



PLANO DE AULA

A Transição Tecnológica da Crise para a Sustentabilidade

 <p>QUADRAT WIRTSCHAFTS- UNIVERSITÄT WOLFGANG</p> <p>Austria</p>	 <p>Daria Bge-Milli Eğitim Müdürlüğü</p> <p>Turkey</p>	 <p>CAMPUS 02 Fachhochschule der Wirtschaft GmbH</p> <p>Austria</p>	 <p>ΔΙΕΥΘΥΝΣΗ ΔΕΥΤΕΡΙΑΣ ΕΚΠΑΙΔΕΥΣΗΣ ΚΕΦΑΛΛΙΝΙΑΣ</p> <p>Greece</p>	 <p>Jaunpilsbalvis vidusskola</p> <p>Latvia</p>	 <p>SUCCESSOS criativos</p> <p>Sucessos Criativos, Lda</p> <p>Portugal</p>	 <p>Средна общинска школа Каравелов</p> <p>Bulgaria</p>
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AI-GREENER

2024-1-AT01-KA220-SCH-
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Autores

Ginásio Mesovounion com Aulas do
Liceu



Ourania Tsoutsi

Aviso



Co-funded by
the European Union

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1. TÍTULO

A Transição Tecnológica da Crise para a Sustentabilidade: A História das Crises Ambientais e IA Soluções

2. NÍVEL DE

ISCED Nível 3 Ensino Secundário Superior (15-18) anos

3. ÁREA TEMÁTICA

História

4. TIPO

Plano de

5. DURAÇÃO

Sessão dupla (2 × 60 minutos) projeto ou trabalhos de casa

6. OBJETIVOS DE

- O1: Os alunos irão analisar criticamente exemplos históricos da economia e do crises ambientais, identificando relações causais entre política, economia e degradação ambiental.
- O2: Os alunos irão avaliar a evolução histórica do conceito de 'sustentabilidade' e 'verde' empreendedorismo' como resposta a estas crises (Pensamento Histórico).
- O3: Os alunos irão desenhar uma "IA" teórica startup impulsionada" para resolver um ambiente histórico Desafio, aplicando os princípios do empreendedorismo digital verde.

7. Competências Chave Desenvolvidas

- Literacia
- Competência matemática e competência em STEM
- Competência digital
- Competência de



- Entrepreneurship competence

8. Prior Knowledge / Prerequisites

Basic knowledge of contemporary Greek and world history, according to the C' Lyceum General Education curriculum. Critical thinking skills are essential.

9. Lesson/Project Outline

Phase 1 – Introduction (Engage & Contextualize)

Instructions & Activities: Historical mapping of major 20th-century environmental and economic crises (e.g., the Greek economic crisis). Analysis of how past technological and economic decisions created current challenges. Introduction of the concept of "historical responsibility."

Expected Output: Recognition of historical crises and framing the need for AI-driven solutions.

Resource (name)	Link (to the folder on Teams)
Historical Sources: Crisis Analysis (DOCX)	https://teams.microsoft.com/l/doc/Lesson3/Historical_Sources_Crisis_Analysis.docx

Phase 2 – Exploration (Investigate & Compare)

Instructions & Activities: Critical analysis of historical sources, comparing past methods of dealing with environmental challenges to the modern approach of Green Entrepreneurship. Examination of the difference between simple mechanization and the use of AI for predictive climate modeling and proactive action. Investigation leads to drafting a report identifying historical weaknesses in crisis management.

Expected Output: Report outlining historical weaknesses and proposing how technological transition can overcome them.

Resource (name)	Link (to the folder on Teams)
Source Analysis Document (DOCX)	https://teams.microsoft.com/l/doc/Lesson3/Source_Analysis_Document.docx

Phase 3 – Application (Hands-On Practice)

Instructions & Activities: Historical AI Intervention Project: Teams hypothesize that AI existed during their chosen crisis and design a technological solution (an AI-driven startup) that would have prevented the disaster. Using the principles of green digital entrepreneurship, students create a



Pitch Deck explaining how AI would use historical data to create business value and restore the environment.

Expected Output: Completed Pitch Deck (PPTX) based on the principles of green digital entrepreneurship.

Resource (name)	Link (to the folder on Teams)
Template: Pitch Deck (PPTX)	https://teams.microsoft.com/l/doc/Lesson3/Template_Pitch_Deck.pptx
Guide: Digital Green Entrepreneurship (PDF)	https://teams.microsoft.com/l/doc/Lesson3/Guide_Digital_Green_Entrepreneurship.pdf

Phase 4 – Reflection & Consolidation (Present & Connect)

Instructions & Activities: Presentation of the Pitch Decks and Peer Review assessment. Reflection focuses on connecting historical knowledge with digital innovation. Discussion on the necessity for understanding past mistakes to guide sustainable development decisions , strengthening students' Citizenship Competence.

Expected Output: Enhanced Citizenship Competence and critical thinking capacity regarding history and technology.

Resource (name)	Link (to the folder on Teams)
Pitch Deck Assessment Protocol (DOCX)	https://teams.microsoft.com/l/doc/Lesson3/Protocol_Pitch_Deck_Assessment.docx

10. Assessment Criteria

Assessment checks critical analysis (O1) and entrepreneurial application (O3).

Quiz (Open questions): Evaluation of the critical analysis from Phase 2 (understanding causal relationships in historical crises).

Portfolio: Includes the final presentation (Pitch Deck) and documentation of sources/arguments.

Resource (name)	Link (to the folder on Teams)
Quiz Form (DOCX)	https://teams.microsoft.com/l/doc/Lesson3/Quiz_Form.docx



11. Teaching Materials

Name	Type (Developed/Existing)	Link	Role in the lesson
Source Analysis Document	Developed (DOCX)	https://teams.microsoft.com/l/doc/Lesson3/Source_Analysis_Document.docx	Structured critical evaluation of historical responses (Phase 2).
Template: Pitch Deck	Developed (PPTX)	https://teams.microsoft.com/l/doc/Lesson3/Template_Pitch_Deck.pptx	Core tool for application and presentation of the business idea (Phase 3).
eGuide to Digital Green Entrepreneurship	Existing (Conceptual Link)	https://ai-greener.eu/e-guide-download	Reference framework for green entrepreneurship principles.

12. External Resources and References

Resource (name)	Link (external or to the folder on Teams)
ME GSEVEE Annual Report (2020): Digital Transformation	((https://imegsevee.gr/wp-content/uploads/2020/07/IME_GSEVEE_2020_Report.pdf))
Environment and Entrepreneurship (Manual)	http://repository.edulll.gr/edulll/retrieve/6959/1668_2_%CE%95%CE%9D%CE%9F%CE%A4%CE%97%CE%A4%CE%91%2012_COVER.pdf

