



GenAI4EU: Creating European Champions in Generative AI -Healthcare use case

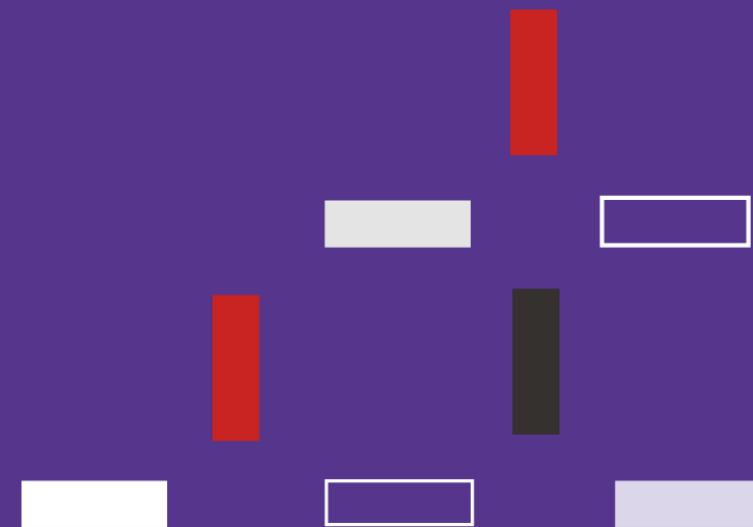
EIC Info Day, Brussels – 6. Nov. 2024

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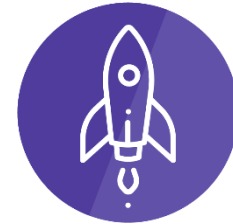
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GenAI4EU: Creating European Champions in Generative AI

- The aim of this Challenge is to support start-ups and SMEs committed to bringing transformative AI-driven solutions to market.



- **Indicative budget:** EUR 50 million

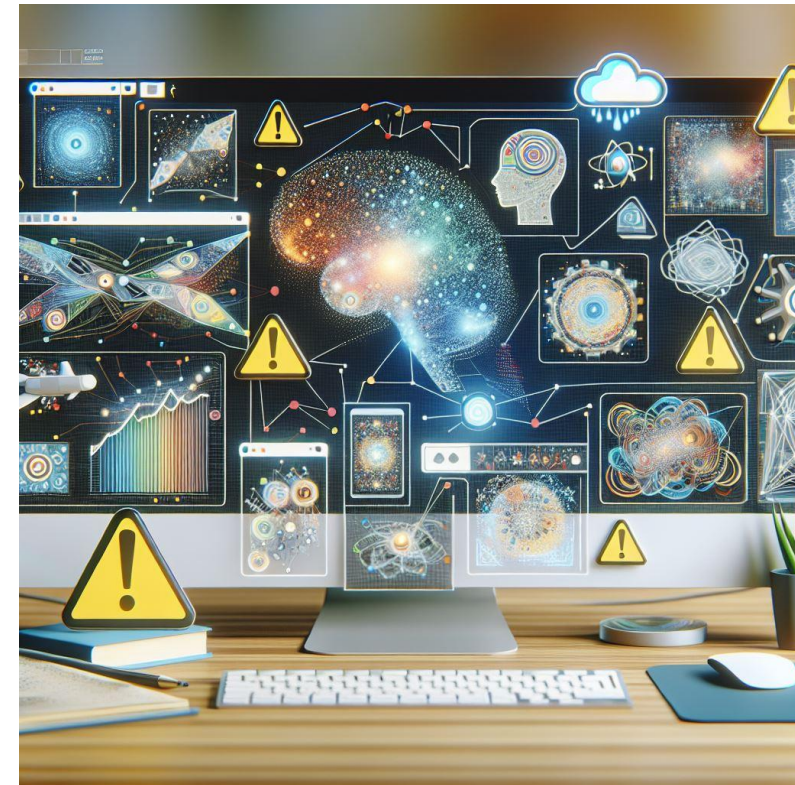


- Deadlines
 - *Short applications:* any time (continuous)
 - *Full applications:* **12 March 2025, 1 October 2025**



Generative AI Challenges

- **Unexplained inaccuracies (hallucinations)**
- **Lack of transparency and accountability**
- **Trust and reliability concerns**
- **Critical in advanced applications:**
 - Greater scale and integration needed
 - Sensitive settings (e.g., clinical workflows, critical infrastructure management)



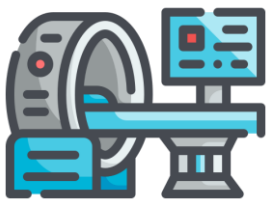


Call Specific Objectives

This Challenge will support start-ups and SMEs that are either:

- Further developing and validating *new GenAI models*;
- *Adapting existing models to specific sectors or types of data* where smaller faster and more energy-efficient models would also be applicable;
- *Integrating the GenAI solutions in existing workflows*, and *testing* these in regulatory sandboxes and real-life settings, including certification and post-market surveillance, as appropriate.

Eight areas: Healthcare, Energy, Security, Public Sector, Cultural and Creative Sectors and Industries, Manufacturing, Education, Science



Healthcare: Human-AI interaction in Radiology



Develop AI-powered tools to automate and enhance the efficiency of radiology report generation.



Design solutions for workflow optimization, focusing on triaging and prioritizing imaging studies.



Ensure accuracy and consistency (quality assurance) for AI-generated reports, including results integrated from other AI applications.



Boost productivity and alleviate workflow bottlenecks.



Facilitate seamless clinical integration with existing RIS, PACS, EHR systems, and other infrastructure.



Energy

Managing the power grid, alongside the storage and use of renewables by grid operators,

Delivering safe, real-time decision making to enhance resilience and planning for energy





Security

Supporting security professionals to scale their work in threat and vulnerability detection and the subsequent response threats including those operating critical infrastructures

Supporting fault-tolerant, high quality and secure AI systems





Public sector

Improve the quality, ease of access and efficiency of public services

Increase the efficiency of public administration services and productivity.



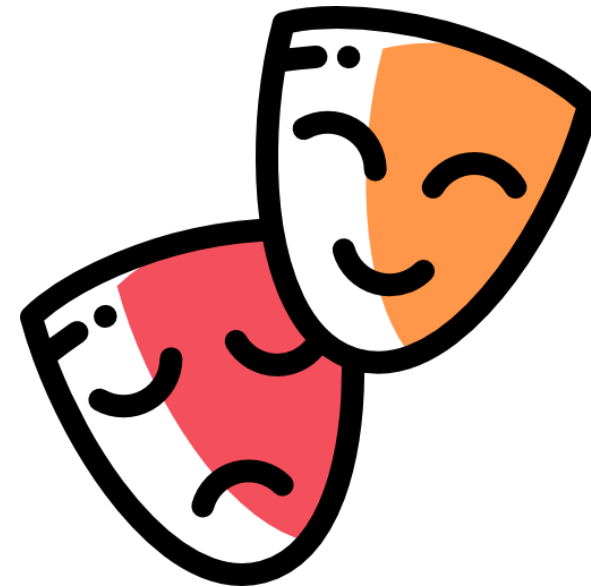


Cultural and Creative Sectors and Industries

Targeting the needs of these sectors

Catering for cultural and linguistic diversity

Ensuring transparency and full respect and recognition of artists and creators rights





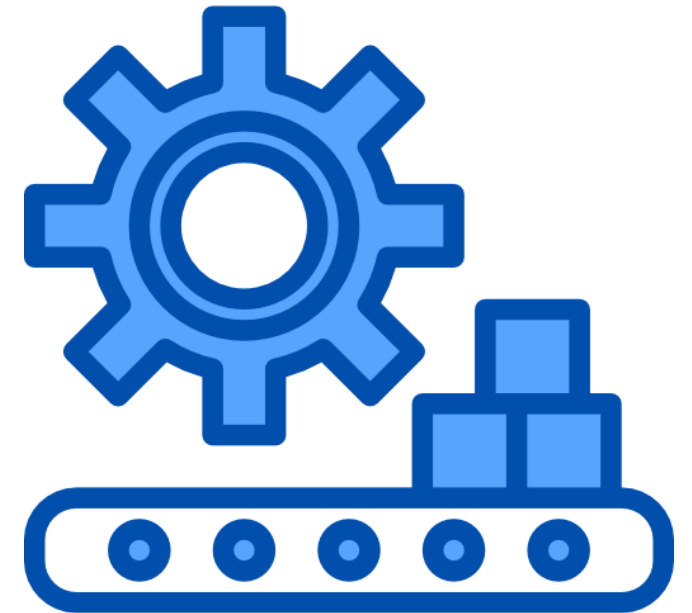
Manufacturing

Enable mass customisation

Enhance sustainability and automation

Propose options for design

Identify maintenance needs





Education

Enable personalised and adaptive learning experiences

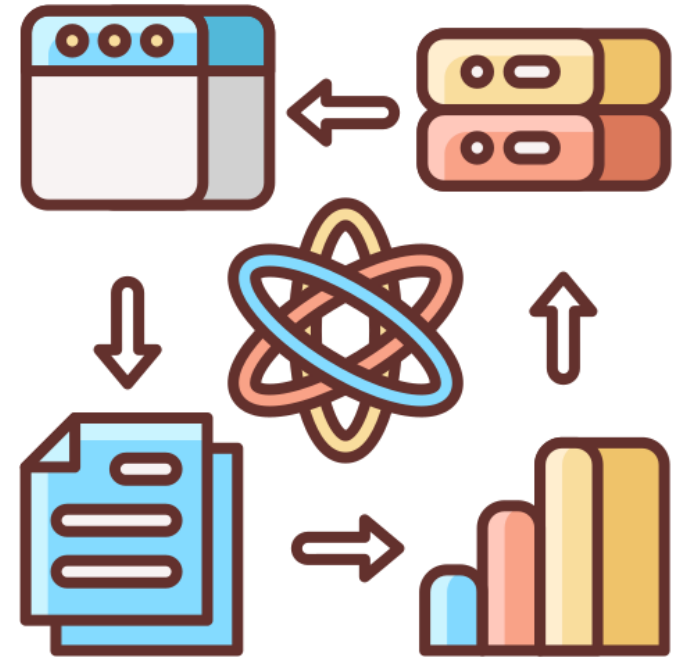
Enhance educational outcomes and accessibility



Science

Driving new levels of productivity and capability for
researchers

Fostering innovation and scientific advancements





Expected Outcomes and Impact

- **Trustworthy AI Compliance:**
 - Adhere to EU ethical principles: data quality, transparency, accountability, privacy, and security.
- **Reduce Dependencies:**
 - Support companies in leveraging generative AI advances.
- **Optimize Workflows:**
 - Use generative AI to improve operational processes.
- **Enhance Human Capabilities:**
 - Apply AI to boost decision-making, creativity, and productivity.
- **Validation for Application:**
 - Ensure AI models are validated for practical use and scalability.



Possible Benefits

- **Favorable Access to Supercomputing Resources**
- **Opportunities to attract further capital**
- **Access to Scientific Datasets**



Specific conditions

Robust Development

- Focus on safety, security, and ethics in future applications.

Avoid Technological Dependency

- Prevent reliance on non-EU sources.
- Assess and address strategic weaknesses, vulnerabilities, and high-risk dependencies.

Funding and Control Regulations

- Grant and equity funding recipients must not be controlled by non-associated third countries, except for specific exceptions.

Investment Safeguards

- Introduce specific safeguards in investment agreements to ensure economic security.



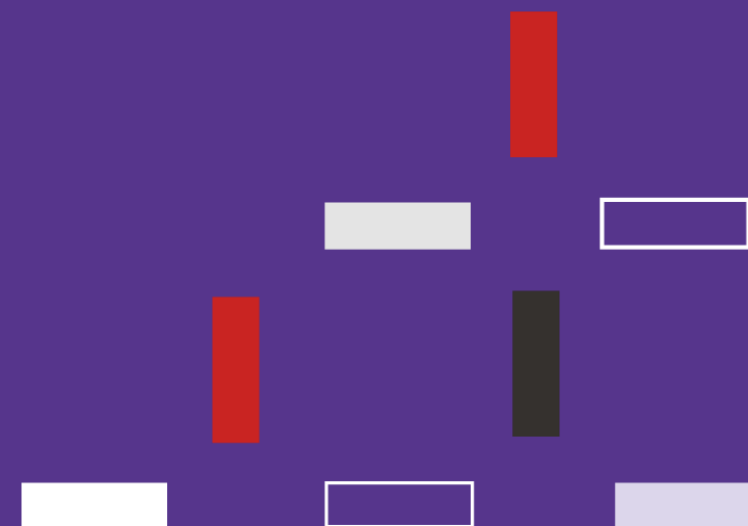
Thank you !

@EUeic #Eueic

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Key links:

- [GenAI4EU: Creating European Champions in Generative AI](#)
- [Info Day recording](#)
- [Challenge promotional video](#)
- Cut-off date(s): 12 March 2025; 1 October 2025
- Indicative budget: € 50 Million
- [EIC Work Programme 2025 Challenge at page 86](#)