

ESM and University of Luxembourg launch joint Artificial Intelligence research on bond issuance and market intelligence



(Luxembourg) - The European Stability Mechanism (ESM) and the University of Luxembourg's Interdisciplinary Centre for Security, Reliability and Trust (SnT) kicked off a joint research programme today. The initiative, "AI for Improved Bond Issuance, Causal Methods and Market Intelligence", will focus on applying advanced techniques in Artificial Intelligence (AI) to address critical challenges.

The collaboration focuses on three ambitious use cases:

1. **Advancing Bond Issuance Workflows through AI:** by developing AI-powered tools, the ESM aims to gain efficiency for bond issuance throughout

the process, thus improving its capital market operations.

2. **Enhancing Market Responsiveness with Automated Research Insights:** by structuring qualitative market intelligence into an accessible, AI-powered knowledge base, the ESM aims to leverage on market research, past findings, and market dynamics data to inform high-level stakeholders.
3. **Driving Strategic Foresight via Causal Discovery Analysis:** exploring the deeper causes underpinning market dynamics beyond correlations remains a challenge. The project aims to build an understanding of these dynamics, leveraging on academic research to support strategic high-level decision-making.

“Embracing innovation, and AI in particular, is one of the ESM’s strategic priorities. Our collaboration with the University of Luxembourg’s SnT draws on their proven expertise in delivering impactful research projects for the financial sector and their strong interdisciplinary approach. This partnership offers us an excellent opportunity to harness leading academic knowledge and technology for the benefit of the ESM. I am confident the joint research programme will bring tangible benefits, especially by enhancing the efficiency and quality of our bond issuance processes,” said ESM Managing Director Pierre Gramegna.

“Our collaboration with the ESM offers us the rare opportunity to train new AI models that will benefit the financial sector of Europe, thanks to their unique use cases,” said Director of SnT, Prof. Yves Le Traon. “SnT is based in the heart of the Luxembourg financial centre to enable a close collaboration with the sector, and this partnership showcases our strengths in jumpstarting innovation projects in this field.”

The joint research programme is planned for three years and will be co-financed by both institutions.

About SnT

The Interdisciplinary Centre for Security, Reliability and Trust (SnT) at the University of Luxembourg conducts internationally competitive research in information and communication technology. In addition to long-term, high-risk research, SnT engages in demand-driven collaborative projects with industry and the public sector through its Partnership Program. The resulting concepts present a genuine, long-lasting competitive advantage for companies in Luxembourg and beyond.

About the University of Luxembourg

The University of Luxembourg is a young research-intensive institution. Interdisciplinarity in research and teaching is key to the University's approach to addressing tomorrow's societal challenges. Embedded in Luxembourg's diverse and multicultural society, the University offers a welcoming, multilingual environment, where students and researchers from around the world feel at home. Its compact size fosters close interaction between students and lecturers, creating a personal atmosphere. Internationally recognised research drives innovation in digital transformation, health, and sustainable development. Scientific progress is supported by cutting-edge infrastructure and a national commitment to education, research, and innovation. The dynamics of a still young university

offer rare potential and scope for exploring new ideas.

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