Horizon Europe Work Programme 2025
Cluster 1 GenAI4EU topics

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Cluster 1 GenAI4EU Topics

- **Destination 4:** Ensuring equal access to innovative, sustainable, and high-quality healthcare
- **Destination 5:** Developing and using new tools, technologies and digital solutions for a healthy society
- **Cluster 1 Info Day:** https://research-innovation-community.ec.europa.eu/events/3F0n7H46ft6PlJqQPaRmIt/overview

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Destination 4 GenAI4EU topic – Single stage

- HORIZON-HLTH-2025-01-CARE-01:
  End user-driven application of Generative Artificial Intelligence models in healthcare
- Closure: 16 Sept 2025
- Instrument: RIA
- Tot: 40M€
- Project size: 15-20M€

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End user-driven application of Generative Artificial Intelligence models in healthcare (GenAI4EU)

Expected outcome (contributing to **all the following** elements)

- **Healthcare professionals**, at all stages of healthcare provision, have access to **user-centric**, **robust** and **trustworthy virtual assistant solutions** based on **Generative Artificial Intelligence** (AI) models and other AI tools to support them towards the provision of **safer**, more **efficient** and **personalised care**.
- Healthcare professionals benefit from **cross-country applicable methodologies** with the aim to facilitate **acceptability**, **healthcare uptake** and **public trust** of **virtual assistant tools** based on Generative AI models.
- **Patients** benefit from **enhanced outcomes**, **more personalised care**, and **increased engagement** with their healthcare professionals, leading to improved **safety**, **quality of care**, **access to appropriate healthcare information** and **patient-doctor communication**.
- **Healthcare systems** benefit from improved **cost-effective patient outcomes**, superior to standard of care in terms of **accuracy**, **safety**, and **quality**, and from **cost-savings** through advancements in highly **accurate**, **transparent**, **traceable**, and **explainable** solutions.

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End user-driven application of Generative Artificial Intelligence models in healthcare (GenAI4EU)

Scope (include **all the following** activities)

- Develop **virtual assistant solutions** based on new or optimised **trustworthy** and **ethical Generative AI models**, augmented by other AI tools to **support healthcare professionals**.
- Demonstrate the **added-value** and **clinical utility** of the virtual assistant solutions in at least **two healthcare use cases** in **different medical fields** and unmet needs.
- Develop a **regulatory strategy/interaction plan** with regulators (including in the area of Health Technology Assessment) for **generating evidence**, where relevant, in a timely manner.
- Develop or adapt existing methodologies for continuous assessment of the developed solutions. The methodologies should demonstrate technical robustness, healthcare utility and trustworthiness of the Generative AI-based solutions.

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Destination 5 GenAI4EU topic – Single stage

- HORIZON-HLTH-2025-01-TOOL-03:
  Leveraging multimodal data to advance Generative Artificial Intelligence applicability in biomedical research
- Closure: 16 Sept 2025
- Instrument: RIA
- Tot: 50M€
- Project size: 15-17M€

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Leveraging multimodal data to advance Generative Artificial Intelligence applicability in biomedical research (GenAI4EU)

Expected outcomes (**all of the following** elements)

- Researchers, including clinical researchers, have access to **robust**, **trustworthy** and **ethical Generative Artificial Intelligence (AI) models** able to effectively advance **biomedical research** towards predictive and personalised medicine.
- Researchers, including clinical researchers, know how to use Generative AI models to **synthesise** the available **scientific information** and **large-scale multimodal data** and how to apply the necessary **precautions**, in order to deliver new **knowledge** and **breakthrough scientific discoveries**.
- Research community benefits from advanced methodologies to assess the **validity** and **application** of **accurate**, **transparent**, **traceable**, and **explainable** Generative AI models.

Leveraging multimodal data to advance Generative Artificial Intelligence applicability in biomedical research (GenAI4EU)

Scope (address **all of the following** activities)

- Develop new or re-purpose existing **Generative AI models** for biomedical research **across** various **medical fields** and/or **therapeutic indications**. The models should be robust, based on the use of **large-scale**, **complex**, and **multimodal high-quality data**.
- Develop a proof of concept with at least two use cases relevant for **predictive** and **personalised medicine** in different medical fields to demonstrate the **scientific added value** compared to currently used methods and/or potential future **clinical utility** of the Generative AI models in biomedical research.
- Develop or revise existing methodologies to **assess alignment with human values** and the use cases of developed and/or repurposed Generative AI models, their **applicability**, **performance**, **limitations** and **added value** in biomedical research. These methodologies should demonstrate the **technical**, **scientific**, and potential future **clinical utility**, **robustness** and **trustworthiness** of the developed or repurposed Generative AI models.