

# 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

THE AI ACT IN ACTION

YOUR HOST



**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 SIOLI

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**



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INTELLIGENCE OFFICE

# The EU AI Office

## 360-degree vision on AI:



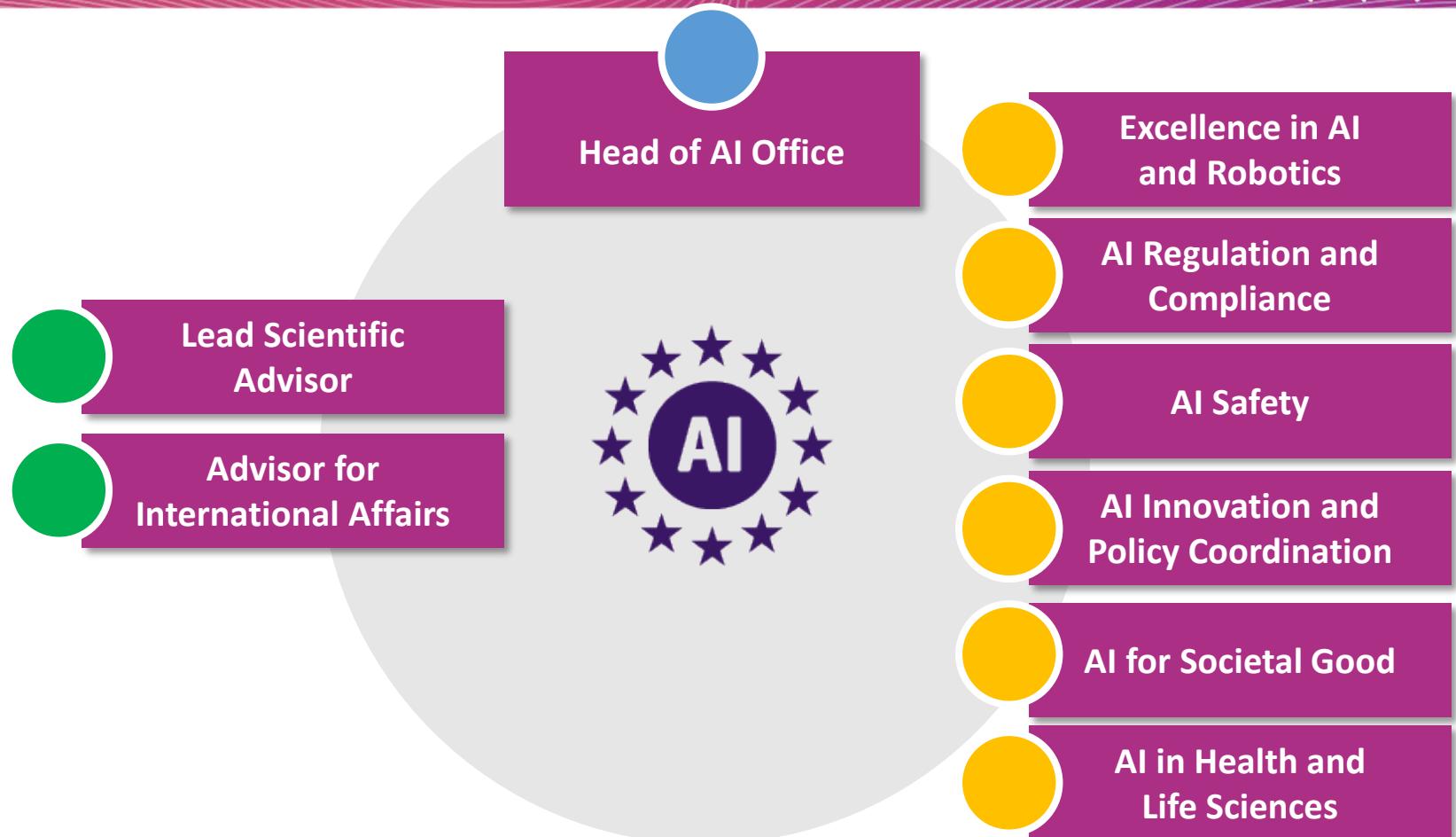
Key role in the implementation of the AI Act, especially in relation to general-purpose AI models



Fosters research and innovation in trustworthy AI



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



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# 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

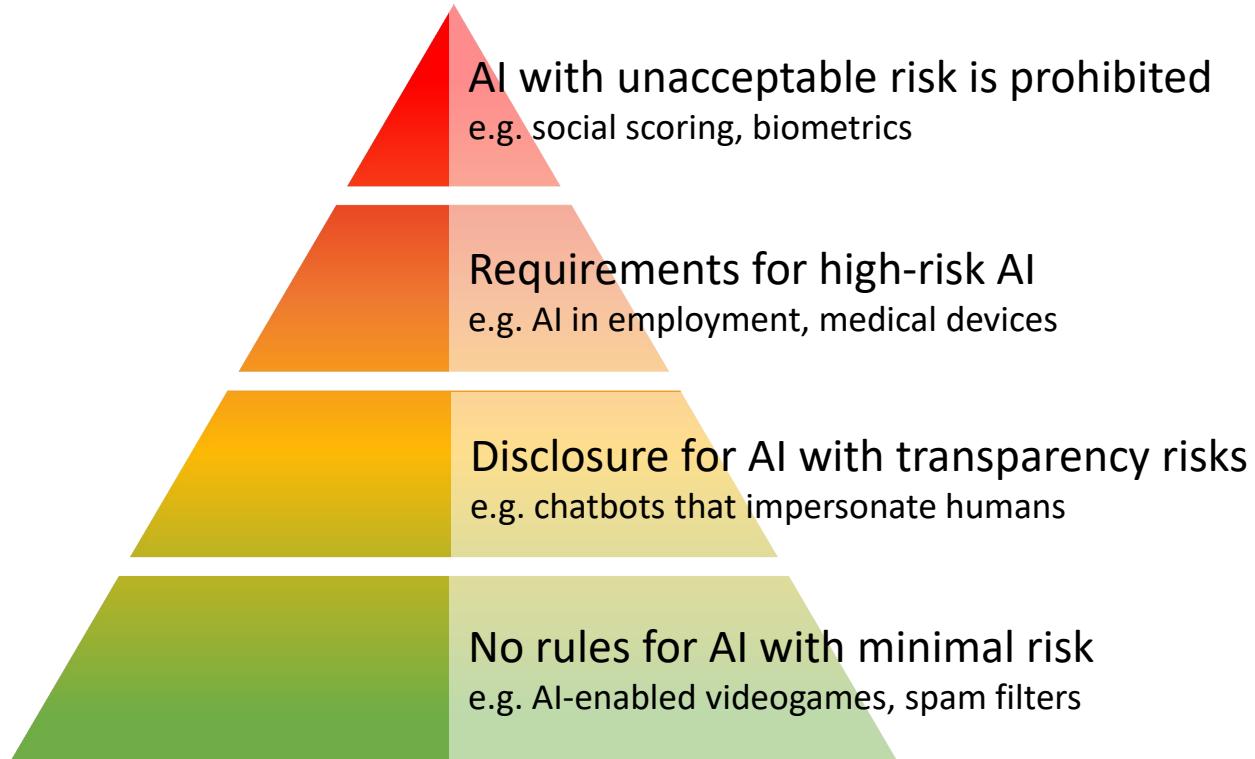
- Proportionate approach, applying rules commensurate to risk
- Covers risks to health, safety & fundamental rights



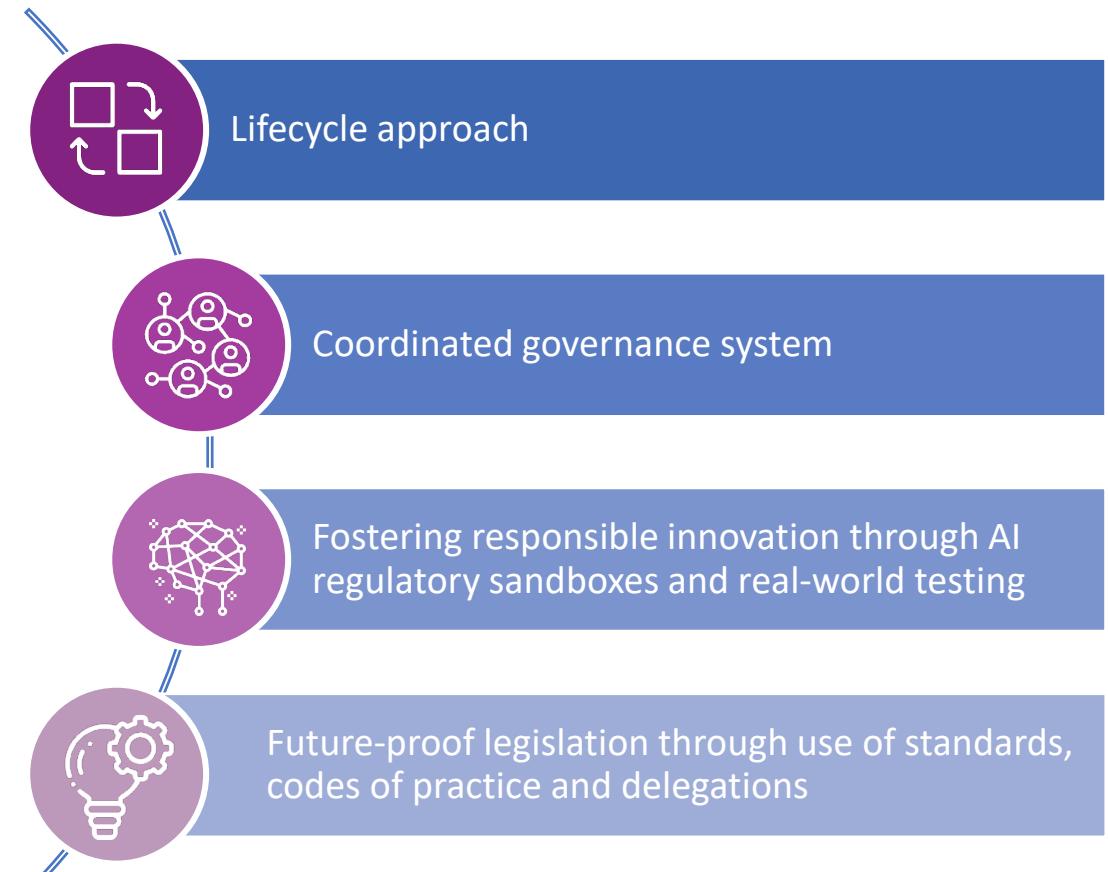
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# EU AI Act – rules for trustworthy AI in Europe

Risk-based rules for AI systems:



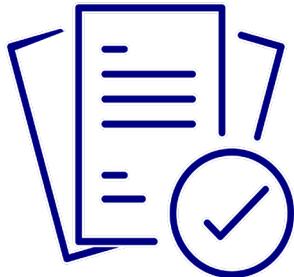
Transparency and risk management for powerful AI models that can be components of AI systems



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# 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

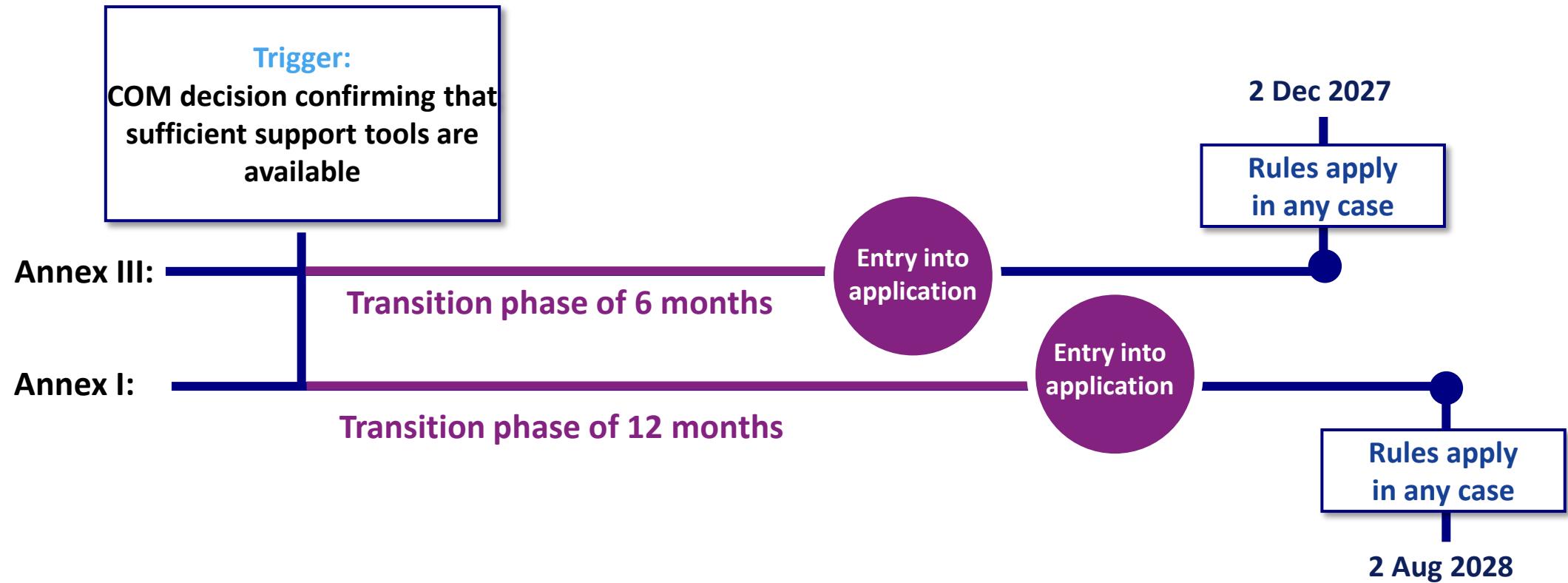


**3. EU BUSINESS WALLETS**  
cutting paperwork and  
easing regulatory burden



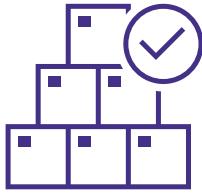
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# Simplification: How does the timeline for high-risk AI work?



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# 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



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# 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>



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# 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

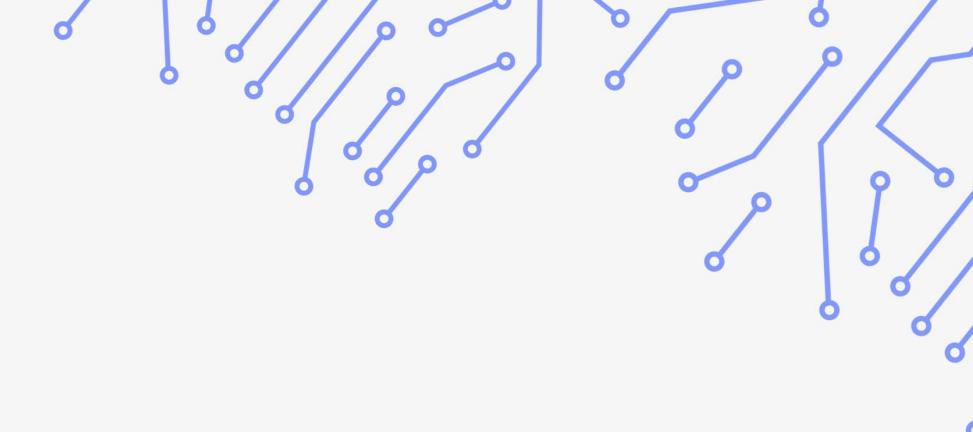
Our [\*\*AI Pact webinars\*\*](#) for an in-depth look into the AI Act

Explore all our activities online:



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Thank you for your attention.



# **FROM MYTH TO MECHANISM: DEMYSTIFYING THE AI ACT**

# 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

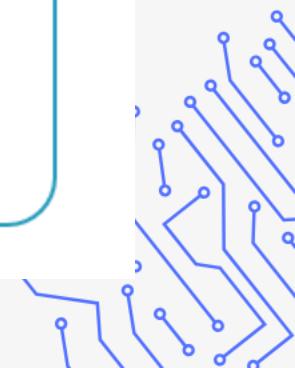


## Our Foundation

- 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



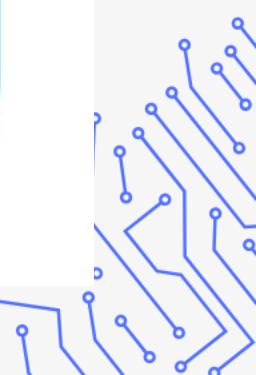
## Vision Zéro AAA

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

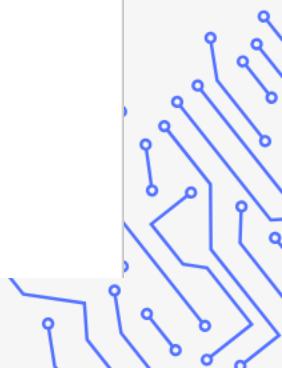
Human mistakes, duplicate entries, inconsistent data quality

## 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



b1

### Document Upload

SDS uploaded to platform

b2

### AI Analysis

System extracts key data

b3

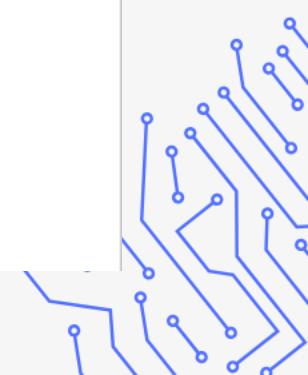
### Pre-Population

Forms filled automatically

b4

### 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



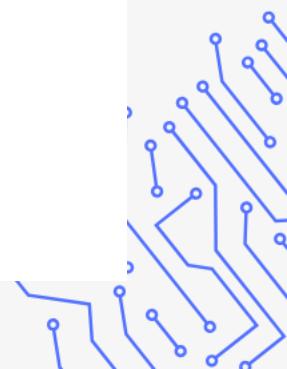
## Hazard Information

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%**

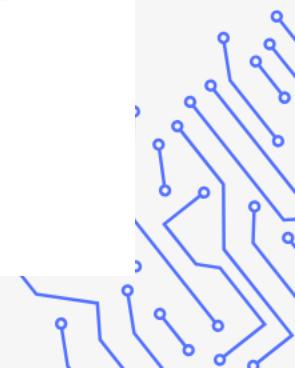
### Time Saved

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**

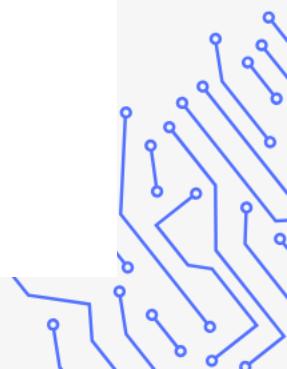
## Human-in-the-Loop

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**

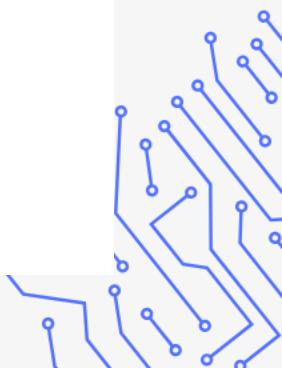
70-80% productivity gains while maintaining full regulatory adherence

### **Human Oversight Essential**

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

**Thank you! Questions?**

*Liliana Grigor - CTO, eSST Luxembourg*





# Dr. Cinzia BERRITELLA

## AI Governance & Innovation Encevo Group



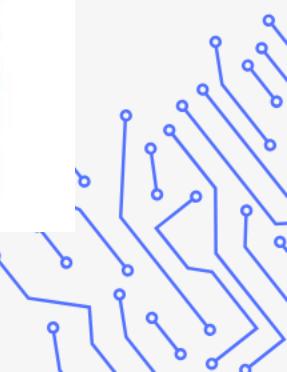
# The Encevo Group



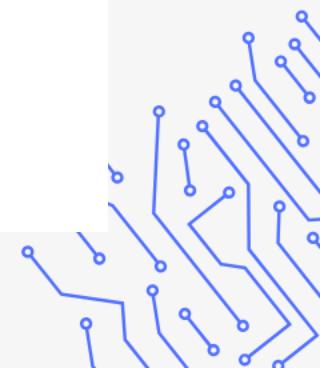
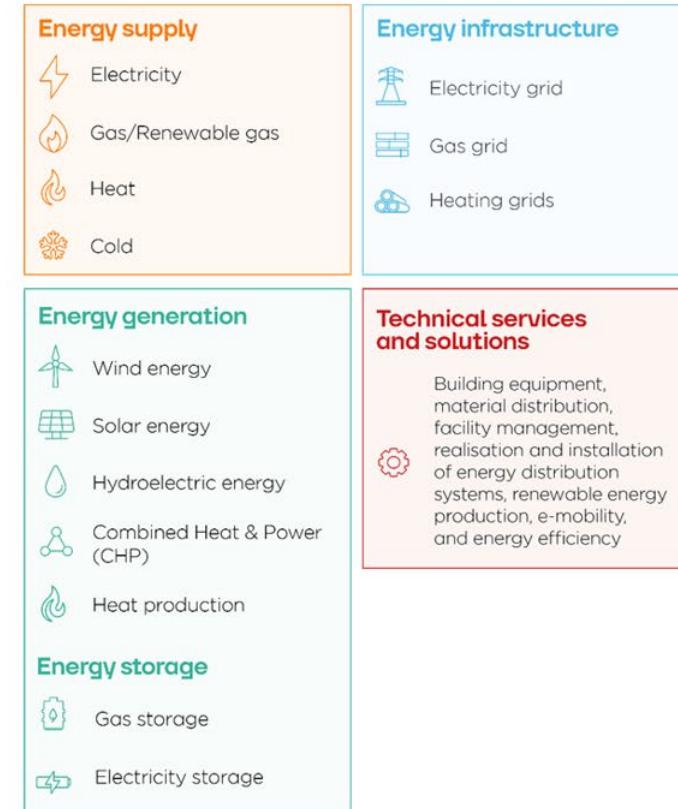
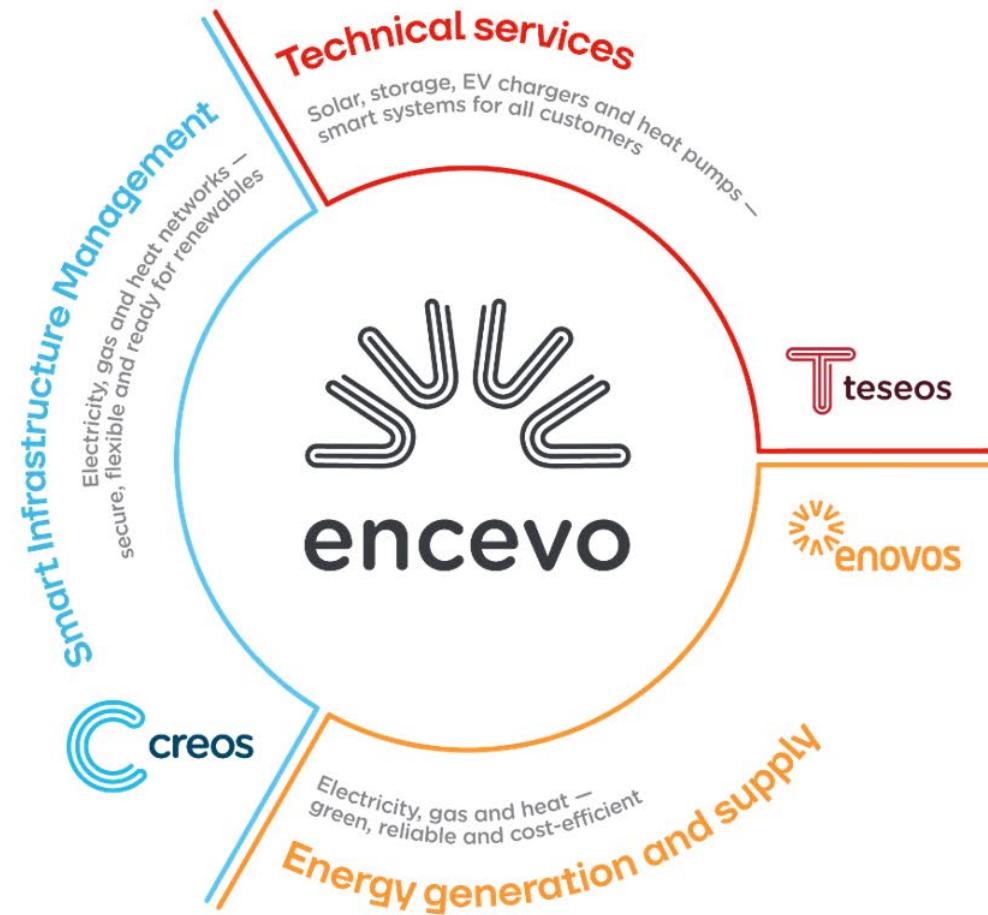
The Encevo Group is the leading energy provider in Luxembourg and a key regional player across the energy value chain, also active in neighbouring countries.

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



# AI Guidelines



**TRANSPARENCY & EXPLAINABILITY**



**INCLUSION & SOCIAL RESPONSIBILITY**



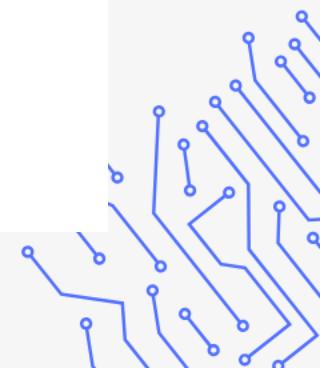
**ACCOUNTABILITY**



**HUMANS IN CONTROL**

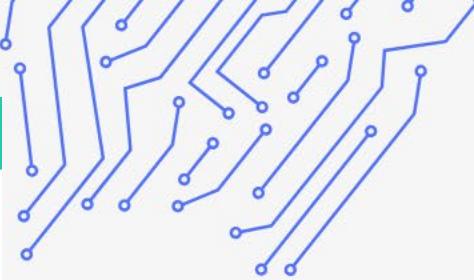


**CONTINUOUS MONITORING**



# A use case from

From email to quotation in a few clicks



## Faster service, fully compliant documentation

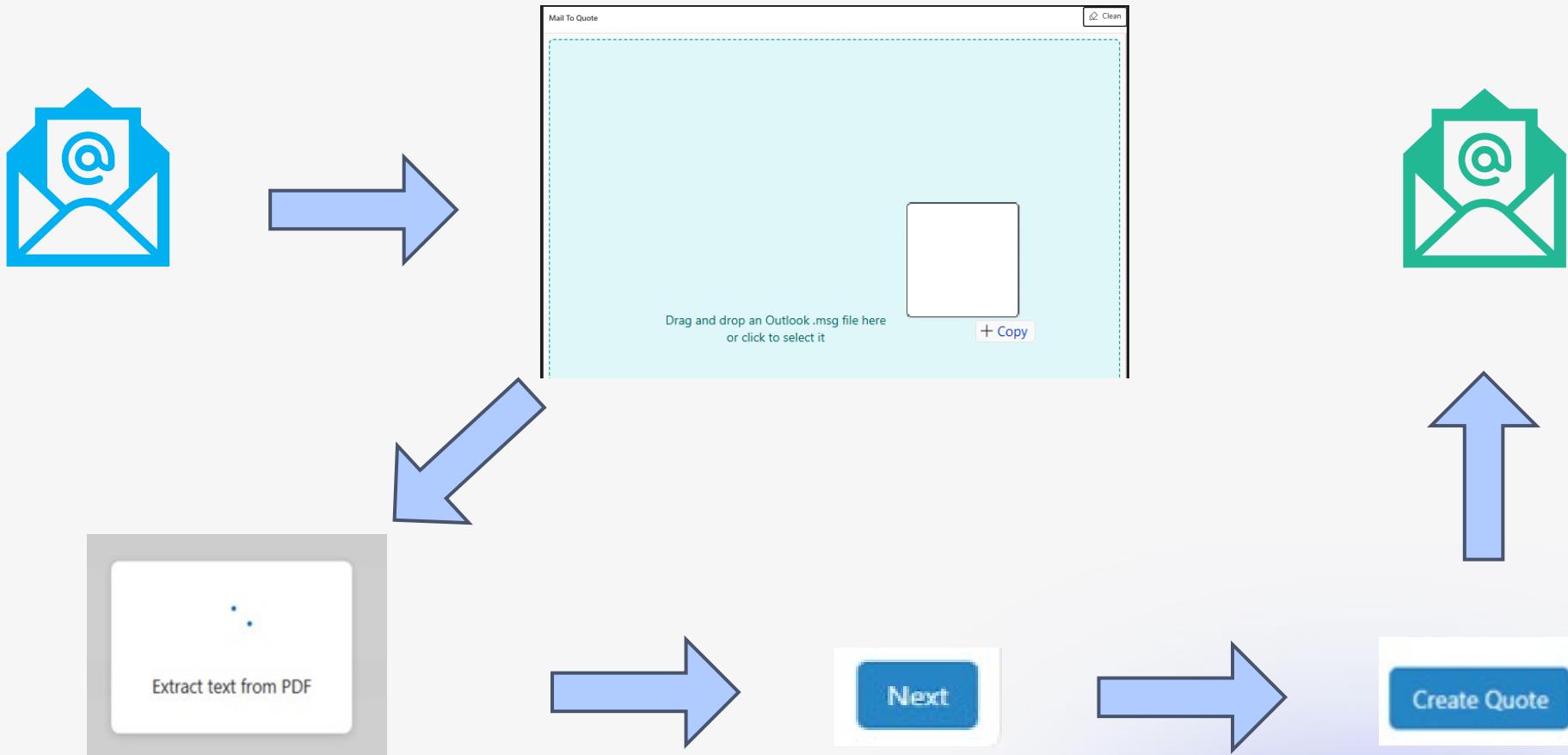
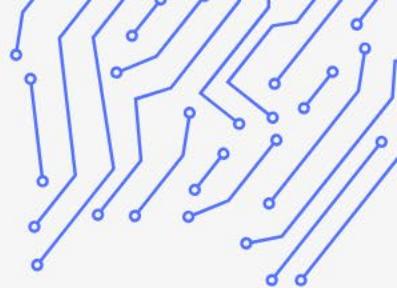
### The Risk

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.

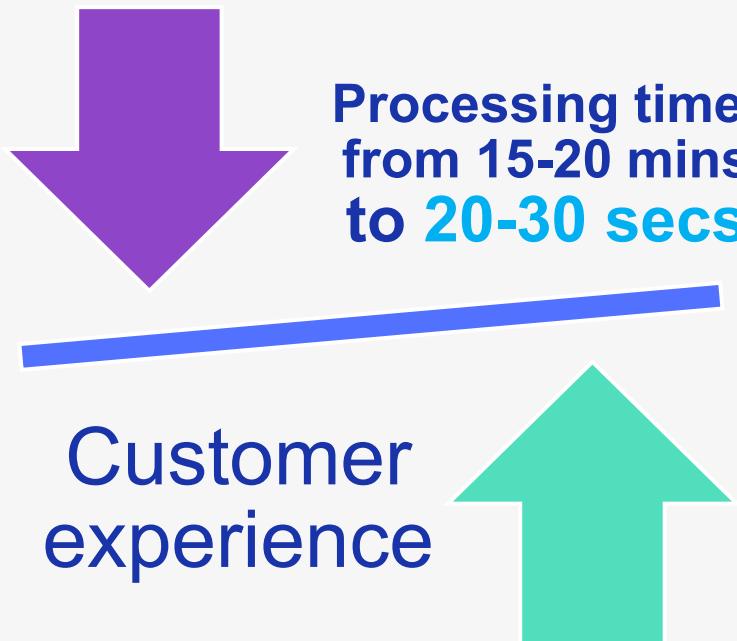
# What does it look like?



## PoC final outcomes

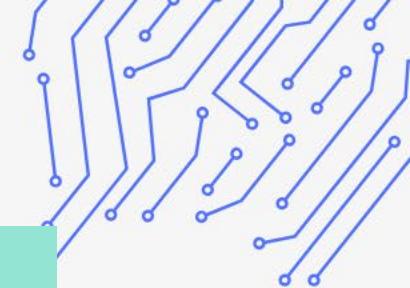


AI Act & Data Security & GDPR compliance by design



**97%**

Efficiency  
Improvement



Driving energy transition

Thank you!



# NAVIGATING THE AI ACT - COMPLIANCE IN PRACTICE

AI Act: how does it apply to me?



**Philippe VALOOGGIA**

National Commission for  
Data Protection (CNPD)

# AI Act: how does it apply to me?

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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



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  
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# AI Act: how does it apply to me?

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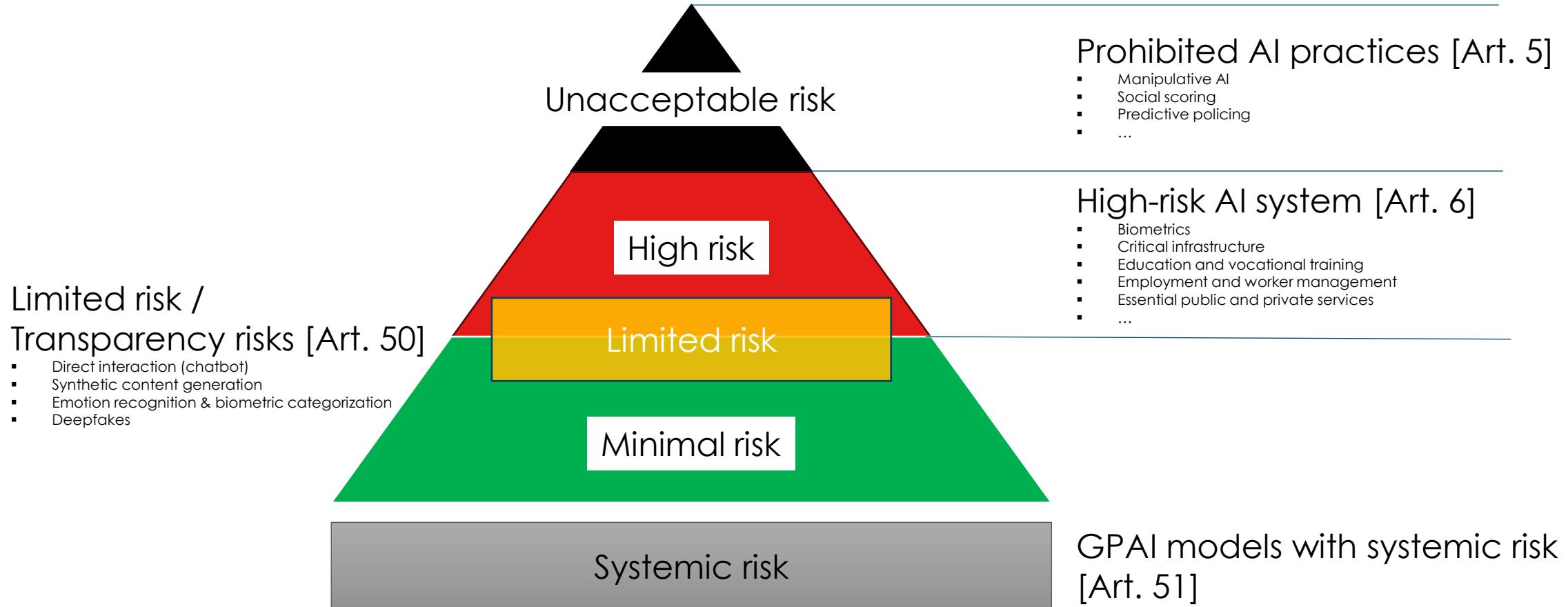


Answering this depends on the following two questions:

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			

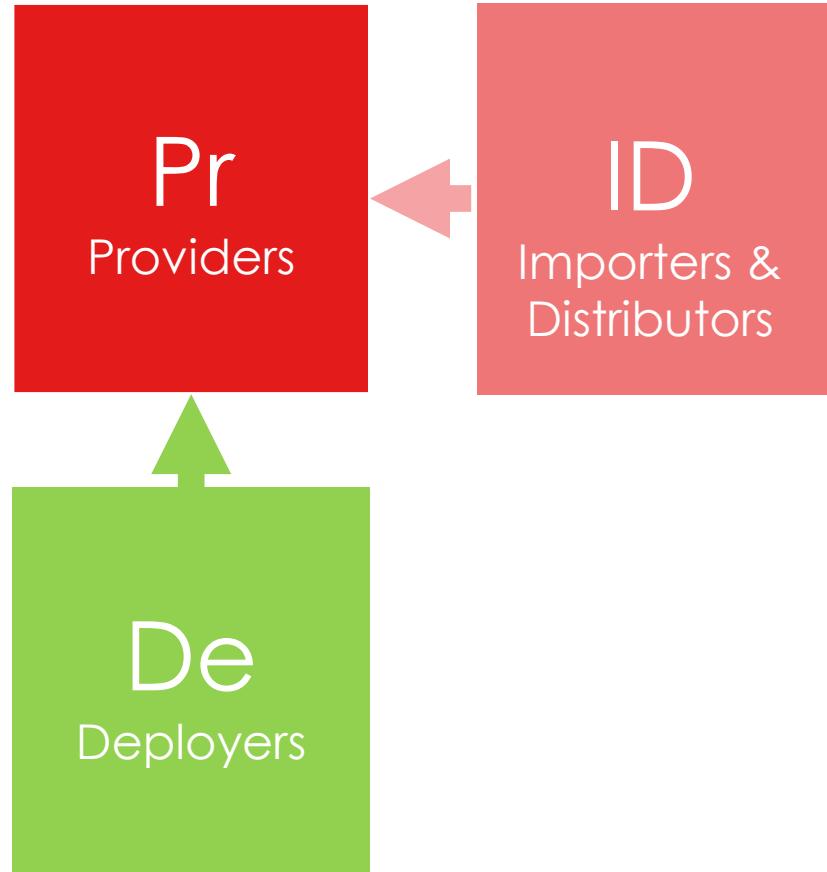
## 2. What are the resulting obligations?

### 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)		
Impact analysis	Art. 26(9), 27		
Registration obligations	Art. 26(8)		
Employees information	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>

- 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  
VALOOGGIA**

National Commission for  
Data Protection (CNPD)



**Dr. Frédérique  
BOULANGER**

Privacy Counsel Luxembourg  
Entities, FERRERO



**Dr. Serge  
LINCKELS**

Digital Learning Hub  
42 Luxembourg

Offre de formation

# Intelligence Artificielle

FAITES DE L'IA VOTRE LEVIER DE  
PERFORMANCE AU QUOTIDIEN

Fondamentaux

Métiers

Secteurs



HOUSE OF  
**TRAINING**



Scannez pour  
découvrir nos  
formations

THE AI ACT IN ACTION

# 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



**Gérard  
HOFFMANN**

CEO & Managing Director  
Proximus Luxembourg

Moderator



**Thierry HOSCHEIT**  
Autorité de contrôle  
judiciaire



**Luc TAPELLA**  
ILR



**Dr. Anna CHIOTI**  
Direction de la Santé



**Alain WAHL**  
ILNAS

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

Making AI innovation work: tips and tools



**Franck NIATEL**

Fujitsu Luxembourg

# Knowledge sharing and best practices



Initially



Over the course



Reinforce initial assessment  
(needs and Architecture)



Foundational Quality Highlighter



Integrate Compliance and Security  
as soon as possible



Embedding full traceability and monitoring  
from day one



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

Making AI innovation work: tips and tools

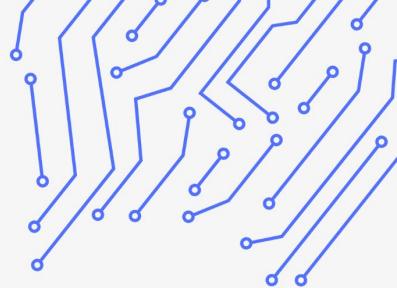


# Daniele PAGANI

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

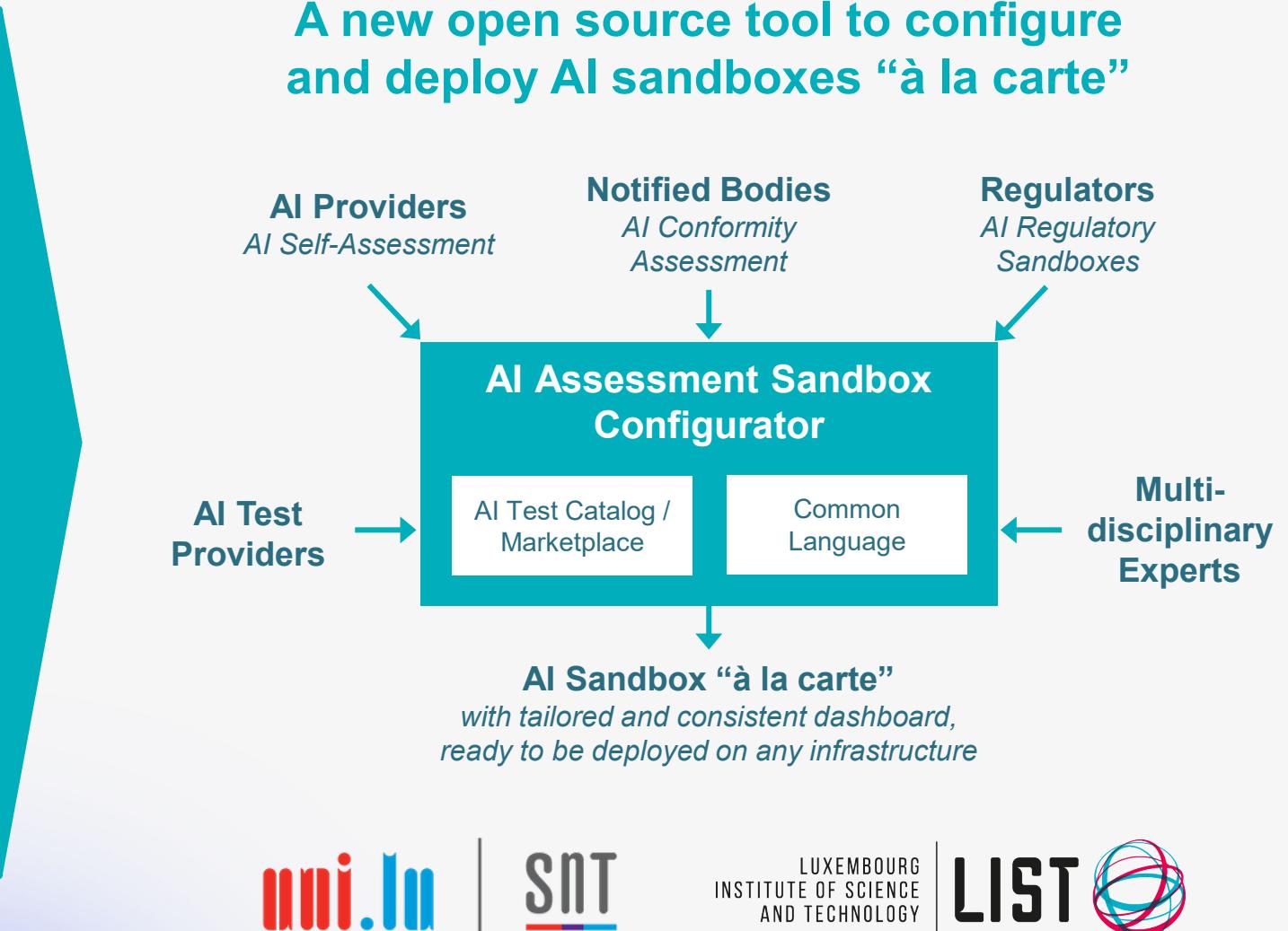
## 2. One size does not fit all

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

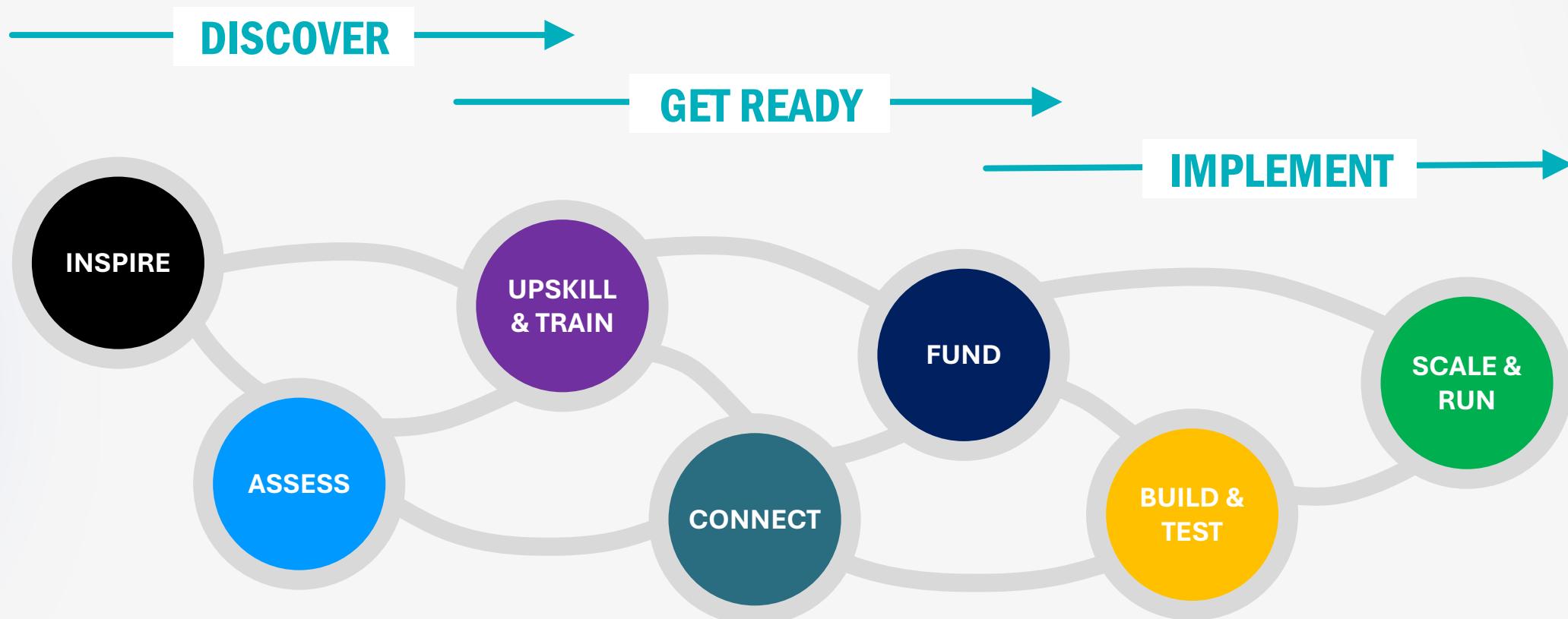
## 3. Multi-disciplinary collaboration

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



Making AI innovation work: tips and tools



**Dr. Emilia TANTAR**

Chief AI Officer

Luxembourg House of  
Cybersecurity (LHC)

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





LUXEMBOURG  
CYBERSECURITY  
FACTORY



LUXEMBOURG  
CYBERSECURITY  
DATA SPACE



LUXEMBOURG  
CYBERSECURITY  
AI HUB



LUXEMBOURG  
CYBERSECURITY  
QUANTUM LAB

Continuum Data- Cybersecurity- Artificial Intelligence -



Industry use cases (verticals)



Quantum.

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**

Data Related Regulation

Three horizontal layers of assessment



Making AI innovation work: tips and tools



# 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

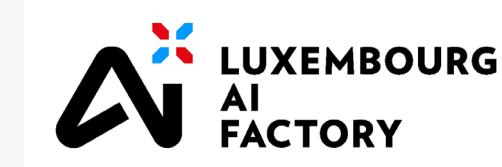
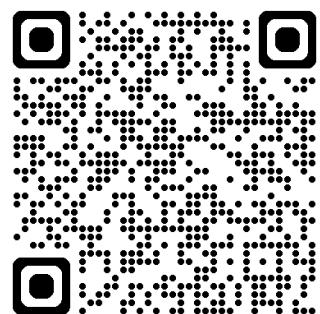
*More information on [www.cnpd.lu](http://www.cnpd.lu)*



## 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

**Making AI innovation work: tips and tools**



**Dr. Esli SPAHIU**

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

# AI Experience Centre

## DELIVERING VALUE THROUGH AI

the  
[LHoFT] Luxembourg House  
of Financial Technology

### KEY OBJECTIVES



#### Showcase AI in Action

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



#### Accelerate Innovation & Adoption

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



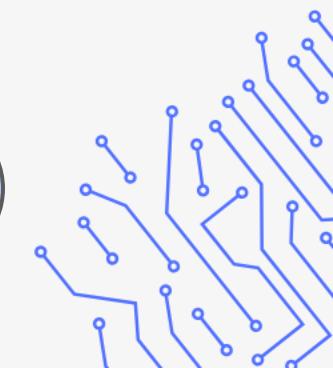
#### Foster Collaboration & Development

Strengthen the collaboration by encouraging open dialogue and partnership



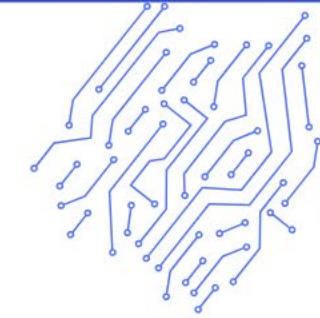
#### Education & Training

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



# AI Experience Centre

## DELIVERING VALUE THROUGH AI



Luxembourg House  
of Financial Technology



### Interactive Simulations

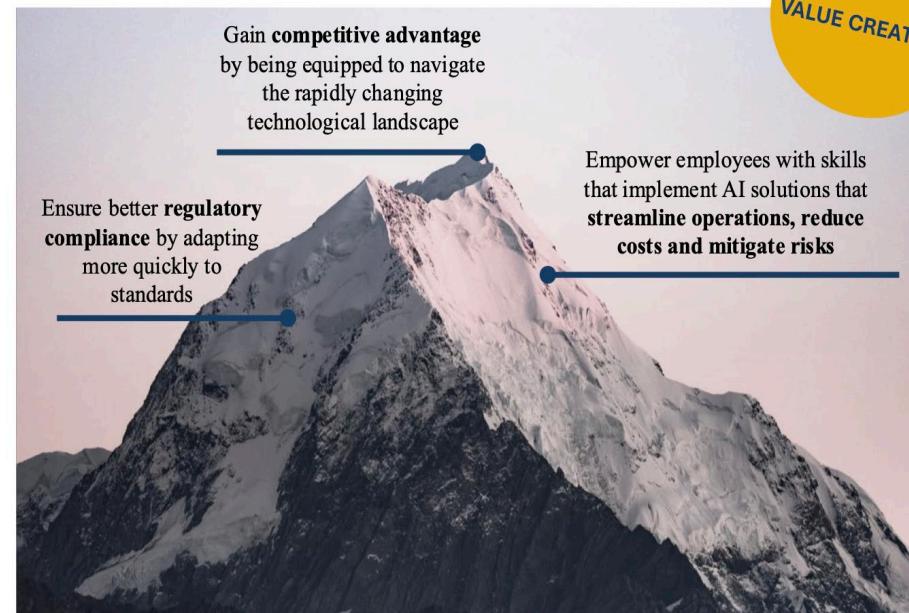
Experience live demos of emerging AI technologies that are actively transforming and reshaping the future of the Finance sector.

### Networking Opportunities

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

### Co-Innovation

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



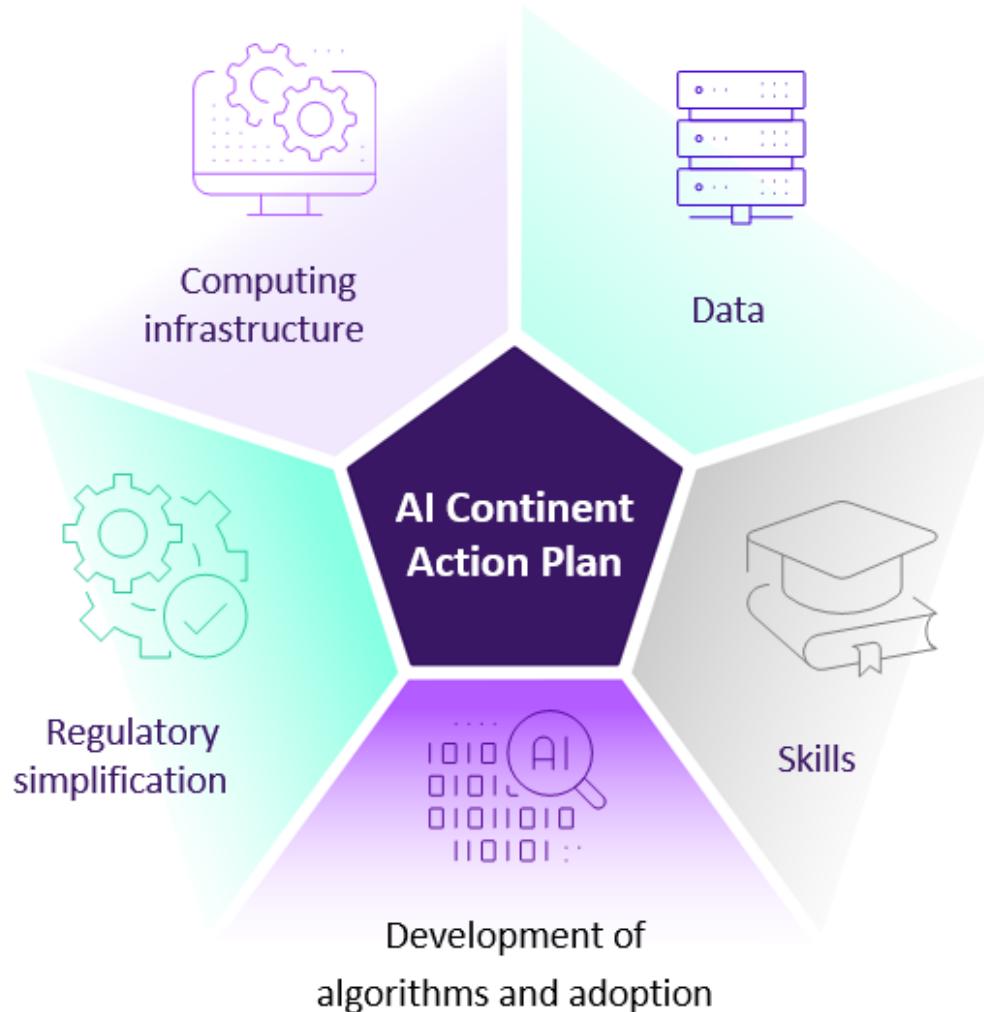
Making AI innovation work: tips and tools



# Dr. Lucilla SIOLI

Director EU AI Office  
European Commission

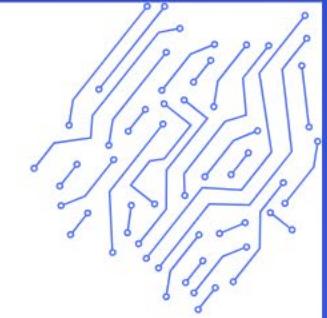
# EU's vision on five strategic dimensions



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**



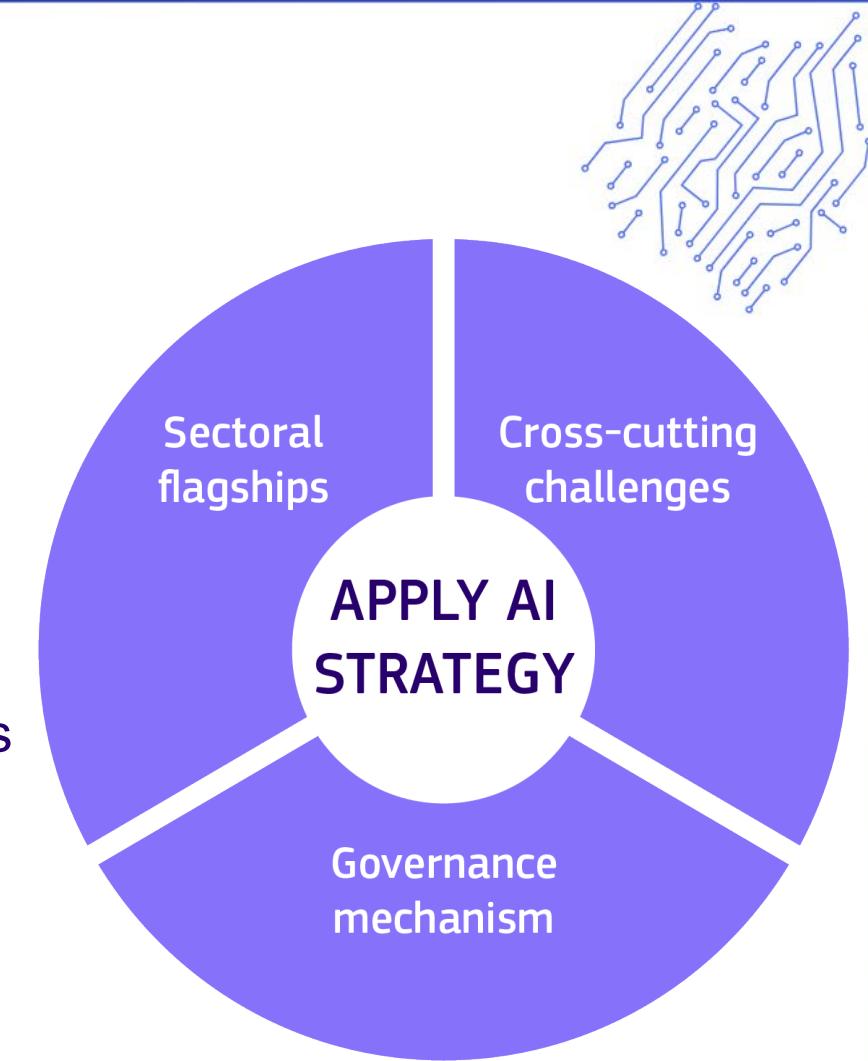
# Apply AI Strategy

- **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