Artificial Intelligence Literacy:
Human and Intelligent Machine Alliance
- Learners' Insights –
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International Conference

NEW PERSPECTIVES
in SCIENCE EDUCATION

New Perspectives
in Science
Education

ARTIFICIAL INTELLIGENCE FOR EDUCATIONAL PURPOSES

▶ CLARIFICATION OF THEORETICAL ASPECTS

▶ CONTENT GENERATION

▶ ADDRESSING THE NEEDS OF VARIOUS LEARNERS

▶ PERSONAL TUTOR

▶ DIVERSE EDUCATIONAL STRATEGIES

▶ IMPROVED EDUCATIONAL OUTCOME

ARTIFICIAL INTELLIGENCE FOR EDUCATIONAL PURPOSES

- ETHICAL ISSUES

- SOCIO-PSYCHOLOGICAL EFFECTS

- BIASES

- FAKE/INACCURATE AI- GENERATED CONTENT

- CONTROL & POLICIES – NECESSARY TO REGULATE AI USE

- HUMAN-IN-THE-LOOP (TEACHERS) – INDISPENSABLE

CASE STUDY
- RESEARCH METHODOLOGY -

- ▶ QUALITATIVE RESEARCH – QUALITATIVE INDUCTIVE METHOD

- ▶ BRAINSTORMING

- ▶ FIVE GROUPS OF TEN STUDENTS FROM VARIOUS EUROPEAN UNIVERSITIES& VARIOUS SPECIALISATIONS

- ▶ MARCH 2024 – MAY 2024

- ▶ CODIFICATION OF RESPONSES

- ▶ PAPER & PENCIL APPROACH + MAXQDA SOFTWARE (PROCESSING THE COLLECTED DATA, GENERATING CONNECTIONS BETWEEN CODES, DESIGNING CHARTS AND MINDMAPS)
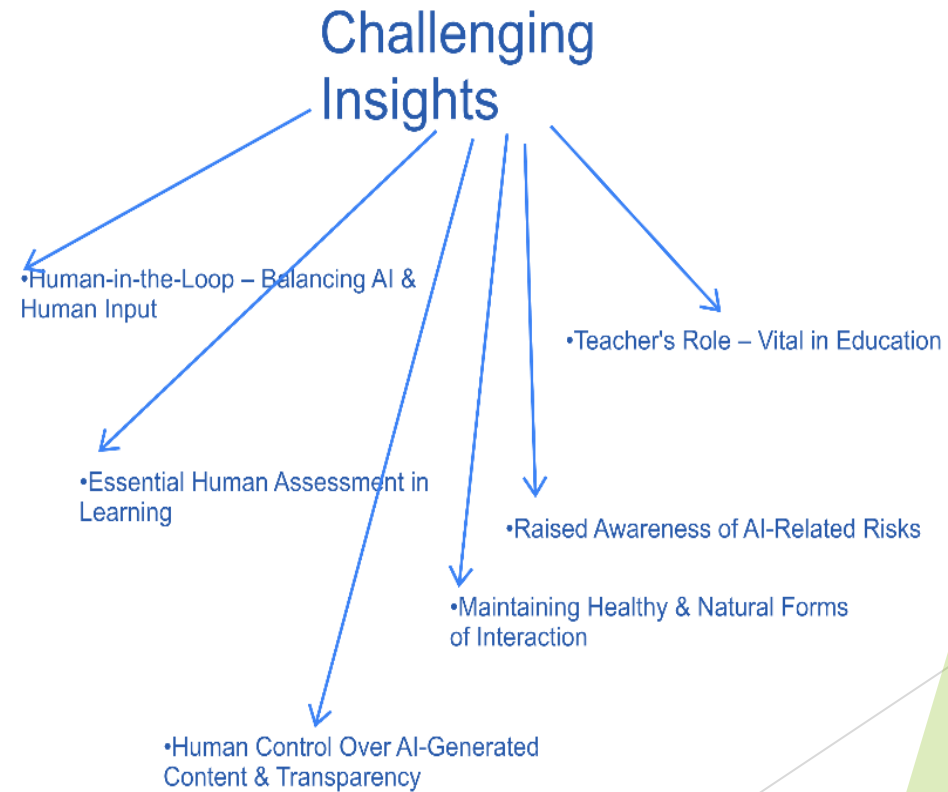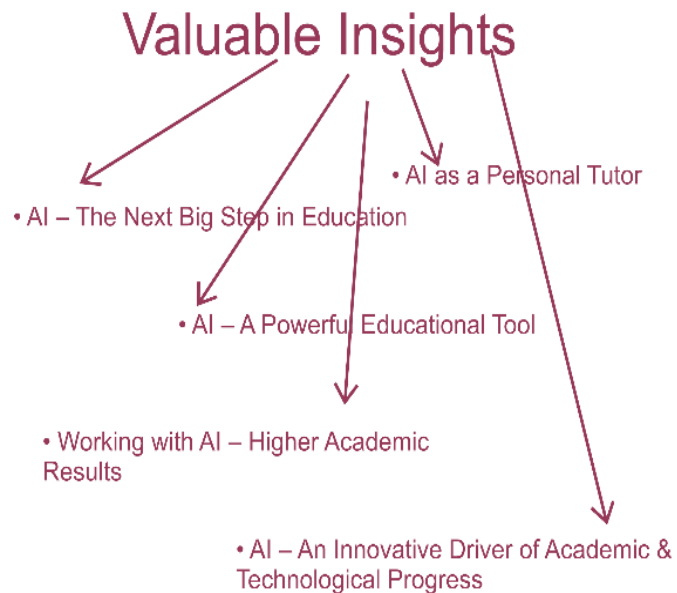
CASE STUDY
- RESEARCH QUESTIONS -

▶ **1. "What are your experiences and perspectives with regard to AI implementation in Higher Education institutions?"**

▶ 2. **"What additional comments on AI use for educational purposes would you like to make?"**
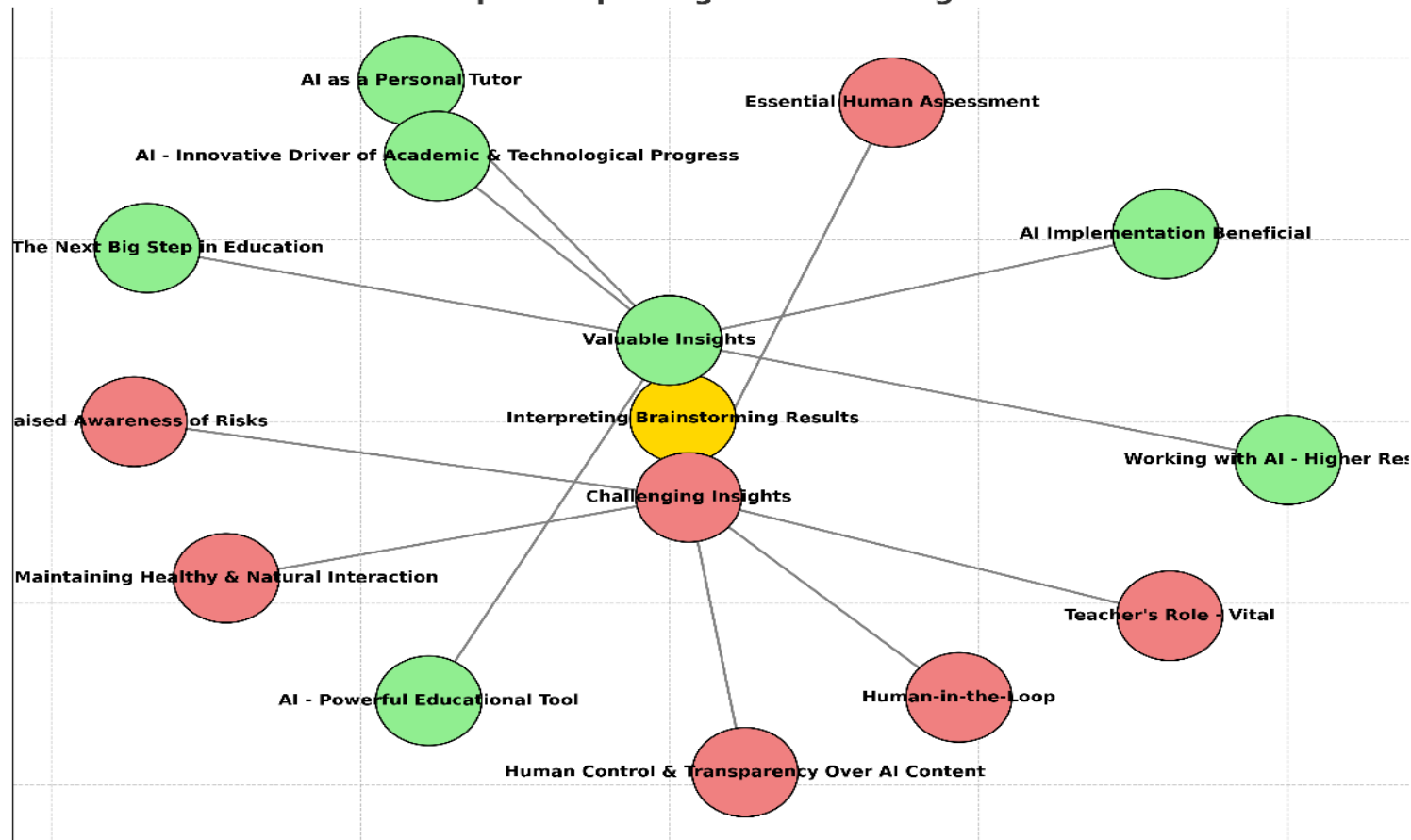
RESULTS & FINDINGS

Interpreting Brainstorming
Results

Valuable Insights

• AI as a Personal Tutor

• AI – The Next Big Step in Education

• AI – A Powerful Educational Tool

• Working with AI – Higher Academic Results

• AI – An Innovative Driver of Academic & Technological Progress

Challenging Insights

•Human-in-the-Loop – Balancing AI & Human Input

•Teacher's Role – Vital in Education

•Essential Human Assessment in Learning

•Raised Awareness of AI-Related Risks

•Maintaining Healthy & Natural Forms of Interaction

•Human Control Over AI-Generated Content & Transparency

CHAT GPT-GENERATED MINDMAP

Mind Map: Interpreting Brainstorming Results
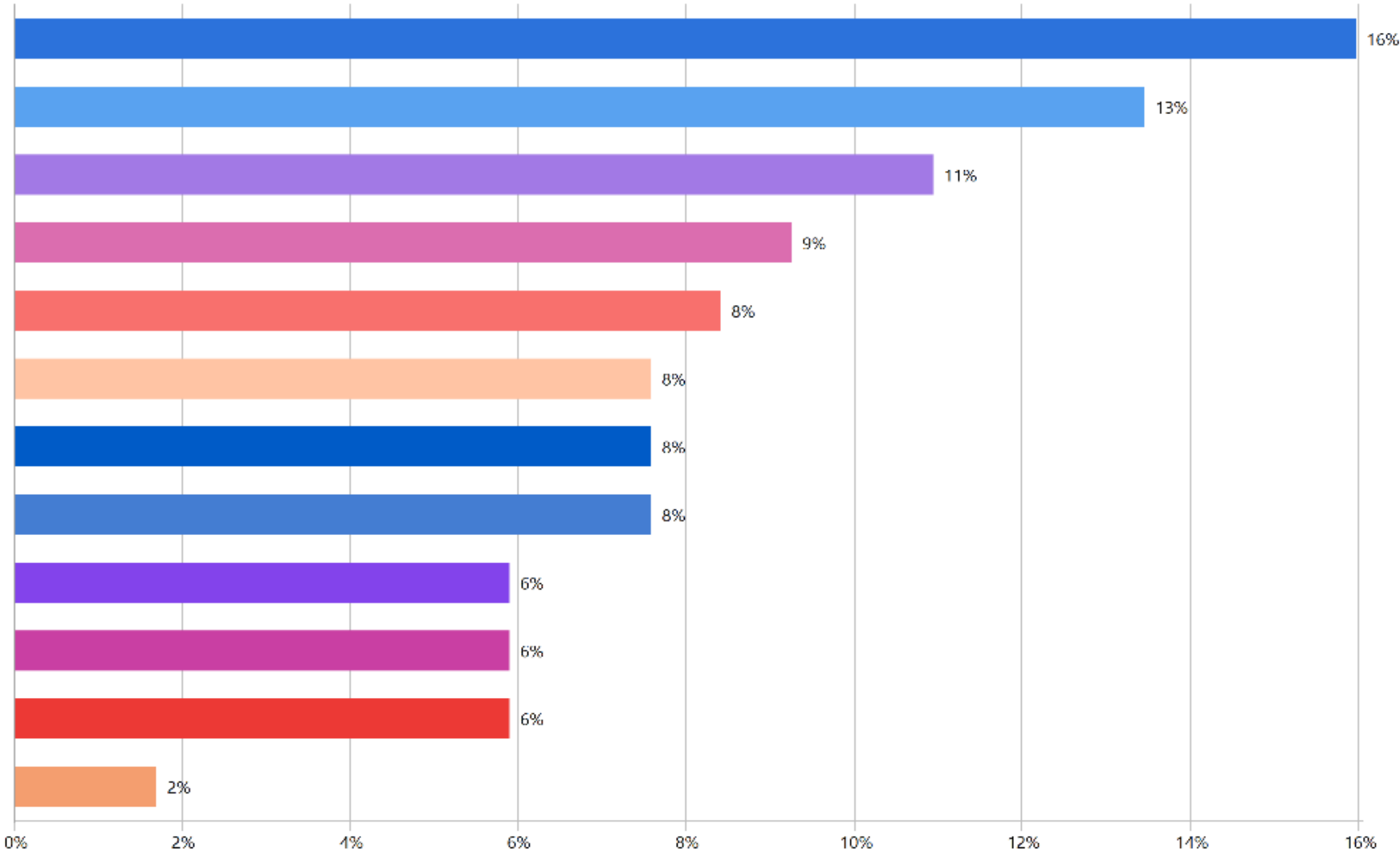
RESULTS & FINDINGS

⌨ **Valuable insights**

▶ **AI – The Next Big Step in Education**

▶ **AI Implementation – Beneficial for Learning**

▶ **AI as a Personal Tutor**

▶ **Working with AI – Higher Academic Results**

▶ **AI – A Powerful Educational Tool**

▶ **AI – An Innovative Driver of Academic & Technological Progress**

RESULTS & FINDINGS

⌨ **Challenging insights**
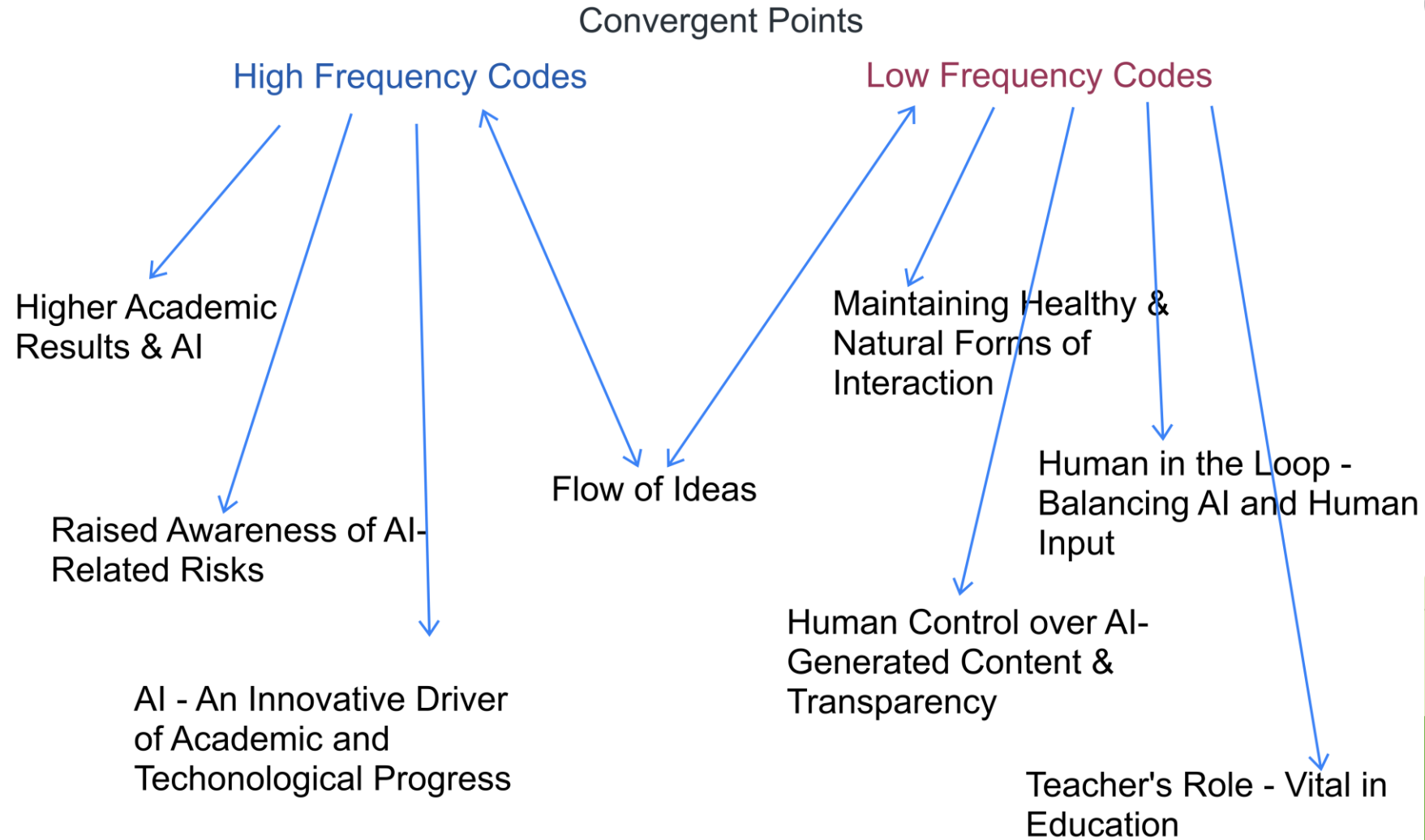
▶ **Human-in-the-Loop – Balancing AI & Human Input**

▶ **Teacher's Role – Vital in Education**

▶ **Maintaining Healthy & Natural Forms of Interaction**

▶ **Essential Human Assessment in Learning**

▶ **Raised Awareness of AI-Related Risks**

▶ **Human Control Over AI-Generated Content & Transparency**

DISCUSSION

Legend:
- • Working with AI – Higher Academic Results — 16%
- • Raised Awareness of AI-Related Risks — 13%
- • AI – An Innovative Driver of Academic & Technological Progress — 11%
- • AI – The Next Big Step in Education — 9%
- • AI Implementation – Beneficial for Learning — 8%
- • Essential Human Assessment in Learning — 8%
- • AI – A Powerful Educational Tool — 8%
- • AI as a Personal Tutor — 8%
- • Human Control Over AI-Generated Content & Transparency — 6%
- • Teacher's Role – Vital in Education — 6%
- • Human-in-the-Loop – Balancing AI & Human Input — 6%
- • Maintaining Healthy & Natural Forms of Interaction — 2%

DISCUSSION

Convergent Points

High Frequency Codes

Low Frequency Codes

Higher Academic Results & AI

Raised Awareness of AI-Related Risks

AI - An Innovative Driver of Academic and Techonological Progress

Flow of Ideas

Maintaining Healthy & Natural Forms of Interaction

Human in the Loop - Balancing AI and Human Input

Human Control over AI-Generated Content & Transparency

Teacher's Role - Vital in Education

CONCLUSIONS

- GENUINE INSIGHTS

- GREAT POTENTIAL AND IMMINENT USE IN DIFFERENT FIELDS

- AI SKILLS/AI LITERACY

- STUDENTS' CONCERNS OVER LACK OF REGULATIONS AND RIGOROUS CONTROL

- THE NEED FOR ETHICALLY COMPETITIVE EDUCATIONAL SYSTEMS

- GUIDANCE AND ASSISTANCE FROM TEACHERS - ESSENTIAL

THANK YOU!
GRAZIE!

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