CHAPTER 3 THEORY AND METHODS OF VOCATIONAL EDUCATION

ADVANCING ECONOMIC EDUCATION IN POLAND: CHALLENGES, INNOVATIONS, AND FUTURE PERSPECTIVES

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Abstract. Economic education is a cornerstone for cultivating informed citizens capable of navigating complex financial systems, making sound decisions, and contributing to sustainable economic growth. In Poland, the significance of economic education is increasing as the country integrates with the European Union and adapts to global challenges such as economic crises, technological advancements, and environmental imperatives. This article examines the current state of economic education in Poland, focusing on challenges, innovative approaches, and future perspectives. The article aims to provide a comprehensive overview of the efforts to advance economic education in Poland. It highlights systemic and pedagogical challenges, explores innovative teaching methodologies, and outlines strategies to align economic education with global and European Union standards. This study seeks to contribute insights into creating an inclusive and effective framework to empower citizens and support national economic resilience. The study employs a qualitative approach, synthesizing findings from academic literature, policy reports, and case studies. It identifies and analyzes key challenges, including outdated curricula, teacher preparedness, and resource limitations. It also examines the adoption of innovations such as digital tools and experiential learning. Comparative analysis situates Poland's efforts within broader European and global contexts, emphasizing practical implications for stakeholders. The analysis reveals a complex interplay of progress and persistent barriers in Poland's economic education landscape: challenges; innovations; alignment with standards and future perspectives. Future research should evaluate the long-term impact of recent innovations on economic literacy and assess their scalability. Interdisciplinary approaches that integrate behavioral economics, data analytics, and environmental studies require further exploration. Additionally, studies addressing systemic reform strategies and the role of public-private partnerships in advancing economic education will be critical for shaping Poland's trajectory in a globalized economy.

Keywords: Poland; economic education; financial literacy; digital tools in education; experiential learning; curriculum innovation; interdisciplinary approaches; European Union standards; sustainable development education.

JEL Classification: A 23, I 21, I 23, I 24, I 28 Formulas: 0; fig.: 3; tabl.: 1; bibl.: 19 **Introduction.** Economic education plays a pivotal role in shaping informed citizens capable of navigating complex financial systems, making sound decisions, and contributing to sustainable economic growth. In Poland, the importance of economic education has gained increasing recognition, particularly in the face of global challenges such as economic crises, technological disruption, and environmental sustainability. As the country continues to integrate more deeply with the European Union and adapt to global market dynamics, equipping individuals with robust economic literacy has become a national priority.

This article explores the current state of economic education in Poland, identifying the key challenges that educators and policymakers face in developing effective curricula and delivery methods. It also highlights innovative approaches and tools being implemented to enhance learning outcomes, ranging from digital platforms to experiential learning initiatives. Finally, it examines future perspectives, focusing on the strategies and reforms necessary to ensure that Poland's economic education system evolves to meet the demands of an increasingly interconnected and knowledge-driven global economy.

By addressing these themes, this article aims to provide a comprehensive overview of the efforts to advance economic education in Poland, offering insights that are relevant not only to educators and policymakers but also to stakeholders in other countries striving for similar advancements.

Literature review. The field of economic education has garnered considerable attention globally, with researchers emphasizing its importance in fostering financial literacy, critical thinking, and informed decision-making. This section reviews key literature relevant to advancing economic education, focusing on the challenges, innovations, and future perspectives, with a particular emphasis on the context of Poland.

Economic education in Poland has historically faced structural and pedagogical challenges. Studies such as those by Rybicka (2018) and Kowalski (2020) highlight the legacy of outdated curricula, which often fail to address contemporary economic realities, such as globalization and digital transformation. The lack of teacher preparedness and insufficient integration of interdisciplinary approaches further limit the effectiveness of economic education. Nowak and Szewczyk (2017) argue that systemic underinvestment in education infrastructure, including technological tools, has constrained the ability of schools to deliver modern economic education.

In Poland, the transformation from a centrally planned economy to a marketoriented system has heightened the need for economic education that equips individuals with the skills to make informed financial and economic decisions (Kwiatkowski, 2015). Studies indicate that economic education contributes significantly to civic engagement and financial responsibility, as it enhances individuals' understanding of economic policies and their implications (Berti & Cipollone, 2017).

In the broader European context, challenges similar to those in Poland have been documented, particularly the gap between theoretical economic knowledge and practical financial literacy. European Commission reports (2021) point to the need for contextually relevant curricula that address local economic environments while

adhering to broader EU standards. The integration of Poland into the European Union further underscores the importance of aligning economic education with European standards. However, challenges such as limited teacher preparation, inadequate resources, and outdated curricula hinder progress (Łagowska, 2020). Furthermore, disparities in access to quality education across urban and rural areas exacerbate inequalities in economic literacy (Gajewska & Wójcik, 2019).

Innovative approaches in economic education are increasingly reshaping the landscape in Poland and beyond. For instance, e-learning platforms have been shown to improve student engagement and knowledge retention in economics courses (Nowakowska et al., 2021). Moreover, experiential learning approaches, such as simulations and real-world economic problem-solving activities, are gaining traction as effective strategies to bridge the gap between theoretical knowledge and practical application (Sobczak, 2018).

Digital platforms, gamification, and experiential learning methods have emerged as effective tools for engaging students and fostering a deeper understanding of economic concepts. For instance, Jakubik and Zajac (2019) analyze the impact of simulation-based learning and find significant improvements in student engagement and retention rates.

Global trends also influence Poland's approach to innovation in education. Studies such as Hess and Ludlow (2020)emphasize the importance of integrating real-world economic problems and data analytics into classroom instruction. In Poland, initiatives like online financial literacy campaigns and partnerships between schools and businesses are gaining traction, as noted by Piekarska (2021).

Looking forward, the literature identifies several promising directions for economic education in Poland. Borowiecki (2022) stresses the importance of aligning educational goals with labor market demands, particularly as Poland seeks to strengthen its position within the global knowledge economy. The integration of digital technologies, such as artificial intelligence and big data analytics, into economic education is seen as essential for preparing students for future challenges.

Furthermore, Czerniawski and Wojtasik (2023) advocate for a more inclusive approach that addresses the economic education needs of diverse populations, including marginalized communities. Their research underscores the value of lifelong learning frameworks to ensure economic education remains relevant in an ever-changing economic environment.

Future research suggests a growing need to integrate interdisciplinary approaches into economic education, combining insights from behavioral economics, data analytics, and environmental studies to prepare students for a dynamic economic landscape (Ziółkowska, 2022). By addressing these areas, Poland has the potential to create a robust economic education framework that empowers its citizens and strengthens its economy.

The literature underscores the multifaceted nature of advancing economic education in Poland, highlighting both the persistent challenges and the innovative strides being made. While Poland has made significant progress in embracing digital tools and experiential learning, the need for systemic reforms remains paramount. Future research should focus on evaluating the long-term impact of these innovations and exploring new methodologies to further enhance economic education, ensuring that it meets the demands of a rapidly evolving global landscape.

Aims. The aim of this article is to explore the current state of economic education in Poland, focusing on the challenges, innovative approaches, and future directions necessary to create a robust, inclusive, and forward-thinking framework. It seeks to provide insights into how Poland can align its economic education system with global trends, European Union standards, and labor market demands while addressing systemic barriers and regional inequalities.

Methodology. This article employs a qualitative approach, synthesizing data from existing literature, policy reports, and case studies on economic education in Poland and the broader European context. The research analyzes structural, pedagogical, and resource-related challenges while highlighting examples of successful innovations, such as digital tools and experiential learning methods. Additionally, it incorporates a comparative analysis to align findings with global and EU economic education standards, offering actionable insights for educators and policymakers.

Results. Economic education in Poland is at a crossroads, reflecting both its progress and persisting challenges. As the country continues its integration with the European Union and adapts to global economic trends, the need for a robust and modern economic education framework has become increasingly evident. Despite some advancements, several structural, pedagogical, and resource-related issues limit the effectiveness of economic education in Poland (Figure 1).

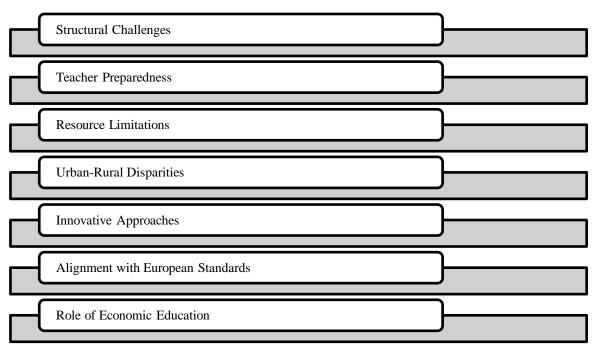


Figure 1. The Current State of Economic Education in Poland *Sources: developed by author*

Structural challenges. Poland's economic education system has struggled with outdated curricula that often fail to address contemporary economic realities. Key topics such as globalization, digital transformation, and sustainable development are

insufficiently covered in traditional economic courses. Studies indicate that these curricula often focus on theoretical knowledge without adequately preparing students for practical financial decision-making or fostering critical economic thinking.

Teacher preparedness. A significant barrier to advancing economic education is the limited preparedness of educators. Many teachers lack specialized training in economics, particularly in integrating interdisciplinary approaches such as behavioral economics or data analytics into their teaching. The gap between teacher qualifications and the demands of modern economic education reduces the quality and effectiveness of instruction.

Resource limitations. Systemic underinvestment in educational infrastructure further hampers progress. Schools often lack the technological tools and resources needed to deliver engaging and interactive economic education. This deficit is particularly pronounced in rural areas, where disparities in access to quality education exacerbate inequalities in economic literacy.

Urban-rural disparities. Economic education in Poland is marked by regional inequalities. Urban schools generally have better access to resources, qualified teachers, and innovative teaching methods. In contrast, rural areas face significant challenges, including fewer opportunities for teacher training, limited access to technology, and less exposure to experiential learning methods.

Innovative approaches. Despite these challenges, Poland has made strides in embracing innovative approaches to economic education. E-learning platforms, gamification, and experiential learning methods are being introduced to improve student engagement and bridge the gap between theoretical knowledge and practical application. Initiatives such as simulation-based learning and partnerships between schools and businesses are gaining traction, though their adoption remains uneven across the country.

Alignment with European Standards. As a member of the European Union, Poland is working to align its economic education with broader EU standards. Efforts include revising curricula to incorporate European economic policies and promoting financial literacy campaigns. However, the pace of these reforms has been slow, and challenges such as limited teacher preparation and outdated instructional materials persist.

Role of Economic Education. Economic education in Poland plays a critical role in fostering financial literacy, civic engagement, and informed decision-making. As the country transitions to a knowledge-based economy, equipping individuals with economic skills is vital for both personal and national development. However, achieving these goals requires a more comprehensive approach to addressing systemic issues and embracing innovative teaching practices.

The current state of economic education in Poland is characterized by a mix of challenges and opportunities. While progress has been made in adopting digital tools and modern teaching methods, significant reforms are needed to overcome structural and resource-related barriers. By addressing these issues, Poland can build a more inclusive and effective economic education system that empowers its citizens and strengthens its economy.

The main challenges of economic education in Poland stem from structural, pedagogical, and systemic issues that hinder the effectiveness and accessibility of learning. These challenges presented by Figure 2.

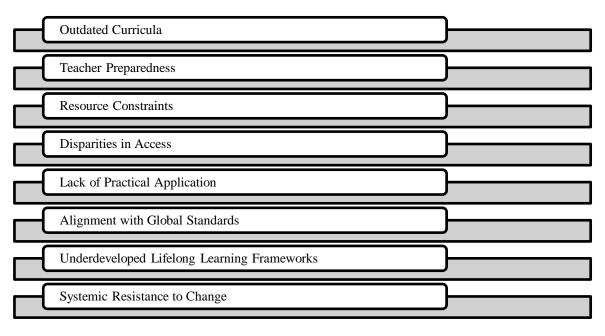


Figure 2. The main challenges of economic education in Poland *Sources: developed by author*

Outdated curricula. Many economic education programs in Poland rely on traditional teaching materials that fail to address contemporary issues such as globalization, digital transformation, and environmental sustainability. Limited integration of practical financial literacy and real-world economic applications leaves students unprepared for current market realities.

Teacher preparedness. Insufficient training and professional development opportunities for teachers result in limited pedagogical innovation and expertise in economic education. A lack of interdisciplinary teaching approaches constrains the ability of educators to connect economics with other relevant fields like technology, behavioral sciences, and environmental studies.

Resource constraints. Systemic underinvestment in educational infrastructure, including technological tools and digital platforms, limits schools' capacity to modernize economic education. Disparities in funding between urban and rural schools exacerbate inequalities in access to quality resources and learning environments.

Disparities in access. Significant gaps in the availability and quality of economic education between urban and rural areas contribute to regional inequalities in economic literacy. Students in underprivileged regions often face barriers such as fewer qualified teachers, limited extracurricular opportunities, and inadequate exposure to modern teaching methods.

Lack of practical application. A gap between theoretical knowledge and practical financial literacy remains a persistent issue, making it difficult for students to apply what they learn to real-life situations. Limited use of experiential learning tools, such

as simulations and case studies, reduces the engagement and retention of economic concepts.

Alignment with global standards. Despite Poland's integration into the European Union, aligning economic education with EU standards remains a challenge due to differences in curriculum design and priorities. The absence of a cohesive strategy to incorporate global economic trends and challenges into local education systems hinders progress.

Underdeveloped lifelong learning frameworks. Economic education largely focuses on formal schooling, with limited initiatives to promote lifelong learning for adults and marginalized communities. As a result, many individuals lack opportunities to update their economic knowledge and skills in response to an evolving economy.

Systemic resistance to change. Resistance from institutions and stakeholders to adopt innovative teaching methods, such as gamification, digital tools, and interdisciplinary approaches, slows down reform efforts. Bureaucratic hurdles and fragmented policymaking processes further complicate the implementation of comprehensive reforms.

Addressing these challenges requires systemic reforms, enhanced investment in education infrastructure, and a commitment to modernizing curricula and teaching practices. Such efforts can ensure that Poland's economic education system equips students and citizens with the skills and knowledge needed for a dynamic global economy.

Main Innovations in Economic Education in Poland. Economic education in Poland has seen a wave of innovations aimed at addressing structural challenges and equipping students with practical skills to navigate the modern economic landscape. These advancements focus on leveraging technology, adopting experiential learning methods, and fostering interdisciplinary approaches to enhance the relevance and engagement of economic education. The primary areas of innovation presented by Table 1.

Innovation	Describtion
Integration of Digital Tools and Platforms	E-Learning Platforms
	Gamification
	Mobile Applications
	Virtual Reality (VR) and Augmented Reality (AR)
Experiential Learning Approaches	Economic Simulations
	Real-World Problem Solving
	Internships and Partnerships
Curriculum Modernization	Inclusion of Behavioral Economics
	Focus on Financial Literacy
	Environmental Economics
Use of Interdisciplinary Approaches	Data Analytics
	Sociology and Politics
	STEM Integration
Lifelong Learning Initiatives	Online Financial Literacy Campaigns
	Community Workshops
	Corporate Training Programs
Emphasis on Equity and	Technology Access Programs
Accessibility	Teacher Training and Resources

Table 1. Main Innovations in Economic Education in Poland

Sources: developed by author

Integration of digital tools and platforms. The rise of digital technologies has revolutionized the delivery of economic education in Poland. Key advancements include:

–E-Learning Platforms - Tools like Moodle, Edmodo, and locally developed platforms provide interactive modules, quizzes, and simulations to enhance learning. Studies (Nowakowska et al., 2021) show that these platforms significantly improve student engagement and retention in economic subjects.

-*Gamification:* Games and simulations, such as market simulation software or stock market challenges, are increasingly used to teach students about complex economic systems. For instance, Jakubik and Zajac (2019) highlight how simulation-based learning improves critical thinking and decision-making skills.

–Mobile Applications: Apps designed for financial literacy and basic economic principles allow students to learn on-the-go. These tools make education more accessible and cater to different learning styles.

-Virtual Reality (VR) and Augmented Reality (AR): Emerging technologies are being piloted in select schools and universities to create immersive learning environments, such as virtual stock trading floors or simulations of economic scenarios.

Experiential Learning Approaches. Experiential learning methods bridge the gap between theoretical knowledge and practical application. These include:

–Economic simulations: Role-playing exercises where students simulate running a business, managing budgets, or making policy decisions. These activities foster teamwork, problem-solving, and application of economic theories in real-world contexts (Sobczak, 2018).

–Real-world problem solving: Students are increasingly engaged in tackling local or global economic issues, such as evaluating the impact of inflation or proposing solutions to unemployment. Such projects often involve collaboration with local businesses or community organizations.

– Internships and partnerships: Schools and universities are forming partnerships with businesses, banks, and governmental institutions to offer internships and handson learning opportunities. Piekarska (2021) notes that these collaborations enhance students' understanding of market dynamics and prepare them for future careers.

Curriculum modernization. Traditional curricula have been updated to reflect contemporary economic realities and better align with global trends. Notable innovations include:

-Inclusion of behavioral economics: Recognizing the role of psychology in economic decision-making, courses now include insights from behavioral economics to provide a more comprehensive understanding of consumer and business behavior (Ziółkowska, 2022).

–Focus on Financial Literacy: With the rise of consumer debt and financial complexities, schools are emphasizing personal finance management, investment strategies, and understanding credit systems.

– Environmental economics: As sustainability becomes a global priority, economic education increasingly integrates topics like green economics, circular economy, and the economic impacts of climate change.

Use of Interdisciplinary Approaches. Economic education in Poland is moving beyond traditional boundaries by incorporating insights from other disciplines:

– Data Analytics: Courses are integrating data visualization and analytics tools like Excel, Python, and R to help students interpret economic data and trends.

-*Sociology and politics*: To understand the broader context of economic systems, curricula now include topics like social inequality, political economy, and globalization.

–STEM integration: Economic education is being linked with STEM fields to explore areas like the economic implications of technological advancements and innovation.

Lifelong learning initiatives. Economic education is no longer limited to schools and universities. Poland is investing in lifelong learning initiatives to ensure continuous skill development:

-*Online financial literacy campaigns*: Nationwide campaigns target adults to improve their understanding of personal finance, investment, and economic principles.

-*Community workshops*: Local governments and NGOs organize workshops for marginalized communities to address disparities in economic literacy (Czerniawski & Wojtasik, 2023).

– Corporate training programs: Businesses are partnering with educational institutions to provide tailored economic training for employees, particularly in areas like financial planning and market analysis.

Emphasis on equity and accessibility. Efforts are being made to reduce disparities in economic education, particularly between urban and rural areas:

– Technology access programs: Initiatives to provide schools in rural areas with computers, internet access, and digital tools ensure that students have equal opportunities to engage in innovative learning methods.

– Teacher training and resources: Comprehensive training programs are equipping teachers with the skills to use digital tools, adopt experiential learning techniques, and deliver interdisciplinary curricula effectively.

The innovations in economic education in Poland reflect a commitment to creating a system that is modern, inclusive, and aligned with global trends. By integrating digital tools, adopting experiential learning methods, and focusing on interdisciplinary and lifelong learning approaches, Poland is laying the groundwork for an economically literate society prepared to face the challenges of the future. These advancements not only address long-standing issues but also position the country as a leader in innovative economic education practices.

Main Future Perspectives in Economic Education in Poland. Economic education in Poland is poised for significant transformation, driven by the need to address current challenges and align with global and regional trends. The key future perspectives presented by Figure 3.

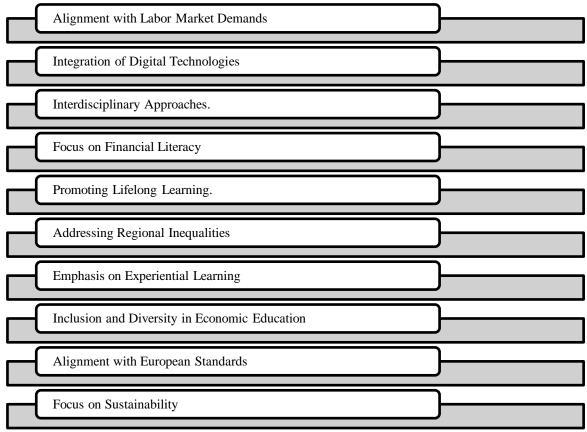


Figure 3. Main Future Perspectives in Economic Education in Poland *Sources: developed by author*

Alignment with Labor Market Demands. Economic education must evolve to equip students with skills that align with the needs of a dynamic and increasingly digitized labor market. This includes a stronger focus on problem-solving, critical thinking, and technical competencies such as data analysis, financial modeling, and digital literacy. Integrating market-relevant skills into curricula will prepare students for emerging industries and roles.

Integration of digital technologies. The adoption of digital tools, including artificial intelligence (AI), big data, and online learning platforms, is essential to modernizing economic education. These technologies can enhance personalized learning, facilitate real-time data analysis, and improve accessibility for students in remote or underserved areas. Poland's increasing focus on e-learning platforms, gamification, and simulation-based learning reflects this trend.

Interdisciplinary approaches. Future economic education will likely embrace interdisciplinary frameworks that combine insights from behavioral economics, environmental studies, and data science. This approach will enable students to understand the interconnectedness of economic, social, and environmental issues, fostering a more holistic perspective.

Focus on financial literacy. Strengthening financial literacy among students and the broader population remains a priority. Programs aimed at teaching practical financial skills, such as budgeting, investing, and understanding economic policies, are critical to fostering informed decision-making and reducing economic disparities.

Promoting lifelong learning. Economic education is expected to extend beyond formal schooling to embrace lifelong learning models. By offering courses, workshops, and certifications for adults, Poland can ensure that individuals of all ages remain economically informed and adaptable to changes in the global economy.

addressing regional inequalities. Efforts to bridge the gap in economic education between urban and rural areas are likely to intensify. Investments in infrastructure, teacher training, and digital access in rural regions will help create more equitable opportunities for economic literacy.

Emphasis on experiential learning. Experiential learning methods, such as case studies, internships, and collaborative projects with businesses, will become more integral to economic education. These approaches help students apply theoretical knowledge to real-world scenarios, enhancing their practical understanding of economics.

Inclusion and diversity in economic education. Future initiatives will aim to create more inclusive economic education programs that address the needs of diverse populations, including marginalized and economically disadvantaged groups. Tailored approaches will help ensure that all individuals have access to quality education and resources.

Alignment with European standards. As a member of the European Union, Poland will continue aligning its economic education with EU standards. This involves incorporating EU-centric economic principles, sustainability goals, and policies to prepare students for participation in the broader European economic framework.

Focus on sustainability. Given the increasing importance of sustainability in global economic discussions, economic education in Poland will likely incorporate topics such as green finance, circular economies, and sustainable development goals (SDGs). This will help students understand the role of economics in addressing environmental challenges.

By pursuing these future perspectives, Poland has the opportunity to establish a robust and forward-thinking economic education framework, equipping its citizens with the knowledge and skills necessary to thrive in an increasingly interconnected and knowledge-driven world.

Discussion. Economic education in Poland faces a dual reality of significant challenges and promising opportunities. On one hand, systemic issues such as outdated curricula, insufficient teacher preparedness, and resource constraints hinder progress. Regional disparities between urban and rural areas exacerbate inequalities, limiting access to quality education for marginalized populations.

On the other hand, innovative approaches such as e-learning platforms, gamification, and interdisciplinary methods are reshaping economic education. Digital tools, experiential learning initiatives, and partnerships with businesses provide students with practical skills and real-world applications. Efforts to integrate behavioral economics, environmental economics, and financial literacy into curricula reflect a growing alignment with global trends.

Future perspectives point toward an increased emphasis on lifelong learning, digital integration, and alignment with labor market needs. Addressing regional

inequalities, enhancing teacher training, and modernizing infrastructure are crucial for ensuring equitable and effective economic education. By adopting systemic reforms and leveraging innovative methodologies, Poland has the potential to establish a leading economic education framework that meets the demands of a rapidly evolving global economy.

Conclusion. Economic education in Poland stands at a crucial juncture, balancing significant challenges with transformative opportunities. While systemic issues such as outdated curricula, insufficient teacher preparedness, and regional inequalities continue to hinder progress, the country has demonstrated its commitment to addressing these barriers through innovative approaches. The integration of digital tools, experiential learning methods, and interdisciplinary frameworks highlights Poland's proactive steps toward modernizing economic education.

As the nation strives to align its education system with European Union standards and global economic trends, the adoption of lifelong learning models, the promotion of financial literacy, and the emphasis on sustainability emerge as key priorities. By fostering an inclusive and equitable approach, Poland can bridge the urban-rural divide and ensure that all citizens, regardless of socioeconomic background, have access to quality economic education.

Looking forward, the success of Poland's economic education reforms will depend on sustained investment in infrastructure, comprehensive teacher training, and the willingness to embrace systemic change. By addressing these areas, Poland can build a robust and forward-thinking framework that empowers individuals with the knowledge and skills needed to navigate an increasingly complex and interconnected global economy. This commitment not only strengthens the nation's economic resilience but also positions Poland as a leader in innovative and impactful economic education practices.

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