

Integrating Artificial Intelligence into Vocational Higher Education in Albania: Opportunities and Challenges

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Introduction

- Integration: AI can enhance vocational education by personalizing learning
- Examines how AI can enhance vocational learning and what barriers must be addressed



Global & National Context

- International Practices
 - Finland: Personalized AI learning systems
- Germany: AI-driven simulations and vocational training
- Albanian Framework
 - Law No. 8872/2002 & Law 206
 - Digital competencies emphasized, but gaps in infrastructure



Challenges

- Infrastructure Gaps: Significant digital divide, urban-rural divide
- Lack of AI Training: Educators need ongoing digital upskilling
- Ethical Risks: Data privacy, algorithmic bias, unclear regulation
- Institutional Resistance: Fear of change, lack of trust in AI tools
- Update Curricula to include AI and digital literacy



Opportunities

- Personalized Learning
 - Real-time adaptation to student needs
- Data-Driven Teaching
 - Learning analytics & formative assessments
- Practical Simulations
 - Data, privacy, algorithmic bias; unclear regulations
- Flexible Access
 - Fear of change; lack of trust in AI and digital literacy



Recommendations

- Develop a national AI strategy for VET
- Invest in infrastructure and digital connectivity
- Offer continuous training for educators on AI tools
- Create ethical frameworks for data use and transparency
- Foster cross-sector collaboration (gov-acad-industry)



Conclusions

- AI can transform vocational higher education by personalizing learning, enhancing technical skills, and increasing labor market relevance
- "Next steps: National guidelines" include outcomes, curriculum, policy-making