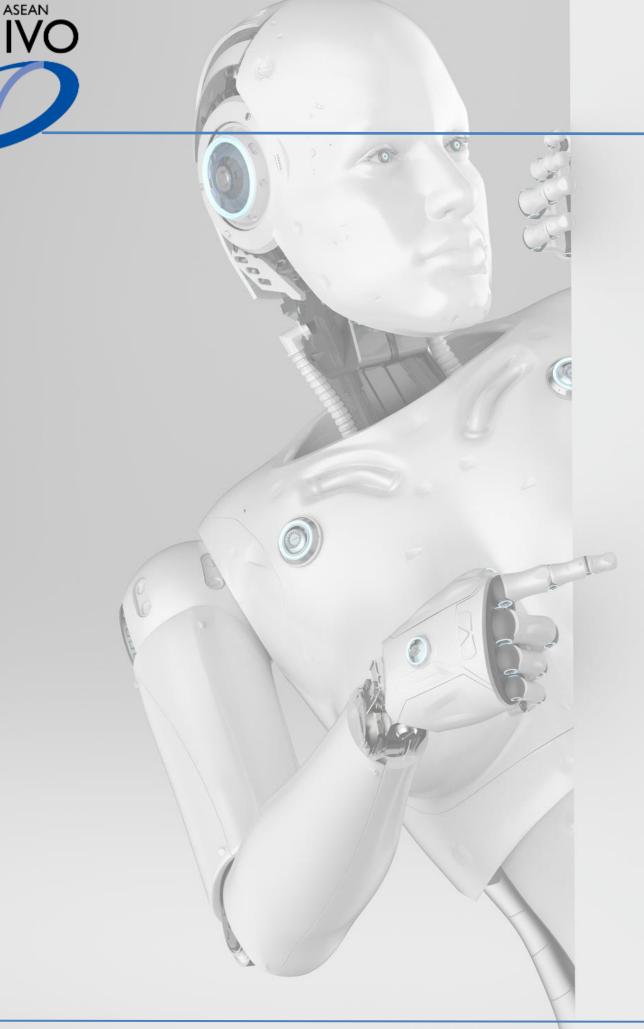
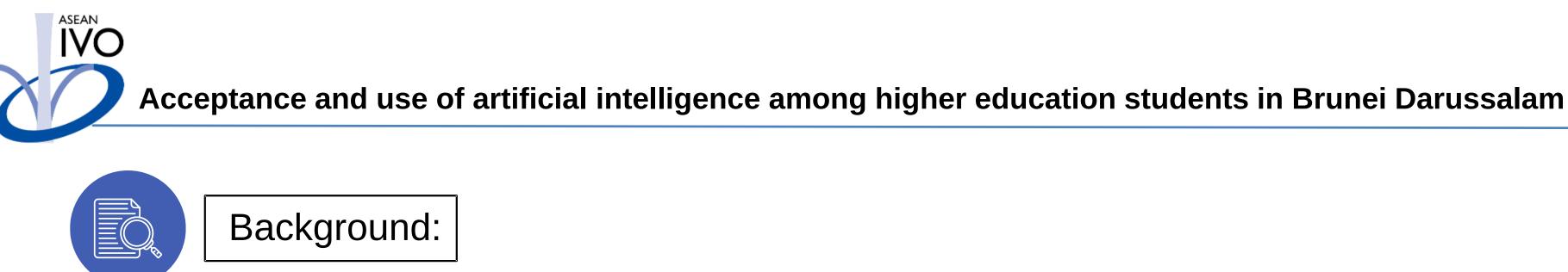
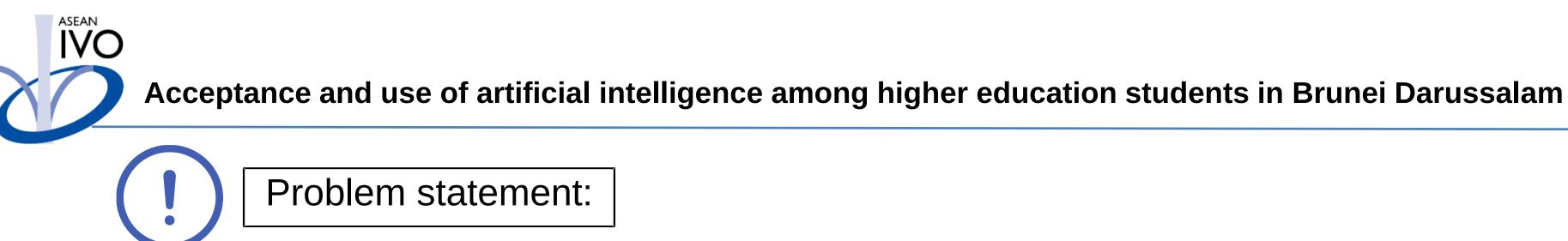
# Acceptance and use of artificial intelligence among higher education students in **Brunei Darussalam**

Lim Suzylily Politeknik Brunei





- The integration of artificial intelligence (Ai) in higher education is reconstructing the learning landscape, offering new opportunities for personalized learning, enhanced decision-making, and efficient administrative processes.
- Challenge: Resistance to change is inevitable
- Contribution of this proposal:
  - Offers practical recommendations for educators, policymakers, and technology developers 0 Creates more inclusive and supportive utilization of AI in higher education 0



As AI continues to advance, it holds the promise of greatly improving the efficiency and effectiveness of educational practices. Nonetheless, issues like ethical considerations and the **need for teacher training** remain significant (Duarte et al., 2023; Lampou, 2023).



1. To highlight the rise of digital literacy and how it helps in enhancing AI literacy with an ethical approach

2. To integrate AI in Sustainable Development Goals 4 (SDG4)



### **Baseline study: Preliminary results**



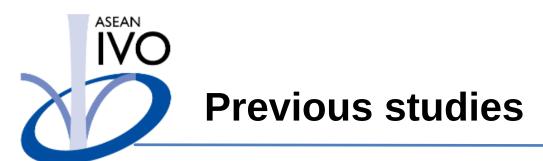
• Objective: Explores students' readiness to engage with AI technologies in their learning environment



• Mixed method research design: questionnaire (statistical analysis) and a focus group interview (thematic analysis)



- 103 first-year Politeknik Brunei students from engineering background
- Preliminary findings:
  - Low acceptance due to concern on ethical issues 0
  - Students recognized and acknowledged the potential benefits of AI in their 0 learning to improve learning outcomes





- Machmud et al. (2021) reported:
  - ICT index amongst the ASEAN countries: Singapore (highest), Thailand & Indonesia (middle), and Myanmar (lowest).
- Anna et al. (2024) study in Indonesia:
  - A positive view of the use of AI in learning, seeing AI as a tool.



• Concerns: replacement of teachers' roles by AI, the loss of human elements in learning interactions, and data privacy issues.



 $\left( \rightarrow \right)$ 



PHASE 01: STUDY IN BRUNEI ACROSS HIGHER INSTITUTION ON ACCEPTANCE AND USE OF AI  $(\rightarrow)$ 

PHASE 02: COLLABORATION BETWEEN RESEARCHERS WITHIN ASEAN REGION ON ACCEPTANCE AND USE OF AI



Expected outcome: Comprehensive understanding of AI acceptance and its usage across Bruneian institutions

Expected outcome: Formation of committee members



**DURATION:** 

9 MONTHS

**DURATION:** 

9 MONTHS



### PHASE 03: SUSTAINABLE POLICY THROUGH POLICY-SCIENCE INTERACTION

Expected outcome: Review of evidencebased policies that are both scientifically informed and effective in addressing societal challenges

**DURATION:** 

12 MONTHS

Impacts of the proposed method

## Technological

- Students have higher confidence in using AI = improved skills
- Personalized learning needs

Societal

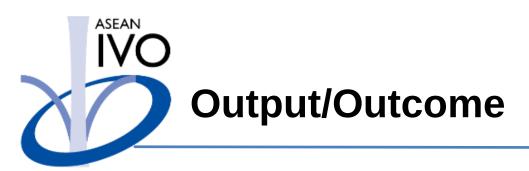
- Accelerating technology transfer of knowledge
- Technological innovation
- Economic growth

ASEAN

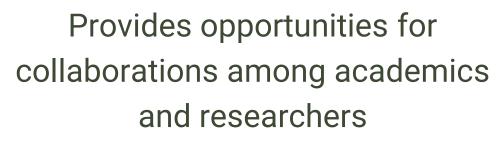
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### Collaborative

- Explores the acceptance of Al within ASEAN region (interdisciplinary approach)
- Data sharing
- Unified effort in achieving SDG4









More projects can be carried out in the future using AI technologies, including the human language and predictive analytics



New partnerships within the ASEAN region

Conclusion

ASEAN

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The objective of this project is to develop framework and strategies for Al adoption across various sectors.



The initial phase of the project is to study the current situation in Brunei and to explore possible collaborations between researchers in ASEAN region.



The proposed project contributes towards achieving SDG4: achieving inclusive equitable quality education and to promote lifelong learning.