EPSO TRAINING DAY

AI IN REGULATION

MALTA - 15 JUNE 2026

Using Data and AI in Health Supervision: From Insight to Strategy

Date: June 15th, 2026
Location: The Old University of Malta (Valletta Campus) St Paul Street, Valletta VLT 1216, Malta (Maps)
Facilitators: Misja Mikkers (University of Twente), Kavitha Palaniappan (Duke NUS Singapore) and Alex van Vorstenbosch- NZA and Tilburg University - Netherlands & EPSO
Registration: Click here

Overview:
This one-day interactive training equips supervisory authorities with practical and strategic tools to use data and AI responsibly and effectively.

The programme balances:

- Foundational understanding of AI
- Mapping and unlocking existing datasets
- Hands-on exploration using Studio LLM (with simulated data)
- Ethical and strategic governance considerations
-

Participants will:

- Understand what AI is (and is not)
- Identify hidden potential in their organisation's datasets
- Explore how AI can support risk profiling and supervision
- Reflect on governance, ethics, human-in-the-loop design and cost considerations
- Develop medium-to-long term strategies for AI use within their organisations
-

This training combines theory, discussion and guided practical exploration.

Expectations from Participants:

1. Bring a laptop with Studio LLM installed

2. Prepare a 2-page dataset description – each participant must prepare a 2-page description of one dataset from their organisation that they believe has the potential for extended use or AI application. The dataset description can include the following information:

    a. **Basic information:**
        i. Dataset name
        ii. Who collects it?
        iii. Why was it originally collected?
        iv. Frequency of collection
        v. Format (structured, unstructured, mixed)
        vi. Digital or partially paper-based?

    b. **Content description:**
        i. Main variables (or types of information)
        ii. Level of granularity (individual/entity/system level)
        iii. Time coverage
        iv. Estimated size

    c. **Data quality and constraints:**
        i. Known limitations
        ii. Missing data issues?
        iii. Potential biases
        iv. Legal/privacy constraints
        v. Access restrictions

    d. **Current use:**
        i. How is it currently used?
        ii. Who uses it?
        iii. For what decisions?

	Preliminary[1] Programme	
Time	**Session Topics**	**Presenter**
09.45 – 10.00	**Opening Speech and introduction to the training day**	Indra Dreika Director of the State Agency of Medicines of the Republic of Latvia - EPSO Board member
10.00 - 10.10	**Welcome and Overview** of the Day Structure	Jooske Vos
10.00 - 12.00	**Foundations: What is AI and What is Data in Supervision?**	
10.10 - 10.40	**What is AI? (Demystified**) Lay explanation of what is AI, types of AI (rule-based systems, machine learning, generative AI), prediction versus causal inference, strengths and blind spots of generative AI, common traps in regulatory settings.	Asst. Prof. Kavitha Palaniappan
10.40 - 11.10	**What is Data in a Supervisory Context?** Types of regulatory data, structured versus unstructured data, missing data and bias, why and how data was collected matters.	Asst. Prof. Kavitha Palaniappan Some Examples from students of Prof. Misja Mikkers
11.10 - 12.00	**Analytics for Supervisors** Descriptive versus predictive versus prescriptive, risk profiling concepts, signal detection and compliance targeting (Irish example of inspectorate use?)	Prof. Misja Mikkers
12.00 - 13.00	Lunch	12.00 - 13.00
13.00 - 14.45	**Mapping your Data Landscape**	
13.00 - 13.30	Participants sharing on their datasets	Prof. Misja Mikkers & Asst. Prof. Kavitha
13.30 - 14.15	Probing for hidden potential – facilitated discussion	Prof. Misja & Asst. Prof. Kavitha
14.15 - 14.45	Group reflection on what collective tools could benefit the network	Prof. Misja & Asst. Prof. Kavitha
14.45 - 15.00	Tea Break	
15.00 - 16.30	**Practice Session: Using AI safely (Studio LLM Demonstration)**	
15.00 - 15.20	Introduction to Studio LLM Prompt engineering basics, what good prompts look like, limitations.	Prof. Misja Mikkers

15.20 - 16.00	Simulated Exercises Highlight prediction versus explanation, missing data distortions, bias emergence.	Prof. Misja Mikkers
16.00 - 16.30	Limitations and Controls Where can AI go wrong? How to audit AI systems?	Prof. Misja Mikkers
16.30 - 17.30	**Strategy, Ethics and Organisational Design**	
16.30 - 16.50	Core Ethical Principles for Regulators Accountability, transparency, fairness, proportionality, human-in-the-loop, defining boundaries without stifling innovation.	Asst. Prof. Kavitha
16.50 - 17.10	Organisational Strategy The topics can revolve around separate AI team versus integrated model; AI policy in partially paper-based systems, cost considerations and medium-to-long term roadmap	Asst. Prof. Kavitha & Prof. Misja Mikkers
17.10 - 17.30	Final Reflection and Action Points Each participant identifies one short-term step, one medium-term structural change and one ethical safeguard to implement	Asst. Prof. Kavitha & Prof. Misja Mikkers

Please register by using this form.

If you have any questions, please contact us at office@epsonet.eu

[1] The final Programme will be shared with participants