

# Responsible AI

PvIB – Utrecht

—

13 februari 2024

# Agenda

- 01 Introduction**
- 02 EU Digital Single Market**
- 03 AI Act**
- 04 Wrap-up**

# With you today



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# EU (Digital) Single Market

# History of the EU Single Market

## 1957 | Treaty of Rome

Creation of European Economic Community (EEC)

## 1986 | Single European Act

EU Single Market included in Treaty of Rome

## 1993 | Establishment EU Single Market

Establishment of EU single market

## 2011 | Single Market Act I

Broad package of proposals to **strengthen Single Market**

## 1997 | Amsterdam Treaty

Introduction of the **Schengen area**, eliminating border controls and increasing police and judicial cooperation between member states

## 2012 | Single Market Act II

Follow-up to Single Market Act I, consisting of a set of **12 key actions**

## 2015 | Digital Single Market

Initiative to **strengthen** the European **digital economy**

## 2023 | 30<sup>th</sup> anniversary EU Single Market

Celebration of 30<sup>th</sup> anniversary of EU Single Market

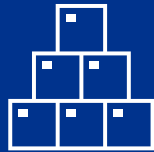


## 1993 | Establishment EU Single Market

Establishment of EU single market



# European Single Market | the four freedoms



**Free movement  
of goods**



**Free movement  
of persons**



**Free movement  
of services**



**Free movement of  
capital**

# History of the EU Single Market

## 1958 | Treaty of Rome

Start of customs union, **free movement** of citizens and workers and introduction of value-added tax

## 1968 | Single European Act

EU Single Market included in Treaty of Rome

## 1993 | Establishment EU Single Market

Establishment of EU single market

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# Introduction of the EU Digital Single Market

## 2015 | Digital Single Market

Initiative to **strengthen** the European digital economy



# Establishment EU Digital Single Market

## 2017 | EU Portability Regulation

Rules on **cross-border portability** of online content services

## 2018 | Geo-blocking Regulation

Regulation to ban **unjustified geo-blocking** in the internal market

## 2018 | Open Data Directive

Rules for increasing the availability of publicly funded data

## 2018 | Audiovisual Media Services Directive

Level playing field between **traditional television** and **new services** such as on-demand broadcasting

## 2019 | Copyrights Directive

Modernization of existing EU copyright law

## 2020 | A Europe Fit for the Digital Age

Strategies for **data** and **Artificial Intelligence**

# Introduction of EU's Digital Strategy: A Europe Fit for the Digital Age

2020 | A Europe Fit for the Digital Age

Strategies for data and Artificial Intelligence



# Three pillars of EU's Digital Strategy: A Europe Fit for the Digital Age



Key actions
A Digital Education Action Plan
European AI Strategy
A European Cybersecurity Strategy

Key actions
European Data Strategy
Industrial Strategy Package
New Consumer Agenda

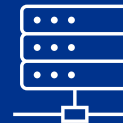
Key actions
Circular Electronics Initiative
European Democracy Action Plan
Rules for Digital Services



# Key EU Strategic Initiatives related to AI, Cybersecurity and Data



European AI Strategy



European Data Strategy



A European Cybersecurity Strategy

# European Data Strategy

1

## Data Governance Act

Framework for data sharing of (protected) public sector data, Data intermediation, and Data altruism

2

## Data Act

Access and use of data generated by smart products, and government access to private data



# A European Cybersecurity Strategy



## NIS2

Cybersecurity requirements for essential entities



## Cyber Resilience Act

Cybersecurity requirements for hardware and software products with digital elements



## Cyber Solidarity Act

Cross-border Security Operations Centres, and 'coordinated preparedness testing

# European AI Strategy: A European approach to trust in AI



## AI Act

Risk Based approach to ensure safe, transparent, ethical, unbiased and human controlled use of AI systems



## AI Liability Directive

Non-contractual civil liability rules for damages caused by AI



## General Product Liability Directive (revision)

Rules on liability for software and AI

# European AI Strategy: A European approach to trust in AI

Ex ante



## AI Act

Risk Based approach to ensure safe, transparent, ethical, unbiased and human controlled use of AI systems

Ex post



## AI Liability Directive

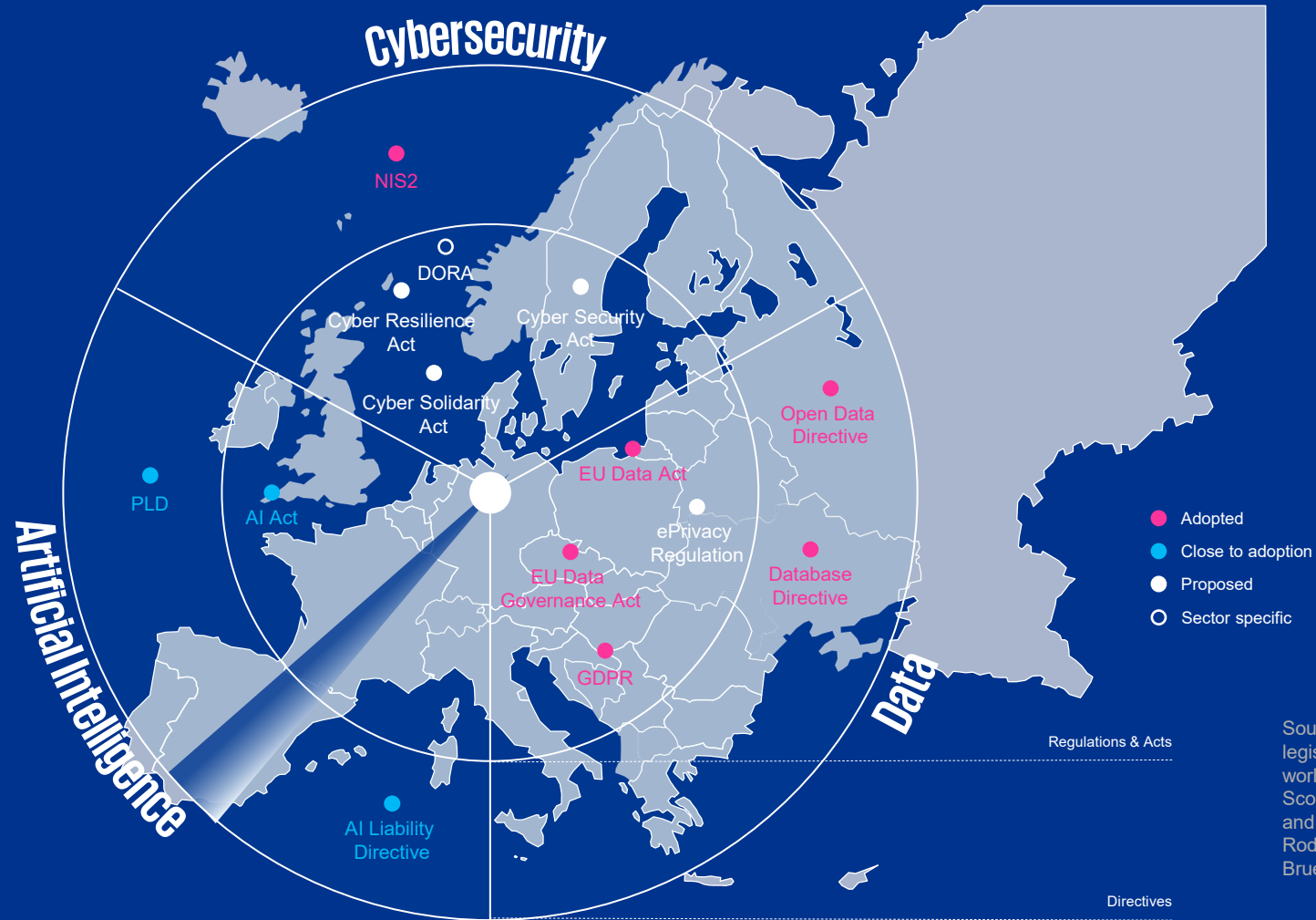
Non-contractual civil liability rules for damages caused by AI



## General Product Liability Directive (revision)

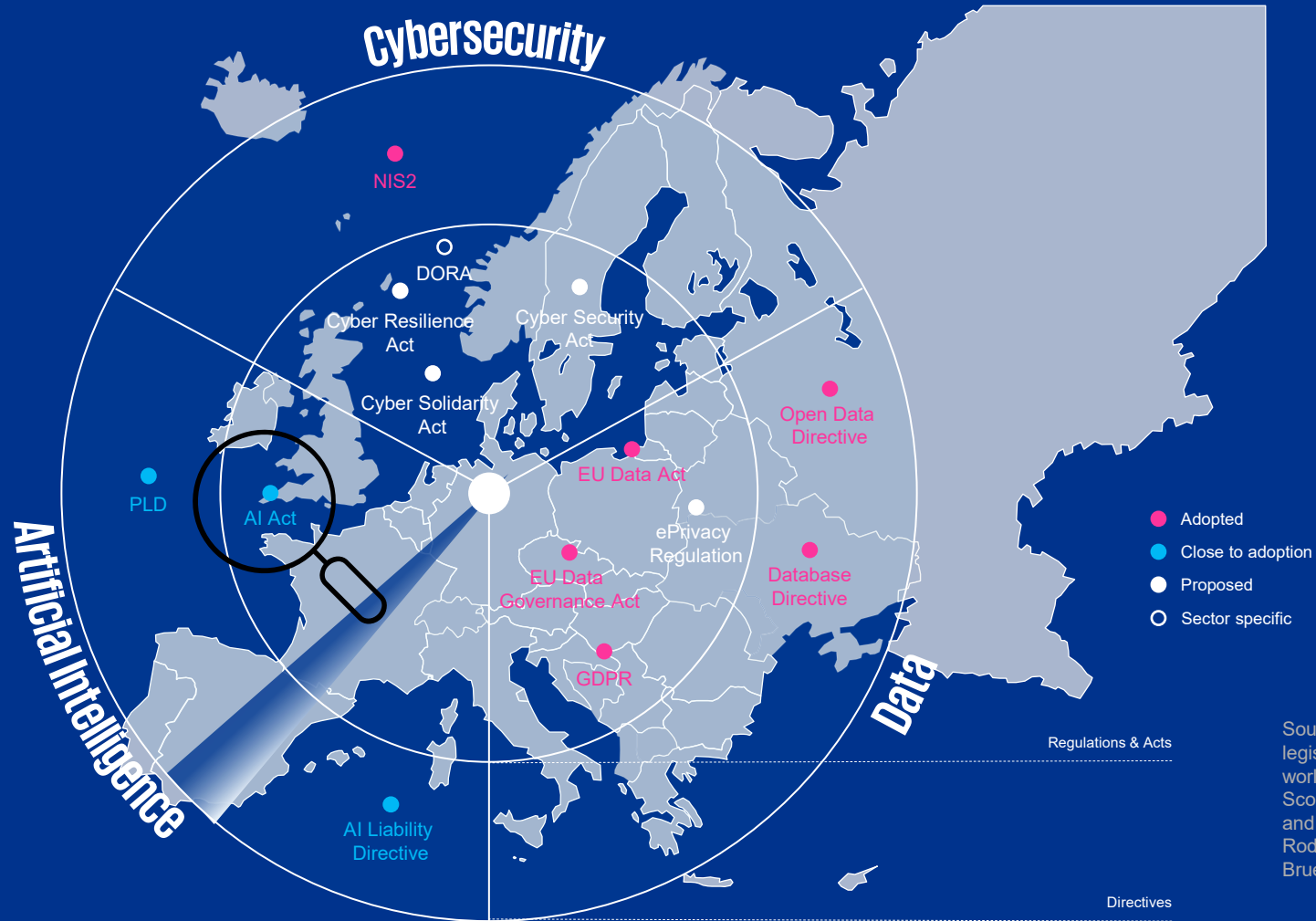
Rules on liability for software and AI

# Legislative Initiatives from Key EU Strategic Initiatives

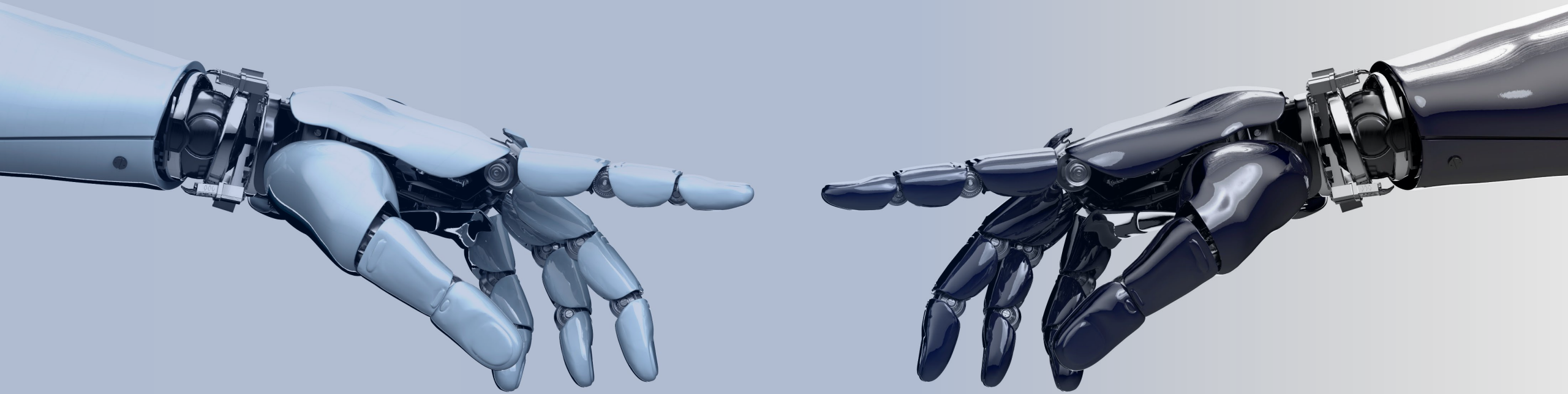


Source: 'A dataset on EU legislation for the digital world', Kai Zenner, J. Scott Marcus, Kamil Sekut and Hèctor Badenes Rodríguez published by Bruegel.

# Legislative Initiatives from Key EU Strategic Initiatives



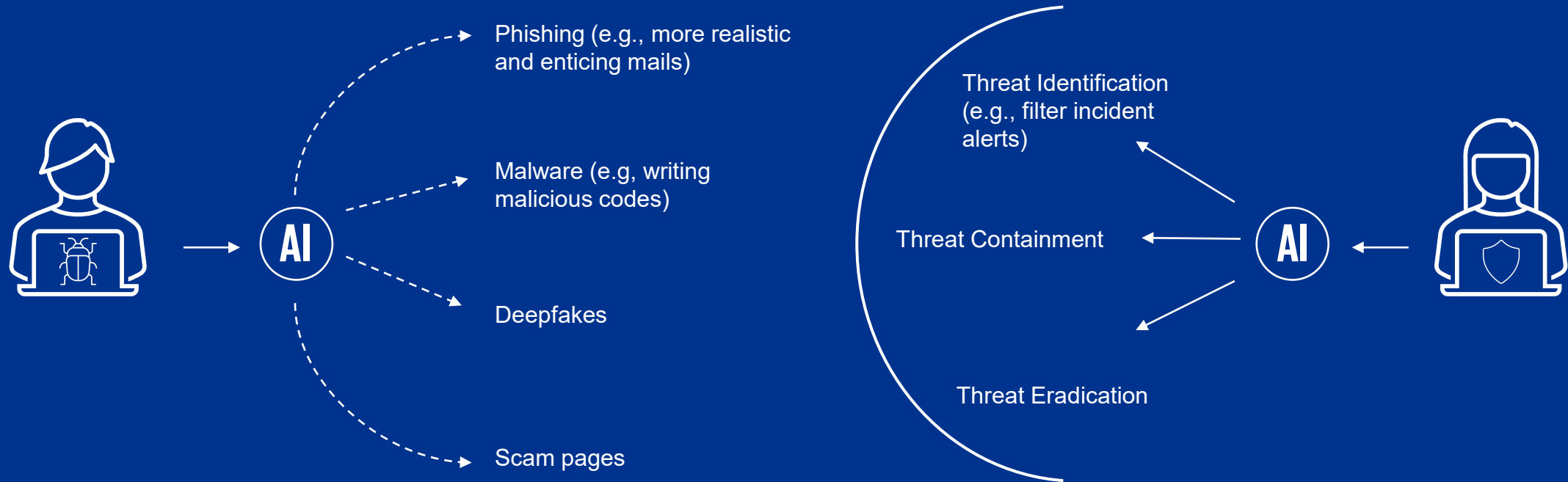
Source: 'A dataset on EU legislation for the digital world', Kai Zenner, J. Scott Marcus, Kamil Sekut and Hèctor Badenes Rodríguez published by Bruegel.



# Artificial intelligence & AI Act



# AI strengthens both Defenses and Threats of Cybersecurity



# AI is at the top of the global political agenda

## White House drops an AI regulation bombshell: 10 new mandates that'll shake up the industry

Open AI, Google, Microsoft, and other prominent AI players must answer to the new AI legislation.

By [Cecily Mauran](#) and [Kimberly Gedeon](#) on October 30, 2023



Source: Mashable.com

## E.U. Agrees on Landmark Artificial Intelligence Rules

The agreement over the A.I. Act solidifies one of the world's first comprehensive attempts to limit the use of artificial intelligence.



Source: the New York Times

Technology

## United Nations creates advisory body to address AI governance

By [Supantha Mukherjee](#)

October 27, 2023 6:53 AM GMT+2 · Updated 4 days ago



Source: Reuters.com

Press release | 30 October 2023 | Brussels

## Commission welcomes G7 leaders' agreement on Guiding Principles and a Code of Conduct on Artificial Intelligence

Source: European Commission

May 8, 2023 - Technology

## China races ahead of U.S. on AI regulation



Source: Axios

TECH

## Biden issues U.S.' first AI executive order, requiring safety assessments, civil rights guidance, research on labor market impact

PUBLISHED MON, OCT 30 2023-5:17 AM EDT | UPDATED MON, OCT 30 2023-4:49 PM EDT



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Source: CNBC

Nieuws • Artificial Intelligence + • Europa + • Juridisch + • Overheid +  
18 oktober 2023 ⌚ leestijd 3 minuten 🗨️ 0 reacties

## Tweede Kamer eist snelle formatie adviesraad AI voor de overheid

Source: Agconnect.com



# The AI Act is expected to enter into force mid-2024

2019



Announcement of 'A Europe fit for the digital age'

Start-2024

Approval final draft text AI Act



Start-2025

First obligations expected to apply



2021

European Commission proposes AI Act



Mid-2024

Expected adoption AI Act

# The AI Act in a nutshell

## Stimulate the good

- Stimulate innovation through **regulatory sandboxes**
- Stimulate **harmonization** of standards, codes of conduct and certification
- Offer greater **transparency** regarding AI systems
- Create **level playing field** for actors involved
- **Safeguard fundamental rights** and provide legal certainty for EU citizens

## Fix the bad

- Impose **stricter requirements** for high-risk AI systems (obligatory risk management, data governance, technical documentation, etc.)
- Carry out **conformity assessments** and post-market monitoring for high-risk AI systems
- **Avoid fundamental rights violations**
- Establish **effective oversight** and enforcement mechanisms

## Control the ugly

- **Prohibit unacceptable-risk** AI systems
- **Prevent use of subliminal techniques** that distort a person's behavior in such a way that it causes harm to that person or another person
- **Prohibit exploitation of vulnerabilities** of a specific group of persons, e.g. exploiting age or disability.

The AI Act will apply to all AI systems built or deployed in EU markets.

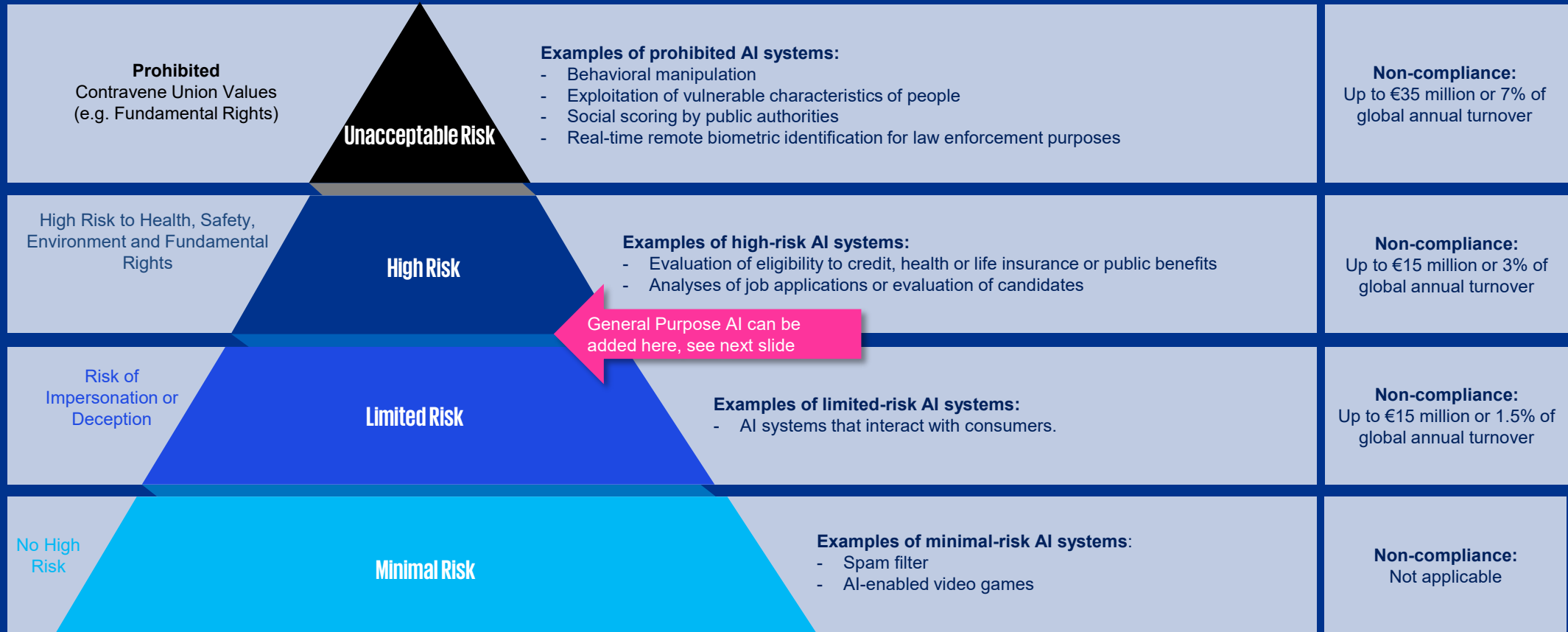
# What is an AI system under the AI Act?



A machine-based system 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'



# The AI Act follows a risk-based approach



General Purpose AI can be added here, see next slide

**Notable exceptions:**



# The latest version of the AI Act adds another category: General Purpose AI-system



**'general purpose AI model'** means an AI model, including when trained with a large amount of data using self-supervision at scale, that **displays significant generality** and **is capable to competently perform a wide range of distinct tasks** regardless of the way the model is placed on the market and that **can be integrated into a variety of downstream systems or applications**. This does not cover AI models that are used before release on the market for research, development and prototyping activities.

## General Purpose AI model

Models like GPT, Gemini and Bard qualify as GPAI

This category sees specifically the models used, not the systems.

Providers of GPAI need to be transparent on the training data that was used.

## Systemic Risk GPAI

Some General Purpose AI models are deemed to possess systemic risk when they operate with  $10^{25}$  Floating Point Operations.

Currently only GPT4.0 and maybe Gemini are expected to reach this threshold.

Additional requirements apply with regard to red teaming, cybersecurity, incident reporting and risk mitigation.



# High Risk AI Systems

## (Safety components of) AI systems qualifying as:

In vitro diagnostic medical devices	Two- or three-wheel vehicles
Machinery	Personal protective equipment
Lifts	Radio equipment
Appliances burning gaseous fuels	Toys
Agricultural and forestry vehicles	Recreational craft and personal watercraft
Marine equipment	Civil aviation
Motor vehicles and their trailers	Rail system
Medical devices	Pressure equipment


## AI systems intended to be used for:

Educational and vocational training
Critical infrastructures
Law enforcement
Essential private and public services
Administration of justice and democratic processes
Migration, asylum and border control management
Employment, workers management and access to self-employment
Biometric identification of natural persons




# Obligations in relation to High Risk AI systems

	<i>Provider</i>	<i>Distributor</i>	<i>Importer</i>	<i>Deployer</i>
Risk-management system	✓			
Data Governance and Management	✓			
Technical documentation	✓			
Record keeping	✓			
Transparency and provision of information to users	✓			
Human oversight	✓			✓
Accuracy, robustness and cybersecurity	✓			
Indication contact details	✓		✓	
Quality management system	✓			
Documentation keeping	✓			
Log Keeping	✓			✓
Conformity assessment, EU declaration of conformity and affixion CE Marking	✓			
Verification of conformity assessment, technical documentation, CE Marking		✓	✓	
Corrective actions to achieve conformity		✓		
Provision of relevant information to and cooperation with national competent authority	✓	✓	✓	✓
(Monitor) use in accordance with instructions				✓
Use of Relevant input data				✓
Fundamental rights impact assessment				✓




Develop  
Make significant changes  
Change main purpose  
Place on market under own name

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Use under own authority other than in the course of a personal non-professional activity

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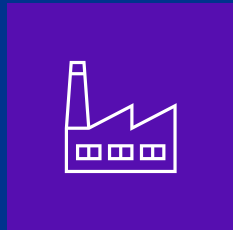
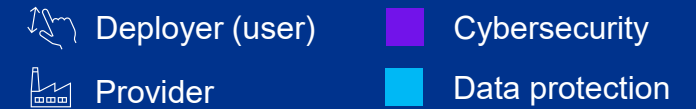
Place on the market from legal person established outside the Union

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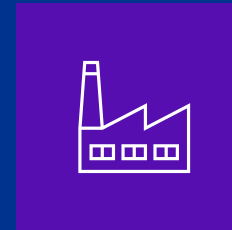
Make available on the Union market

# Cybersecurity and Data Protection Obligations for High Risk AI systems



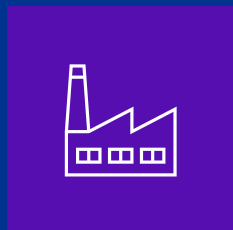
**Design and development with an appropriate level of Cybersecurity**

(Art. 15)



**Data Protection Impact Assessment (DPIA)**

(Art. 29(6))



**Cybersecurity Risk Assessment, and, if needed, implementation of appropriate Cybersecurity measures**

(Art. 9)





















**Technical documentation on Cybersecurity measures taken**

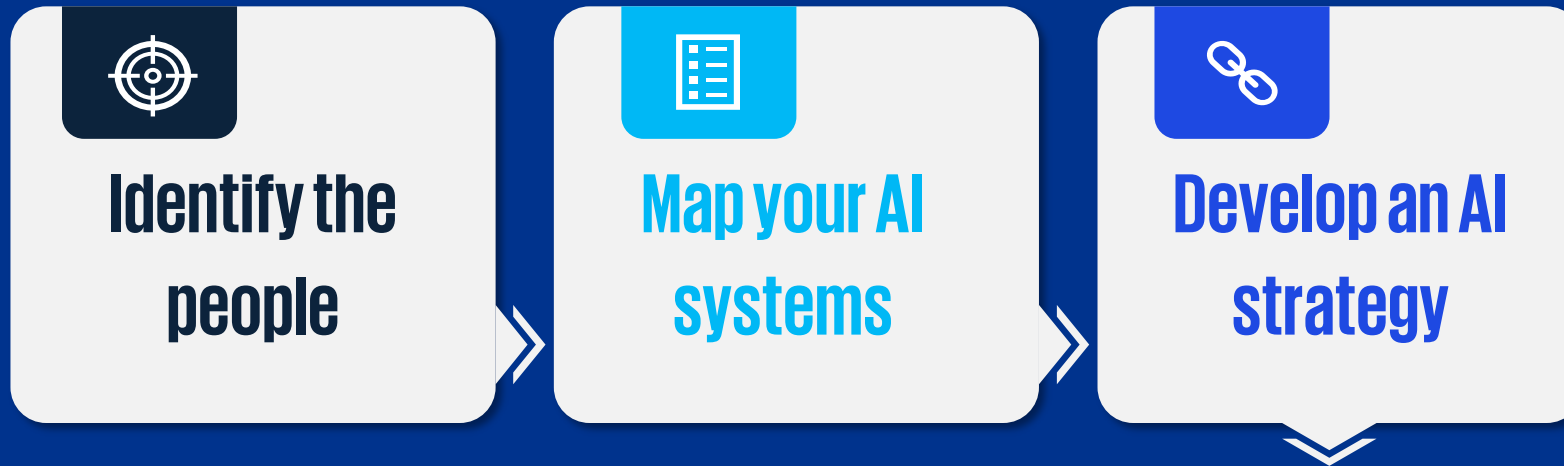
(Annex IV 2(ga))

# Common practices when implementing AI (ethics) Governance

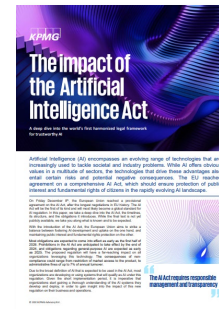
In our experience, there are several aspects that organizations tend to address immediately when they seek to understand and manage the risks associated with AI. While there is a broader spectrum of considerations, we can broadly categorize them into three areas that require particular focus, namely: 1) Policies, 2) Oversight, and 3) Operations.

Policies	<b>1. Definitions</b> <ul style="list-style-type: none"> <li>- To enable effective AI (Ethics) governance and control, a clear definition is needed.</li> <li>- The AI Act sets an appropriate basis.</li> </ul>  	<b>2. (risk) Classification model</b> <ul style="list-style-type: none"> <li>- All organizations work with an AI (risk) classification model, that helps to determine appropriate risk and control measures.</li> <li>- The AI Act sets an appropriate basis.</li> </ul>  	<b>3. AI (/Ethics) Guidelines &amp; Policy</b> <ul style="list-style-type: none"> <li>- Guidelines are the starting point to translate the companies risk appetite on AI (Ethics) into actionable measures.</li> <li>- The extend of the guidelines depends on a principle or rule-based approach.</li> </ul>  
	<b>4. Council</b> <ul style="list-style-type: none"> <li>- All organizations work with a Council to put oversight in place on AI. Typically the members are very senior and represent both business and risk domains.</li> <li>- Council also focussed on value creation.</li> </ul>  	<b>5. Council support role(s)</b> <ul style="list-style-type: none"> <li>- As the council is in place to make executive decisions, it typically is supported by a technical committee.</li> <li>- Trusted advisors are typically supporting the business as primary contact.</li> </ul>  	<b>6. Ex ante and ex post oversight</b> <ul style="list-style-type: none"> <li>- Initial focus is on ex ante oversight, approving AI use cases beforehand.</li> <li>- Council typically also gets involved in ex post reviews and internal control.</li> </ul>  
	<b>7. AI registry</b> <ul style="list-style-type: none"> <li>- All organizations work with an AI registry to ensure that all (impactful) AI are properly identified and monitored.</li> </ul>  	<b>8. (AI) Impact assessment</b> <ul style="list-style-type: none"> <li>- To operationalize AI (Ethics) governance, all organizations work with risks assessments translating guidelines into actionable questions.</li> </ul>  	<b>9. Alignment with way of working</b> <ul style="list-style-type: none"> <li>- Relevant staff are trained to understand the governance process.</li> <li>- Technical tools are reviewed to minimize burden on developers and users.</li> </ul>  

# That might be a bit much for now.. so!:



Other questions?



# Feel free to reach out



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