
THE POTENTIAL OF AI IN ENHANCING PSCD EDUCATION

A Qualitative Study with
Maltese Teachers

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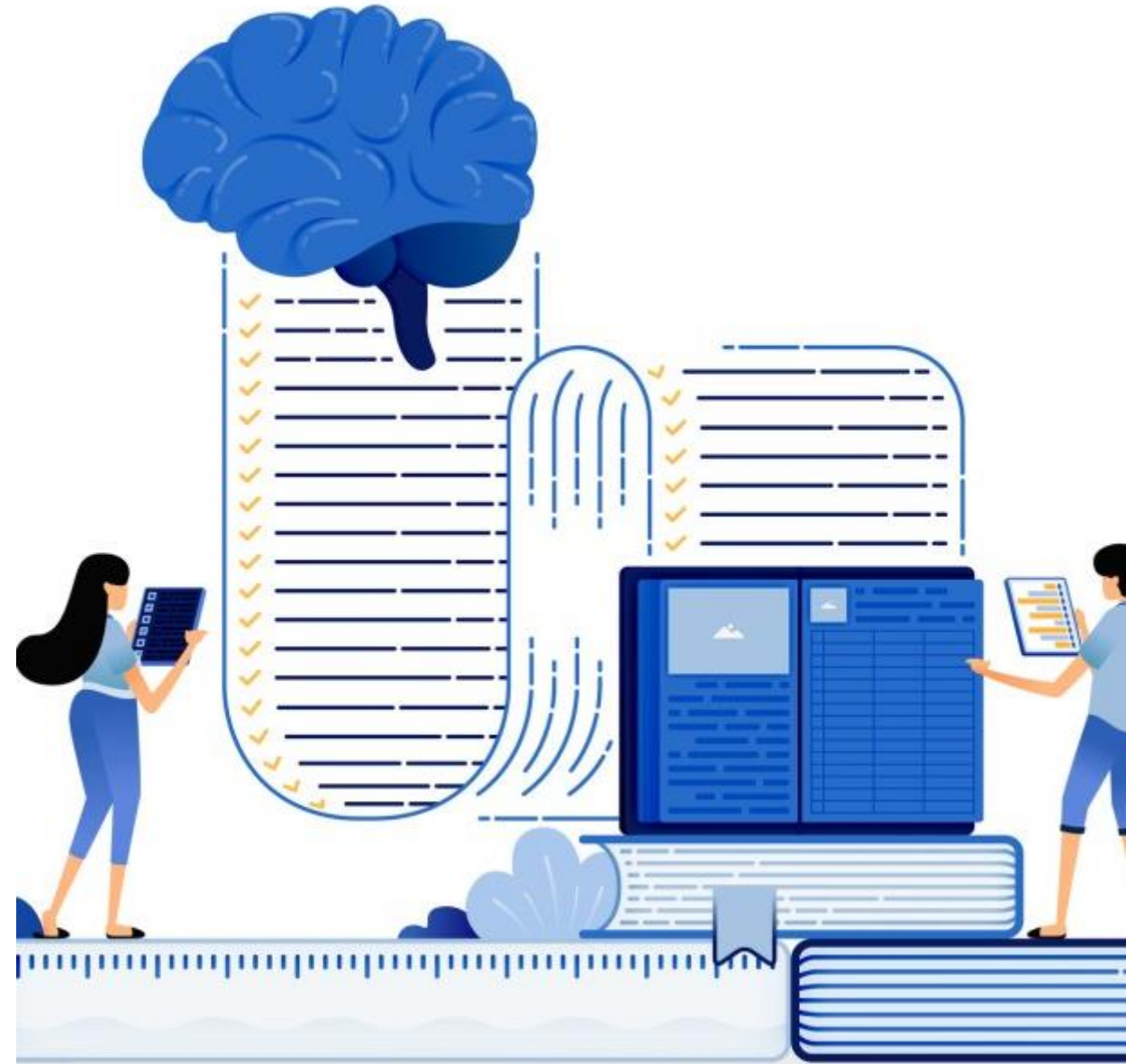
AI AND NEW AVENUES FOR TRANSFORMING EDUCATION

PSCD Offers Ideal Opportunities
and Spaces for the Integration of
AI



AI IN PSCD

can create a more effective & equitable learning environment addressing the unique needs and aspirations of each student





BACKGROUND AND RATIONALE

- integration of AI in PSCD education remains relatively unexplored;
 - gap in understanding its potential impact on this critical aspect of schooling;
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BACKGROUND & RATIONALE

this research aims to address this gap by investigating the perceptions, potential applications, & implications of AI for PSCD educators and their students.





THE SCOPE, AIMS AND IMPORTANCE OF PSCD

Personal development

Social development

Career education

Importance of PSCD

LITERATURE REVIEW

The Challenges of Traditional PSCD Delivery;

AI-Powered Tools and Applications;

Personalized Learning Experiences;

Enhancing Self-Awareness and Emotional Intelligence;

Developing Social Skills & Empathy;



Empathy

and

Emotional Intelligence

LITERATURE REVIEW

Career Exploration with AI;

Addressing Mental Health and Wellbeing through AI;

Gamification in Learning

Scalability of AI in PSCD

A photograph of a yellow sign with black text. The sign is mounted on a blue metal post. The text on the sign reads "Career" in a large, bold, sans-serif font, and "Get started now" in a smaller, bold, sans-serif font below it. The background of the sign is a solid yellow color. The sign is set against a blurred background of trees and foliage.

Career
Get started now



THE CHALLENGES OF TRADITIONAL PSCD DELIVERY

- Personalized learning experiences;
 - Limited resources;
 - Growing mental health concerns;
 - Lack of preparation for the job market.
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AI-POWERED TOOLS AND APPLICATIONS

Personalized learning platforms;

Chatbots and virtual assistants;

Data-driven insights;

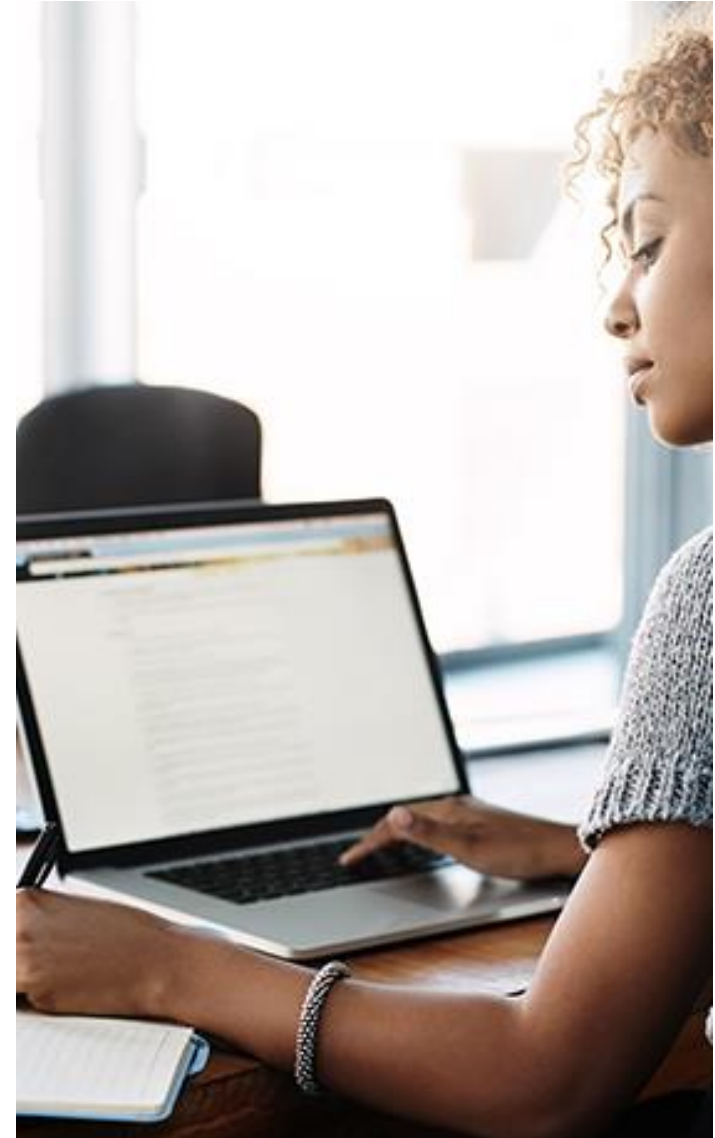
AI-Powered Assessment Tools

PERSONALIZED LEARNING EXPERIENCES

tailoring educational content,

pace, and

approach to individual student needs and preferences.



ENHANCING SELF-AWARENESS AND EMOTIONAL INTELLIGENCE

- measurement and tracking students' emotional states,
- helping them identify and understand their feelings,
- build emotional regulation skills,
- develop empathy for others,
- safe & controlled environments to practice & develop their emotional intelligence skills.



DEVELOPING SOCIAL SKILLS & EMPATHY

- AI-powered chatbots and virtual assistants can provide personalized feedback and guidance on communication skills, encouraging students to engage in respectful and constructive dialogue;
- Through analysing social interactions in online platforms or virtual classrooms, AI can identify patterns and provide insights into students' social behaviours, enabling educators to intervene and offer targeted support;
- AI can also facilitate collaborative projects, encouraging students to work together, share ideas, and develop teamwork skills;
- cultivate personalized learning content that addresses individual students' emotional and social needs.



CAREER EXPLORATION WITH AI



- AI-powered career assessment tools can analyze a student's personality, skills, and interests to recommend suitable career options;
- Access to comprehensive information on various professions, including job descriptions, salary ranges, required education, and future outlook;
- AI chatbots can provide personalized career guidance, answering student questions and offering tailored advice based on their individual circumstances;
- Virtual reality simulations offer immersive experiences of different workplaces, allowing students to explore various career paths firsthand;



GAMIFICATION IN LEARNING

Help students make choices about their career paths, manage finances, and interact with virtual mentors, all while accumulating points, unlocking achievements, and receiving feedback based on their decisions;

facilitate interactive learning through simulations and virtual reality (VR) environments.



SCALABILITY OF AI IN PSCD

- cater to diverse learning needs across diverse educational settings;
 - deployed across multiple platforms, including web-based applications, mobile apps, and even virtual reality environments, making them accessible to students with varying technological capabilities.
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SCALABILITY OF AI IN PSCD

- This accessibility ensures that students in remote areas or with limited access to traditional educational resources can benefit from the personalized learning and development opportunities offered by AI;
- automate many aspects of PSCD delivery, such as assessment and feedback, freeing up educators to focus on more personalized interactions with their students.





ETHICAL CONSIDERATIONS IN AI-DRIVEN PSCD

- Data Privacy and Security;
 - Algorithmic Bias and Fairness;
 - Transparency & Explainability;
 - Human Agency and Autonomy.
-

METHODOLOGY

An Online Qualitative
Research Study with
PSCD Teachers





RESEARCH AIMS AND QUESTIONS

- 1) What are the perspectives of Maltese PSCD teachers regarding the use of AI in their classroom pedagogies?
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RESEARCH AIMS AND QUESTIONS

- 2) How can AI be integrated into PSCD education to enhance teaching and learning outcomes, through student-centred experiential pedagogies?





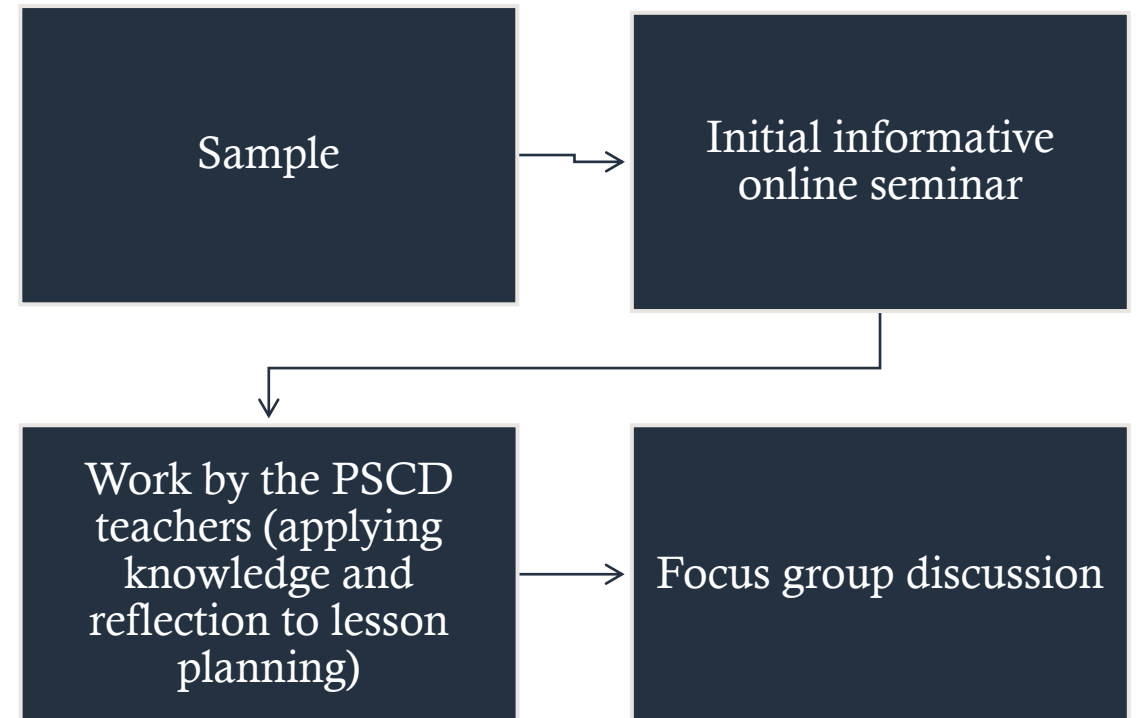
RESEARCH AIMS AND QUESTIONS

- 3) How can various AI tools cultivate creativity and address the personal, social, and career dimensions of PSCD, as well as emotional literacy, mental health, and holistic wellbeing within these dimensions?
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Procedure

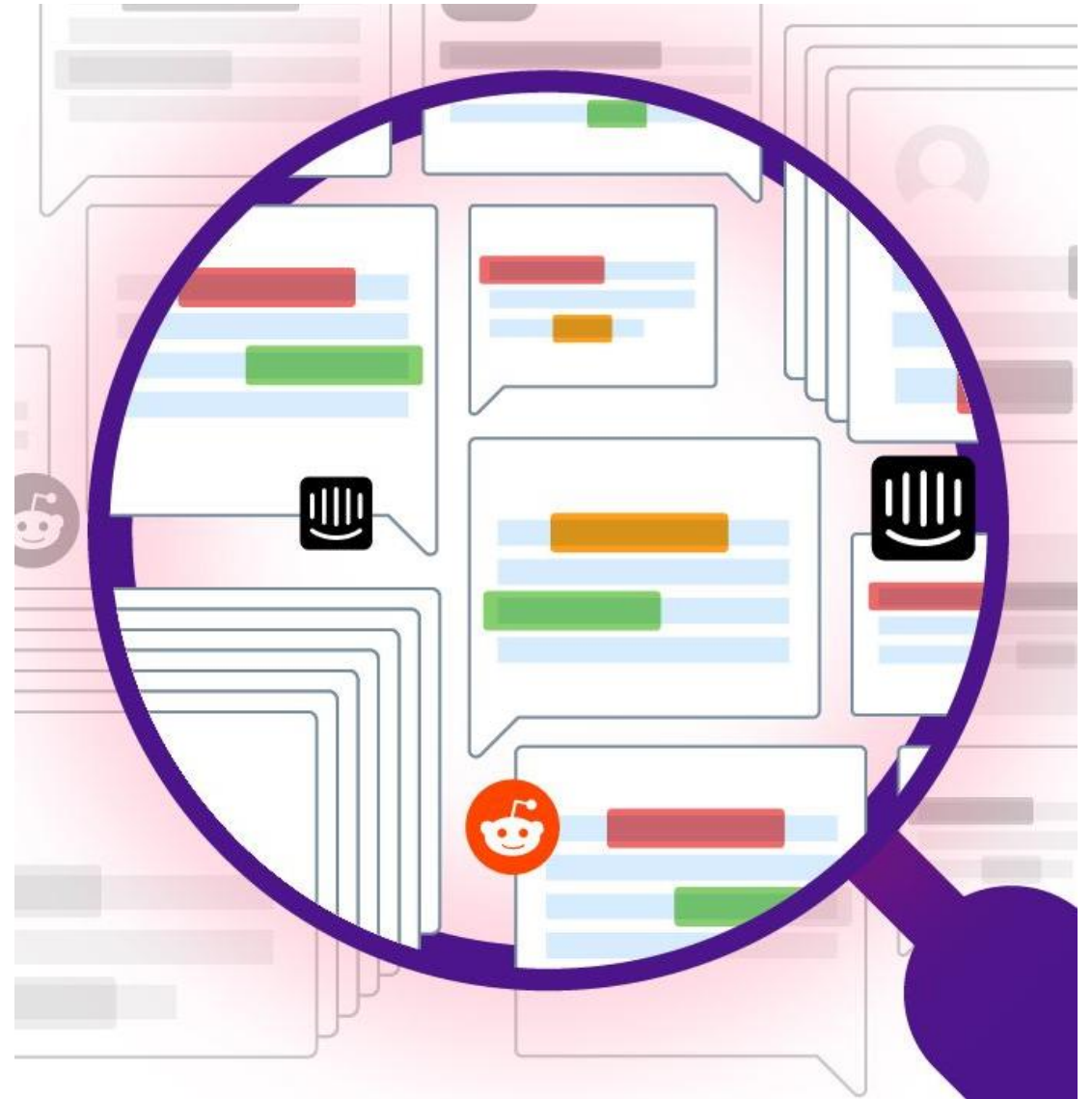
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PROCEDURE



DATA ANALYSIS

THEMATIC ANALYSIS
&
Consensual Qualitative
Research (CQR)



FINDINGS

- 1) *Theme 1:* Feelings attributed to the use of AI
- 2) *Theme 2:* Benefits and limitations of using AI for planning and facilitation of the lesson
- 3) *Theme 3:* Personal attributes that enhance the use of AI





FINDINGS

Theme 1: Feelings attributed to the use of AI

- A. Positive Feelings
 - B. Negative Feelings
 - C. Ambivalent Feelings
 - D. The role of transparency and understanding in shaping feelings
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FINDINGS

Theme 1: Feelings attributed to the use of AI

A. Positive Feelings

- excitement
 - curiosity
 - optimism
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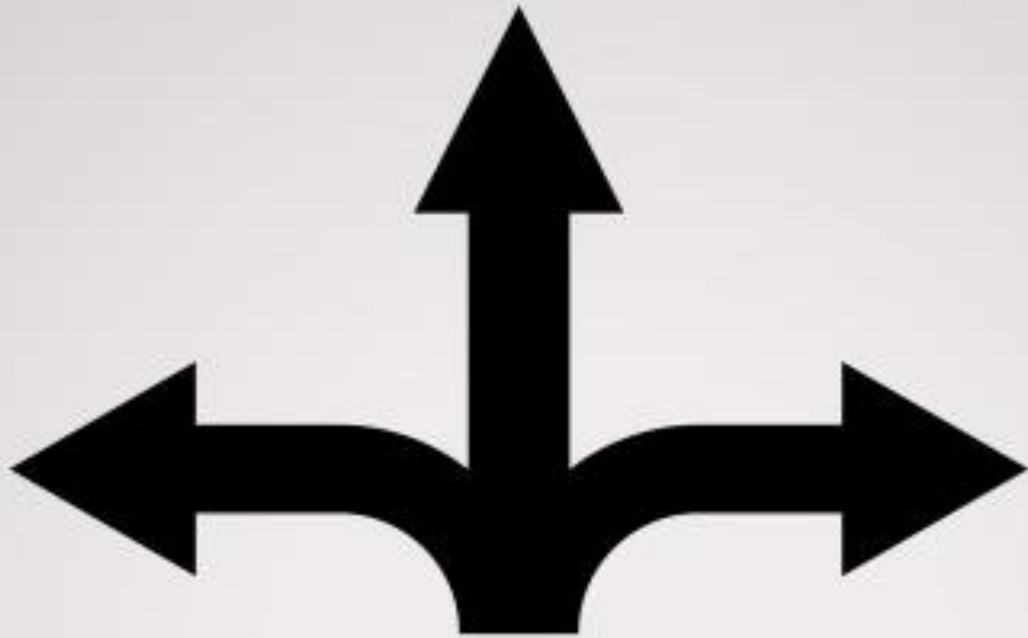
FINDINGS

Theme 1: Feelings attributed to the use of AI

B. Negative Feelings

- apprehension
- scepticism
- distrust





FINDINGS

Theme 1: Feelings attributed to the use of AI

C. Ambivalent Feelings

- uncertainty
 - need for questioning
-

FINDINGS

Theme 1: Feelings attributed to the use of AI

D. The role of transparency and understanding in shaping feelings

- shaping feelings towards AI
- comfort & trust



FINDINGS

Theme 2: Benefits and limitations of using AI for planning and facilitation of the lesson

A. Benefits

- Efficiency in information processing
- Tailored learning experiences
- Scalability and availability 24/7
- Interactive Learning

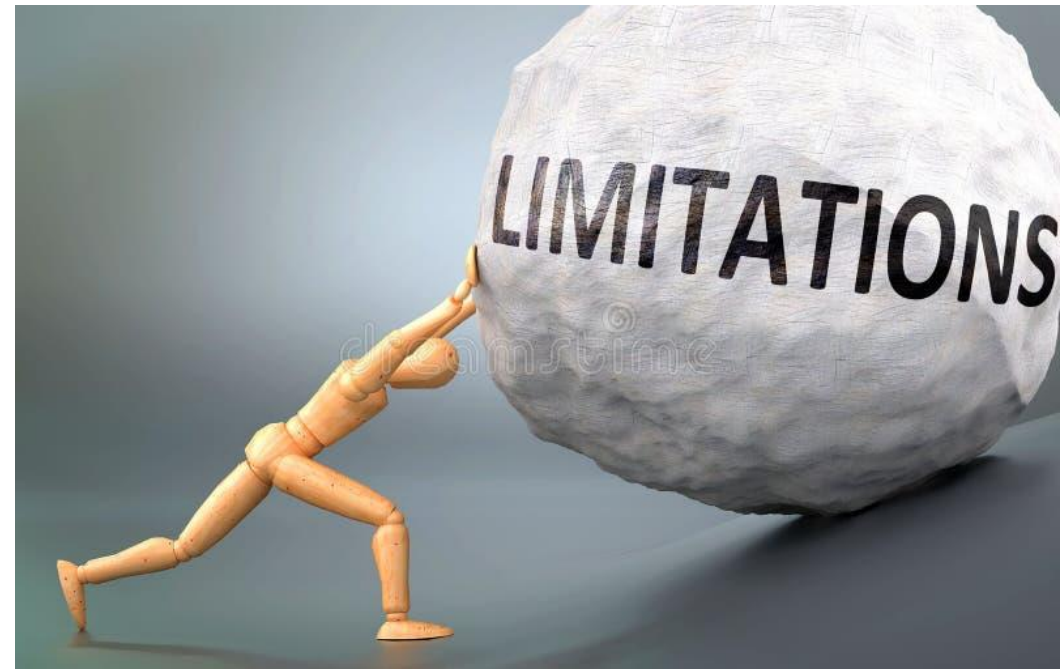


FINDINGS

Theme 2: Benefits and limitations of using AI for planning and facilitation of the lesson

B. Limitations

- Lack of Emotional Intelligence
- Difficulty in Nuanced Communication
- Concerns around Data Privacy
- Security Issues





FINDINGS

Theme 3: Personal attributes that enhance the use of AI

A. Openness to New Technology

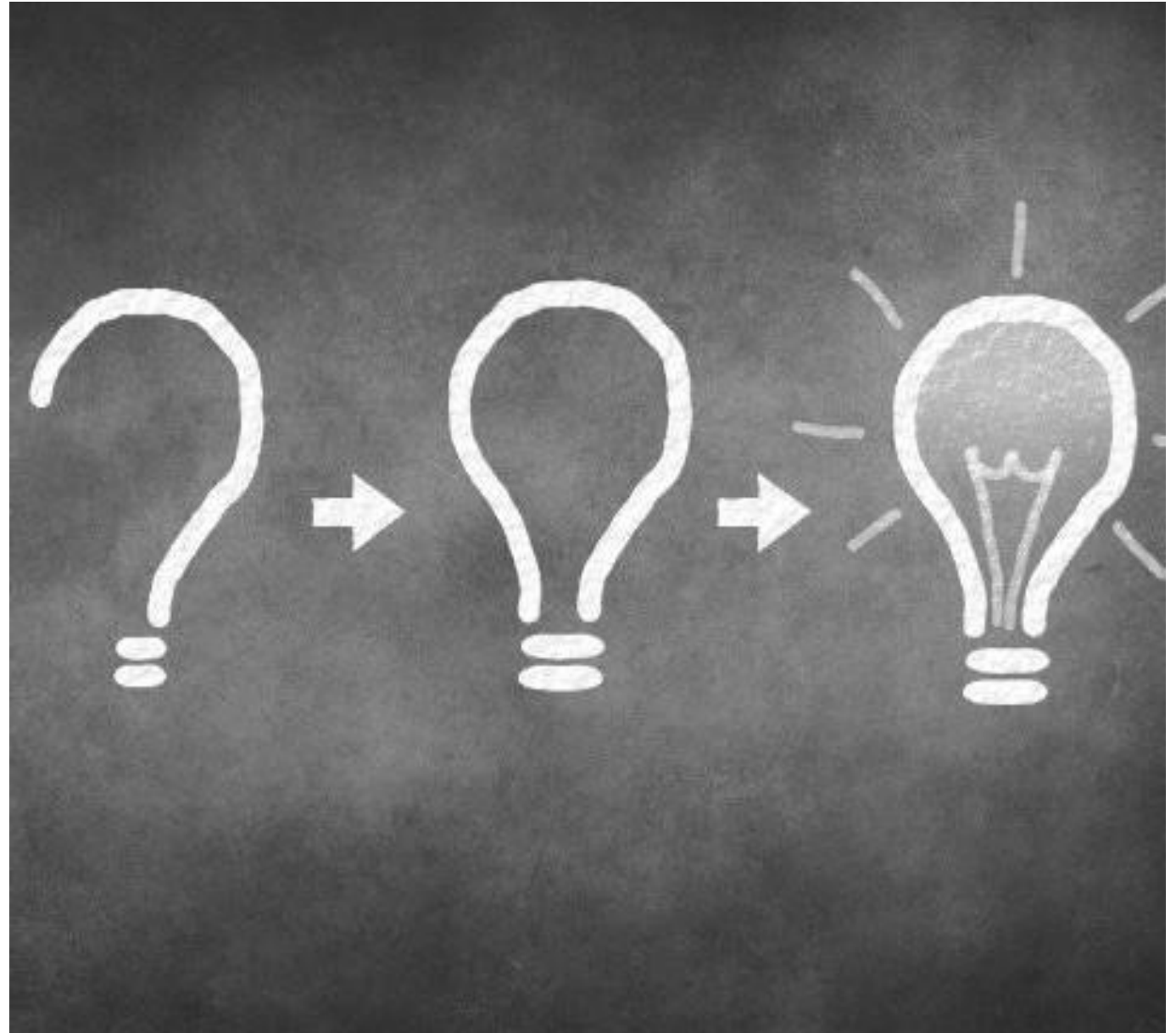
- Embracing Innovation
- Curiosity and Exploration

FINDINGS

Theme 3: Personal attributes that enhance the use of AI

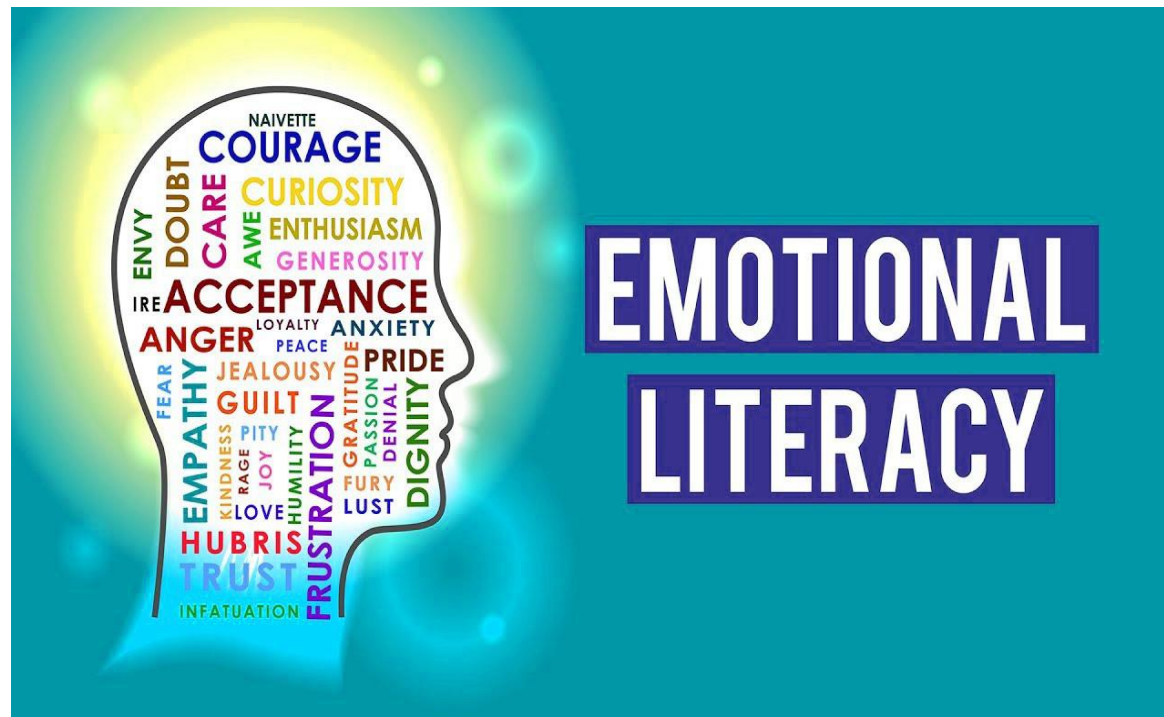
B. Comfort with Ambiguity and Uncertainty

- Adaptability
- Openness to Learning
- Resilience



FINDINGS

Theme 3: Personal attributes that enhance the use of AI



C. The Acquisition of Essential Skills

- Emotional Intelligence and Empathy
- Collaborative Mindset
- Shared Learning
- Open Dialogue

DISCUSSION

Reflecting upon the
results in the light
of the literature





RECOMMENDATIONS

- A. Integrating AI into the PSCD Curriculum
 - B. Teacher Training and Development
 - C. Parental Engagement with AI
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RECOMMENDATIONS



- D. Monitoring AI Impact on PSCD
 - E. Overcoming Technological Barriers and Infrastructure
 - F. Collaboration between educators and AI developers
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RECOMMENDATIONS

G. Data Privacy and Security
in AI-PSCD

H. Adaptability of AI-Driven
PSCD



LIMITATIONS

- Sample size;
- Professional bias;
- Online focus group due to lack of observation of non-verbal cues.

Thank You!
