

The European Health Data Space (EHDS) Regulation was officially published in the Official Journal of the European Union on 5 March 2025: it entered into force 20 days after publication, on the 25 March 2025.


It is a binding EU regulation that creates a unified legal, technical, and governance structure for accessing and using electronic health data across the 27 EU member states.

Approximately **450 million people**, and their data, will be included in this regulation.

Key logistics of the regulation



Data will be accessed through a **cross-border digital infrastructure: MyHealth@EU**



EU-wide standards for data sets, security, interoperability, and identification will be set



Governance bodies for oversight, issue-resolution and coordination will be set up



All health-data collecting bodies will adopt a **standardised, interoperable format for EHRs**



All EHR systems should integrate **certified components** for data compatibility and logging



Non-compliant systems will face penalties

Outlined timeline 2025-2035

2025: Regulation enters into force; start of annual progress reports

2027: Full applicability begins (legal obligations of EHDS become enforceable)

2029: Implementation of first data categories (allergies, vaccines, and imaging data)

2031: Implementation of remaining data categories (lab results, discharge summaries)

2033: Targeted evaluation

2035: Overall evaluation

Benefits

For individuals

- Healthcare professionals across borders can access a patient’s electronic health data to support continuity and quality of care.
- Individuals have the power to access, rectify and restrict their health data—including the option to opt-out of sharing data beyond the provider who originally provided treatment
- Vulnerable groups have proxy access and support
- Digital health literacy and support services for citizens must be developed


For research

- Access to large, diverse, and population-level datasets, improving the statistical power and generalisability of research.
- Comparative analysis of healthcare utilisation, clinical effectiveness and care pathway optimisation.
- Real-time monitoring of drug reactions and long-term medication safety using population-scale health data.
- Enhances trial efficiency and diversity by identifying eligible populations more easily.
- Multi-state data pool enables faster discovery of patterns and treatment options for small patient populations
- High-quality, structured health data to train and validate clinical decision-support tools and diagnostic algorithms.


For policy makers

- High-quality, aggregated data for evidence-based policymaking, evaluation of public health interventions, and cost efficiency of health-related public services
- Enables early detection tracking and response to health threats or environmental health risks.
- Supports research into health inequalities and access gaps
- Improves cross-border coordination and data-driven collaboration
- Strengthens digital governance through EU-wide standards and oversight
- Enhances transparency and accountability in data use


Challenges




Data trust and privacy: Ensuring patient confidence in sharing sensitive data.




Interoperability and infrastructure: Outdated systems and uneven digital maturity across EU.




Data quality and cybersecurity risks: Inconsistent records and heightened exposure to cyber threats.



Compliance and rollout pressures: Heavy burdens on providers and tight implementation timelines.



Funding demands: Long-term investment needed for systems, training, and support.



Stakeholder engagement: Requires digital literacy, clinician training, and careful balancing of interests.