

AI ACT : HOW IS EU REGULATING AI TO PRESERVE HUMAN RIGHTS

Data Privacy Day 2024

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samuel.renault@list.lu

AGENDA

- 1 AI Act : overview & current state of development
- 2 Links & parallels between AI Act & GDPR
- 3 AI related risks as foreseen by the Act
- 4 Obligations for developers & users

#1 AI ACT

Overview & current state of development

WHAT IS THE AI ACT ?

A bill of law (regulation) under definition

Issued by EU Commission on April 21st 2021 ¹

Discussions at EU council 2021 → 2022

Parliament amendments May 2023 ²

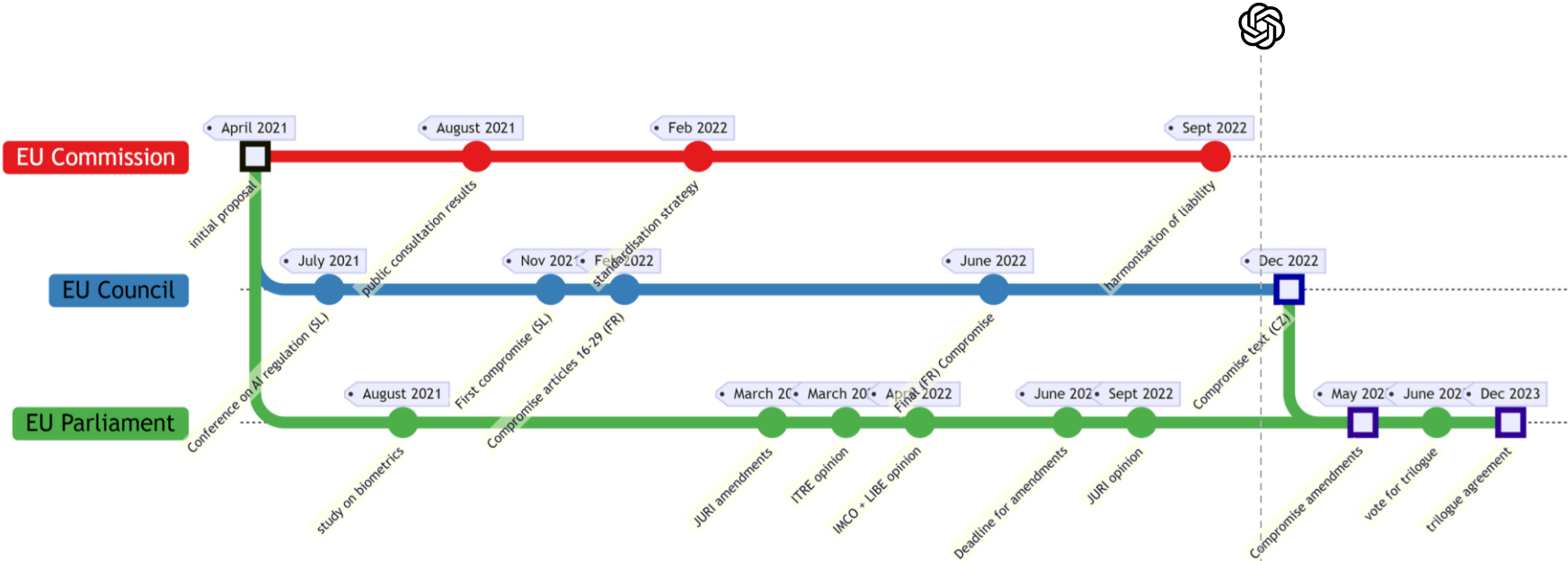
Trilogue : June → Dec 8th 2023

Vote expected in 2024

Entry into force expected in 2026



AI ACT DEVELOPMENT



Source: <https://artificialintelligenceact.eu/developments/>

DISCLAIMER

This content is based on the draft text

**Does not exhaustively reflect what will
be the final version**

Guidelines on implementation to come (art 58a)



DEFINITIONS

AI system

[...] 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.** .

general purpose AI model

[...] 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.

#2 LINKS BETWEEN AI ACT & GDPR

A COMPARATIVE VIEW OF AI ACT & GDPR

Shared characteristics

GDPR

EU regulations

Potential worldwide applicability if EU citizens are impacted

EU Data Prot° Board

EU coordination

Purpose-based

Accountability principle

Code of conduct & certification through notified bodies

20 M€ / 4 % WAT

(significant) enforcement fines

Focus on protecting citizens' rights

Collaboration with authorities in case of incidents

Importance of risks management / impact analysis

AI Act

EU AI office

35 M€ / 7% WAT

A COMPARATIVE VIEW OF AI ACT & GDPR

Some differences

GDPR

Creation of new rights for citizens

Applicable to all when personal data are collected and processed

New role in organisations : data protection officer

AI Act

No new rights created

Applicable as soon as an AI system is put on the market

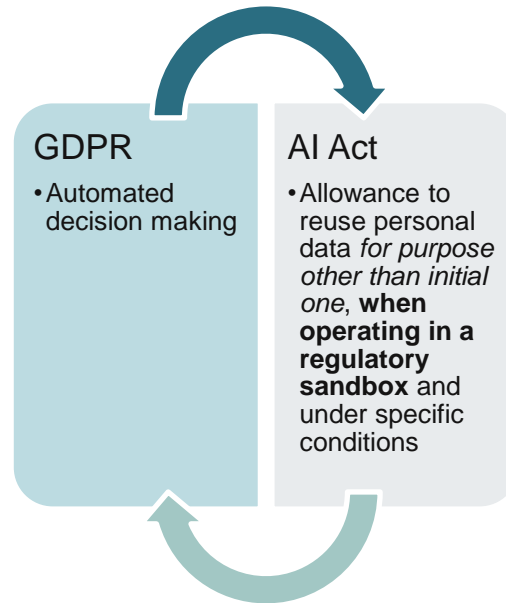
No specific role required in organisations

Explicit room for innovation (regulatory sandbox)

EU database of AI systems, providers, conformity assessment operators (notified bodies)

A COMPARATIVE VIEW OF AI ACT & GDPR

Noticeable interdependencies



#3 AI RELATED RISKS

AI RISKS CATEGORIES

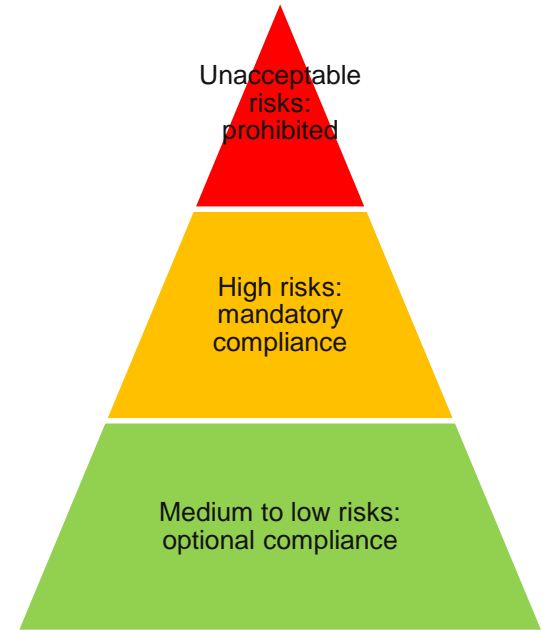
Classification of AI systems deployed in EU

Classification is (AI system) **purpose-based**

Unacceptable risks: prohibited

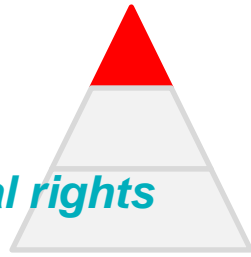
High risks: mandatory compliance with requirements & obligations

Medium to low risks: optional (but recommended) compliance to requirements & obligations



PROHIBITED AI SYSTEMS

Systems presenting *unacceptable risks for human beings or fundamental rights*



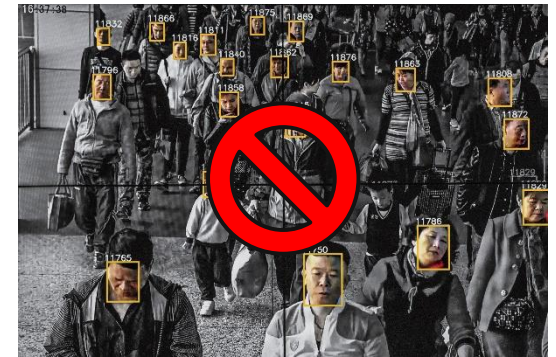
Subliminal techniques or persons' vulnerabilities exploitation



Social scoring leading to detrimental/unfavourable treatment

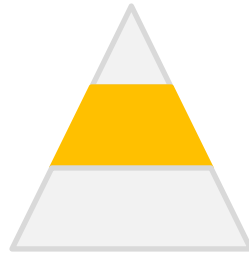


Real-time remote biometric identification in public space (for law enforcement)*



* with exceptions

HIGH RISK AI SYSTEMS



AI system embed in products that can physically harm a person (Annex II)

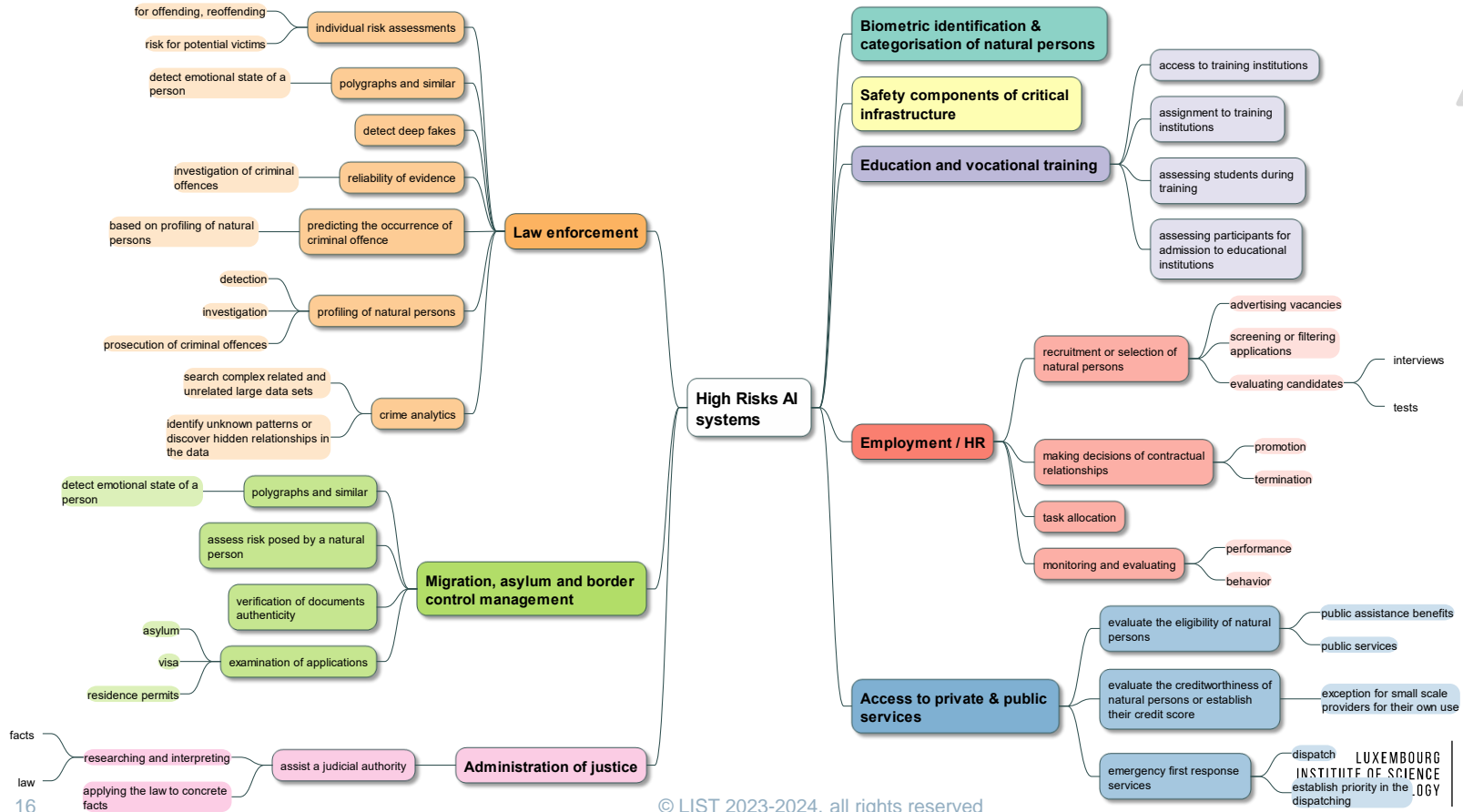
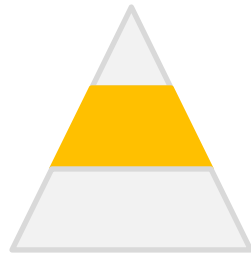
Products already covered by EU legislation

- Machines, toys, lifts, medical devices ... (Annex II A)
- Vehicles : road, rails, water, air ... (Annex II B)

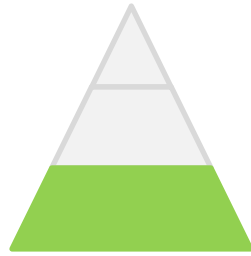
AI system that can jeopardise human rights (Annex III)

Risks of discrimination or unfair treatment

HIGH RISK AI SYSTEMS



MEDIUM TO LOW RISKS AI SYSTEM



All other systems not classified unacceptable or high








No obligation to compliance, but recommendation to do so, through codes of conducts

#4 OBLIGATIONS






For AI users and developers

Compliance scope and obligations for high-risks AI systems

Compliance scope

-  Risk management system
-  Data & data governance
-  Technical documentation
-  Record keeping
-  Transparency & information to users
-  Human oversight
-  Accuracy, robustness, cybersecurity

Horizontal obligations

-  Quality management system
-  Conformity assessments
-  Activity logging
-  Corrective actions
-  Information & cooperation with authorities

EU AI ACT

Obligations for providers

- Ensure compliance
- Disclose contact details
- Have a **QMS**
- Keep documentation
- **Keep logs** when operating the AI system
- Perform **Conformity assessment** before placing on the market
- Register AI system in the EU database
- Take **corrective actions** in case of non conformity
- Mark CE in case of conformity
- **Inform authorities**, incl. in case of non-compliance & demonstrate conformity when requested

Horizontal obligations



Quality management system



Conformity assessments



Activity logging



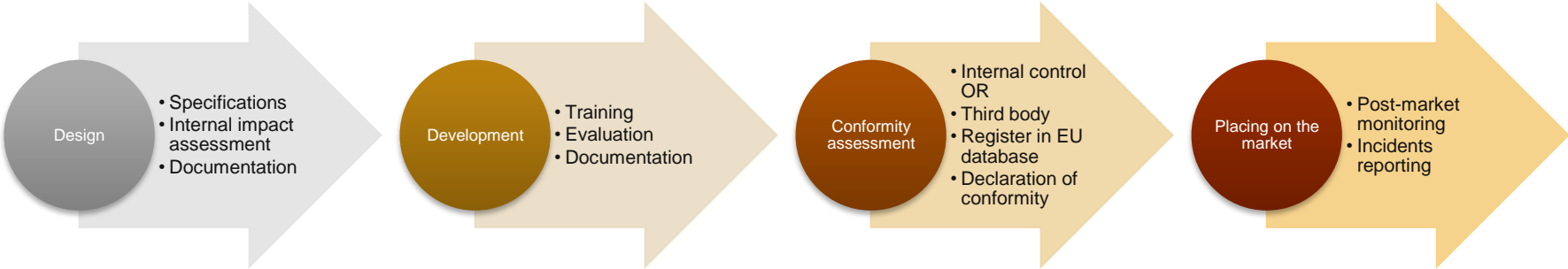
Corrective actions



Information & cooperation with authorities

TIMELINE OF A HIGH-RISK AI SYSTEM

Assumption that the AI system is ML-based



EU AI ACT

Obligations for other than providers

Providers obligations transferred in case of

- Branding transfer (name, trademark)
- Substantial modification after placing on the market
- Purpose modification of a system placed on the market making the system high-risk
- Placing on the market a general-purpose system making it high-risk or component of a high-risk system

CONCLUSION

AI ACT : HOW TO PREPARE

Stay tuned

Vote to come in 2024

Application in 2026

Prepare

Document

Log

Keep records

Identify the AI systems in use /
planned & their purpose → risk
classification

Get support

... there will be plenty

Ready4AI conference series
(CC)

EU [model](#) of contractual
clauses for procurements of AI
systems

EXCELLENCE FOR IMPACT

LIST.lu



LUXEMBOURG
INSTITUTE OF SCIENCE
AND TECHNOLOGY



REFERENCE TEXTS

1. <https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:52021PC0206>
2. <https://artificialintelligenceact.eu/wp-content/uploads/2023/05/AIA-%E2%80%93-IMCO-LIBE-Draft-Compromise-Amendments-16-May-2023.pdf>
3. <https://artificialintelligenceact.eu/wp-content/uploads/2022/12/AIA-%E2%80%93-CZ-%E2%80%93-General-Approach-25-Nov-22.pdf>
4. <https://artificialintelligenceact.eu/wp-content/uploads/2022/06/AIA-IMCO-LIBE-Report-All-Amendments-14-June.pdf>