

The background features a large, stylized 'AI' in a light blue, pixelated font. To the left of the 'AI' are several hexagonal icons: a cloud, a document, a shield with a keyhole, and a smartphone. To the right are icons of a smartphone and a computer monitor. A hand is shown reaching out from the right side, interacting with the 'AI' text. The overall theme is digital technology and AI.

THE AI ACT IN ACTION

BRIDGING POLICY AND PRACTICE IN THE AGE OF AI

20 January 2026



LE GOUVERNEMENT
DU GRAND-DUCHÉ DE LUXEMBOURG
Ministère d'État

Service des médias, de la connectivité
et de la politique numérique



Lisa BURKE



Carlo THELEN

Director General

Chamber of Commerce



Tine A. LARSEN

President

National Commission for
Data Protection (CNPD)



Elisabeth MARGUE

Minister Delegate to the Prime Minister
for Media and Connectivity

THE AI ACT IN ACTION

DEMYSTIFYING THE AI ACT





Dr. Lucilla SIOLO

Director EU AI Office

European Commission



Demystifying the AI Act

"The AI Act in Action - Bridging policy and practice in the age of AI"
Luxembourg, 20 January 2026
Dr Lucilla Sioli, Director of the EU AI Office



**EUROPEAN ARTIFICIAL
INTELLIGENCE OFFICE**

The EU AI Office

360-degree vision on AI:



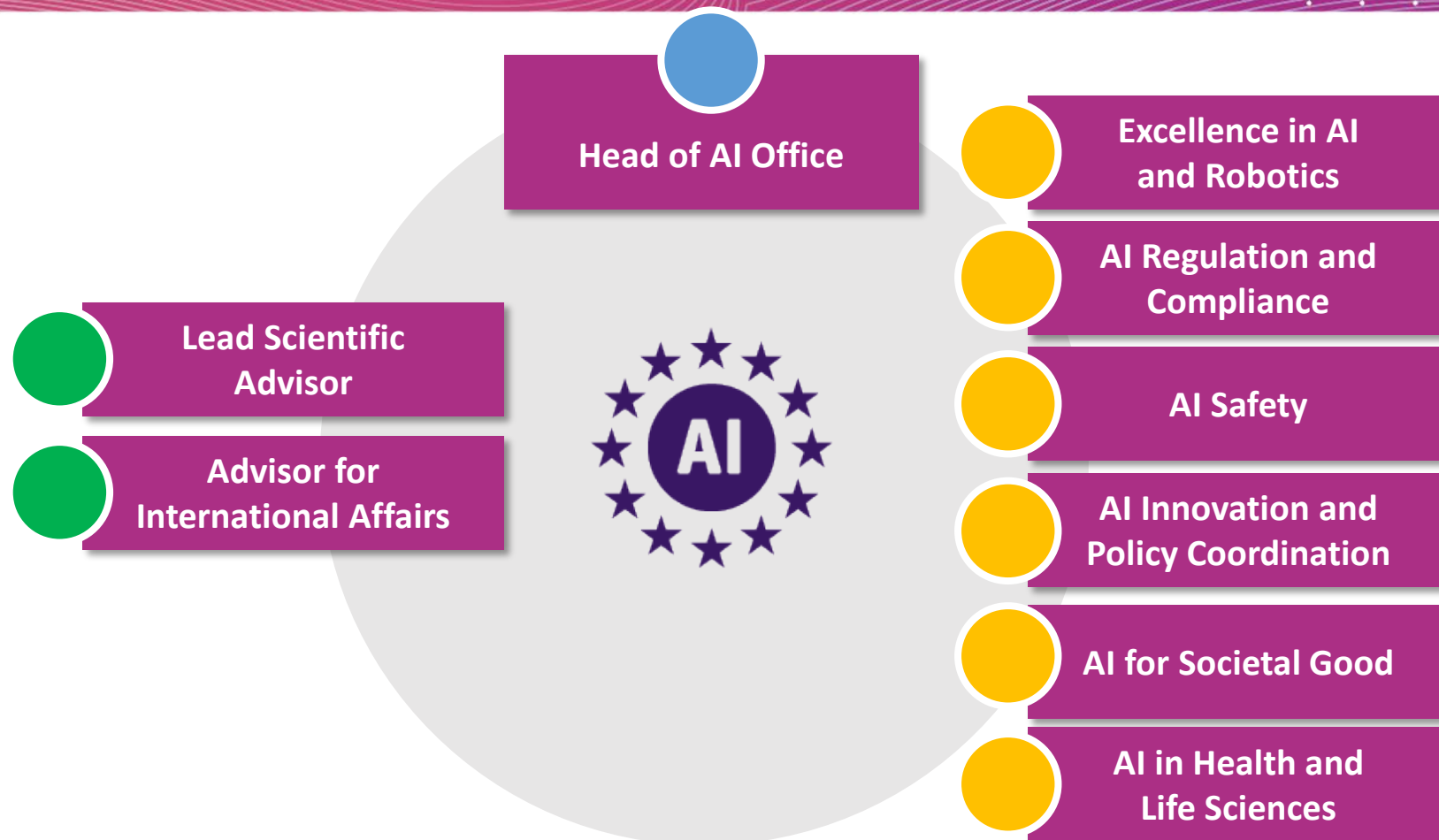
Key role in the implementation of the AI Act, especially in relation to general-purpose AI models



Fosters research and innovation in trustworthy AI



Positions the EU as a leader in international discussions and contributor to AI for good



EUROPEAN ARTIFICIAL
INTELLIGENCE OFFICE

Key regulatory concepts of the EU AI Act



Horizontal product safety legislation

- “Classic” internal market rules, Art. 114 TFEU
- Coherence with acquis on product safety



Technology neutral

- Focus on AI systems
- No regulation of technology, but of use cases
- Behavioural obligations for providers of general-purpose AI models



Risk-based approach

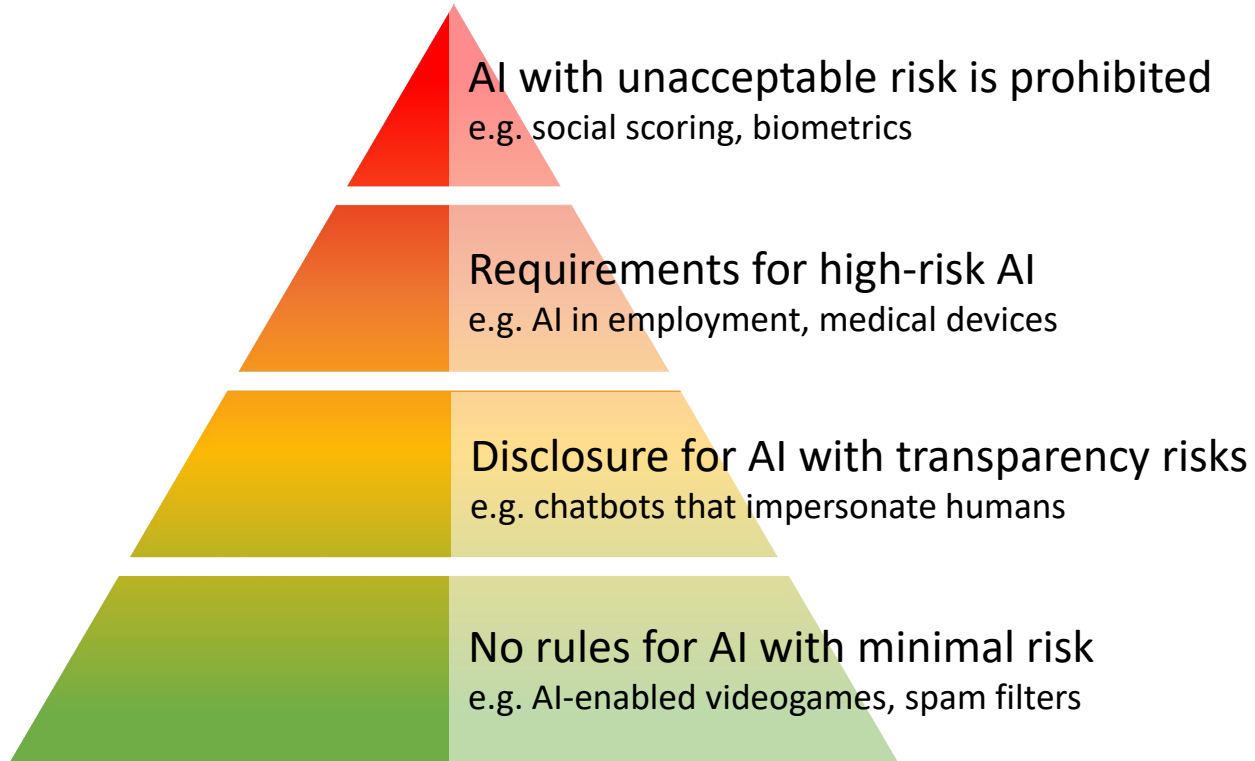
- Proportionate approach, applying rules commensurate to risk
- Covers risks to health, safety & fundamental rights



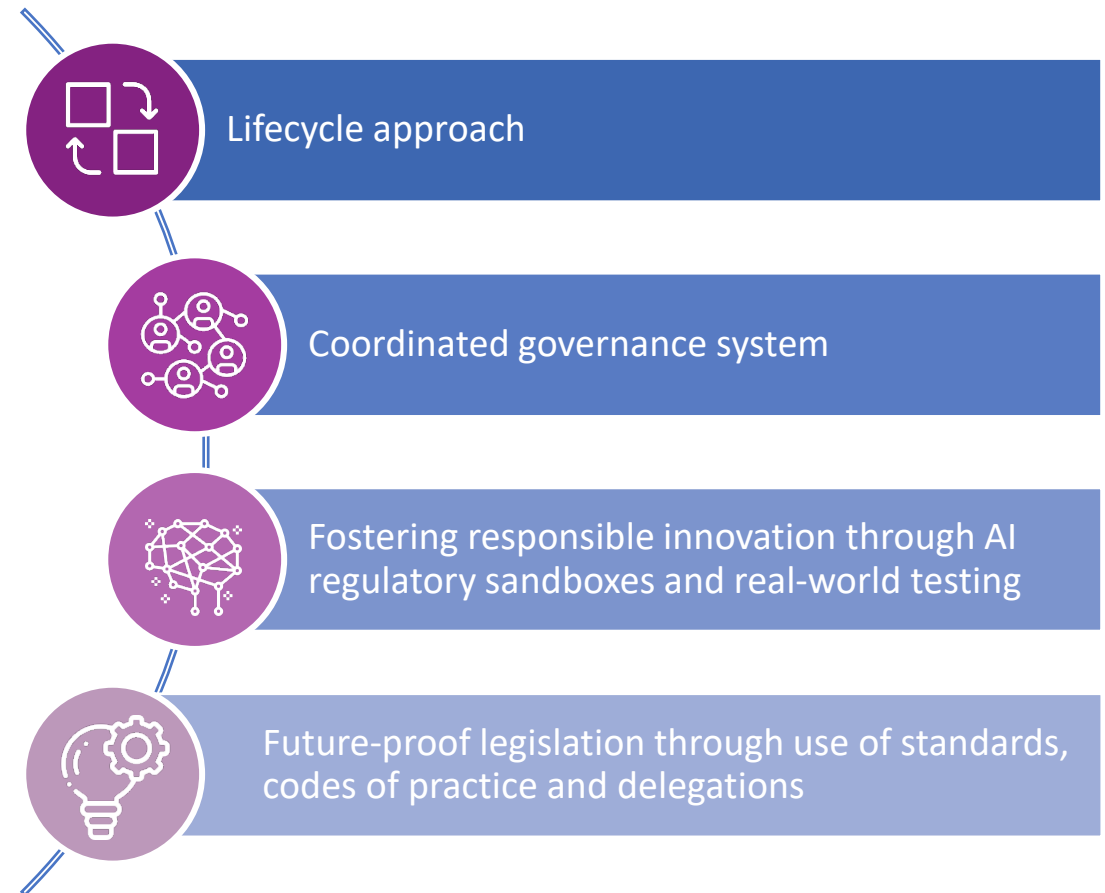
EUROPEAN ARTIFICIAL
INTELLIGENCE OFFICE

EU AI Act – rules for trustworthy AI in Europe

Risk-based rules for AI systems:



Transparency and risk management for powerful AI models that can be components of AI systems



EUROPEAN ARTIFICIAL
INTELLIGENCE OFFICE

Digital Simplification Package

Simpler EU digital rules and new digital wallets to save billions for businesses and boost innovation



1. DIGITAL OMNIBUS

simplifying rules on
data, cyber and AI



2. DATA UNION STRATEGY

unlocking more
high-quality data for AI



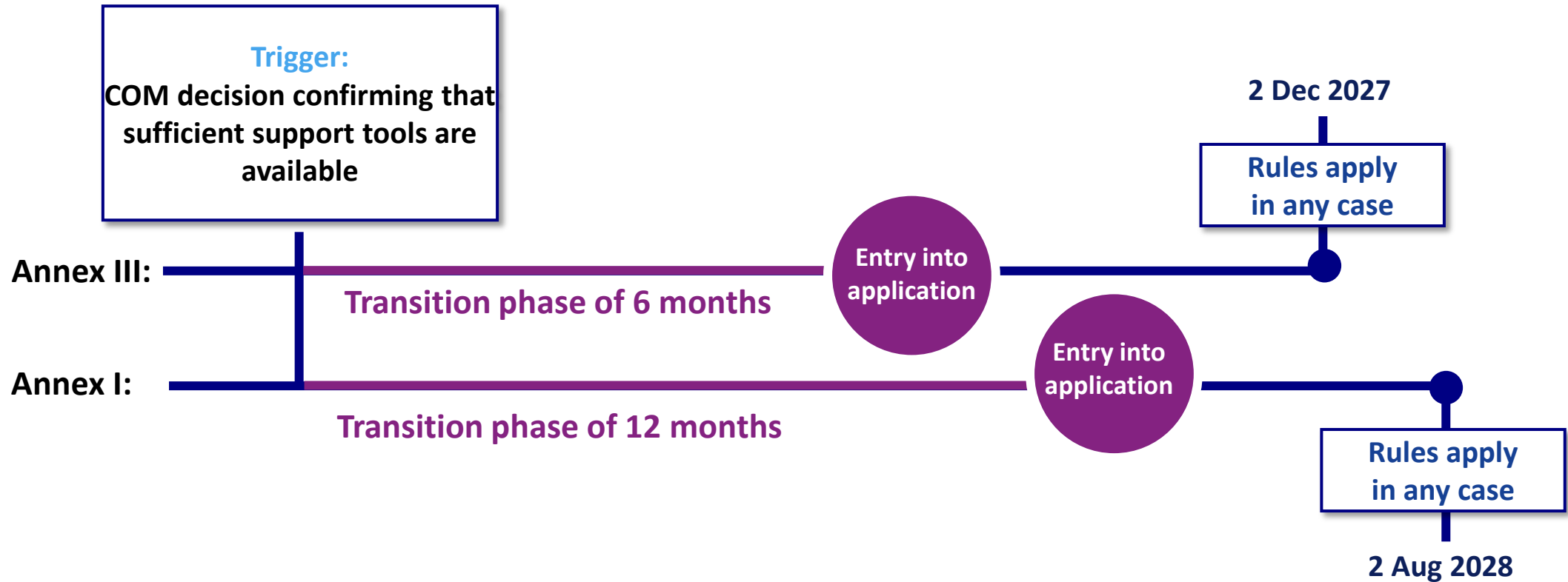
3. EU BUSINESS WALLETS

cutting paperwork and
easing regulatory burden



EUROPEAN ARTIFICIAL
INTELLIGENCE OFFICE

Simplification: How does the timeline for high-risk AI work?



Other targeted changes to the AI Act



Simplification measures



In addition to existing support measures like codes of practice, guidelines, stakeholder outreach & the [AI Act Service Desk](#)

- Requiring Commission and Member States to foster AI literacy
- Strengthening the governance system
- Expanding measures in support of innovation
- Improving procedures and operations



EUROPEAN ARTIFICIAL
INTELLIGENCE OFFICE

Stakeholder outreach and support in compliance

Introducing the AI Act Service Desk



Possibility for stakeholders to **submit queries about the AI Act to the AI Office** and **receive tailored feedback**

- **Multilingual** support
- **Complementary** to other schemes such as the Regulatory sandboxes, EDIHs, and national helpdesks



Integrated into a **Single Information Platform**
(launch in EN only – multilingual support to be available soon)

- **AI Act Explorer**
- **Compliance Checker**
- **FAQs**
- Repository of **Commission and national resources**



<https://ai-act-service-desk.europa.eu/en>



EUROPEAN ARTIFICIAL
INTELLIGENCE OFFICE

Upcoming activities of the AI Office

Upcoming: report on the review of the prohibitions and Annex III

Recently started: development of the Code of Practice on marking and labelling AI-generated content

Ongoing preparation: guidelines on high-risk classification

Ongoing preparation: guidelines on high-risk obligations, substantial modifications and AI value chain

Ongoing preparation: template for the fundamental rights impact assessment

Ongoing preparation: set-up of the EU database for high-risk AI systems

Our [AI Pact webinars](#) for an in-depth look into the AI Act

Explore all our activities online:



EUROPEAN ARTIFICIAL
INTELLIGENCE OFFICE

Thank you for your attention.

THE AI ACT IN ACTION

FROM MYTH TO MECHANISM: DEMYSTIFYING THE AI ACT



**Dr. Cinzia
BERRITELLA**

Head of AI Governance
ENCEVO



**Stefaan
ROEGIERS**

Head of Digital Engagement
BIL



**Liliana
GRIGOR**

Chief Technology Officer
eSST



**Me Mickaël
TOMÉ**

Attorney at Law
Etude Toguna Tome Avocats

Moderator



Stefaan ROEGIERS

Chief Product Manager Digital
Banque Internationale à Luxembourg

Use case – Banque Internationale à Luxembourg

Introducing BIL Virtual Assistant: Berry

Why Berry? Why now?

- **Changing client expectations** : Clients now expect intelligent, natural, multilingual, and proactive assistants—just like ChatGPT, Gemini, Copilot, etc.
- **The bank's challenge** : Deliver a digital experience that meets their needs and complies with regulations
- **New strategic phygital channel** that:
 - Improves **Self-service** [24/7 support anytime]
 - Personalized **Experience** supported by **Trust & Transparency**
 - **In line** with our **service model**
 - Future-proofs **BIL's digital strategy**





Liliana GRIGOR

Chief Technology Officer
eSST



The AI Act in Action: Real-World Implementation at eSST SA

Liliana Grigor, CTO



Facilitate your Environment and
Occupational Health & Safety

eSST SA: A Decade of Excellence in Occupational Health & Safety



Our Foundation

- 10 years of expertise in **OHS consultancy** and digital solutions
- 60 permanent clients across Luxembourg
- Team of 8 dedicated professionals

Our platform

- Comprehensive **mobile and web** OHS application
- Trusted by organizations nationwide
- **Continuous** innovation in workplace safety

Certifications & Recognition



ISO 9001

Quality management certified



Label Sécher & Gesond

Safety & health excellence



Made in Luxembourg

Local innovation



Radioprotection Radon

Specialized accreditation



Vision Zéro AAA

Zero accidents commitment



ITM Certified Training

Official training provider

The Challenge: Manual Safety Data Sheet Processing

Time-Consuming Data Entry

Every chemical product required manual encoding from Safety Data Sheets (SDS)

High Error Risk

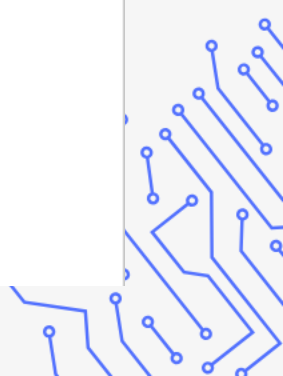
Human mistakes, duplicate entries, inconsistent data quality

Resource Drain

Significant burden on safety managers and compliance teams

Limited Scalability

Growing product catalogs overwhelmed manual processes

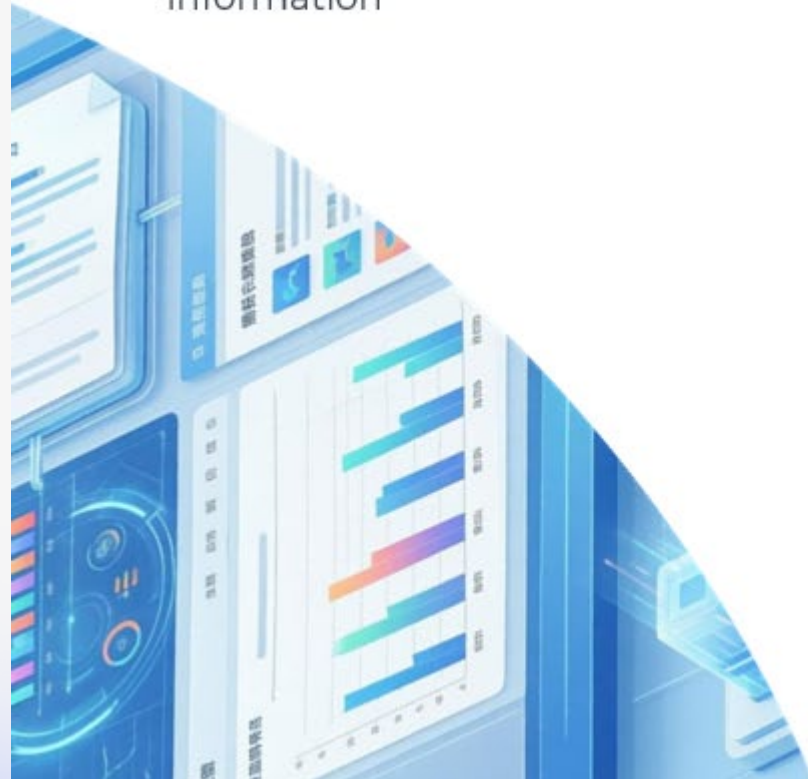


AI-Powered Transformation: Automatic SDS Data Extraction



The Solution

Intelligent orchestration system that reads Safety Data Sheets and automatically extracts critical information



01

Document Upload

SDS uploaded to platform

02

AI Analysis

System extracts key data

03

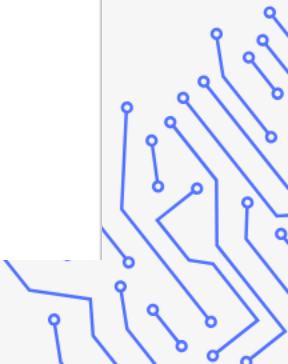
Pre-Population

Forms filled automatically

04

Human Verification

Expert review and approval



What Our AI Extracts Automatically



Substance Identification

Chemical names, CAS numbers, composition percentages, active ingredients



Technical Characteristics

Physical properties, handling requirements, storage conditions, exposure limits



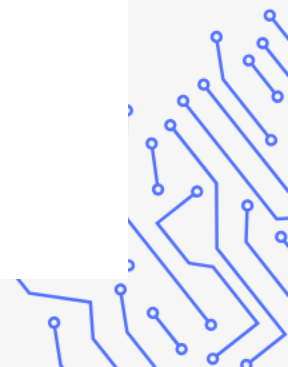
Hazard Information

H-phrases (hazards), P-phrases (precautions), classification codes, pictograms



General Data

Manufacturer details, product codes, revision dates, regulatory information



Impact & Results

70%

Data Extracted

Automatically captured
from SDS documents

80%

Time Saved

Reduction in manual
encoding effort

100%

GDPR Compliant

Risk-free deployment with
full data protection



Key benefits



Dramatic Time Savings

Up to 80% faster product registration process



Enhanced Accuracy

Consistent, complete data with fewer human errors



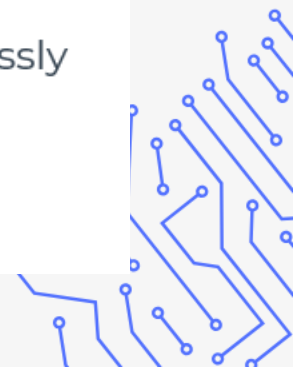
Better Traceability

Improved audit trails and compliance documentation



Scalability

Handle growing product catalogs effortlessly



Responsible AI Implementation

1

Low-Risk Classification

System assessed as low-risk under AI Act framework

2

Transparency by Design

Clear "AI" labels on extracted data for full visibility

3

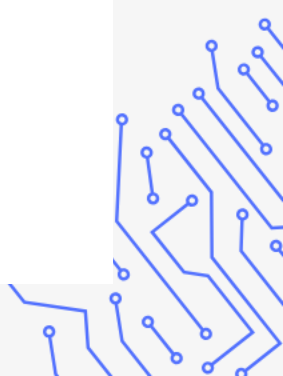
Human-in-the-Loop

Mandatory expert verification before data finalization

4

Status Tracking

"Not Verified" markers ensure proper control workflow



Key takeaways

AI Act is Practical

Real implementation possible with proper risk assessment and transparency measures

Efficiency Meets Compliance

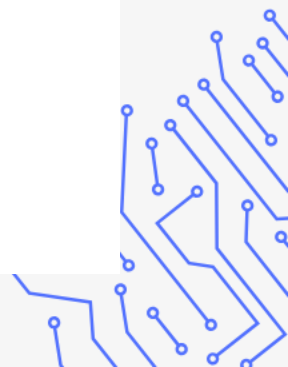
70-80% productivity gains while maintaining full regulatory adherence

Human Oversight Essential

AI augments, not replaces human expertise in safety-critical domains

Thank you! Questions?

Liliana Grigor • CTO, eSST Luxembourg





Dr. Cinzia BERRITTELLA

AI Governance & Innovation
Encevo Group



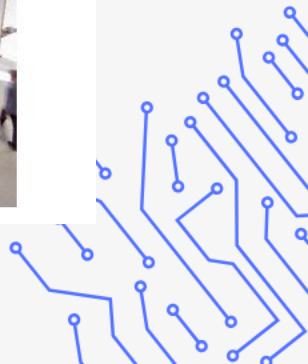
The Encevo Group



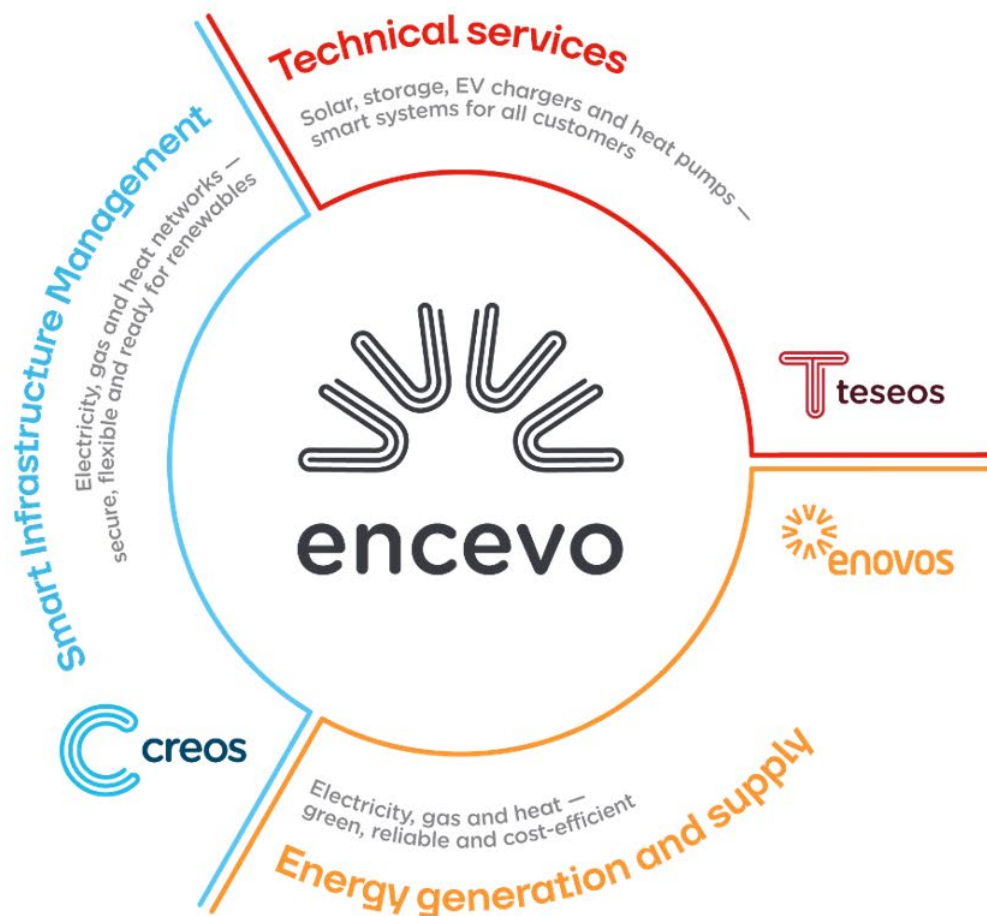
The Encevo Group is the leading energy provider in Luxembourg and a key regional player across the energy value chain, also active in neighbouring countries.

The group's offer is structured around three core business activities:

1. Smart infrastructure management
2. Energy generation and supply
3. Technical services and solutions



The three pillars of the Encevo Group



Energy supply

- ⚡ Electricity
- 🔥 Gas/Renewable gas
- 🔥 Heat
- ❄️ Cold

Energy infrastructure

- 🏠 Electricity grid
- 🏠 Gas grid
- 🏠 Heating grids

Energy generation

- 🌬️ Wind energy
- ☀️ Solar energy
- 💧 Hydroelectric energy
- 🔌 Combined Heat & Power (CHP)
- 🔥 Heat production

Energy storage

- 🔋 Gas storage
- ⚡ Electricity storage

Technical services and solutions

- ⚙️ Building equipment, material distribution, facility management, realisation and installation of energy distribution systems, renewable energy production, e-mobility, and energy efficiency

AI Guidelines



TRANSPARENCY & EXPLAINABILITY



INCLUSION & SOCIAL RESPONSIBILITY



ACCOUNTABILITY



HUMANS IN CONTROL



CONTINUOUS MONITORING



A use case from

From email to quotation in a few clicks

Faster service, fully compliant documentation

The Risk

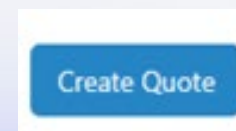
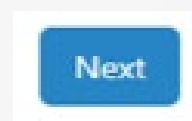
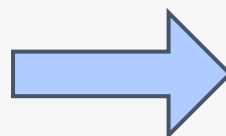
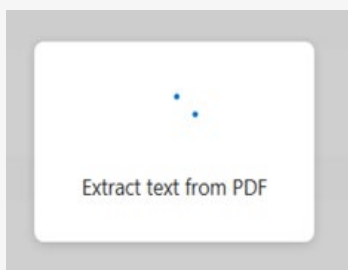
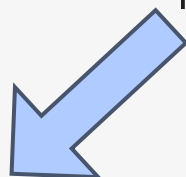
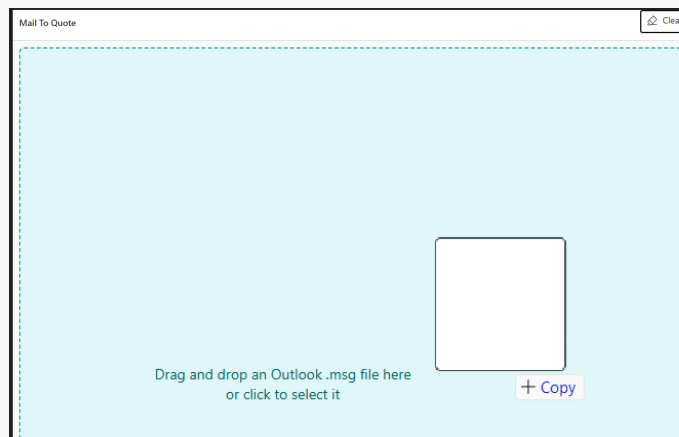
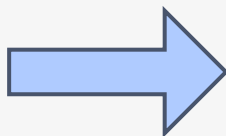
Missing the authorization is a breach of compliance and ENEDIS could issue sanctions.

The Input

French customers provide an ACD (=Autorisation de consultation de données) and other documents by email.

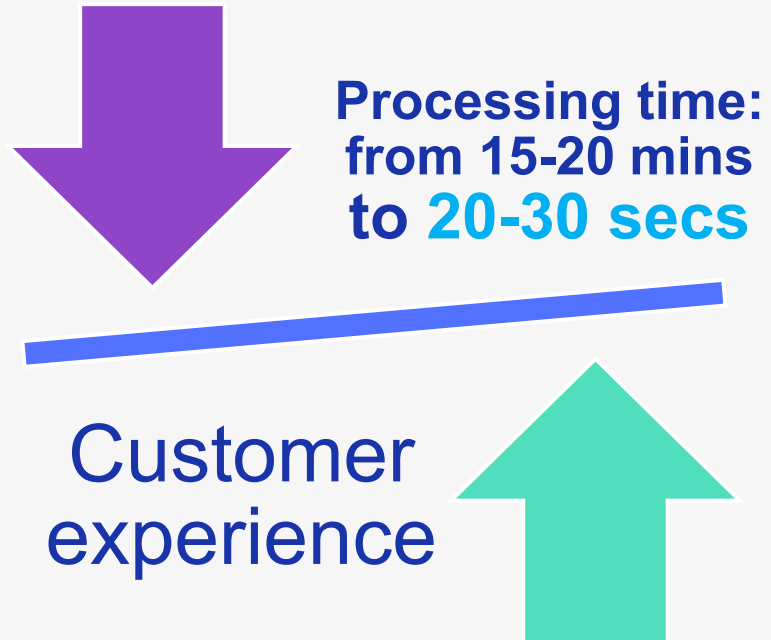


What does it look like?



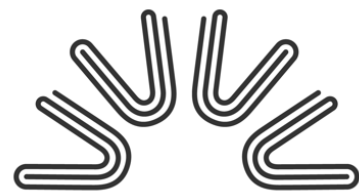
PoC final outcomes

AI Act & Data Security & GDPR compliance by design



97%

Efficiency
Improvement



encevo

Driving energy transition

Thank you!

NAVIGATING THE AI ACT - COMPLIANCE IN PRACTICE

AI Act: how does it apply to me?



Philippe VALOGGIA

National Commission for
Data Protection (CNPD)

AI Act: how does it apply to me?

Answering this depends on the following two questions:

1. To whom does the AI Act apply?
 - Scope of application
2. What are the resulting obligations?
 - Compliance framework

1. To whom does the AI Act apply?

Scope of application

Pr
Providers

ID
Importers &
Distributors

Pm
Product
manufacturers

Arp
Authorised
representatives
of providers

De
Deployers

Ap
affected
persons

- Employees
- Job applicants
- Students
- Loan Applicants
- Consumers
- Citizen
- ...

1. To whom does the AI Act apply?

Providers

Pr
Providers

Measures in support
of Innovation
[AI Act, Chap. VI]

■ Exclusions

- AI system **intended for military, defence or national security purposes** [Art. 2(3)];
- AI systems or AI models, including their output, specifically developed and put into service for **the sole purpose of scientific research and development** [Art. 2(6)];
- **Research, testing or development activity** regarding AI systems or AI models prior to their being placed on the market or put into service [Art. 2(8)];
- AI systems released under **free and open-source licences** [Art. 2(12)].

1. To whom does the AI Act apply?

Deployer

■ Exclusions

- Public authorities in a third country or international organisations where those authorities or organisations use **AI systems in the framework of international cooperation or agreements for law enforcement and judicial cooperation with the Union** or with one or more Member States [Art. 2(4)]
- Deployers who are **natural persons** using AI systems in the course of a purely **personal non-professional activity** [Art. 2(10)]

De
Deployers

1. To whom does the AI Act apply?

What is your role under the AI Act?

Pr
Providers

ID
Importers &
Distributors

Pm
Product
manufacturers

Arp
Authorised
representatives
of providers

De
Deployers

Ap
affected
persons

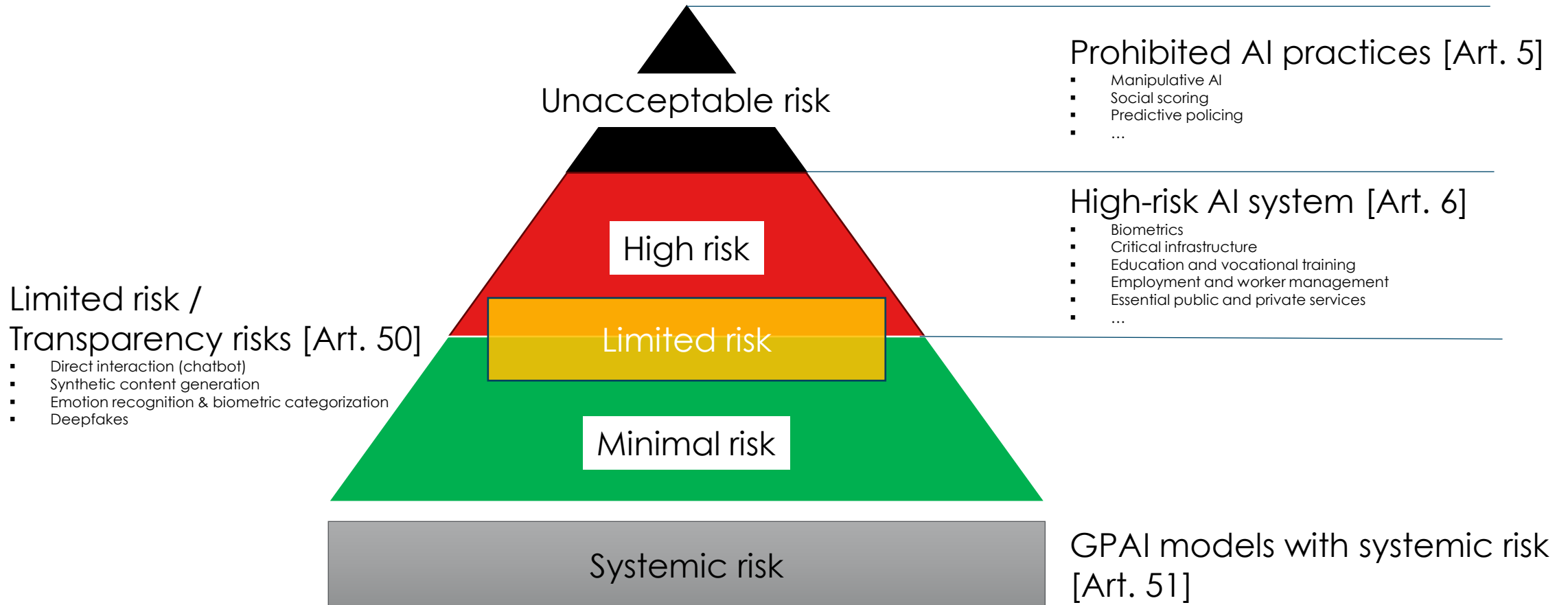
AI Act: how does it apply to me?

Answering this depends on the following two questions:

1. To whom does the AI Act apply?
 - Scope of application
2. What are the resulting obligations?
 - Compliance framework

2. What are the resulting obligations?

Risk-based approach



2. What are the resulting obligations?

Obligations of providers

	High-risk AI system	Limited-risk AI system	Minimal-risk AI system	Systemic-risk GPAI model
AI Literacy	Art. 4	Art. 4	Art. 4	Art. 4
Transparency and provision of information	Art. 13	Art. 50(1), (2)		Art. 53(1)b
Data and data governance	Art. 10			Art. 53(1)c, d
Technical documentation	Art. 11			Art. 53(1)a
Cooperation with competent authorities	Art. 21			Art. 53(3)
Risk management	Art. 9			Art. 55(1)a, b
Accuracy, robustness, cybersecurity	Art. 15			Art. 55(1)d
Registration	Art. 49			Art. 52(1)
Reporting of serious incidents	Art. 73			Art. 55(1)c
Record keeping	Art. 12			
Human oversight	Art. 14			
Labeling	Art. 16(b)			
Accessibility	Art. 16(l)			
Quality Management System	Art. 17			
Documentation keeping	Art. 18, 19			
Correctives measures	Art. 20			
Conformity assessment and declaration	Art. 43, 47, 48			

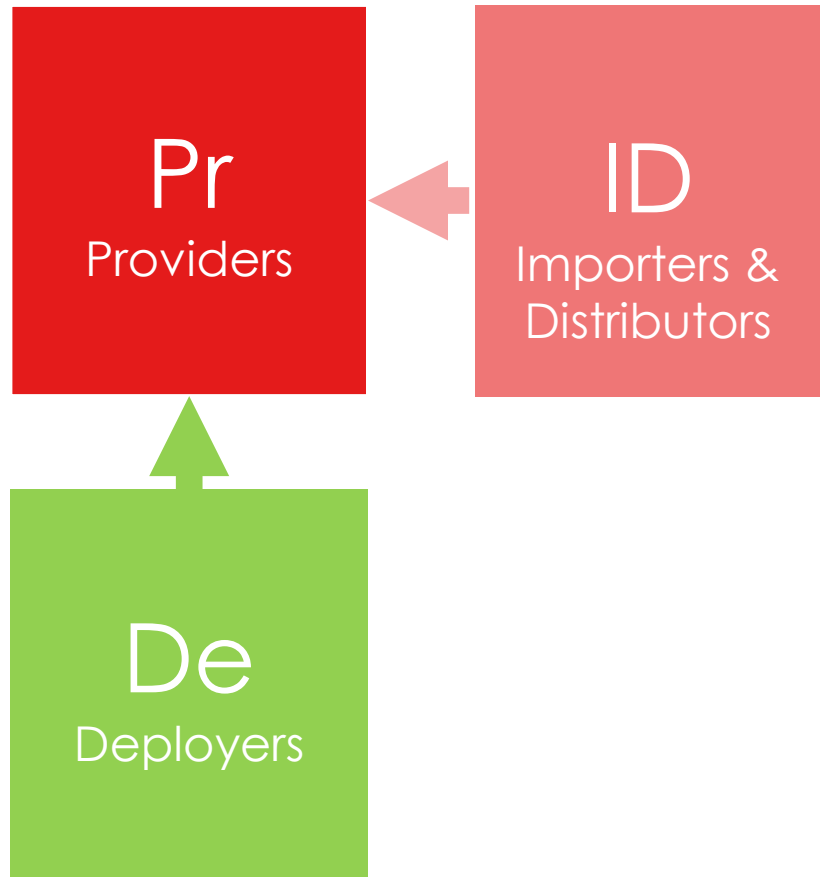
2. What are the resulting obligations?

Obligations of deployers

	High-risk AI system	Limited-risk AI system	Minimal-risk AI system
AI Literacy	Art. 4	Art. 4	Art. 4
Transparency and provision of information	Art. 26(11)	Art. 50(3), (4)	
Use of the SIA according to the instructions for use	Art. 26(1), (3)		
Human oversight	Art. 26(2)		
Monitoring	Art. 26(5)		
Reporting of serious incidents	Art. 26(5), 73(2)		
Record keeping	Art. 26(6)		
Cooperation with competent authorities	Art. 26(12)		
Explanation of individual decision-making	Art. 86(1)		
<i>Impact analysis</i>	Art. 26(9), 27		
<i>Registration obligations</i>	Art. 26(8)		
<i>Employees information</i>	Art. 18, 19		

2. What are the resulting obligations?

Responsibilities along the AI value chain



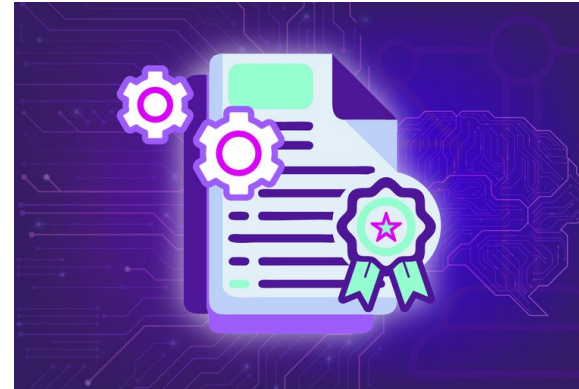
Deployers, Importers and Distributors shall be considered provider where:

- They put **their name or trademark** on high-risk AI system already placed on the market [Art. 25(1)(a)];
- They make a **substantial modification** to a high-risk AI system that has already placed on the market in such a way that it remains a high-risk system [Art. 25(1)(b)];
- They **modify the intended purpose** of an AI system in such a way that it becomes a high-risk AI system [Art. 25(1)(c)].

AI Act: how does it apply to me?

Do you now know how AI Act applies to you?

- Further resource
 - EU AI Act Compliance Checker



<https://ai-act-service-desk.ec.europa.eu/en/eu-ai-act-compliance-checker>

AI Literacy

A role-agnostic obligation: AI Literacy



- Definition [Art. 3(54)]
 - Skills, knowledge and understanding that allow **providers, deployers** and **affected persons**, taking into account their respective rights and obligations in the context of this Regulation, **to make an informed deployment of AI systems, as well as to gain awareness about the opportunities and risks of AI and possible harm it can cause.**
- Obligation [Art. 4]
 - **Providers** and **deployers** of AI systems shall take measures to **ensure**, to their best extent, **a sufficient level of AI literacy of their staff and other persons dealing with the operation and use of AI systems on their behalf**, taking into account their technical knowledge, experience, education and training and the context the AI systems are to be used in, and considering the persons or groups of persons on whom the AI systems are to be used.

NAVIGATING THE AI ACT - COMPLIANCE IN PRACTICE

THE BASIS - AI LITERACY

The basis: AI Literacy



**Philippe
VALOGGIA**

National Commission for
Data Protection (CNPD)



**Dr. Frédérique
BOULANGER**

Privacy Counsel Luxembourg
Entities, FERRERO



**Dr. Serge
LINCKELS**

Digital Learning Hub
42 Luxembourg



HOUSE OF
TRAINING

Offre de formation

Intelligence Artificielle

FAITES DE L'IA VOTRE LEVIER DE
PERFORMANCE AU QUOTIDIEN

Fondamentaux

Métiers

Secteurs



Scannez pour
découvrir nos
formations

Coffee Break

NAVIGATING THE AI ACT - COMPLIANCE IN PRACTICE

THE NEW GOVERNANCE EXPLAINED

The new governance explained



Jean-Pierre FABER
CSSF



Alain HERRMANN
CNPD



Thierry FLAMAND
Commissariat aux
Assurances



Cindy BAUWENS
ALIA



Thierry HOSCHEIT
Autorité de contrôle
judiciaire



Luc TAPELLA
ILR



Dr. Anna CHIOTI
Direction de la Santé



Alain WAHL
ILNAS



**Gérard
HOFFMANN**

CEO & Managing Director
Proximus Luxembourg

Moderator

THE AI ACT IN ACTION

SUPPORT TO INNOVATION

Making AI innovation work: tips and tools



Dr. Lucilla SIOLI
European Commission



David BENHAMOU
National Commission for
Data Protection



Dr. Esli SPAHIU
Luxembourg House of
Financial Technology (LhoFT)



Daniele PAGANI
Luxembourg Institute of Science
and Technology (LIST)



Franck NIATEL
Fujitsu Luxembourg



Dr. Emilia TANTAR
Luxembourg House of
Cybersecurity



**Philippe
LINSTER**

CEO House of Startups
Moderator

THE AI ACT IN ACTION

SUPPORT TO INNOVATION

Making AI innovation work: tips and tools



Franck NIATEL

Fujitsu Luxembourg

Knowledge sharing and best practices



Initially



Reinforce initial assesment
(needs and Architecture)



Foundational Quality Highlighter



Integrate Compliance and Security
as soon as possible



Embedding full traceability and monitoring
from day one



Over the course



Importance of testing phase
(manual, automation, pentests)



Building solid foundations,
step by step



A cross-functional
enterprise project



Be mindful of the realistic timeline
and budget constraints

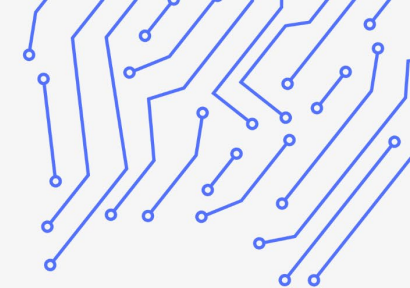


Daniele PAGANI

Lead Partnership Officer

Luxembourg Institute of Science
and Technology (LIST)

THE AI ASSESSMENT SANDBOX CONFIGURATOR



Lessons learnt from the LIST AI Technical Sandbox since 2024

1. Test, Test, and Test Again

Making a PoC is easy, turning it into a trusted solution with clear ROI requires rigorous testing and several improvement cycles

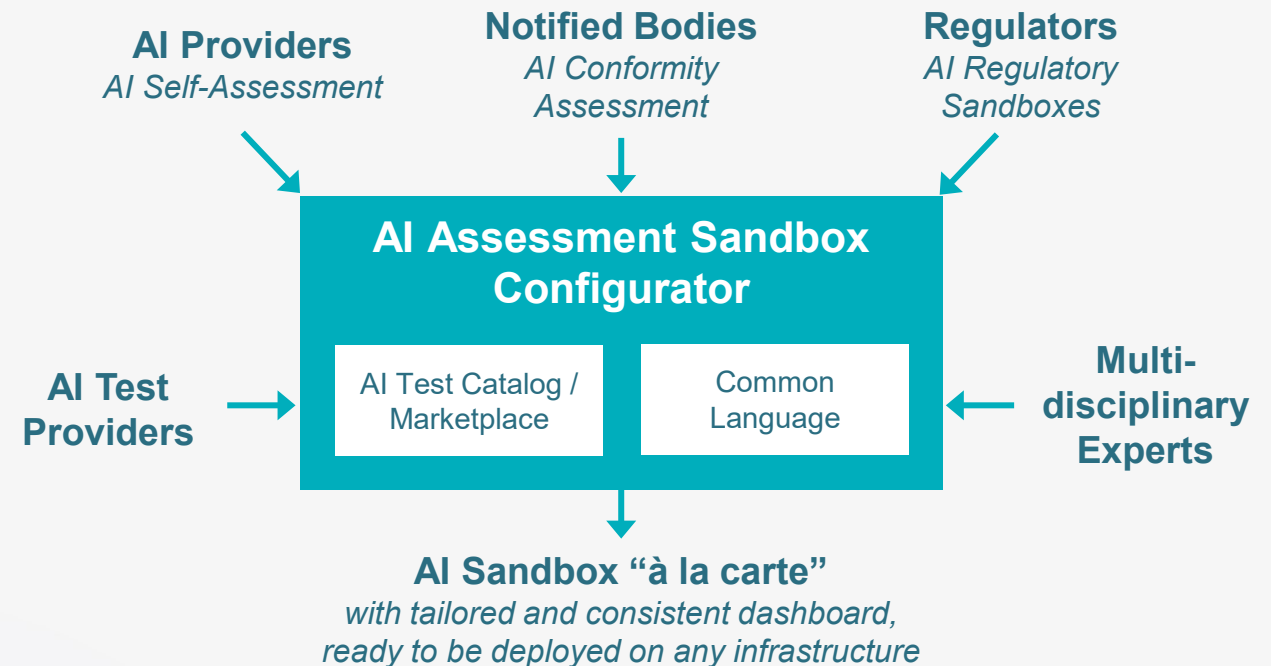
2. One size does not fit all

Each use case and vertical domain has different impacts & risks, metrics, testing methods, thresholds, etc. → “sandbox à la carte” for each use case

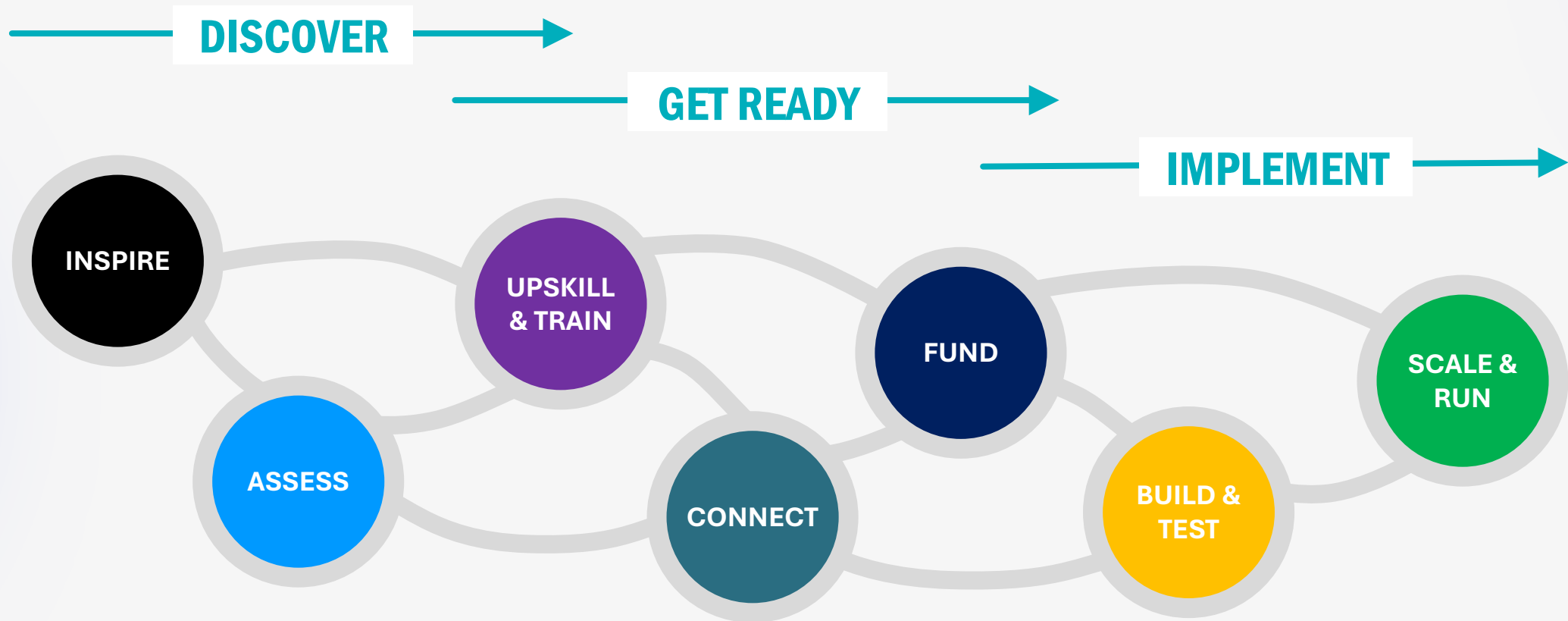
3. Multi-disciplinary collaboration

Testing and optimization of AI solutions requires cooperation among different experts and departments/entities: Business, AI, Data&Content, IT, User Experience, Change Management, Legal, Compliance, Risk Management, Regulators, Ethics, etc.

A new open source tool to configure and deploy AI sandboxes “à la carte”



THE LUXEMBOURG AI FACTORY CAN SUPPORT YOUR AI JOURNEY: FROM IDEAS TO TRUSTWORTHY AI SOLUTIONS





Dr. Emilia TANTAR

Chief AI Officer

Luxembourg House of
Cybersecurity (LHC)

Data- Cybersecurity- Artificial Intelligence a continuum for the assessment of AI systems



Industry use cases (verticals)





LUXEMBOURG
CYBERSECURITY
FACTORY



LUXEMBOURG
CYBERSECURITY
DATA SPACE



LUXEMBOURG
CYBERSECURITY
AI HUB



LUXEMBOURG
CYBERSECURITY
QUANTUM LAB

Continuum Data- Cybersecurity- Artificial Intelligence - Quantum.

Industry use cases (verticals)



Artificial
Intelligence
Regulation:
EU AI Act

Support in
preparation
for
compliance

Cybersecurity
Regulation:
Cyber Solidarity Act,
CRA, CSA

Legal, standardisation and technical (AI,
Information security) capabilities of
assessment of the interplay between the
data related regulation, **cybersecurity
regulation and the EU AI Act**

Testing (i.e. threat analysis)

Risk management
(including AI and cybersecurity)

Open Cybersecurity Data
Space for testing

Data Related Regulation

Three horizontal layers of assessment



LHC
Luxembourg House
of Cybersecurity



David BENHAMOU

Regulatory Sandbox Lead
National Commission for
Data Protection (CNPD)

Making AI innovation work: tips and tools

AI/GDPR Regulatory Sandbox :

1. **A supervised environment:** where organizations can develop, test and validate AI systems **with the guidance of the CNPD** in terms of **GDPR and AIA**
2. **Benefits:** legal certainty, compliance by design product, faster go to market
3. **Starting** in August 2026

More information on www.cnpd.lu



Making AI innovation work: tips and tools

RE.M.I. AI Community of Practices : 2 Pillars :

- 1. **Plenary Sessions** : to share knowledge and inform : *3 times a year*
- 2. **Working Groups** : *every month*



N°	Title of the Working Groups
1	Reasoned catalogue of AI testing capabilities and general AI experts in the Luxembourg AI Ecosystem
2	Conformity assessment based on internal control
3	Responsible AI: Embedding Risk Mitigation into the AI Lifecycle
4	Best Practices for Pretrained model selection (sustainable, trustworthy, ethical, etc.)
5	Cybersecurity & AI



Dr. Esli SPAHIU

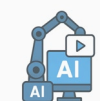
**AI Experience Center Manager
Luxembourg House of Financial
Technology (LhoFT)**

AI Experience Centre

DELIVERING VALUE THROUGH AI

KEY OBJECTIVES

1



Showcase AI in Action

Demonstrate how AI-powered
tools can optimize financial
operations and services

2



Accelerate Innovation & Adoption

Inspire adoption through live
demos, hands-in experiences
and inspiring success stories

Strengthen the collaboration
by encouraging open
dialogue and partnership

Foster Collaboration & Development



3

Develop and deliver
educational programs and
workshops on the latest AI
technologies and applications

Education & Training

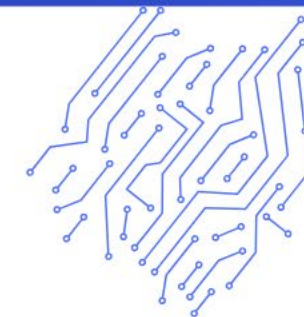


4



AI Experience Centre

DELIVERING VALUE THROUGH AI



[the LHoFT] Luxembourg House of Financial Technology

[] Interactive Simulations

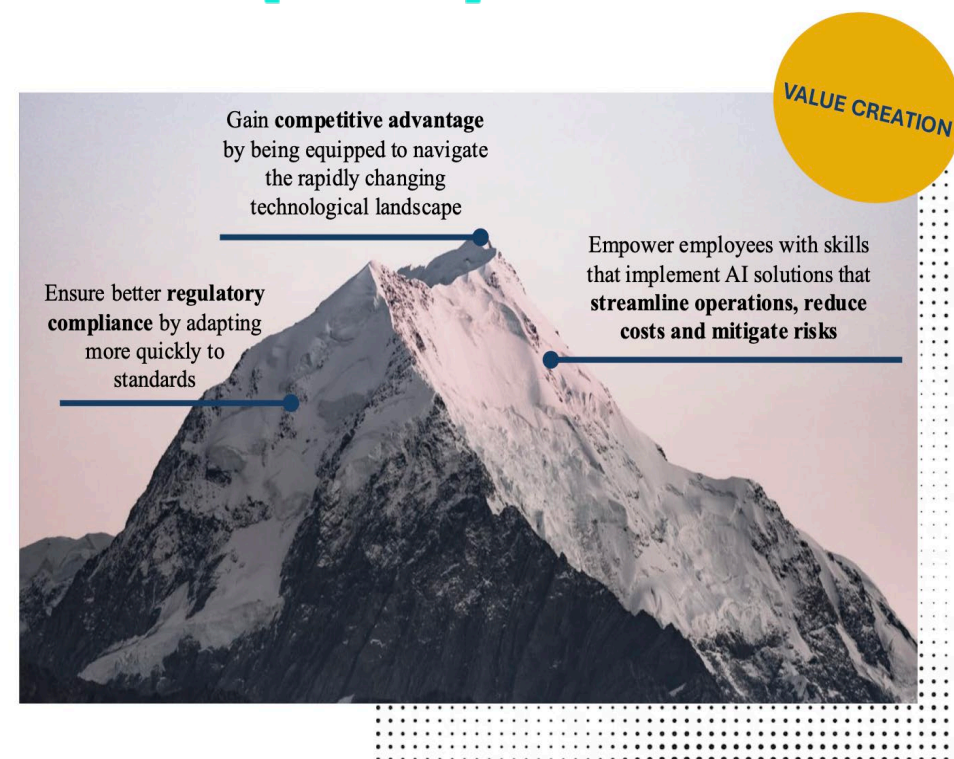
Experience live demos of emerging AI technologies that are actively transforming and reshaping the future of the Finance sector.

[] Networking Opportunities

Networking mixers, and tech showcases where professionals can share insights, exchange ideas, and collaborate on AI-driven projects.

[] Co-Innovation

Institutions can partners with AI experts, startups, and tech providers to co-create solutions that drive industry-wide transformation.



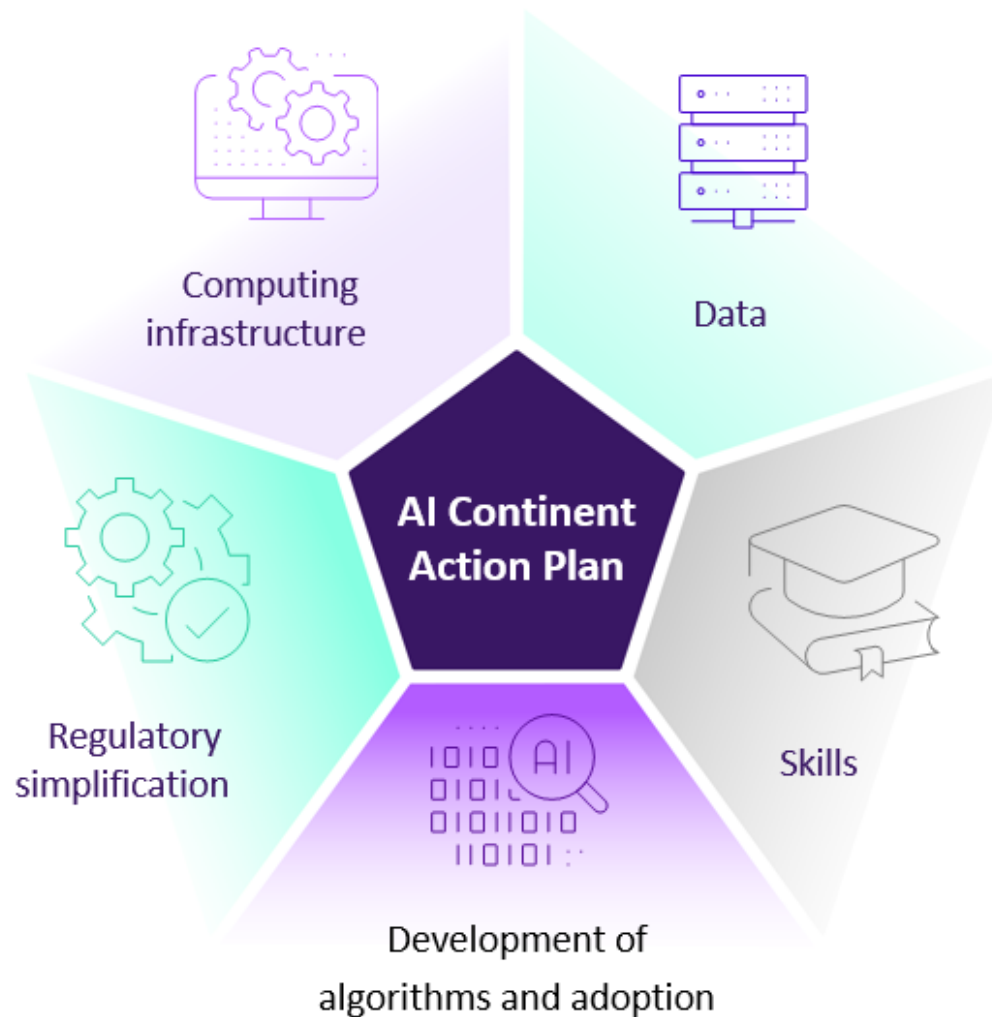
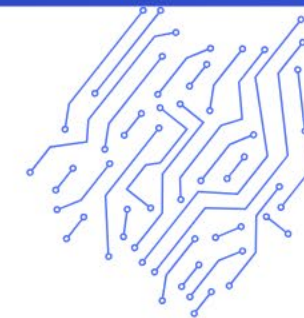


Dr. Lucilla SIOLO

Director EU AI Office

European Commission

EU's vision on five strategic dimensions



Starting points:

- **Only 13.5% of EU companies** are using AI
- AI is a “general-purpose” technology: **redesigning processes are necessary**
- **Competitiveness gains are distributed differently** across sectors

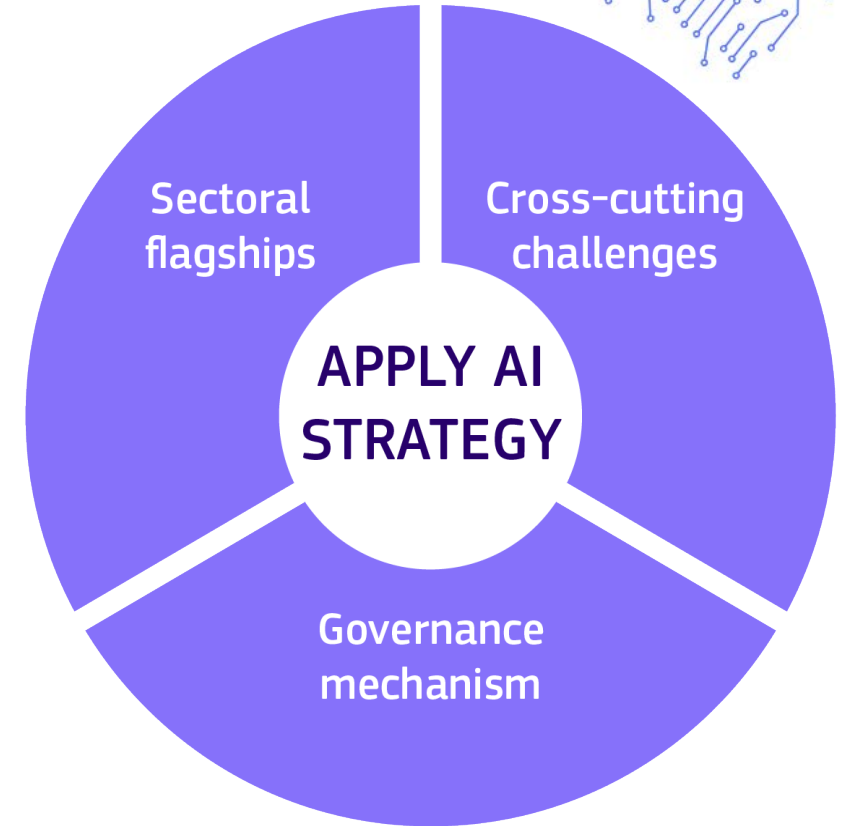
Supported by **InvestAI**, an initiative to mobilise **€200 billion** for **investments in AI**

Apply AI Strategy

- **AI First** : help businesses to consider AI as a useful solution to tackle their challenges while also considering the risks
- Support **adoption and integration of AI in 10 strategic industrial sectors** and the **public sector**
- **Tailored actions to sector specific needs** to harness the transformative potential of AI



enhance competitiveness
further develop EU's technological sovereignty



CLOSING REMARKS



THE AI ACT IN ACTION

BRIDGING POLICY AND PRACTICE IN THE AGE OF AI

20 January 2026



LE GOUVERNEMENT
DU GRAND-DUCHÉ DE LUXEMBOURG
Ministère d'État

Service des médias, de la connectivité
et de la politique numérique