

INNOVATING THE USE OF LABOUR MARKET INTELLIGENCE WITHIN EUROPEAN UNIVERSITIES

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Abstract

The “Innovating the Use of Labour Market Intelligence within European Universities” (LMI-EUniv) project, set within the Erasmus+ programme’s Key Action 2, represents a pioneering effort to harness Labour Market Intelligence (LMI) for enhancing the alignment between higher education offerings and labour market demands across Europe. This initiative, led by a consortium including the West University of Timisoara, University of Milano-Bicocca, University of Tallinn, Prospektiker, and the Luxembourg Institute of Socio-Economic Research, aimed to explore the current utilisation of labour market information and intelligence by European universities in planning and delivering their educational provisions. With a focus on fostering the congruence of educational supply with labour market demand through innovative learning and teaching methodologies, the project sought to empower Higher Education Institutions (HEIs) with the skills and competencies necessary to meet these challenges. By mapping essential LMI sources at a national level, examining the use of LMI across European HEIs, and developing a comprehensive training course and an online Labour Market Intelligence Hub, this project aspired to create an indispensable reference for HEIs. This article synthesises the project’s key findings, underscoring the critical role of labour market intelligence in adapting academic curricula to meet specific labour market needs, thereby contributing to the broader discourse on the integration of LMI in higher education and its implications for curriculum development, graduate employability, and the overarching alignment between education and labour market expectations.

Keywords

labour market intelligence, higher education institutions, Erasmus+, Europe

Introduction

In the evolving landscape of European higher education, aligning academic offerings with the labour market’s dynamic demands is increasingly recognised as critical for enhancing graduate employability and contributing to economic growth. The “Innovating the Use of Labour Market Intelligence within European Universities” (LMI-EUniv) project, initiated under the Erasmus+ programme’s Key Action 2, addresses this challenge by exploring the utilization of Labour Market Intelligence (LMI) in European universities. Spearheaded by the

West University of Timisoara in collaboration with the University of Milano-Bicocca, University of Tallinn, Prospektiker, and the Luxembourg Institute of Socio-Economic Research, the project aims to bolster Higher Education Institutions' (HEIs) capacities to adapt their educational provisions in response to labour market trends and needs.

This initiative seeks to empower HEIs through the strategic use of LMI, focusing on innovative learning and teaching methodologies that align educational supply with labour market demand. The LMI-EUniv project has set three principal objectives: to map essential LMI sources at a national level, scrutinize the use of LMI by HEIs across Europe, and develop a comprehensive training course along with an online Labour Market Intelligence Hub. This hub aspires to be an indispensable reference for HEIs, facilitating deep engagement with labour market trends and demands.

By synthesizing the project's key findings (LMI-EUniv, 2024), this article underscores the pivotal role of LMI in refining academic curricula to meet explicit labour market needs, aiming to enrich the discourse on LMI integration in higher education and its implications for curriculum development and graduate employability.

The Role of LMI in European Universities

Labour Market Intelligence serves as an indispensable tool for European universities, ensuring that their academic offerings align closely with the dynamic requirements of the labour market. By offering detailed insights into employment trends, skill demands, and job vacancies, LMI empowers higher education institutions to tailor their curricula in ways that significantly enhance graduate employability and fulfill employers' immediate and future needs. In the realm of curriculum development, the influence of LMI is profound. It guides HEIs in adjusting their course content to incorporate emerging skills and knowledge areas that are in high demand, thus preparing students for the challenges of the contemporary workforce. Furthermore, the strategic alignment of academic programs with Labour Market Intelligence markedly improves the employability of graduates by equipping them with the competencies employers seek.

The initiative undertaken by the University of Milano-Bicocca illustrates the practical application of LMI in curriculum adaptation. An analysis conducted as part of the LMI-EUniv project highlighted the university's response to the identified demand for data analytics skills across various sectors. Consequently, the university revamped its Information Technology curriculum to include modules on big data, predictive analytics, and machine learning. This curriculum overhaul led to a noticeable uptick in the employment rates of graduates in related fields.

Another exemplar of LMI's impact on employability enhancement is evident in the efforts of the University of Tallinn. The university's career center leveraged real-time labour market data to design targeted workshops and counseling sessions. These initiatives helped students to navigate emerging job trends and refine their career strategies, accordingly, significantly increasing the proportion of graduates securing employment within six months post-graduation.

The collaboration between West University of Timisoara and local businesses and industries exemplifies the benefits of LMI in fostering direct industry input into curriculum development. This partnership facilitated the integration of real-world case studies and industry projects into the academic programs, offering students invaluable hands-on experience with current industry challenges and expectations. Such initiatives augmented the relevance of the academic offerings and consolidated the university's relationships with key industry stakeholders.

These few examples documented within the LMI-EUniv project underscore the pivotal role of Labour Market Intelligence in augmenting the pedagogical content, refining educational

methodologies, and, consequently, enhancing graduates' employability within the European higher education context. By meticulously integrating precise, actionable intelligence derived from labour market trends, European universities are positioned to ensure that their curricular offerings are not only competitive but also deeply resonant with the evolving aspirations of students and the exigencies of the global economic framework. Such strategic alignment with labour market demands exemplifies a forward-looking approach to higher education, one that fosters a synergistic relationship between academic institutions and the labour market, thereby contributing to the overarching goal of economic advancement and workforce development.

Integrating Labour Market Intelligence: Strategies for Universities

LMI Sources for HEIs

There is a wide variety of sources and types of Labour Market Intelligence, extending from international organisations such as the OECD or Eurostat to national and local entities. These can include ministries, statistical institutes, and employment agencies, each playing a unique role in the dissemination of LMI (Hauret and Clément, 2023). Local organisations, particularly significant in federal or regionalized countries, add another layer of specificity and relevance to LMI data. While some LMI providers, like national statistical institutes and employment agencies, are easily identifiable due to their direct missions, other potential sources such as employer organisations or research centers might not be as immediately apparent. A comprehensive survey across 19 European countries underscored the diversity of LMI sources, revealing that in 9 of these countries, at least 10 distinct sources of LMI were identified (Clément et al., 2023). Moreover, the variety of LMI encompasses data on employment and unemployment structures, among other aspects. Providers often specialize in specific types of LMI, leading to a scenario where information is rarely centralized and results in segmented access to data. This dispersion poses challenges for users, making it difficult to locate the most relevant and updated information or data at a specific granularity level. The ad-hoc survey conducted among a sample of European HEIs indicated that searching for LMI is notably time-consuming, with a pronounced lack of awareness regarding LMI sources among these institutions. To address this fragmentation and enhance accessibility, a targeted mapping of crucial LMI at the national level is essential. This effort not only aids HEIs in effectively utilizing LMI, but also contributes to a more unified understanding of labour market dynamics. Such a mapping, coupled with an evaluation of LMI sources in 19 European countries, has revealed common trends regarding the primary sources of LMI:

Firstly, government databases and reports have emerged as pivotal resources, offering comprehensive insights into employment rates, wage levels, job vacancies, and industry trends. These datasets are invaluable for HEIs seeking to align their curricula with current labour market conditions.

Statistical institutes stand out as the cornerstone of labour market data and indicators. In every country surveyed, these national offices provide a wealth of data series on employment structures and unemployment rates, enabling HEIs to conduct in-depth analyses of labour market trends. The reliability and standardisation of data from these institutes make them indispensable for both policy-making and academic research.

National employment agencies (PES) also play a crucial role in collecting and disseminating data on job placements, job seekers, and employer demand. This direct line to the labour market equips HEIs with the necessary information to refine their curricula to meet employer expectations better and enhance student employability.

Labour market observatories offer an essential view of the labour market. They aggregate data from various sources to report on employment patterns, skills gaps, and

emerging job opportunities. HEIs can leverage the insights from these observatories to stay abreast of labour market shifts and integrate timely data into their educational offerings.

Finally, government ministries and agencies contribute significantly to the landscape of Labour Market Intelligence. By gathering, analysing, and disseminating labour market data, these entities inform educational policy and strategy, ensuring that the needs of the labour market are reflected in educational planning and development.

These identified sources and types of LMI represent a foundation upon which HEIs can build more responsive and dynamic educational programs, ultimately fostering a workforce well-prepared to meet the challenges and opportunities of the contemporary labour market.

Aligning Education with Labour Market Demands

Using data from the survey (Negoita and Krusell, 2023) conducted as an integral component of the LMI-EUniv project, we have been able to delve deeply into how HEIs across Europe are leveraging LMI to align their curricular and extracurricular offerings with the evolving demands of their local and regional labour markets. This exploration was facilitated by an online survey, disseminated with the assistance of inter-university contact networks, ensuring a broad and comprehensive reach. The survey encompassed a wide geographical spread, including major EU countries such as Germany, France, Italy, Spain, Poland, Romania, and the Netherlands, as well as Belgium, Estonia, Austria, Sweden, Ireland, Latvia, Lithuania, Portugal, Czech Republic, Bulgaria, Luxembourg, and Greece. The findings indicated a diverse yet targeted application of LMI in the curriculum development process across these nations (Krusell, 2023). Particularly noteworthy were the comprehensive approaches identified in Austria, Estonia, Greece, Italy, Poland, and Spain, where the integration of LMI into educational strategies was most pronounced.

Respondents offered insightful feedback on the types and sources of LMI utilised for curriculum development within European HEIs. The predominant types of LMI engaged were qualitative and national surveys, closely followed by administrative records. These tools were predominantly sourced from universities' own surveys, national statistical institutes, and academic and research institutes, underscoring the multifaceted nature of LMI sources. The content of the LMI utilised was mainly focused on identifying skills and qualifications needs, gaps, and shortages, both current and future, as well as on understanding the occupational structure and changes within the labour market. Information regarding specific occupations and jobs, such as working conditions and average salaries, was also highly sought after. The primary application of this intelligence was in career guidance, quality assurance of curricula and study content, and, notably, in matching the universities' skills supply with the nuanced demands of the labour market, thereby facilitating curricula adjustments and development. Despite the apparent value of LMI in enhancing educational alignment with labour market demands, significant barriers were identified, particularly regarding time and financial resources. The lack of time for analysing new data and topics, coupled with a scarcity of financial resources, emerged as prominent challenges. Moreover, a discernible gap in knowledge regarding the availability and utility of LMI sources and a shortage of qualified staff and administrative support further complicated the effective integration of LMI within HEIs. Evaluation of the implementation of LMI in curriculum development typically involves oversight from heads of the university or institute, lecturers, professors, and members of councils formed within the university or institute, highlighting the collaborative nature of this endeavor. The survey respondents underscored the critical importance of LMI in developing curricula, awarding it an average importance rating of 6.7 on a ten-point scale. This robust endorsement reflects the recognition within European HEIs of LMI's pivotal role in aligning educational offerings with labour market demands, thereby enhancing curriculum relevance, and supporting student career

preparedness.

Considering these findings, it is imperative that HEIs continue to enhance their engagement with LMI resources and strategies, despite the challenges identified. Future research should aim to address these barriers, exploring innovative solutions to harness the full potential of LMI in educational and labour market outcomes. This endeavor is crucial for ensuring that HEIs remain responsive to the dynamic landscape of labour market needs, thus contributing to the overarching goals of enhancing graduate employability and facilitating economic growth.

Curriculum Development Through LMI

By aligning academic offerings with the real-world demands of the labour market, universities ensure that their graduates are equipped with both the theoretical knowledge and practical skills necessary to navigate the complexities of the modern workforce. The dynamic relationship between HEI and the labour market is encapsulated through several key areas: curriculum development, skill enhancement, the forging of industry partnerships, and the provision of comprehensive career services. At the heart of this interplay is the effective utilisation of Labour Market Intelligence, which is essential for enabling universities to adjust their programs to align with evolving market demands (Boselli, 2023).

Strategies for aligning curricula with industry requirements include integrating emerging sectors into academic programming. Moreover, industry partnerships not only keep universities informed of the latest trends but also provide students with valuable real-world experiences. Insights derived from LMI further support employability initiatives, ensuring students' readiness to meet employers' expectations.

A detailed examination of the service process reveals an approach to match educational supply with labour demand, foster innovation, and minimise dropout rates. Services such as job placement, guidance, and counseling are instrumental in boosting employability and career prospects for graduates. This iterative process emphasizes continuous improvement and refinement, with universities employing a variety of data sources—including labour demand statistics, online job postings, and student profiles—to inform curriculum and service decisions. Mapping these data sources against specific strategic goals aids in effectively integrating graduates into the labour market, bolstering informed decision-making processes.

In the context of the LMI-EUniv project, a case study from Italy showcases the application of LMI in curriculum planning and career guidance. The evolving adoption of LMI within the Italian higher education system, mainly through initiatives like the AlmaLaurea Consortium¹, highlights the potential of LMI to bridge the gap between academia and the job market. AlmaLaurea, representing a substantial portion of Italian graduates, facilitates this connection through rigorous data analysis and digital services, demonstrating the impact of LMI on curriculum relevance and employability.

As previously emphasised, integrating market intelligence directly enhances the curriculum's relevance to labour market needs and improves graduate employability. By cultivating partnerships with industry and leveraging data-driven insights, universities can adapt to changing market demands, thereby significantly enhancing the employability of their graduates. This strategic approach contributes to preparing students for successful careers and aligns educational outcomes with labour market requirements, contributing to the overarching goal of economic development and workforce readiness.

¹ AlmaLaurea is an interuniversity consortium currently representing 81 universities, that is, about 90% of graduates in Italy.

LMI for Enhancing Employability

Labour Market Intelligence emerges as an indispensable resource in creating and analysing data tailored explicitly for policymakers and various stakeholders within the labour market (Panzaru and Brandas, 2017). It underpins evidence-based policymaking, empowering decision-makers to devise strategies that foster employment opportunities, enhance workforce competencies, and drive economic growth. Through its capacity to support both reactive and proactive policy measures, LMI ensures that labour market policies adeptly navigate the continually evolving economic landscape. LMI's contribution to employability and workforce development is profound, offering critical insights to a wide array of stakeholders including job seekers, educators, employers, and policymakers. For governments, LMI is instrumental in monitoring economic health, shaping policy formation, and evaluating the impact of these policies on the labour market landscape. Individuals leverage LMI better to understand the necessary skills for various career paths, facilitating informed career planning and insight into occupation-specific dynamics. Labour market agencies utilise LMI to provide essential information to employers and job seekers, streamlining the service planning process to meet specific client needs effectively. Employers depend on LMI to set competitive wages and benefits, evaluate the labour force's quality and availability, and assess future economic conditions for strategic planning. Furthermore, education and training institutions rely on LMI to tailor program and curriculum development, ensuring alignment with current labour market demands and enhancing career service offerings (Noja and Panzaru, 2023).

The significance of LMI extends to both traditional and innovative sources, each contributing uniquely to labour market analysis. Traditional sources offer a dependable, standardized, and comprehensive perspective of the labour market trends over time. In contrast, new sources present real-time, detailed insights, enabling a more nuanced understanding of labour market fluctuations. However, leveraging these new sources necessitates advanced analytical tools and a cautious approach to mitigate potential biases, highlighting the importance of an integrated approach that combines the strengths of both traditional and modern LMI methodologies.

Integrating LMI into educational strategies and policy formulation underscores its pivotal role in bridging the gap between education and labour market needs. By enhancing employability, LMI facilitates a tighter alignment of educational outcomes with labour market requirements, thereby contributing to workforce development and economic expansion. As the labour market continues to transform, driven by technological advancements and changing economic conditions, the strategic application of LMI becomes increasingly critical. This necessitates ongoing innovation in LMI practices, ensuring they remain responsive to the dynamic needs of the global economy and continue to serve as a foundational tool for policy making, educational planning, and employment strategy development.

Future Resources of LMI

Another pivotal objective of the project was to investigate the evolutionary trajectory of the LMI resources we are currently familiar with and to forecast the emergence of new sources and technologies in this domain. This endeavor aimed to ensure a comprehensive identification of all potential resources and tools that will be available for conducting thorough analyses while meticulously considering ethical aspects throughout the data lifecycle and management processes. In this context, it is essential to conduct a detailed analysis of both current and emerging technological trends to assess the impact of recent technological advancements in the field of labour market analysis. Following this assessment, it will be imperative to delineate the specific skills and knowledge required by labour market analysts to utilise these evolving tools

and sources effectively.

The technological landscape is witnessing significant transformations, with trends such as Artificial Intelligence (AI) for decision-making, automatic content recognition, and Natural Language Processing (NLP) enhancing how we interact with data. Developments in voice searches, Data Fabric and Mesh, as well as advancements in virtual/augmented reality and 3D Geographic Information Systems (GIS), are redefining our digital ecosystem. In this rapidly changing environment, the importance of robust security and legal frameworks cannot be overstated, ensuring that data usage remains responsible and compliant with evolving regulations (Atin and Pulido, 2023).

Our approach to data is undergoing a paradigm shift, propelled by a global perspective, Big Data, and predictive analytics. The movement towards open data sources and an emphasis on digital skills, coupled with strategic partnerships, seeks to elevate outcomes across education and employment sectors.

Emerging data sources such as social networks, online education platforms, and the Internet of Things (IoT) hold the promise of cost reduction, access to real-time information, and the creation of competitive advantages. However, these advancements also pose challenges, including the risk of exacerbating digital divides, ethical dilemmas, and an increased dependence on technology.

Cutting-edge technologies like machine learning, blockchain, and 5G technology are gaining prominence, offering the potential for advanced analysis, accelerated decision-making, and enhanced risk management. Despite their considerable potential, the complexity of navigating these technologies and the challenges associated with their maintenance underscore the need for ongoing skill development and infrastructure investment.

Technological advancements carry potential drawbacks, such as privacy concerns, the necessity for continuous analyst training, and the risk of information bias. Ethically, the emphasis must be placed on privacy and data protection, the responsible use of information, the mitigation of bias and discrimination, ensuring the transparency and explainability of algorithms, and upholding accountability in decision-making processes.

To effectively navigate this evolving landscape, labour market analysts will require a diverse set of skills and competencies, including interdisciplinary research, data processing and analysis, abstract thinking, and the ability to write scientific publications. Equally important will be the ability to engage the public in science and research activities, incorporate gender perspectives into analyses, and recognize statistical patterns.

Additional skills that could further enhance an analyst's toolkit encompass research planning, lesson material preparation, the delivery of data visual presentations, and the development of research proposals. Understanding performance appraisal methodologies, assisting in scientific research, theorising, advising on financial matters, and preparing educational content are also valuable.

The foundational knowledge areas include data quality assessment, scientific research methodologies, statistical analysis tools, and a solid grounding in mathematics and statistics. Supplementary knowledge in algorithms, biometrics, set theory, market research, demography, information confidentiality, and opinion polling will be instrumental in preparing analysts for the multifaceted challenges and opportunities of the future labour market landscape.

Conclusion

The “Innovating the Use of Labour Market Intelligence within European Universities” project has highlighted the role and potential of Labour Market Intelligence in bridging the gap between higher education outcomes and labour market demands across Europe. This collaborative endeavor, underpinned by the strategic partnership of leading European

universities and research institutions, has comprehensively explored how higher education institutions leverage labour market data to inform curriculum design, teaching methodologies, and student career guidance.

The project's findings reveal a nuanced landscape where LMI plays a pivotal role in enhancing the relevance and responsiveness of academic programs to the dynamic needs of the labour market. By systematically mapping LMI sources at a national level and analysing their utilization within HEIs, the project has underscored the importance of a targeted and informed approach to curriculum development and adjustment. The creation of the Labour Market Intelligence Hub, as an online repository of LMI sources and information, stands as a testament to the project's commitment to fostering accessibility and awareness among HEIs regarding the wealth of available Labour Market Intelligence.

Moreover, the project has highlighted several key challenges faced by HEIs in effectively integrating LMI into their operational and strategic frameworks. These include the fragmentation of LMI sources, the complexity of data analysis, and the need for continuous adaptation to technological advancements. Despite these hurdles, the proactive engagement of HEIs with LMI resources and strategies has been identified as crucial for enhancing graduate employability and aligning educational offerings with labour market requirements.

The implications of the LMI-EUniv project extend beyond the immediate sphere of higher education. By demonstrating the significant impact of LMI on curriculum relevance, graduate employability, and the alignment between education and labour market expectations, the project contributes to a broader understanding of the symbiotic relationship between education, workforce development, and economic growth. The findings advocate for a concerted effort among policymakers, educators, and industry stakeholders to overcome barriers to LMI use and harness its full potential for educational and economic advancement.

The LMI-EUniv project serves as a critical milestone towards realising the full potential of LMI in shaping the future of higher education in Europe. It calls for a sustained and collaborative effort to integrate LMI into all aspects of higher education planning, delivery, and evaluation. As the labour market continues to evolve in response to technological advancements and shifting economic landscapes, the strategic utilisation of LMI will be paramount in preparing a skilled, adaptable, and employable workforce ready to meet the challenges of a rapidly changing world.

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