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AI/GENAI ADOPTION IN LUXEMBOURG INDUSTRY: MOMENTUM BUILDS, BUT GAPS REMAIN

Survey reveals promising uptake of AI and Generative AI across sectors, with clear calls for greater expertise, governance, and infrastructure

Luxembourg, 3 June 2025. Earlier this year, FEDIL, in collaboration with the Luxembourg Digital Innovation Hub (L-DIH) and Luxinnovation, conducted a nationwide survey to assess the penetration and impact of Artificial Intelligence (AI) and Generative AI (GenAI) within Luxembourg's industrial landscape.

The survey drew responses from 114 companies across a broad range of sectors, including Manufacturing (28%), ICT (16%), Construction (16%), and Transport & Logistics (11%). Companies of all sizes were represented, ranging from small enterprises with 1-10 employees to large corporations with over 1000 employees.

WIDESPREAD OPTIMISM: AI SEEN AS STRATEGIC ASSET

The results highlight a strong belief in AI's ability to drive business transformation. Respondents anticipate that AI will significantly enhance process optimization and control, while also driving financial gains. The expected benefits in cost savings and process efficiency are especially pronounced in the manufacturing sector, where 8 out of 10 companies foresee tangible improvements.

A noteworthy 63% of respondents place themselves in the more advanced stages of AI maturity, reflecting a proactive approach to leveraging AI for business success. The manufacturing sector shows strong interest in AI, though with cautious execution. In contrast, technology-driven sectors like ICT exhibit high levels of AI integration.

Generative AI is largely perceived as an opportunity by companies and

individual users alike. A majority of companies are embracing the GenAI revolution, recognizing its potential to boost productivity, improve customer service, and streamline internal processes.

Governance is gaining traction: over half of surveyed companies report having implemented formal data and AI governance policies, marking a step toward stronger data integrity, regulatory compliance, and risk mitigation.

STRUCTURAL CHALLENGES UNDERMINE ADOPTION POTENTIAL

Despite the optimistic outlook, several challenges continue to hinder widespread AI adoption.

- Data accessibility and quality remain major obstacles. Many companies struggle to gather the reliable datasets needed to power AI solutions.
- A lack of internal expertise and difficulty in identifying high-impact use cases further hinder momentum. This reflects a broader digital maturity gap.
- The AI ecosystem is still fragmented. Limited visibility of key players, combined with a mismatch between AI training supply and corporate demand, restricts scaling efforts.
- Data sovereignty is emerging as a strategic concern. The low rate of local hosting for GenAI tools raises questions around security and regulatory compliance.

BRIDGING THE GAP: WHAT IT TAKES TO REALISE AI'S FULL VALUE

The survey results show that Luxembourg's industrial sector is clearly engaging with their transformative potential. The momentum is real, but so are the challenges. While optimism prevails, the survey underscores the urgent need to translate this enthusiasm into sustainable implementation.

To achieve this, companies must be equipped with targeted training initiatives that help bridge current knowledge gaps and develop internal expertise. Greater visibility and coordination across the AI ecosystem is essential to improve access to relevant actors and support networks. At the same time, broader and more consistent adoption of robust data and AI governance frameworks is critical for ensuring data integrity, regulatory compliance, and ethical deployment.

The complete survey results are accessible on FEDIL's Website.

For any questions regarding the survey results or to learn more about FEDIL/Luxinnovation/L-DIH initiatives in the field of artificial intelligence, please feel free to contact:

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ABOUT FEDIL

Founded in 1918, FEDIL is a multisectoral business federation giving a voice to industrialists and entrepreneurs, fostering Luxembourg's economy. Today FEDIL represents more than 750 members, 37 sectors of activity and 22 sectoral associations. Regarding Luxembourg's ecosystem, the federation's members stand for 95% of industrial manufacturing, 75% of private research activity, 25% of employment and 35% of GDP. FEDIL is a member of Union des Entreprises Luxembourgeoises (UEL) and of BusinessEurope. www.fedil.lu

ABOUT LUXINNOVATION

Luxinnovation is Luxembourg's national innovation agency. Its mission is to raise companies' awareness of innovation and support them in their innovation projects, as well as to attract new foreign innovative companies to Luxembourg. It also contributes to the development of the economy as a whole by identifying innovation opportunities and promoting collaborative innovation projects that stimulate the development of a sustainable, competitive and digital economy. Luxinnovation is a public-private partnership acting under the aegis of the Ministry of the Economy in collaboration with the Ministry of Research, the Ministry of Foreign Affairs, the Chamber of Commerce, the Chamber of Skilled Crafts and FEDIL – The Voice of Luxembourg's Industry. www.luxinnovation.lu

ABOUT L-DIH

The Luxembourg Digital Innovation Hub (L-DIH), managed by Luxinnovation, helps by addressing the digital transformation of the Luxembourg industry with networking, innovation skills and trainings, „test before invest" services and support to find investment at local and European levels. L-DIH have unique competences in high performance computing, cybersecurity and artificial intelligence. www.dih.lu