



**S.E.VET**  
SOCIAL ENTREPRENEURS



Ref. Ares(2023)4048788 - 10/01/2024

# S.E.VET– Capacity Building Programme



Centrul pentru  
Educație  
Antreprenorială  
și  
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# Sub-Unit 3.2: Identifying Opportunities for Innovation

In this session, we explore how to identify opportunities for innovation within the engineering sector, focusing on harnessing emerging technologies and creative problem-solving techniques to address social challenges. By leveraging design and systems thinking, we aim to equip participants with the skills to recognize and develop engineering solutions that not only solve technical problems but also create significant social value and impact.



“

Innovation distinguishes between a leader  
and a follower.

Steve Jobs

”



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# Introduction and Overview

Welcome to the session on Identifying Opportunities for Innovation in the Engineering Sector.

We will explore how emerging technologies and trends can address complex social issues through innovative engineering solutions.

Our journey will cover the theoretical aspects of innovation in engineering, followed by practical applications and case studies.

We aim to inspire you to think creatively and apply these insights to develop solutions that have a meaningful social impact.



# Theoretical Framework

Emerging Trends and Technologies – Understanding the Future of Engineering (30minutes)

- The engineering sector is evolving rapidly with advancements like AI, IoT, and sustainable energy.
- These technologies offer new ways to address environmental and social issues



# Theoretical Framework

Brainstorming Sessions - Generating Innovative Ideas (20 minutes)

- Brainstorming is essential for fostering creativity and solving social problems.
- Techniques and frameworks help guide effective brainstorming sessions.



# Theoretical Framework

Prototyping and Testing - Developing and Refining Solutions (20 minutes)

- Prototyping allows us to test and improve ideas before full-scale implementation.
- Inquiry-based and multidisciplinary approaches enhance the effectiveness of prototypes.



# Theoretical Framework

Stakeholder Collaboration - Enhancing Solutions through Collaboration (15 minutes)

- Engaging stakeholders ensures solutions are relevant and impactful.
- Diverse perspectives improve the refinement and implementation of ideas.





# Practical Application

## **Exercise 1:** Research Project on Emerging Trends (30 minutes)

- Task: Research and present a cutting-edge technology and its social impact.
- Process: Work individually or in pairs, then share findings with the group.



# Practical Application

## **Exercise 2:** Brainstorming Session (20 minutes)

- Task: Identify a social challenge and brainstorm innovative engineering solutions.
- Process: Group activity using brainstorming techniques discussed earlier.



# Practical Application

## Exercise 3: Prototyping and Testing (30 minutes)

- Task: Develop a prototype of one selected idea and test it.
- Process: Use materials provided or digital tools to create a prototype, then test and gather feedback.



# Practical Application

## **Exercise 4:** Stakeholder Collaboration Role-Play (10 minutes)

- Task: Present the prototype to a panel of stakeholders and gather feedback.
- Process: Role-playing exercise with participants taking on different stakeholder roles.



# Discussion and Reflection

- After engaging with the practical activities, we will reflect on the experience and discuss various challenges and insights.
- **Group Discussion (15 minutes)**
  - Discuss the challenges and successes encountered during the practical exercises.
  - Reflect on the effectiveness of brainstorming, prototyping, and stakeholder collaboration.
- **Individual Reflection (15 minutes)**
  - Reflect on how the learned concepts can be applied in real-world scenarios.
  - Consider personal takeaways and future applications of the session's content.



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GÖÇLÜLER VE İSTİSKAN GENEL MÜDÜRLÜĞÜ



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# Conclusion and Summary

We have explored how emerging trends and technologies can be harnessed to drive social innovation in engineering. We've discussed important theoretical frameworks and applied these concepts through practical activities. Remember, the role of engineers in social innovation extends beyond traditional boundaries; it's about leveraging your expertise to make a difference.

- Recap of the main points covered in the session.
- Summary of key insights from the theoretical framework and practical applications.
- Discuss the importance of ongoing innovation in engineering for social impact.
- Encourage continuous learning and application of these concepts in professional practice.





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# Thank you for your attention!



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