Demystifying the regulatory landscape

















INDUSTRY



A small sample of the expanding regulations

Common areas are emerging

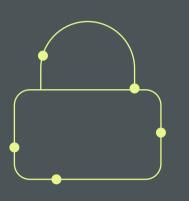


Data residency

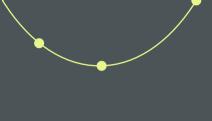
Consent, transparency,



Individual data rights



Security



Privacy

Data integrity & quality

& purpose

Clear and explicit consent before data collection, informing about data use, purpose, and third-party sharing.

Protection & security

Implement robust security measures, preserve the integrity and consistency of data.

Right to access, rectification,

erasure, and limitations on automated decision making.

Governance & accountability

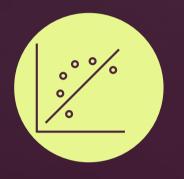
Demonstrate compliance with regulations, internal data protection policies, assessments and organizational measures.

Data minimization – collect only what's necessary – and ensure data is accurate and up-to-date.

Ethical & responsible use

Ethical and responsible use of data in AI and automated systems, with stricter requirements for sensitive data such as health or financial data.

New opportunities are already here...



Commercializing data for ML unlocks business value



Foundation models make AI more accessible than ever



Data is unlocked to solve business, societal, and global challenges

New challenges are appearing...



Privacy risks resulting from efforts to monetize data¹



Balancing localization requirements with business needs¹



Immaturity in managing privacy through use of Al¹



Model-memory results in data privacy breaches



No major foundational model providers comply with the proposed EU AI Act²

Compliance risks already exist...



fines issued under GDPR (as of August 2023)³



the global average cost of a data breach in 2023⁴

large healthcare data breaches have been reported⁵

Navigate the regulatory landscape





Permitted data access and use complies with consent



Data residency requirements are met and data transfer complexities avoided

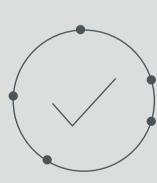


Activity is monitored and audited to ensure it's being used as intended



Requirements around transparency, bias, and fairness are met through use of real-world, representative data

Federated computational governance for private, secure ML



Federation

Keep data local to meet data residency and sovereignty requirements. Send computations to data to avoid sharing.

Federation - don't move data



Governance

Set and audit asset policies that ensure security and data privacy at the computational level. Revoke policies at any time.

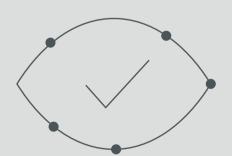
Governance Portal - stay in control of who does what with your data



Security

Access controls and permissions ensure only allowed computations run on data. Log activity for traceability.

Trust Center – best practice for compliance with regulation

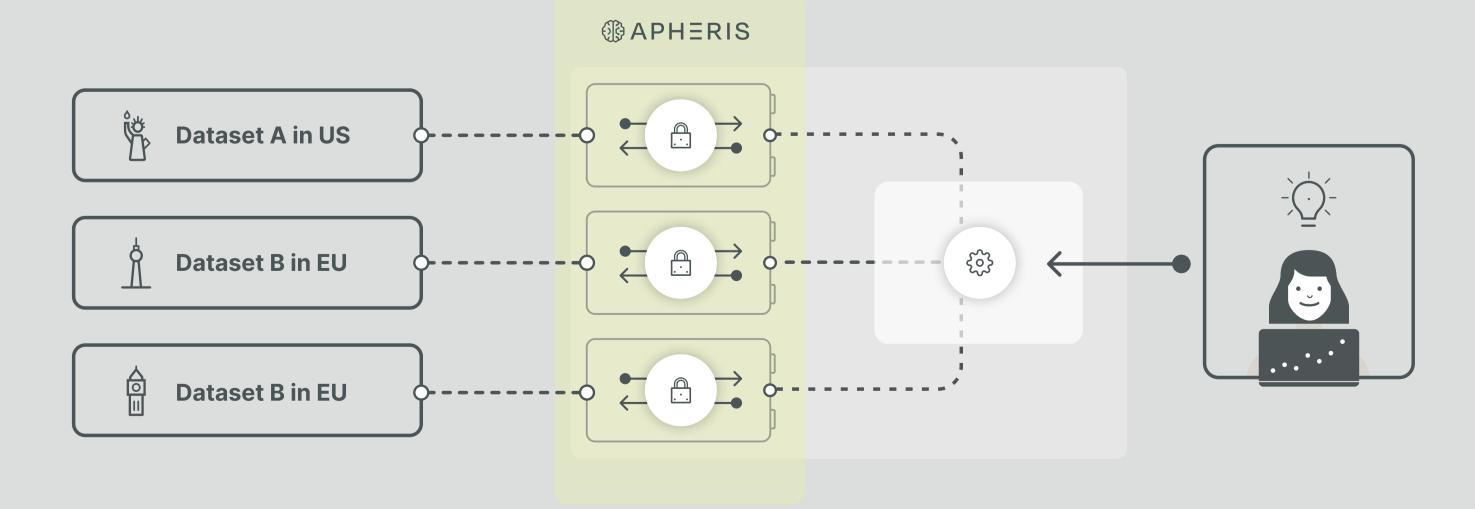


Privacy

Apply privacy techniques according to your requirements. Review and approve or reject compute jobs to ensure compliance.

Model Registry – categorized model cards provide a privacy and security evaluation

Built to successfully balance innovation and compliance



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Data stays local to meet residency requirements. Provision only necessary data to meet data minimization.



Inspect compute requests and approve what is run on your data in accordance with compliance obligations.

Define and set asset policies to control what can be run on your data. Revoke policies at any time.



Ensure data security with encryption at rest and in-transit, no ingress, and role-based access control.



Audit and trace all activity on your data to meet traceability requirements.

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Only privacy-preserving results are returned by employing the right privacy controls and to avoid models being subject to data privacy regulation.

Ready to delve deeper into compliant computational access to data?

apheris.com info@apheris.com



References

- 1 Privacy Risk Study 2023
- 2 Do Foundation Model Providers Comply with the Draft EU AI Act?
- 3 Enforcement tracker
- 4 Cost of a Data Breach Report 2023
- 5 June 2022 Healthcare Data Breach Report