

## The AI Act @ June 2024

Europe's Comprehensive AI Regulation

14.06.2024 | David Thogmartin | Risk Advisory Germany

## Executive Summary

The AI Act will enter into force 20 days after entry into Official Journal, expected to be mid-June 2024

### 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

AI deployed in the European Union. Extra territorial reach if AI system affects individuals within the EU.

### Approach

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

### General Purpose AI models (GPAI)

Given their wide-ranging application are risk-classified using alternate criteria and generally subject to enhanced transparency obligations.

### Compliance

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

### Timing

The European Parliament and the Council have approved the final text. Upon translation it will enter in the Official Journal and enter into force 20 days after its publication. The AI Act enters into force

20 days after translation into all official EU languages, targeting mid-June 2024.

### Enforcement

EU-wide authorities will coordinate across member states and follow larger topics, such as GPAI<sup>1</sup> and their underlying models (foundation models). National supervisors 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€ / 1,5% (reporting errors), as well as potential non-monetary penalties, such as forced removal of the AI system from the market.

<sup>1</sup> GPAI = General Purpose AI

## Definition of AI

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

### Various positions prior to the Trilogue

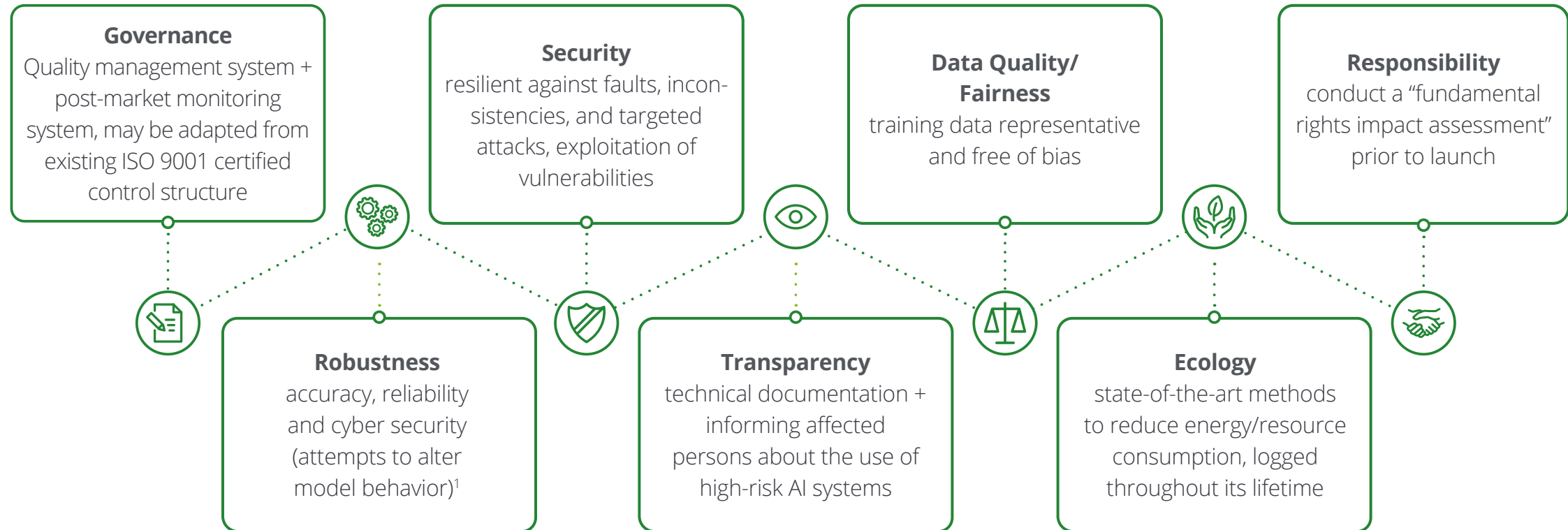


### The negotiated definition will align with the OECD

**“An AI system is a machine-based system 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. Different AI systems vary in their levels of autonomy and adaptiveness after deployment.”**

## Trustworthy AI at the Core

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

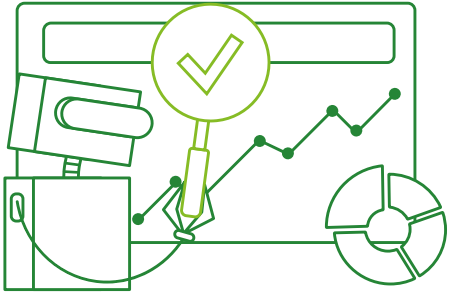


Beyond principles, European standards setters (e.g., CEN/CENELEC) will more concretely define how each of these principles translate into technical standards, against which AI systems must demonstrate compliance by law.

<sup>1</sup>... Data poisoning, model poisoning, adversarial examples, model evasion, confidentiality attacks

## Application Scope

Any AI systems affecting European citizens...  
not necessarily hosted or operated in Europe



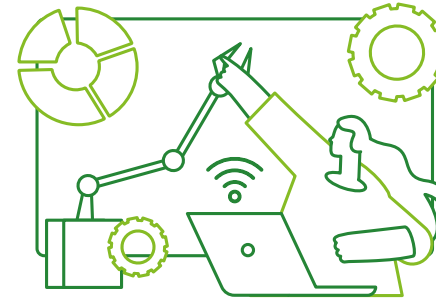
### AI Systems...

- AI 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)



### Providers...

- Developers
- Importers
- Resellers
- Deployers



### Exceptions...

Commercial R&D prior to market placement

- Public authorities outside the EU
- R&D prior to market placement
- Academic research or personal use
- Open-source licensed<sup>1</sup>

Products already on the market prior to the AI Act, unless:

- they undergo “significant change” afterward
- constitute a GPAI

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

<sup>1</sup> Unless they are (a) used in a high-risk AI system, (b) foundation models

## Enforcement

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

### EU-wide

European AI Office

- 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 AI

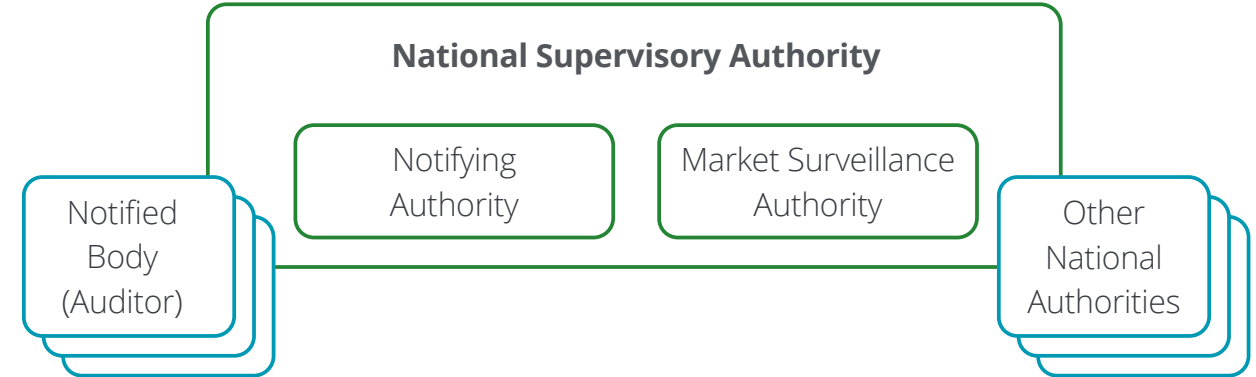
Advisory Forum

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

Scientific Panel

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

### The National Supervisor

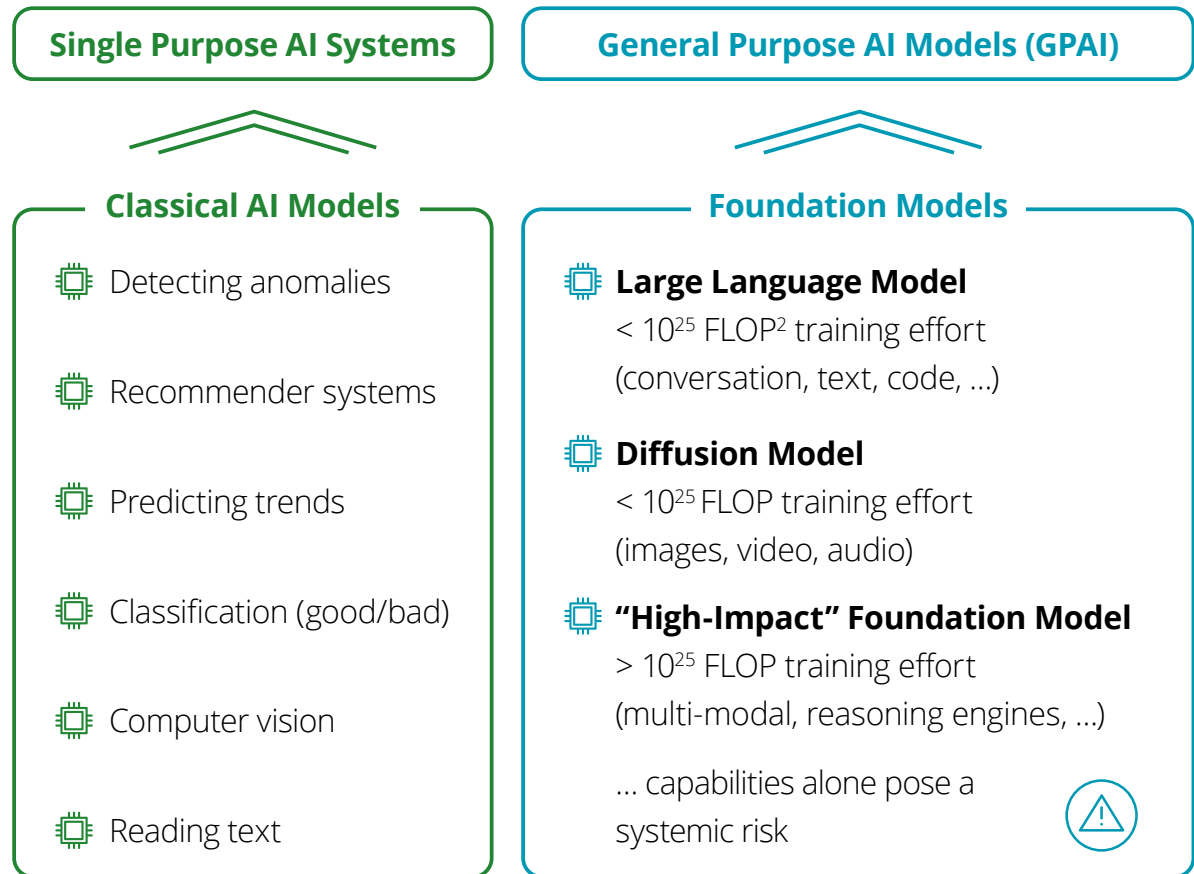


- National supervisor – enforcing compliance
- Other competent authorities – i.e., to supervise other, sector-specific regulatory requirements

- Notifying authority – ensuring conformity assessments conducted properly & timely
- Notified bodies – accredited to conduct conformity assessments

## General Purpose AI (GPAI) – Foundation Models

Contrary to SPAI<sup>1</sup>, the risk of GPAI is measured by the power of the foundation model



### Providers responsible

Developers of 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, training data respecting copyrights, watermarking of AI generated content

### Systemic Risk GPAI

Subject to more stringent obligations similar to high-risk AI systems:

- 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
- adherence to codes of practice until harmonized EU standards published

<sup>1</sup> SPAI = Single Purpose AI

<sup>2</sup> FLOP = Floating Point Operation

## Single Purpose AI (SPAI) – Risk Classification

A differentiated approach depending on the perceived risk to EU citizens



<sup>a)</sup> Except for fatigue or pain

<sup>b)</sup> up to 36 months if the use case appears on the EU Product Safety List

<sup>c)</sup> NCA = National Competent Authority, NB = Notified Body

Products that are already on the market prior to the AI Act will be technically excluded from the scope, unless:

a) they undergo “significant change” afterward b) or is a GPAI

Furthermore, GPAI that are already on the market prior to the AI Act are subject to an extended implementation period of 36 months



## Unacceptable Risk = Prohibited

Specific cases are considered to violate fundamental human rights and are thus forbidden applications of AI

### Mass surveillance

Untargeted scraping of facial images from internet or CCTV for databases (privacy); ex-post remote biometric identification<sup>1</sup>

### Biometric categorization

Profiling using sensitive characteristics (demographics)<sup>2</sup>

### Emotion recognition

At the workplace or in schools

### Social scoring

Based on behavior or personal characteristics

### Behavioral manipulation

To circumvent free will of individuals – particularly from vulnerable groups<sup>3</sup>

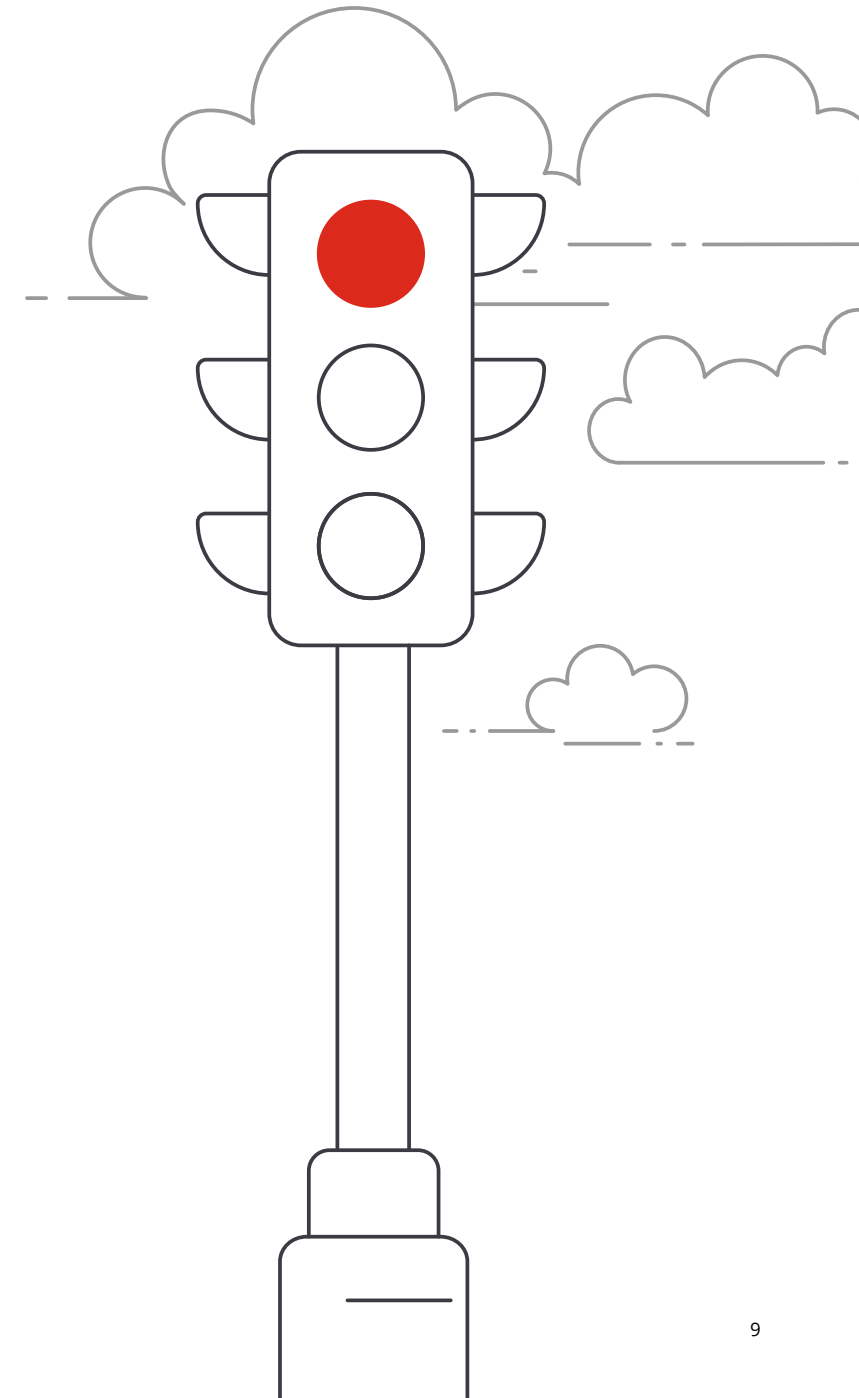
### Implementation timeframe

6 months upon entry into force

<sup>1</sup> Only exception: law enforcement upon prior judicial authorization for the targeted search of persons convicted or suspected criminal activity

<sup>2</sup> E.g., socio-economic status, gender, ethnicity, citizenship status, philosophical beliefs, religion, political orientation, sexual orientation

<sup>3</sup> 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 legislation<sup>1</sup>

### 2. Annex III

Corresponding to eight specific areas:

- |  |  |   |
|--|--|---|
| 1. Management and operation of critical infrastructure | 3. Access to essential private & public services/benefits <sup>2</sup> | 6. Administration of justice <sup>4</sup>                       |
| 2. Employment, worker management, recruitment          | 4. Law enforcement <sup>3</sup>  | 7. Influencing the outcome of elections, the democratic process |
|  | 5. Migration, asylum and border control management                     |   |

### 3. Real-time remote biometric identification (RBI) under strict conditions and for a limited time and location<sup>5</sup>

Exception: AI models supporting only procedural tasks of otherwise high-risk use cases.

### Implementation timeframe

24–36 months upon entry into force, depending on whether on the EU Product Safety list

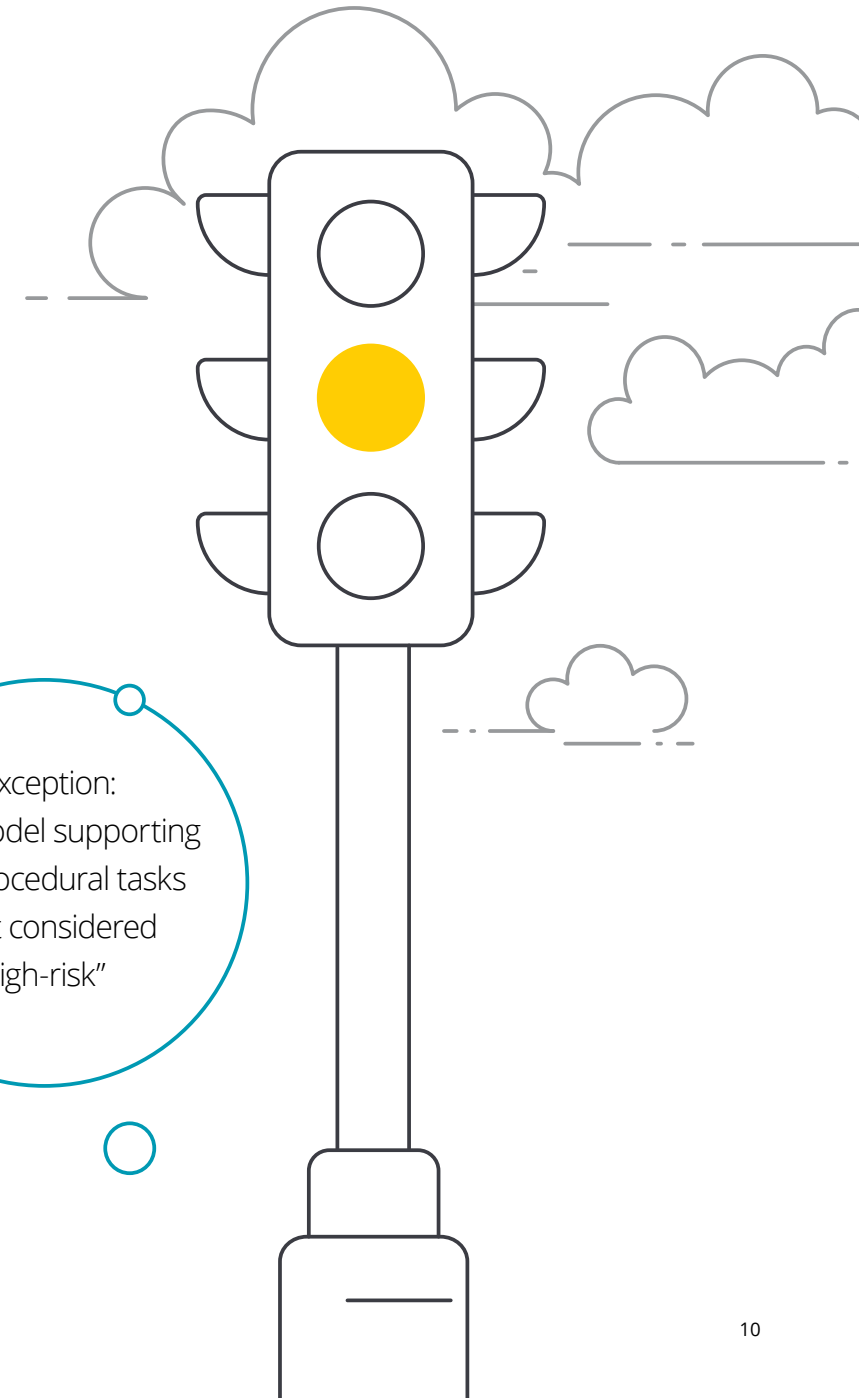
<sup>1</sup> E.g., machinery, toys, aviation, cars, medical devices and lifts.

<sup>2</sup> Such as insurance, credit, housing, utilities, health care, internet access, ... Notable exception: detecting fraud for application to any such service shall not be considered high-risk

<sup>3</sup> Except for administrative proceedings to detect, prevent, prosecute criminal activity

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

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



## Transparency Risk, No or other Risk

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

### Transparency Risk – transparency obligations if affecting EU citizens

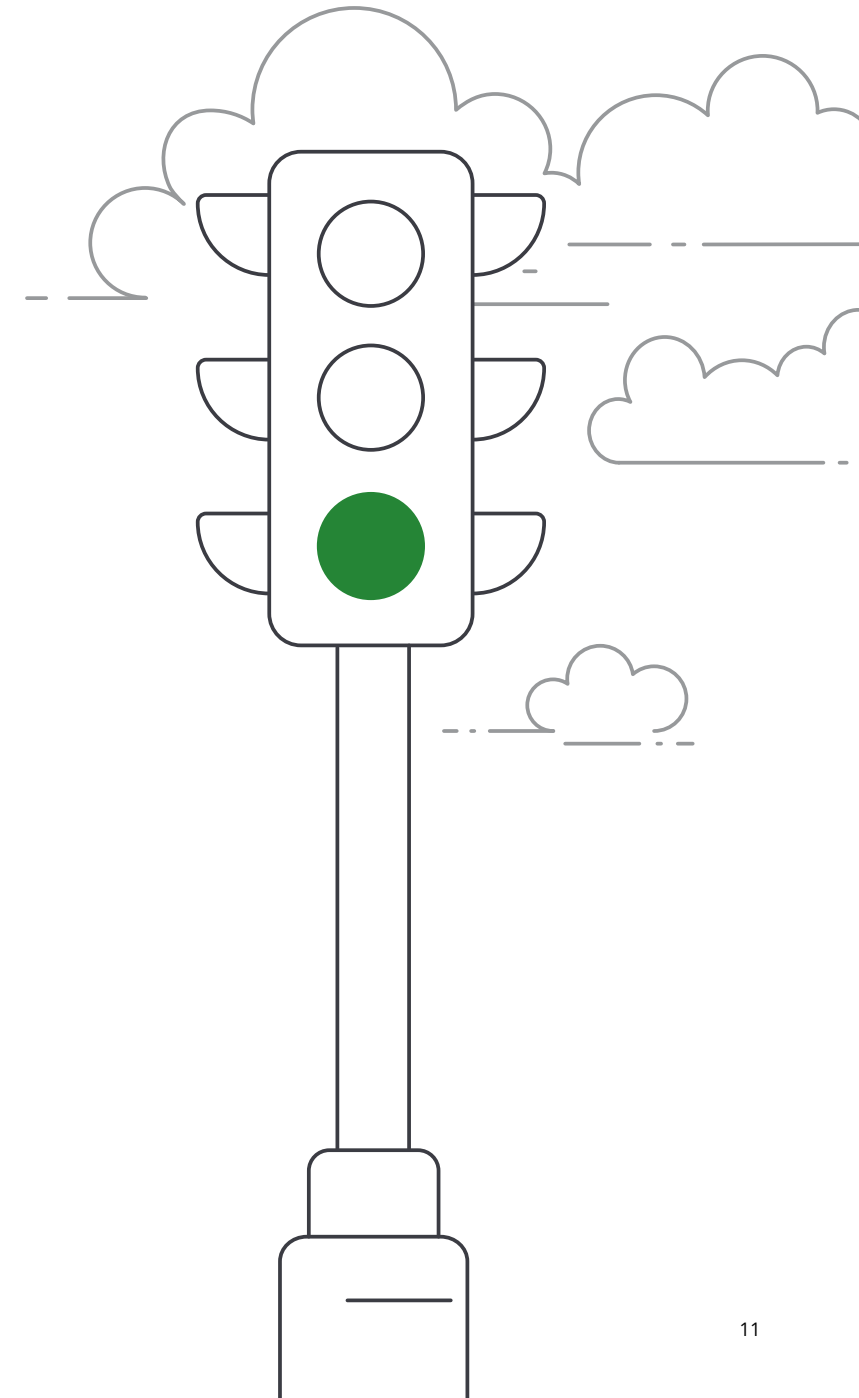
Subject to transparency obligations, namely informing the user of interaction with an AI. Examples include...

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

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

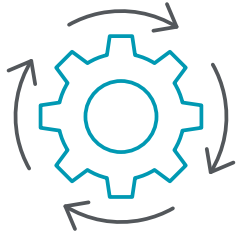
Only subject to voluntary quality standards. Examples include...

- internal rating models
- recommender systems helping internal staff



## Obligations

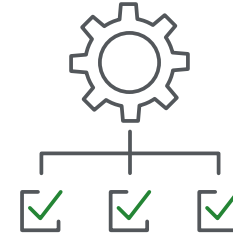
Providers<sup>1</sup> of high-risk AI must demonstrate conformity prior to market placement, maintain throughout the lifecycle



### 1. Quality Management System

#### AI Governance

- Data quality and governance
- Transparency
- Robustness, accuracy, cyber security
- Risk management system
- Technical documentation
- Record keeping
- Human oversight



### 2. Demonstrated Model Conformity

#### AI Model Validation

- Issuing the Declaration of Conformity to principles and adopted technical standards of Trustworthy AI
- Registering in the EU database
- Affixing the CE marking
- Performing the Fundamental Rights Impact Assessment

<sup>1</sup> Developers or those commissioning development by IT experts on their behalf

## The Quality Management System

The cornerstone of quality and risk management of the AI model throughout its lifecycle



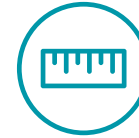
Design techniques,  
control and verification



Development techniques,  
quality assurance



Examination, test and  
validation procedures



Technical specifications  
and applicable standards



Systems and procedures  
for data management (Article 10)<sup>1</sup>



Risk detection, prevention,  
mitigation – Risk Management  
System (Article 9)



Post-market monitoring –  
logging of serious incidents  
and malfunction



Communication with  
authorities (incl. sectoral)



Record keeping,  
documentation

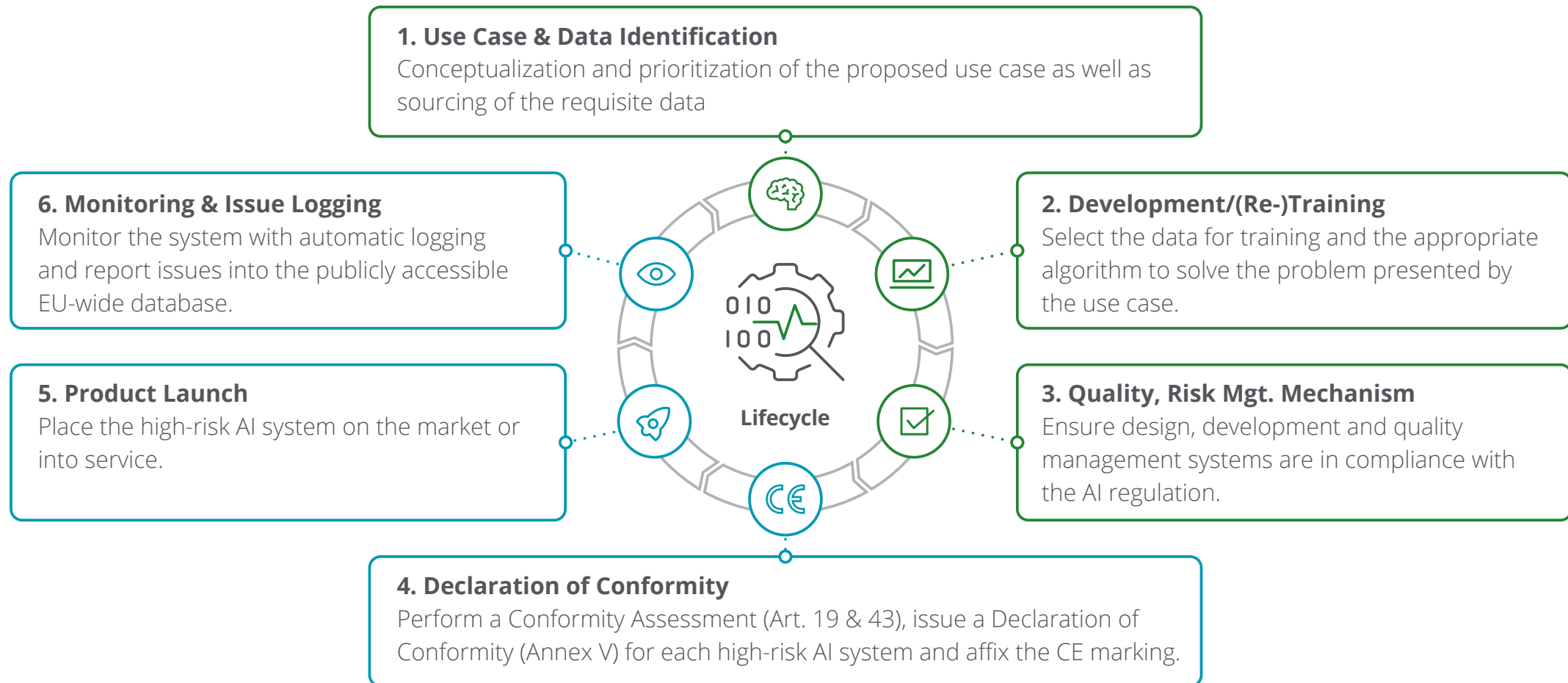


Resource management and  
accountability framework

<sup>1</sup> Incl. data acquisition, collection, analysis, labeling, storage, filtration, mining, aggregation, retention

## Lifecycle

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



## Contact



### **David Thogmartin**

Partner  
Risk Advisory  
Tel: +49 211 8772 2336  
dthogmartin@deloitte.de



### **Torsten Berge**

Senior Manager  
Business Assurance  
Tel: +49 151 58072499  
tberge@deloitte.de



### **Dr. Till Contzen**

Partner  
Digital Law  
Tel: +49 69 71918 8439  
tcontzen@deloitte.de



### **Atrak Yadegari**

Director  
Strategy, Brand & Reputation  
Tel: +49 221 97324 521  
ayadegari@deloitte.com

# Deloitte.

Deloitte refers to one or more of Deloitte Touche Tohmatsu Limited (DTTL), its global network of member firms, and their related entities (collectively, the “Deloitte organization”). DTTL (also referred to as “Deloitte Global”) and each of its member firms and related entities are legally separate and independent entities, which cannot obligate or bind each other in respect of third parties. DTTL and each DTTL member firm and related entity is liable only for its own acts and omissions, and not those of each other. DTTL does not provide services to clients. Please see [www.deloitte.com/de/UeberUns](http://www.deloitte.com/de/UeberUns) to learn more.

Deloitte provides industry-leading audit and assurance, tax and legal, consulting, financial advisory, and risk advisory services to nearly 90% of the Fortune Global 500® and thousands of private companies. Legal advisory services in Germany are provided by Deloitte Legal. Our people deliver measurable and lasting results that help reinforce public trust in capital markets, enable clients to transform and thrive, and lead the way toward a stronger economy, a more equitable society and a sustainable world. Building on its 175-plus year history, Deloitte spans more than 150 countries and territories. Learn how Deloitte’s approximately 457,000 people worldwide make an impact that matters at [www.deloitte.com/de](http://www.deloitte.com/de).

This communication contains general information only, and none of Deloitte GmbH Wirtschaftsprüfungsgesellschaft or Deloitte Touche Tohmatsu Limited (DTTL), its global network of member firms or their related entities (collectively, the “Deloitte organization”) is, by means of this communication, rendering professional advice or services. Before making any decision or taking any action that may affect your finances or your business, you should consult a qualified professional adviser.

No representations, warranties or undertakings (express or implied) are given as to the accuracy or completeness of the information in this communication, and none of DTTL, its member firms, related entities, employees or agents shall be liable or responsible for any loss or damage whatsoever arising directly or indirectly in connection with any person relying on this communication. DTTL and each of its member firms, and their related entities, are legally separate and independent entities.