IAPP UK Intensive 2026

Privacy | AI governance | Cybersecurity law

Training 23-24 February
Workshops 24 February
Conference 25-26 February
LONDON

#IAPPIntensive26

Privacy by Design and Default in AI: The Role of Privacy-Enhancing Technologies

WELCOME AND INTRODUCTIONS

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How familiar are you with Privacy-Enhancing Technologies (PETs)?

Not familiar at all

Somewhat familiar (high-level understanding)

Moderately familiar (aware of specific PETs/use cases)

Very familiar (hands-on experience implementing PETs)

Which aspect of PETs are you most interested in?

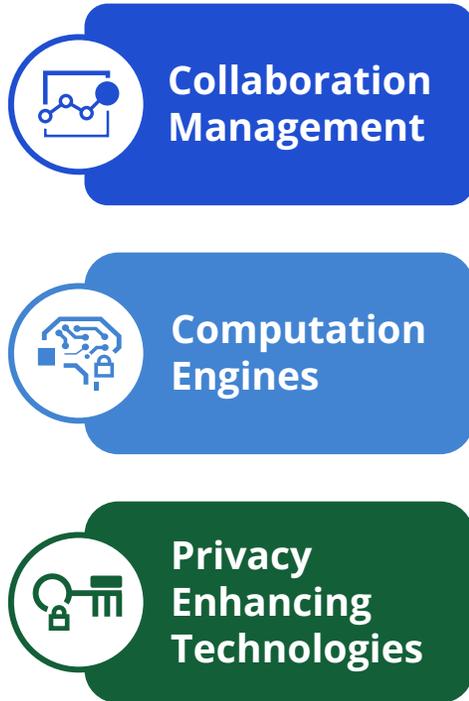|			
Understanding the fundamentals and current capabilities of PETs	How to operationalise PETs in real systems	Regulatory and legal considerations	Future developments and emerging use cases

How does a PETs-enabled approach support Healthcare and Life Sciences?

Collaboration Management

Computation Engines

Privacy Enhancing Technologies

Data with high risk of re-identifiability: Rare Diseases

Data that cannot be de-identified: Genomics

Data that cannot be moved due to regulation: Cross-border collaborations

Data that cannot be moved due to feasibility or cost: Imagery data for AI training and inference

Case Study: Unlocking Cross-Border Rare Disease Research

Background

- Scarcity of rare disease cases means no single country has the data they need

- Cross-border research constrained by privacy, security, data sovereignty

- Duality enables researchers in different geographies to collaborate while respecting each organization's compliance needs
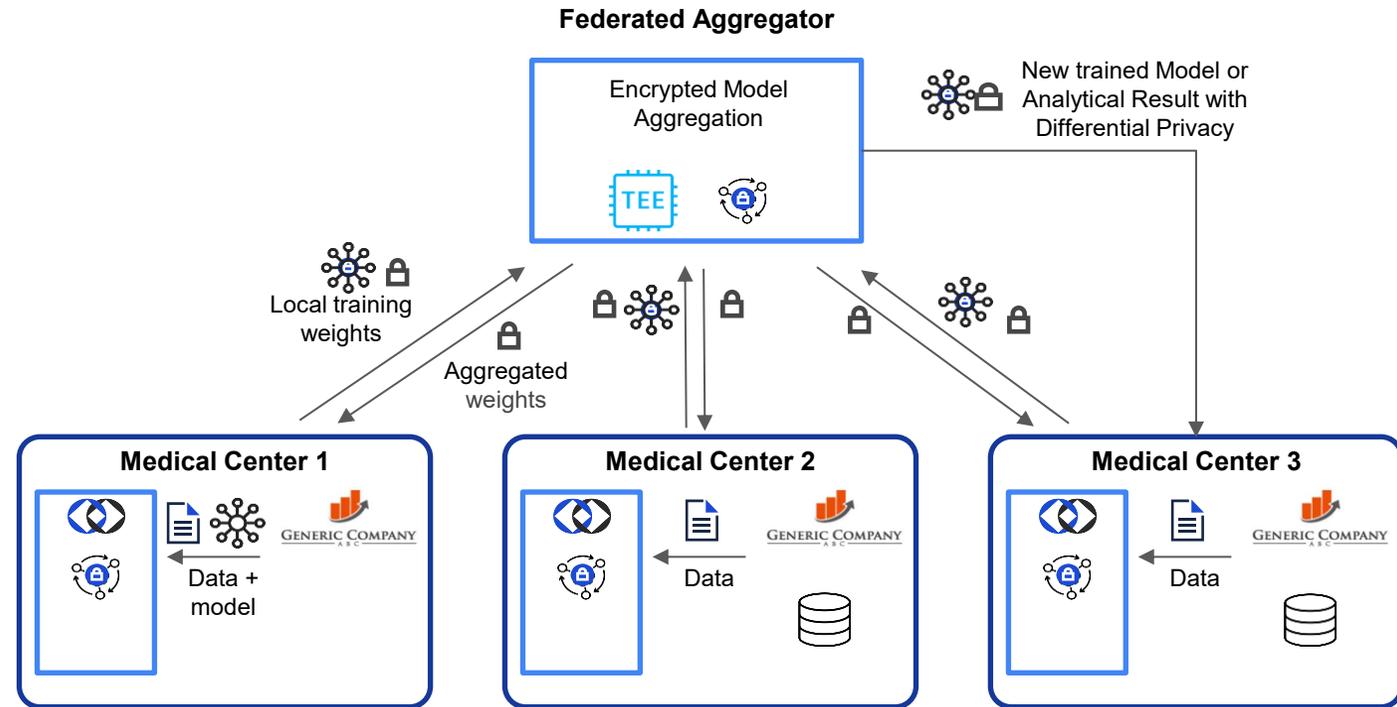
Benefits

- Speed to Data: Legal & Compliance approval in ~6 weeks

- Reduced Compliance Burden: Data considered anonymised and no need for International Data Transfer Agreements or Transfer Risk Assessments

- Higher research value: Huge reduction in standard deviation and hundreds of research questions answered

- Democratisation of data access and research

- Scalability to include other countries, data types, and analyses

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Duality Collaborative AI In Healthcare

- Workload distributed across participants

- Analyses and Training done locally, data never moves

- Weights and intermediate results encrypted in transit and protected by Trusted Execution Environment during runtime

- Results sent to the relevant participants per collaboration agreements

- Differential Privacy can be used when releasing results

Federated Aggregator

Encrypted Model Aggregation

TEE

New trained Model or Analytical Result with Differential Privacy

Local training weights

Aggregated weights

Medical Center 1

Data + model

GENERIC COMPANY

Medical Center 2

Data

GENERIC COMPANY

Medical Center 3

Data

GENERIC COMPANY

CIPL Key Resources on Privacy-Enhancing Technologies

Privacy-Enhancing and Privacy-Preserving Technologies: Understanding the Role of PETs and PPTs in the Digital Age

December 2023

Privacy-Enhancing and Privacy-Preserving Technologies in AI: Enabling Data Use and Operationalizing Privacy by Design and Default

March 2025

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How Did Things Go?
(We Really Want To Know)

Did you enjoy this session? Is there any way we could make it better? Let us know by filling out a speaker evaluation.

1. Open the IAPP Events app.

2. Select **IAPP Intensive 2026**.

3. Tap "Schedule" on the bottom navigation bar.

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5. Once you've answered all three questions, tap "Done".

Thank you!