

March 19, 2026



Fourth Memorial Scientific and
Professional Conference "Predrag Marić"

MODERN INTEGRATED DISASTER RISK MANAGEMENT



Faculty of Security Studies, University of Belgrade

DOI:<https://doi.org/10.5281/zenodo.20040957>

Article

The Role of Higher Education Institutions in the Development of Multidisciplinary and Integrated Risk Management

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Abstract

Contemporary security and legal systems are increasingly confronted with complex, interconnected, and difficult-to-predict risks, which challenge the effectiveness of traditional, sector-based approaches to risk management. Integrated Risk Management has emerged as a response to this complexity, based on the assumption that risks must be addressed systemically, taking into account their social, legal, and security dimensions. In this context, education, and higher education institutions in particular, play a crucial role in developing the knowledge, competencies, and security culture necessary for implementing an integrated approach. This paper examines the role of higher education institutions in the development of multidisciplinary and integrated risk management, drawing on theoretical approaches to risk and contemporary security studies. Special attention is paid to education as a security resource, the role of higher education institutions in shap-

ing professional identities and security culture, and the importance of multidisciplinary in understanding and managing contemporary risks. The analysis draws on relevant domestic and international academic literature in security, law, education, and risk studies. The paper concludes that integrated risk management cannot be sustained without a strong educational foundation and that higher education institutions represent one of the key actors in building institutional and societal resilience.

Keywords

Integrated risk management; higher education institutions; education; multidisciplinary; security culture.

1. Introduction

Contemporary security and legal reality is marked by a persistent state of uncertainty, arising from interconnected global processes—technological development, economic crises, migration, climate change, transnational crime, and emerging forms of security threats. The risks generated by these processes do not manifest as isolated, clearly delineated events; rather, they appear as complex, multidimensional phenomena that can simultaneously affect multiple social systems and institutional spheres. For this reason, traditional sectoral and hierarchical models of response reveal significant limitations in both normative and operational terms. In both theoretical and practical debates, there is a growing consensus that contemporary risks require an integrated approach, one that entails the coordination of knowledge, policies, and institutional practices across different domains. Integrated risk management has emerged as a response to the fragmentation of security and legal regimes, offering a framework for addressing risks systemically, taking into account their interdependencies, cumulative effects, and long-term consequences (Graham, 2009). In a broader sense, this integrated approach transcends a purely technical-administrative understanding of risk and opens space for normative, social, and educational considerations.

Within contemporary security studies, risk is no longer viewed solely as an objective hazard measurable through statistical indicators, but also as a socially and institutionally constructed category (Dada, Mohammed, & Quadir, 2025; Janković, Cvetković, Gačić, Renner, & Jakovljević, 2025; Metić, 2025a, 2025b). The manner in which risks are defined, prioritized, and normatively regulated depends on the knowledge, values, and discursive frameworks within which relevant actors operate (Samier, 2015). In this process,

education plays a crucial role, as it is through educational systems that professional standards, security paradigms, and interpretative frameworks are formed—frameworks through which risks are recognized and addressed. The security-legal context further underscores the importance of education in risk management. Legal norms and security policies, however precisely formulated, remain limited in their effectiveness if not accompanied by adequate knowledge, competencies, and a developed security culture among the actors responsible for their implementation. From this perspective, education functions as an intermediary between normative requirements and the actual practice of risk management, shaping the understanding of law, responsibility, and institutional action.

Higher education institutions occupy a particularly significant position in this process. They simultaneously function as spaces for knowledge production, the education of future professionals, and the shaping of social values. Through curricula, research activities, and academic debate, universities contribute to the development of both theoretical and practical foundations of security, law, and risk management. In domestic literature, Milica Bošković and colleagues emphasize that education is a key factor in the development of security culture, which implies not only familiarity with regulations and procedures but also the cultivation of awareness of risks, responsibility, and the consequences of behavior (Bošković et al., 2025).

The interconnection between education and security is further confirmed by studies that conceptualize the educational system as a resource of national and societal security. Education enhances a society's capacity to recognize threats, adapt to change, and develop institutional resilience (Klein, Rice, & Levy, 2012). From this perspective, the role of higher education institutions extends beyond knowledge transmission to include the shaping of professional identities and normative orientations of future decision-makers within the security-legal system. Building on these considerations, this paper analyzes the role of higher education institutions in the development of multidisciplinary and integrated risk management. The paper assumes that an integrated approach to risk is not feasible without a strong educational foundation that enables the integration of different disciplines, normative frameworks, and professional practices. The paper aims to highlight education as a key resource for integrated risk management and to examine how higher education institutions contribute to the development of knowledge, competencies, and security culture necessary for effective responses to contemporary security challenges.

2. Integrated Risk Management as a Response to the Complexity of Contemporary Threats

The development of the concept of integrated risk management has been conditioned by changes like contemporary security threats, which are increasingly difficult to reduce to clearly defined and isolated hazards. Instead, contemporary risks are characterized by interdependence, multilayered structures, and the capacity to produce cumulative effects across different social and institutional domains. Within the security-legal context, this complexity calls into question the effectiveness of normative and institutional solutions based on strict divisions of competences and disciplinary approaches.

Integrated risk management has emerged as both a theoretical and practical response to such fragmentation. In its broadest sense, this approach assumes that risks must be understood systemically, taking into account their causes, interconnections, and potential long-term consequences (Graham, 2009). Unlike traditional models that focus on individual threats or sectors, the integrated approach seeks to connect different types of risks within a unified analytical framework.

The literature emphasizes that integrated risk management is not merely a technical model but also a normative concept that entails a shift in how security and responsibility are understood. Different professional and institutional cultures often rely on distinct concepts, criteria, and value frameworks, which complicates coordinated action.

These observations carry particular weight in the security-legal domain. Law tends toward clarity, normative precision, and stability, whereas security practices often require flexibility and adaptation to changing circumstances. Integrated risk management seeks to bridge this tension, but it can do so only if there exists a shared knowledge base that enables the understanding of risks from multiple perspectives.

Contemporary security studies further indicate that many risks are simultaneously legal, social, and security-related. Risks associated with terrorism, radicalization, migration, or cybersecurity cannot be adequately addressed solely through repressive or regulatory measures, but require preventive and educational strategies (Samier, 2015). In this sense, integrated risk management necessarily entails the inclusion of education as an integral component of security policy.

Studies focusing on risk analysis within higher education institutions further confirm that contemporary risks manifest through a combination of organizational, social, and security factors (Raanan, 2009; Ramrakhiani et al., 2021). Although these studies primarily examine the institutional context,

their findings have broader relevance, as they demonstrate that risk management requires an understanding of actors' behavior, values, and competencies, rather than relying solely on formal procedures.

It is particularly significant that contemporary approaches to risk increasingly emphasize the role of knowledge and learning. Integrated risk management presupposes actors' capacity to recognize emerging threats, understand their implications, and act in accordance with legal and ethical standards. Without this cognitive and normative foundation, the integrated approach remains merely declarative.

Such an understanding suggests that normative and institutional reforms alone are insufficient for the realization of integrated risk management. Its sustainability depends on educational processes that enable the development of multidisciplinary understandings of risk and the capacity for coordinated action in complex security-legal environments. This relationship between integrated risk management and education constitutes the starting point for examining the role of higher education institutions in contemporary security systems.

3. Multidisciplinary as an Epistemological and Institutional Requirement of Integrated Risk Management

One of the key prerequisites of integrated risk management is a multidisciplinary understanding of contemporary threats. Contemporary risks cannot be reduced to a single type of knowledge, a single professional perspective, or a single normative framework, as they emerge at the intersection of various social, technological, legal, and security processes. In this sense, multidisciplinary does not represent a methodological choice, but rather an epistemological and institutional requirement of an integrated approach to risk.

In risk theory, there is an increasing recognition that fragmented approaches based on individual disciplines are insufficient in addressing complex and systemic risks. Graham (2009) argues that integrated risk management requires integrating different forms of knowledge to identify interdependencies among risks and to avoid partial or contradictory institutional responses. This approach is particularly relevant in the security-legal context, where decisions made from a single perspective may produce unintended consequences in other domains.

Multidisciplinarity, in this context, does not imply merely aggregating knowledge from different disciplines, but rather their mutual integration. Security risks often simultaneously entail legal, social, political, and educational implications. For example, cyber threats are not solely a technical issue, but also involve questions of legal responsibility, data protection, institutional culture, and user education. For this reason, an integrated approach to risk requires education that enables the understanding of these complex interrelations.

Multidisciplinarity is closely linked to the educational role of higher education institutions. Universities represent a unique space in which different academic disciplines and professional traditions converge. However, research indicates that institutional diversity alone is insufficient to achieve genuine multidisciplinarity. Raanan (2009) notes that higher education institutions often maintain disciplinary fragmentation, which limits the educational system's capacity to respond effectively to complex security challenges.

In this regard, integrated risk management requires a shift in educational paradigms. Instead of discipline-bound programs, there is a need for educational models that foster the integration of knowledge from law, security studies, management, information technology, and the social sciences. Such models enable future professionals to understand risks as systemic phenomena rather than isolated incidents.

International research further confirms that education integrating multiple perspectives contributes to the development of institutional resilience. Analyses of risks in the higher education sector indicate that institutions investing in multidisciplinary education and competency development are better equipped to recognize and anticipate emerging risks (Higher Education Risk Register Analysis, 2023). Although these findings primarily relate to the institutional context, their broader implications point to education as a key resource for integrated risk management.

It is important to emphasize that multidisciplinarity also has a normative dimension. Within the security-legal framework, understanding risk requires knowledge of legal constraints, human rights, and ethical principles. Studies addressing the relationship between education, security, and citizenship suggest that educational systems play a crucial role in balancing security demands with democratic values. Without such a balance, an integrated approach to risk may be reduced to an instrument of control rather than a means of strengthening societal resilience.

All of the above indicates that multidisciplinarity constitutes the foundation of integrated risk management and that education represents the key

mechanism through which it is achieved. Higher education institutions, as spaces where different disciplines and normative frameworks intersect, play a central role in the development of knowledge and competencies necessary for understanding and managing contemporary risks. This role of education serves as the starting point for examining security culture as a distinct component of integrated risk management.

4. Education as a Key Resource for Integrated Risk Management

In the contemporary security-legal context, education is increasingly recognized as a structural resource of integrated risk management. This understanding is based on the assumption that society and institutions' ability to identify, interpret, and normatively frame risks is not determined exclusively by formal regulations and institutional mechanisms, but also by the knowledge, values, and competencies of the actors who apply those mechanisms. Risk, understood as a socially and institutionally mediated phenomenon, requires educational processes that enable an understanding of its multidimensionality and long-term consequences (Samier, 2015, p. 685).

Theories of education and adult education indicate that professional action under conditions of uncertainty cannot be reduced to the application of predefined procedures. Instead, the development of the ability to analyze, interpret, and make responsible decisions in changing circumstances is crucial. Despotović emphasizes that adult education aims to develop competencies that enable the transfer of knowledge to new and unpredictable situations, which is particularly important in areas characterized by high risk (Despotović, 2012). This approach to education is directly relevant to integrated risk management, which implies continuous adaptation to new threats and contexts.

Security studies further emphasize that education has a preventive function. Instead of reactive action after damage has occurred, education enables the earlier identification of risks and an understanding of the causal relationships that lead to them. Samier points out that educational institutions help shape "security imaginaries," that is, how risks are conceptualized and legitimized in society (Samier, 2015, pp. 689–690). In this sense, education affects not only individual competencies but also broader social patterns of response to risks.

A particularly important contribution to understanding education as a security resource comes from domestic literature on security culture. Bošković

et al. define security culture as a set of knowledge, attitudes, values, and behavioral patterns that shape how individuals and institutions perceive and manage security challenges (Bošković et al., 2025). Within this framework, education represents the basic mechanism through which security culture is developed and maintained. Without systematic education, legal and security mechanisms remain formal and often insufficiently effective.

The connection between education and integrated risk management is particularly evident in security-legal professions. Lawyers, security analysts, and public officials in practice face situations in which it is necessary to simultaneously apply legal norms, assess security risks, and consider the social consequences of decisions. Such an ability cannot be developed exclusively through narrowly specialized professional education, but requires a multidisciplinary educational framework that connects law, security, the social sciences, and ethics (Klein, Rice, & Levy, 2012, p. 7).

The andragogical literature also emphasizes the importance of lifelong learning in areas characterized by rapid change and high uncertainty. Živković points out that professional competencies are not static but are continuously developed through formal and non-formal learning, which is particularly important in the fields of security and risk management (Živković, 2016). Integrated risk management, understood as a dynamic process, requires precisely this kind of educational approach.

International research confirms that educational systems that encourage critical thinking and interdisciplinary learning strengthen institutional and social resilience. Analyses in the field of higher education and security indicate that knowledge acquired through educational processes has a longer-term effect on the capacity to respond to risks than short-term administrative measures (Raanan, 2009, pp. 47–48). These findings confirm that education represents a strategic resource of integrated risk management.

These insights confirm that education is one of the key resources of integrated risk management. Through the development of knowledge, competencies, and security culture, educational processes enable the connection of the legal, security, and social dimensions of risk. In this sense, the role of higher education institutions is not secondary or auxiliary, but structural and long-term, because they shape the cognitive and normative foundations on which integrated risk management is based.

4.1. Higher Education Institutions and the Development of Security Culture

In the contemporary security-legal context, education is increasingly recognized as a structural resource of integrated risk management. This under-

standing is based on the assumption that the capacity of societies and institutions to recognize, interpret, and normatively frame risks does not rely solely on formal regulations and institutional mechanisms, but also on the knowledge, values, and competencies of the actors who implement them. Risk, understood as a socially and institutionally mediated phenomenon, requires educational processes that enable the comprehension of its multidimensionality and long-term consequences (Samier, 2015, p. 685).

Theories of education and adult education suggest that professional action under conditions of uncertainty cannot be reduced to the application of predefined procedures. Instead, it requires developing analytical, interpretive, and responsible decision-making capacities in changing circumstances. Milan Despotović emphasizes that adult education aims to develop competencies that enable the transfer of knowledge to new and unpredictable situations, which is particularly important in fields characterized by high risk (Despotović, 2012). Such an approach to education is directly relevant to integrated risk management, which presupposes continuous adaptation to emerging threats and contexts.

In security studies, education is further emphasized for its preventive function. Rather than focusing on reactive responses after harm has occurred, education enables earlier recognition of risks and a deeper understanding of the causal relationships that produce them. Samier points out that educational institutions help shape “security imaginaries,” that is, how risks are conceptualized and legitimized within society (Samier, 2015, pp. 689–690). In this sense, education influences not only individual competencies but also broader societal patterns of risk response.

A particularly important contribution to understanding education as a security resource comes from domestic literature on security culture. Milica Bošković and colleagues define security culture as a set of knowledge, attitudes, values, and behavioral patterns that shape how individuals and institutions perceive and manage security challenges (Bošković et al., 2025). Within this framework, education represents the primary mechanism through which security culture is developed and sustained. Without systematic education, legal and security mechanisms remain formal and often insufficiently effective.

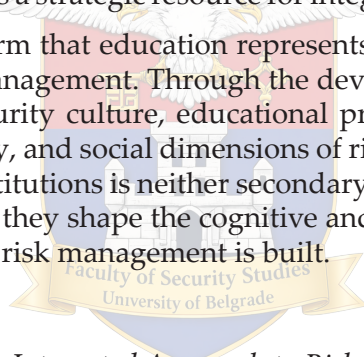
The link between education and integrated risk management is particularly evident in security and legal professions. Legal professionals, security analysts, and public officials are frequently confronted with situations that require the simultaneous application of legal norms, the assessment of security risks, and the consideration of the social consequences of decisions. Such capacities cannot be developed solely through narrowly specialized educa-

tion, but require a multidisciplinary educational framework that integrates law, security, social sciences, and ethics (Klein, Rice & Levy, 2012, pp. 7).

Andragogical literature further emphasizes the importance of lifelong learning in fields characterized by rapid change and high uncertainty. Dragan Živković argues that professional competencies are not static, but are continuously developed through both formal and informal learning processes, which is particularly relevant in the fields of security and risk management (Živković, 2016). Integrated risk management, understood as a dynamic process, requires precisely such an educational approach.

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These insights confirm that education represents one of the key resources of integrated risk management. Through the development of knowledge, competencies, and security culture, educational processes enable the integration of legal, security, and social dimensions of risk. In this sense, the role of higher education institutions is neither secondary nor auxiliary, but structural and long-term, as they shape the cognitive and normative foundations upon which integrated risk management is built.



4.2. *Competencies for an Integrated Approach to Risk*

An integrated approach to risk requires developing specific competencies that go beyond narrowly technical or purely normative knowledge. Within the security-legal context, these competencies include the capacity for systemic thinking, normative reasoning, and decision-making under conditions of uncertainty. Such capacities cannot be developed through short-term training or procedural manuals, but require educational processes that connect theory, practice, and critical reflection.

In andragogical literature, a clear distinction is made between skills and competencies. Milan Despotović emphasizes that competencies imply the ability to apply knowledge in new and unpredictable situations, whereas skills are associated with the routine execution of tasks under familiar conditions (Despotović, 2012, p. 46). This distinction is particularly important for an integrated approach to risk, as contemporary security challenges frequently exceed prior experience.

Further research in adult education highlights the importance of reflective competencies. Dragan Živković argues that professional action in high-risk fields requires the capacity for critical reflection on one's own practices and underlying normative assumptions (Živković, 2016, p. 113). Such reflective capacity enables professionals to recognize the limitations of existing norms and to adapt their actions to new circumstances.

Contemporary security studies further confirm that an integrated approach to risk requires multidisciplinary competencies. Understanding risk involves linking legal norms, security assessments, and social implications, which is possible only if the educational system promotes the integration of diverse perspectives (Samier, 2015, p. 687).

Empirical analyses in higher education indicate that limited educational frameworks lead to fragmented understandings of risk and uncoordinated institutional responses (Raanan, 2009, p. 48). These findings confirm that without education fostering systemic thinking, an integrated approach to risk cannot be sustainable.

It follows that competencies for an integrated approach to risk are fundamentally an educational issue. Higher education institutions, through the design of curricula and pedagogical methods, play a crucial role in developing the knowledge and capacities necessary for understanding and normatively responsible action within contemporary security-legal environments.

An integrated approach to risk presupposes a dynamic set of knowledge and competencies that cannot be acquired or maintained solely through initial education. The pace of change in security threats, normative frameworks, and technological conditions requires continuous learning and professional development for actors involved in the security-legal system. In this sense, lifelong learning constitutes a structural condition for the professionalization of an integrated approach to risk.

Andragogical literature emphasizes that professional competencies in high-risk fields develop through ongoing learning processes that integrate theoretical knowledge, experience, and reflection on practice (Despotović, 2012, p. 45; Živković, 2016, p. 112). This approach is particularly relevant for security-legal professions, where decisions are made under conditions of uncertainty and often under pressure from competing normative demands. Lifelong learning enables professionals not only to adapt their knowledge to new risks but also to critically reassess established patterns of action.

Contemporary analyses of risk management indicate that institutional responses often lag behind changes in the security environment, precisely because of the lack of continuous professional development (Graham, 2009). In the security-legal domain, such lag can have serious consequences, as nor-

mative solutions and security practices lose relevance if they are not accompanied by the development of competencies among those who implement them.

Lifelong learning also has an important normative dimension. Literature linking education, citizenship, and security emphasizes that professional education must include an understanding of human rights, the rule of law, and the ethical limits of security action. Without this dimension, the professionalization of an integrated approach to risk may be reduced to technical training devoid of critical and normative grounding.

Research on education in the context of social and economic security further confirms the importance of continuous learning. Gelepithis and Giani demonstrate that education shapes attitudes toward redistribution, solidarity, and social cohesion—factors that directly influence the perception and management of social risks (Gelepithis & Giani, 2020). These findings suggest that the professionalization of an integrated approach to risk depends not only on technical knowledge but also on the broader educational context that shapes value orientations.

The role of higher education institutions in the institutionalization of lifelong learning is particularly significant. Through professional development programs, specialized studies, and collaboration with practice, universities can provide a stable framework for the development and maintenance of competencies relevant to an integrated approach to risk. Analyses of risk in the higher education sector indicate that institutions that systematically invest in professional development demonstrate greater capacity to adapt to environmental changes (Raanan, 2009).

In the context of security-legal professions, lifelong learning also contributes to the development of a shared professional language. An integrated approach to risk requires coordination among diverse actors and disciplines, which is difficult to achieve without a common foundation of knowledge and understanding. Studies on integrated risk management indicate that the lack of standardized educational frameworks is a key obstacle to the effective integration of different sectors.

Finally, it is important to emphasize that the professionalization of an integrated risk approach through lifelong learning has long-term implications for institutional and societal resilience. Educational processes that enable continuous professional development contribute to the formation of professional communities capable of responding to emerging security challenges in a normatively grounded and socially responsible manner (Klein, Rice, & Levy, 2012). Lifelong learning thus emerges as a key mechanism for the professionalization of integrated risk management. Without continuous

education, the integrated approach remains a theoretical concept of limited practical reach. The role of higher education institutions in this process is therefore strategic, as they provide the institutional framework for the development and maintenance of competencies necessary for contemporary security-legal practice.

Within the security-legal framework, an integrated approach to risk operates within clearly defined normative boundaries that determine the competences, obligations, and responsibilities of institutions and individuals. Law, in this sense, does not function as an abstract regulator of risk, but as a normative system that guides action under conditions of uncertainty, both constraining and enabling legitimate forms of security practice. Understanding this normative function of law requires knowledge and competencies acquired through educational processes, particularly within higher education.

Contemporary risks often emerge in forms that are not fully anticipated by existing normative frameworks. In such circumstances, legal norms do not operate automatically, but require interpretation and application in concrete security situations. This interpretative space does not represent a legal gap, but rather a domain of professional responsibility for those who apply the law. Doscher highlights that education plays a crucial role in developing the capacity to reconcile security demands with legal standards, particularly in situations involving value conflicts or heightened social pressure (Doscher, 2008).

In this context, an integrated approach to risk requires actors capable of understanding the legal consequences of security decisions and the security implications of legal solutions. Graham (2009) emphasizes that fragmented normative and institutional frameworks complicate the management of complex risks, leading to partial and often uncoordinated decisions. Education plays a decisive role in overcoming these limitations by enabling the integration of legal knowledge with broader security and social insights.

A particularly important issue in this context is professional and institutional responsibility. Security-legal decisions are often made under conditions of limited information and time pressure, where responsibility cannot be fully transferred to normative frameworks or hierarchical structures. Education contributes to the development of the capacity to assess proportionality, necessity, and legality of measures, which constitutes the foundation of responsible action in accordance with the rule of law.

Studies examining the relationship among education, security, and social values indicate that legal responsibility cannot be separated from actors' value orientations. Gelepathis and Giani demonstrate that education influences understandings of solidarity, social cohesion, and responsibility, thereby

indirectly shaping how social and security risks are addressed (Gelepithis & Giani, 2020). These findings confirm that risk management is not solely a technical or normative issue, but also a matter of attitudes and values shaped through education.

Empirical analyses of risks in public and educational institutions further confirm the importance of education for a clear understanding of responsibility. Reports on key risks indicate that insufficient understanding of legal obligations, divisions of competence, and communication among actors often contributes to the escalation of risks and institutional failures (United Educators, 2023). These findings have broader implications within the security-legal context, highlighting the need for education that fosters a clear understanding of responsibility in complex institutional environments.

The role of education in this context is not limited to the transmission of knowledge about existing regulations. It also encompasses the development of normative reasoning, an understanding of the consequences of decisions, and awareness of the limits of legitimate security action.

Based on the above, it can be concluded that education represents a key link between law, security, and responsibility within an integrated approach to risk. Through educational processes, the capacity is developed to apply the law in complex security situations in a lawful, proportional, and socially responsible manner. Higher education institutions, as the primary providers of such education, therefore play a central role in building a normatively grounded and sustainable framework for integrated risk management.

5. Conclusion

Contemporary security challenges, characterized by complexity, interdependence, and uncertainty, require approaches that transcend traditional, sectorally fragmented models of response. Integrated risk management has emerged as a response to this reality; however, its implementation depends not solely on normative and institutional solutions, but to a decisive extent on the knowledge, competencies, and value frameworks of the actors operating within these systems. In this context, education—particularly higher education—represents a structural precondition for a sustainable and legitimate integrated approach to risk.

This paper has demonstrated that integrated risk management cannot be reduced to a technical-administrative concept. It entails a multidisciplinary understanding of risk, the capacity for systemic analysis of security threats, and normatively grounded decision-making under conditions of uncertainty. These capacities are primarily developed through educational processes

that integrate law, security studies, social sciences, and ethics, enabling future professionals to act responsibly and in accordance with the principles of the rule of law.

Particular attention has been paid to the role of higher education institutions in developing security culture and professional competencies relevant to an integrated approach to risk. Universities constitute a key environment in which professional identities, interpretative frameworks, and value orientations of future actors in the security-legal domain are formed. Through education that fosters critical thinking, multidisciplinary, and normative reasoning, higher education institutions help strengthen both institutional and societal resilience.

The analysis has also shown that lifelong learning occupies a central position in the professionalization of an integrated approach to risk. The dynamic nature of contemporary security threats and the evolving character of normative frameworks require continuous development of knowledge and competencies. In this sense, education is not a one-time process, but a permanent mechanism of adaptation and responsible action in complex security-legal environments.

In conclusion, an integrated approach to risk management is not sustainable without a strong educational foundation. The role of higher education institutions in this process is not auxiliary, but essential and long-term, as it is through education that the knowledge, competencies, and values are developed which enable normatively grounded, responsible, and socially legitimate management of contemporary risks.

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