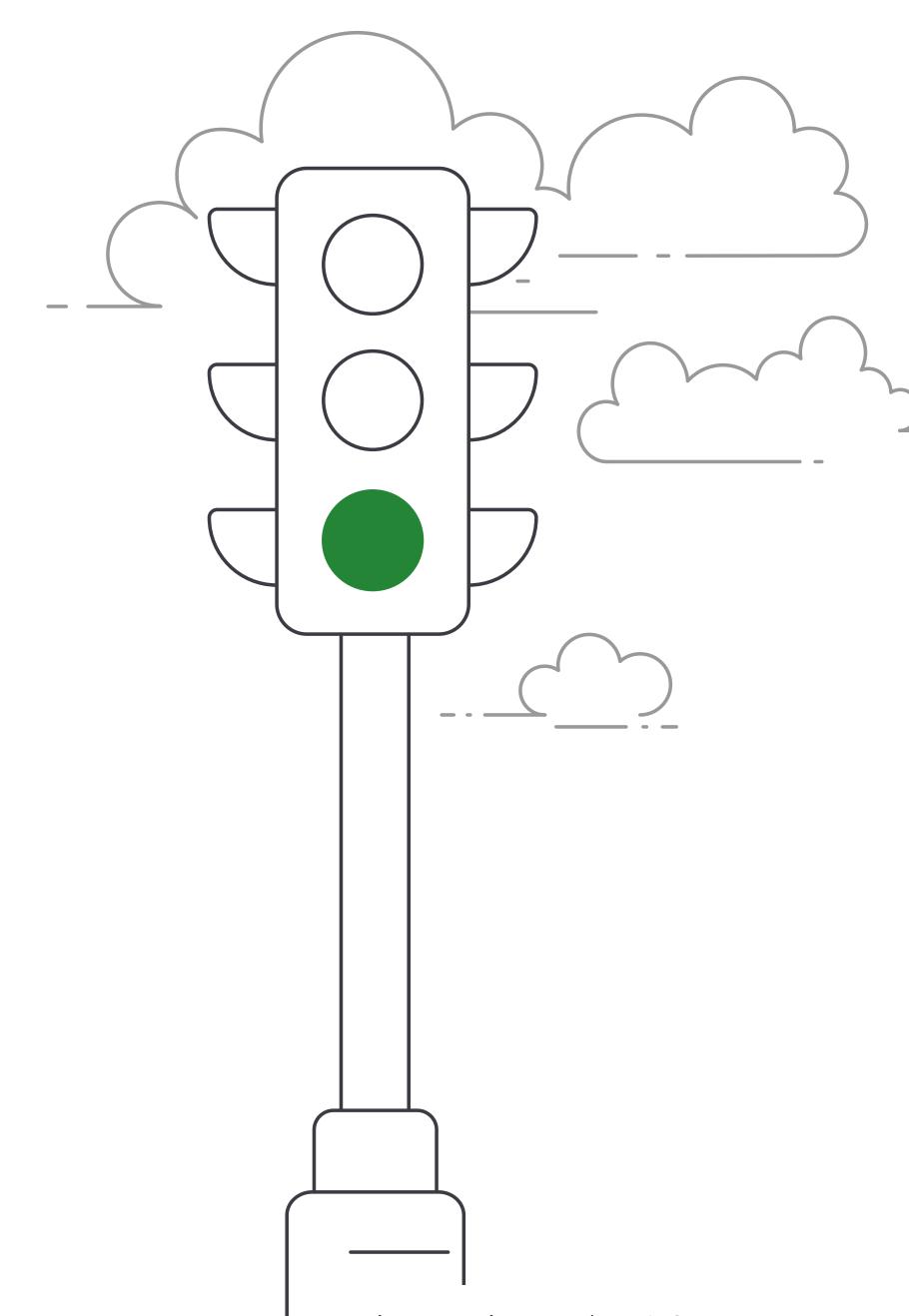
Subject to transparency obligations, namely informing the user of interaction with an AI. Examples include...

- chatbots
- deep fakes (manipulation of image, audio, video)

No or other Risk – only voluntary standards if internal models or limited to procedural tasks

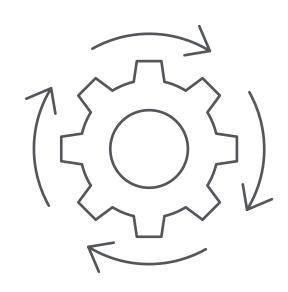
Only subject to voluntary quality standards. Examples include...

- internal rating models
- recommender systems helping internal staff



1 Obligations

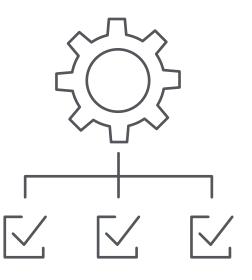
Providers¹ of high-risk AI must demonstrate conformity prior to market placement, maintain throughout the lifecycle



1. Quality Management System

- Technical specifications & standards
- Quality² design & development
- Validation and testing
- Data management & engineering
- Post-deployment monitoring & logging
- Documentation³ & record keeping⁴
- Human oversight, roles & responsibilities
- Compliance strategy
- Establishing a risk management system





2. Risk Management System

- Anticipatory risk identification
- Risk evaluation, impact assessment
- Risk management measures to a level of acceptable residual risk
- Technically feasible risk elimination
- Technical level mitigation & control
- Continuous review, iterative process
- Suitable use via training & instructions
- Testing & documentation of the RMS

¹ Developers or those commissioning development by IT experts on their behalf

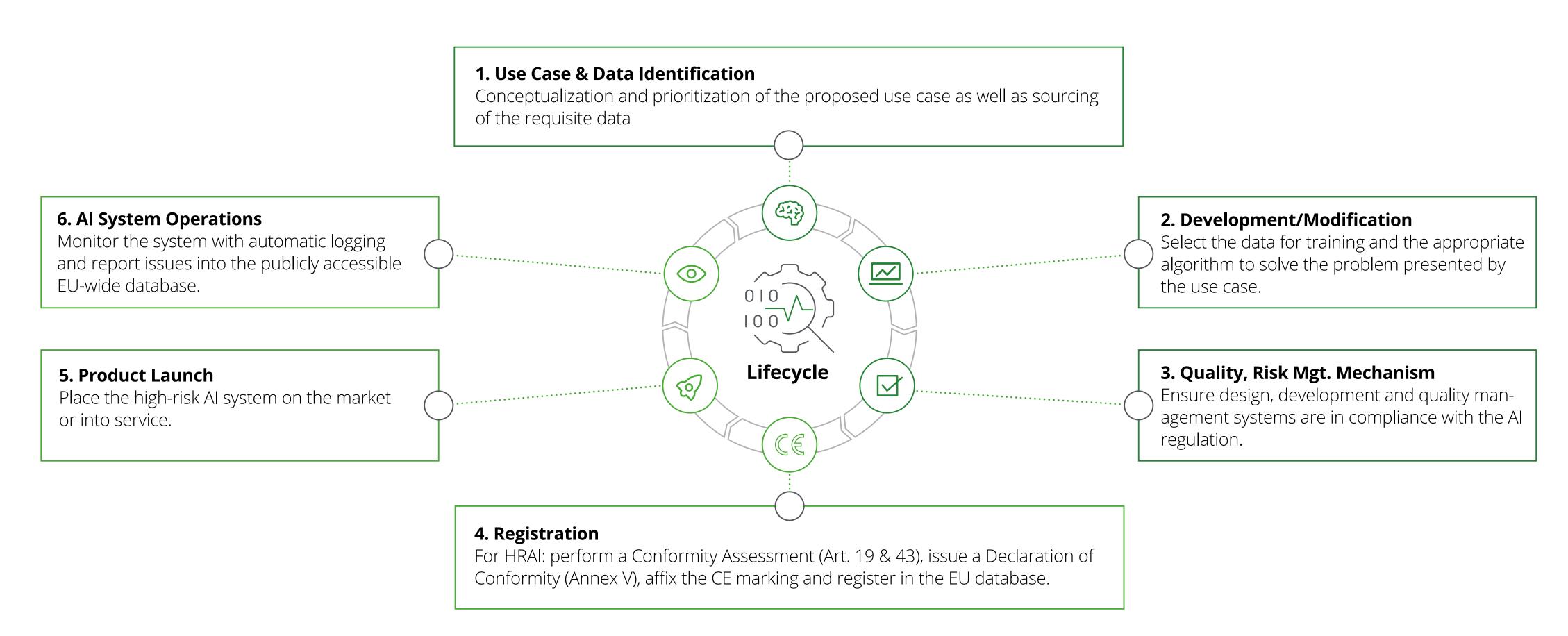
² Defined by principles of Trustworthy AI: data quality, transparency, robustness, accuracy, cyber security

³ Technical specifications, Declaration of Conformity, Fundamental Rights Impact Assessment, CE-Marking ...

⁴ Registration in the EU database, reporting of issues, ...

Lifecycle

Conformity to the quality, governance, and documentation standards of the Al Act is a continuous process to be maintained throughout the product lifecycle



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