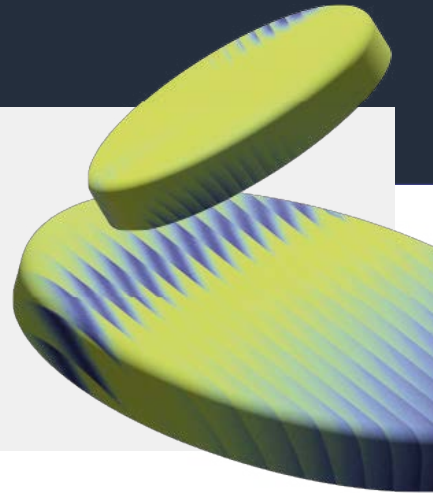




CERTAIN

Certification for Ethical and Regulatory Transparency in Artificial Intelligence



Why CERTAIN?

As AI systems become increasingly embedded in **critical sectors**, the need for **trustworthy**, **transparent**, and **regulation-compliant** solutions has never been greater. **CERTAIN** addresses this by providing a unified framework that translates **complex EU regulations** into **actionable tools, guidelines**, and **certification processes**. It empowers organizations to navigate **legal and ethical challenges**, improve **system accountability**, and foster **sustainable innovation** across the **European AI ecosystem**.

Key Objectives

- Enable traceability of critical information of AI systems
- Produce guidelines for legally and ethically compliant AI system assessment regarding EU regulations
- Design tools for dataspace providers and data holders to help them to be compliant with EU regulations related to AI and minimise energy consumption
- Develop methods to improve and assess the compliance of AI systems with EU regulations related to AI
- Design certification procedures for AI systems
- Empirical evidence of the applicability and adequacy of the proposed framework across multiple sectors
- To enable the development of an open, dynamic, multi-disciplinary and sustainable community around the EU AI ecosystems and liaised initiatives and actions, towards an EU regulation compliance frameworks

Methodology

The CERTAIN project employs a **holistic, stakeholder-driven methodology** designed to bridge the gap between AI system development and regulatory compliance. This approach integrates the following key components:

- **Regulatory Translation:** Converting complex EU regulations into actionable business terms, making compliance accessible for all stakeholders.
- **Guideline Development:** Crafting clear, practical guidelines to assist stakeholders in aligning their AI systems with EU legal and ethical standards.
- **Tool Design:** Developing technical tools to assess data quality, measure biases, and ensure privacy, aiding stakeholders in maintaining compliance.
- **Certification Framework:** Establishing a streamlined certification process, including a directory of certification entities, to facilitate efficient and consistent evaluations.
- **Sustainability Initiatives:** Implementing strategies to reduce the environmental impact of AI systems, supporting the European Green Deal and promoting cost-effective practices.
- **Community Building:** Fostering an open, dynamic, and multi-disciplinary community to support the adoption and evolution of the CERTAIN framework across various sectors.

This comprehensive methodology ensures that AI systems are not only compliant with regulations but also contribute to a trustworthy and

Pilots

The project's results will be tested in operational conditions, to achieve high maturity, equal or higher to the TRL expected in the call for technical results. It will also prepare the project results for adoption by the AI stakeholders.

CERTAIN has identified seven pilots:

- **Biometrics:** Biometric system for access control and border crossing
- **Health:** Digital support systems for early diagnosis and monitoring of child-hood psychiatric disorders
- **Energy:** Optimisation of Energy planning using AI
- **Human Resources:** EU human capital market demand analysis
- **Data holders:** Evaluation of the guideline for data holders to enter the AI business
- **Finance:** Investment Recommendations and Credit Risk Scoring in Digital
- **Information Technology:** Automating MLOps for regulatory compliance in digital solutions deployment



Check out our website, discover more and get involved!