HEREDITARY World Café

16th October, 2025

Brain Innovation Days is an EBC-led two-day event taking place in Brussels once a year to bring the EU Brain Community and the private sector together to foster dialogue, investment in brain research and business opportunities. This year marks the fifth edition of the event themed "The Adaptive Brain in a Fast-Evolving World".

Aiming at fostering collaboration and ideas generation in an informal setting, the **HEREDITARY World Café** will take place in **the morning of the 16th of October 2025.**

A creative space featuring a coffee/tea bar corner will accommodate multiple tables – each addressing a specific topic. At multiple discussion tables, professionals dedicated to leveraging health data for practical, patient-centered solutions will address key questions, approaching the challenges from their distinct professional perspective and backgrounds.

After some minutes, each of the table will host new guests with new insights. At the end of the day, a HEREDITARY project representative will report back the discussions on the main stage of the Brain Innovation Days!

Preliminary questions and topics:

- **What actions are needed for diverse health data sources to effectively improve care and innovation?** *Exploring interoperability, standardization, and integration of EHRs, wearables, genomics, and social determinants of health.*
- **What collaborative pathways can accelerate the translation of cutting-edge research into practical, scalable healthcare solutions?** *Focusing on academia-industry partnerships, public-private consortia, and translational research hubs.*

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- **How can we ensure comprehensive, high-quality, and representative data collection across all patient populations and care settings?** *Addressing disparities in data collection, rural and underserved populations, and inclusive trial design.*
- **What strategies will help us identify and integrate critical but often overlooked data when developing new treatments or interventions?** *Including patient-reported outcomes, behavioural data, and environmental exposures. Biological validity and not only reliability should be the focus.*
- **How can we design and implement AI-powered health solutions that are intuitive, accessible, and meet the needs of both clinicians and patients?** *Balancing usability, explainability, and clinical workflow integration. Biological validity and not only reliability should be the focus.*
- **What approaches can break down silos and foster effective data sharing and collaboration across organizations, disciplines, and sectors?** *Exploring federated learning, data trusts, and cross-sector governance models.*
- **How can we collaboratively ensure the ethical, secure, and transparent collection and use of sensitive health data to build and maintain public trust?** *Focusing on consent models, data stewardship, and community engagement.*

On Regulation, GDPR & Research Impact:

- **How do current data privacy regulations, such as GDPR, shape the boundaries of health research and innovation in Europe and beyond?** *Examining the balance between individual rights and societal benefit in data-driven healthcare.*
- **What are the unintended consequences of GDPR and the European Health Data Space (EHDS) on medical research, and how can we mitigate them?** *Discussing delays in data access, legal uncertainty, and the risk of stifling life-saving innovation.*
- **Can overly restrictive data privacy frameworks inadvertently cost lives by delaying or blocking critical medical research?** *A provocative look at the ethical trade-offs between privacy protection and the urgency of medical breakthroughs.*