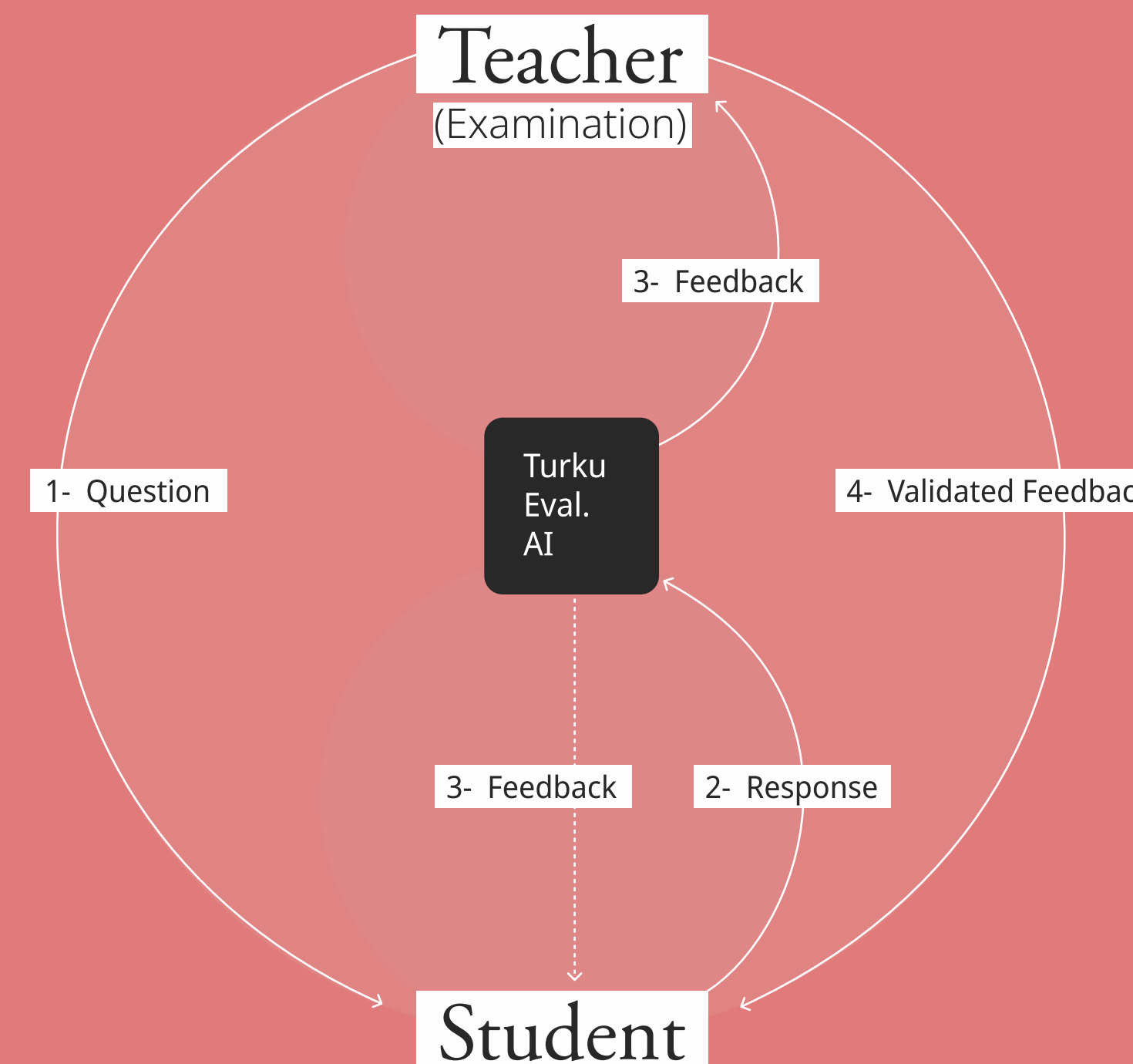


Generative AI assisted digital educational platform



TurkuEval.AI

An AI evaluation tool that aligns with the evaluation criteria of the institution and learning materials, enabling the evaluation of student's and pupil's performance and providing them with personalized feedback, thus reducing the time teachers and educational institutions spend on evaluating, grading and feedback.



Prof. Dr. Jussi Jauhiainen / jusaja@utu.fi
Agustín Garagorry Guerra / abgagu@utu.fi

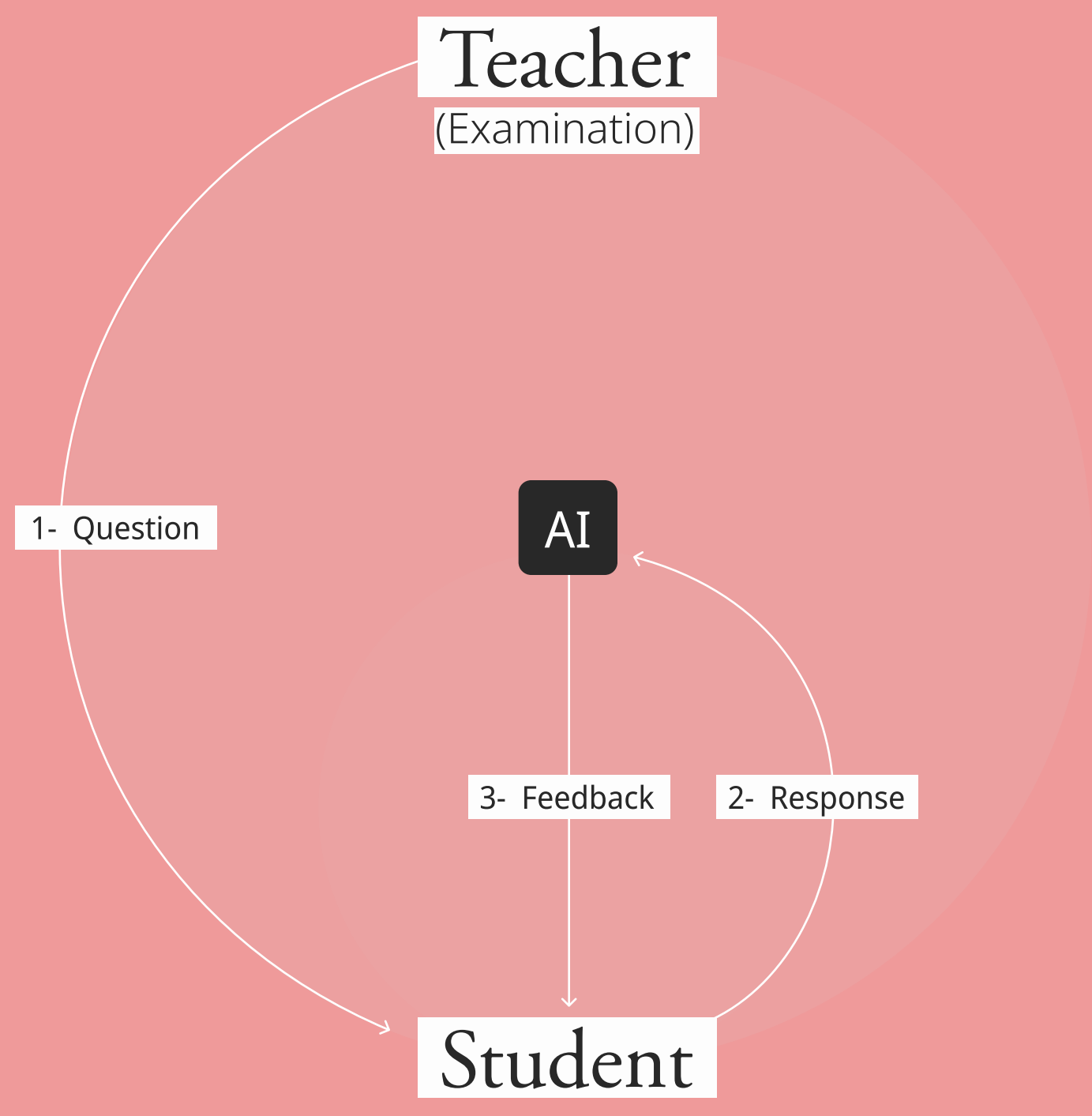
Balance human oversight with AI assistance: TurkuEval combines human and AI collaboration, improving evaluation reliability and student learning while reducing over-reliance on AI.

Enhance personalization and objectivity: AI implementation provides more personalized feedback and objective assessment compared to manual processes, without the drawbacks of human-only evaluations.

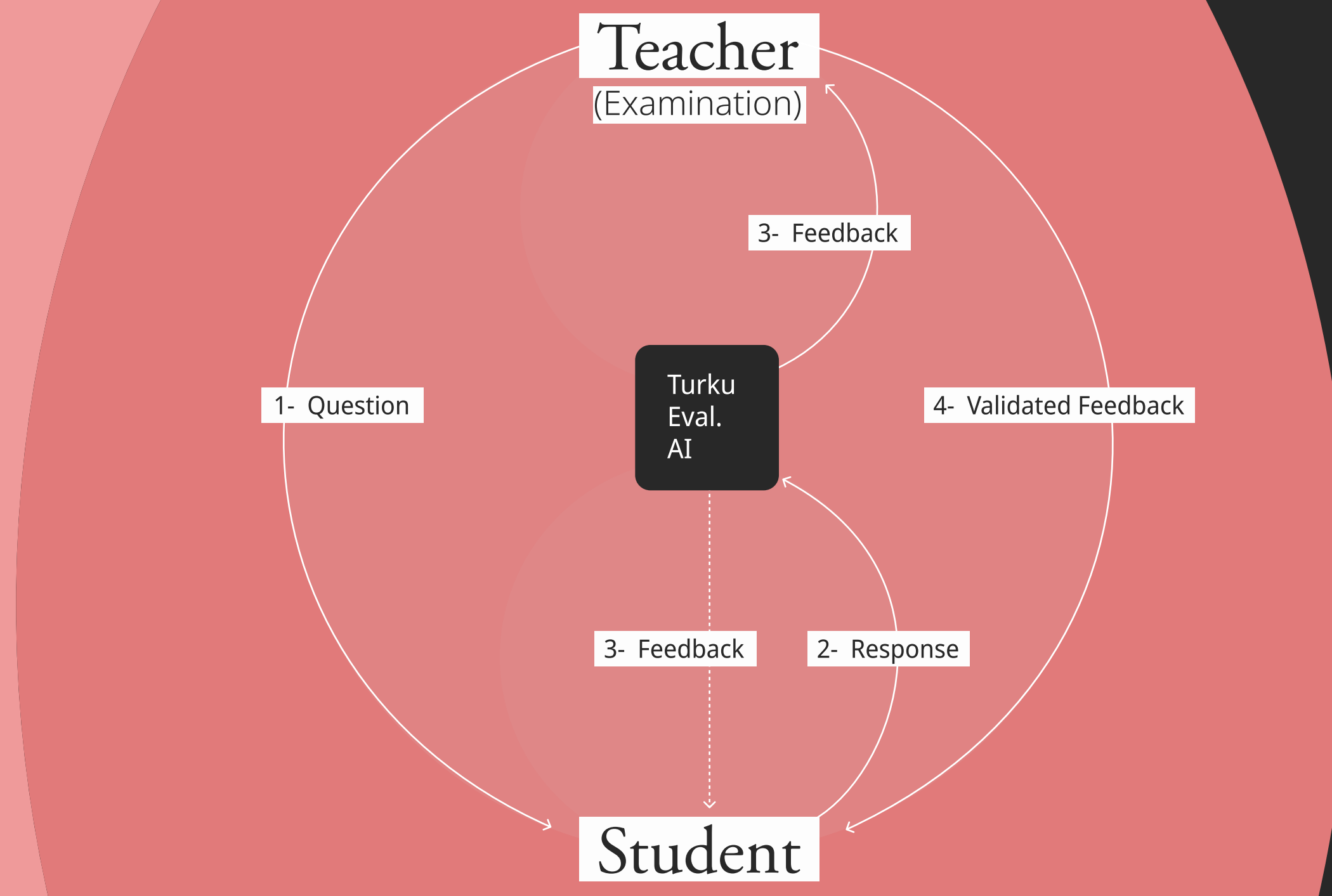
Optimize resource allocation: AI integration increases scalability and efficiency, allowing educators to focus on high-value interactions while automating routine tasks.

Less - HUMAN INTERVENTION More +

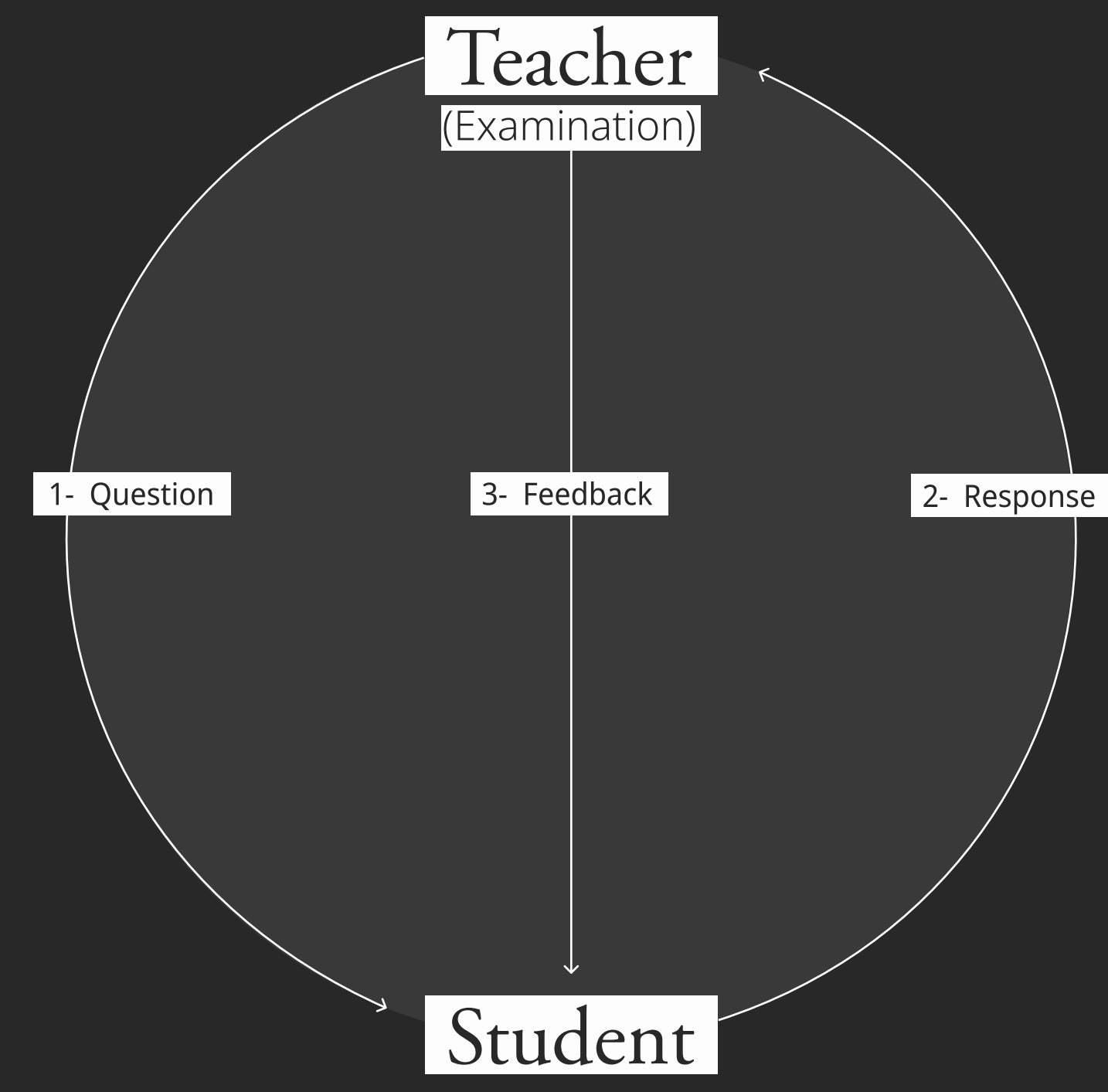
AI AUTOMATED HUMAN / AI ASSISTED HUMAN MANUAL



Higher Personalized Facility Feedback
More Objective
More Scalable
Higher Opportunity Cost



Higher Personalized Facility Feedback
More Objective
More Scalable
Lower Opportunity Cost

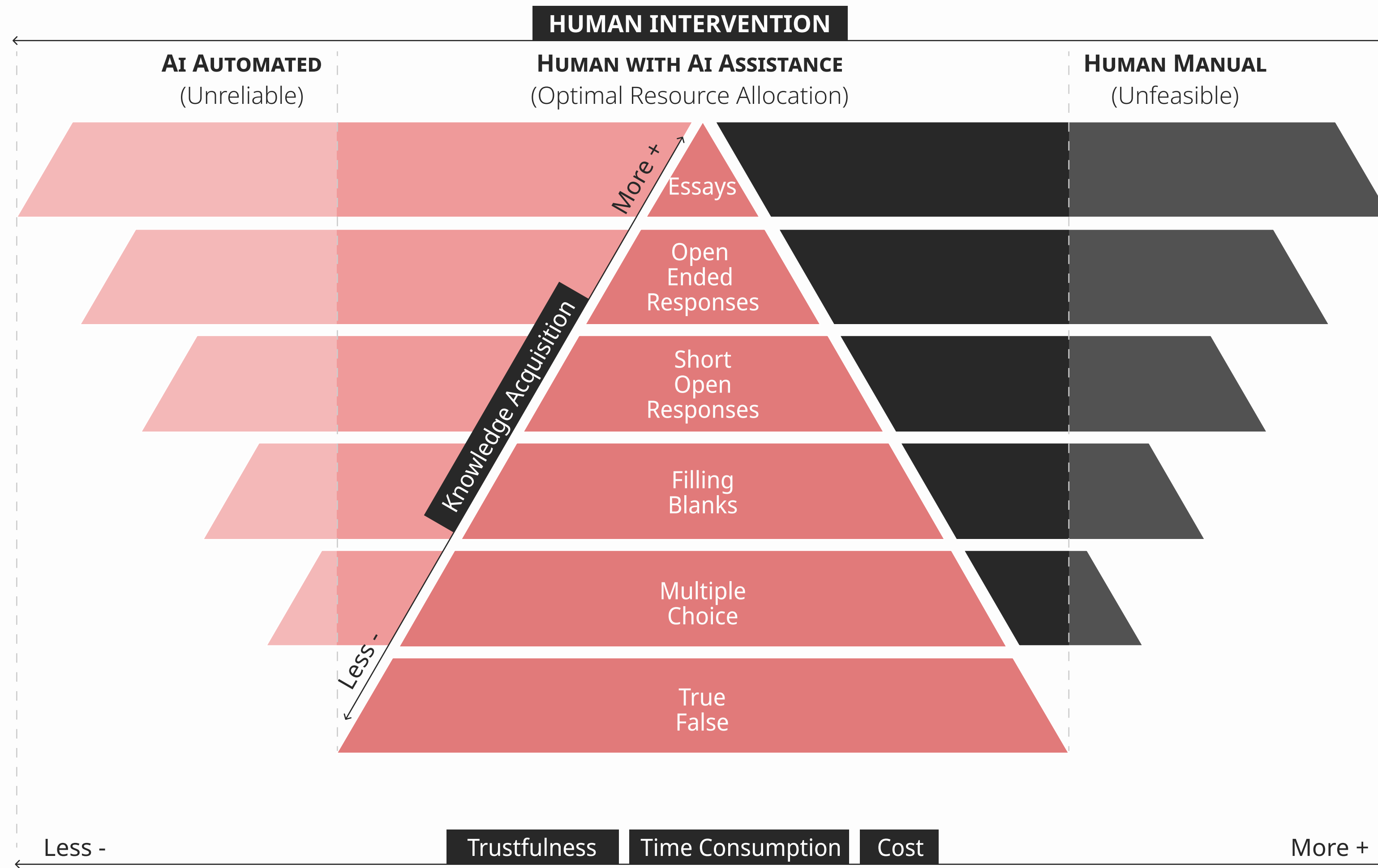


Lower Personalized Facility Feedback
Less Objective
Less Scalable
Higher Opportunity Cost

Less - Trustfulness Time Consumption Cost More +

Learning AI assisted Trade-Off Ladder

▬ Optimal Technology Resources
 ▬ Unreliable Technology Resources
 ▬ Unfeasible Human Resources
 ▬ Optimal Human Resources



How is the data being handled?

Security »Data is stored in AWS servers

Manual Delivery: The University of Turku collects student responses and manages evaluations. It then provides results and feedback directly to participating institutions, reducing data leakage risks associated with third-party platforms.

Can I trust that AI evaluates correctly?

Up-to-date knowledge »Up to 3 pdf, 20p

Learning Materials: Teachers will provide the AI with their course materials. This materials should be ideally text-based PDF files, up to 3 pdf files, shorter than 20 pages.

What if the AI evaluation process gets interrupted?

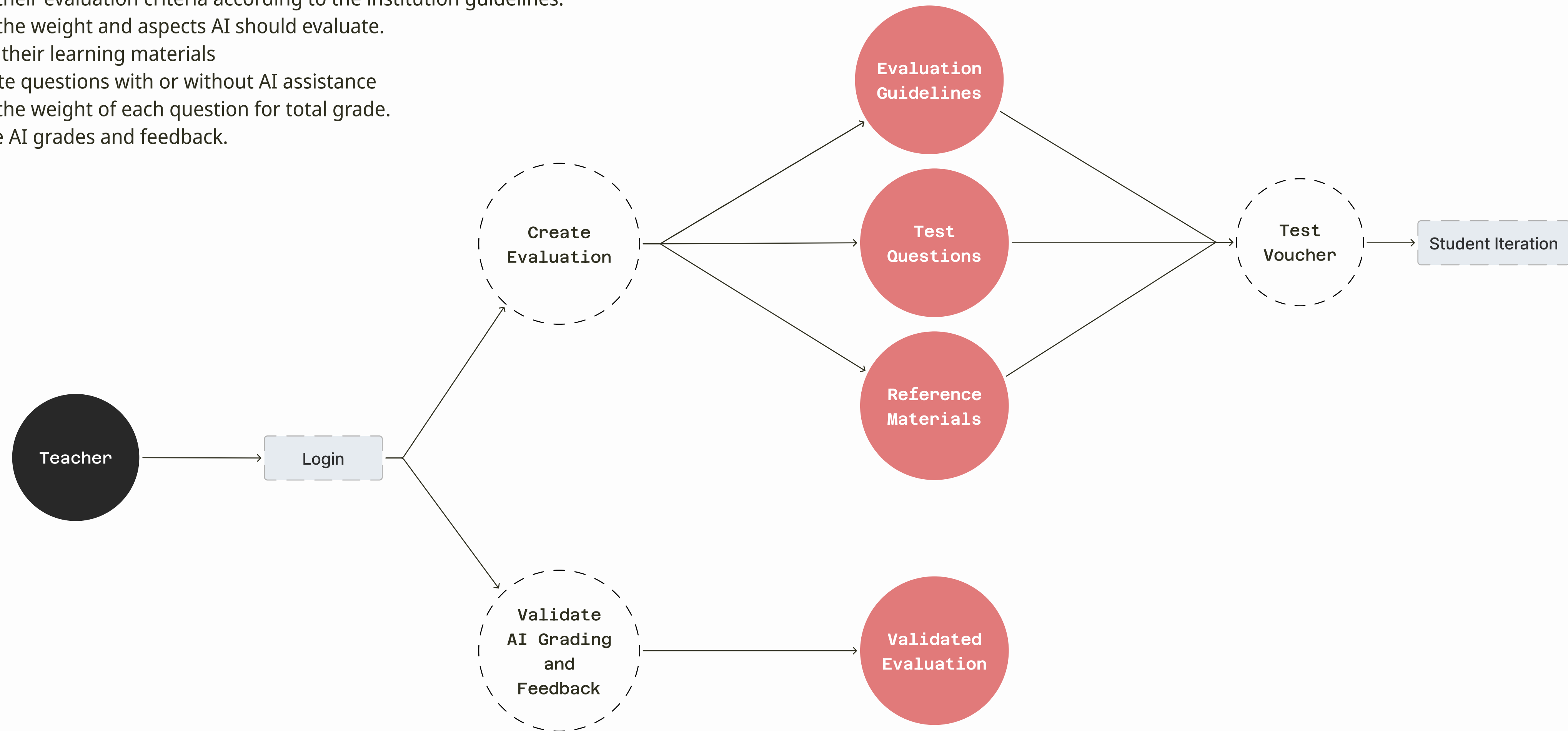
Multi-Step »Data is handled sequentially

Secure first then evaluate: Student data is first stored in AWS servers, and then evaluated by AI. In all cases, also the teacher can evaluate the student response in the evaluation validation process.

Teacher Interaction

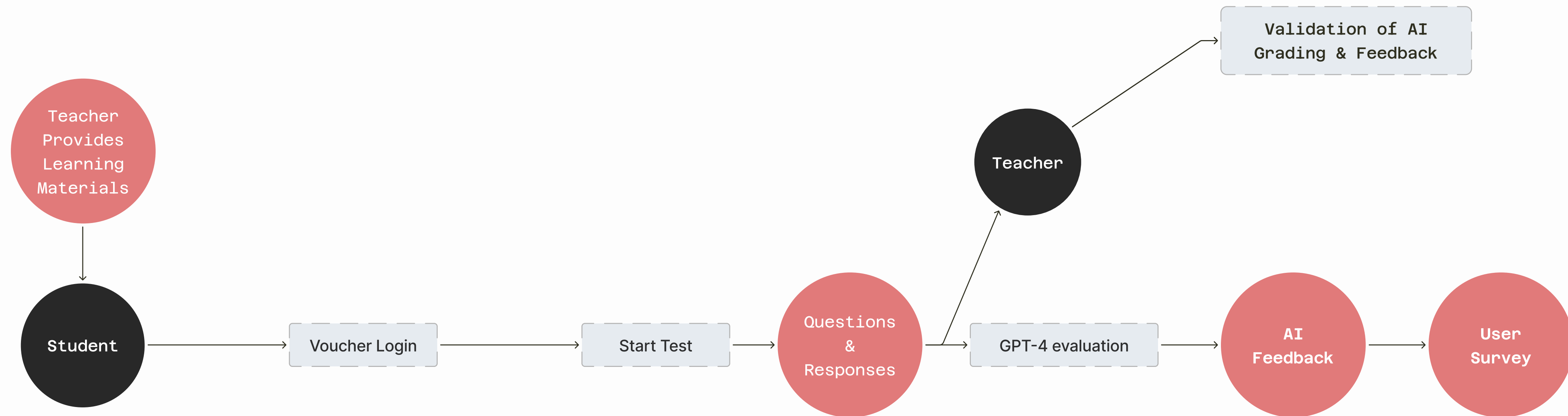
Teachers can:

- Create their evaluation criteria according to the institution guidelines.
- Define the weight and aspects AI should evaluate.
- Upload their learning materials
- Generate questions with or without AI assistance
- Define the weight of each question for total grade.
- Validate AI grades and feedback.



Student Interaction

Teacher provides students with the learning materials.
 Students will login with the voucher (Digital Code) only once (unless teacher resets the IP).
 Students start the test and write their responses with computer (optionally with mobile phone).
 Students respond User Survey questions after finishing the exam responses.
 Student response length limit is 1500 characters (200 words approx).



Example of Teacher Instance

Create Examination

Name
Biogeopolitics

Duration hs:ms
0 45 No time limit

Knowledge Level
Advanced

Access Material Before Test
 Access Material During Test

Evaluation Parameters

Context Relevance	Medium Impact			
Factual Accuracy	Medium Impact			
Completeness	Medium Impact			
Logical Consistency	Medium Impact			
Grammar and Spelling	Medium Impact			

Create Examination

Select a reference material or create a new one

Title
Biogeopolitics

Select a question or create a new one

Generate AI assisted questions
It will generate 5 questions with the provided references and guidelines

Continue

Select a question or create a new one

Generate AI assisted questions
It will generate 5 questions with the provided references and guidelines

How does the article define biogeopolitics in the context of Covid-19, and how does it influence the governance of asylum-related migrants?
Weight: 20%

Discuss the relationship between state actions against Covid-19 and the geopolitical discussion surrounding displaced people.
Weight: 20%

Analyze the impact of the EU-Turkey statement made on 18 March 2016 on irregular migration from Turkey to Greece.
Weight: 20%

How did the routes of asylum-related migration to the European Union change from 2015 to 2019, according to the article?
Weight: 20%

What role did the Covid-19 pandemic play in the broader biogeopolitical agenda regarding asylum-related migrants at the EU borderlands?
Weight: 20%

Continue

Voucher Management

Voucher Code
Y 4 X 9 G

Status: Active Deactivate (and end exam) Voucher

Go to my examinations

Welcome to the TurkuEval examination platform

Create new examination instance
Customize the evaluation experience for your students.

My Examinations

Biogeopolitics Active

Voucher: **Y4X9G**

Registered Students: 0
Date: 2024-09-16
Duration: 0h 45m
Knowledge Level: medium

Evaluation Criteria:
Finnish Criteria

Evaluation Parameters:

- Context Relevance:** Assessing how appropriately and effectively the content relates to and aligns with the given context or scenario
- Factual Accuracy:** Evaluates the correctness of the information given in the student's answer.
- Completeness:** Whether all required aspects, components, or elements of a subject or task have been thoroughly addressed
- Logical Consistency:** Examines the coherence and logical flow of arguments, ensuring ideas or statements are rational and systematically aligned
- Grammar and Spelling:** Grammar and Spelling are critical for clear communication. This criterion assesses the student's use of language, including the correct use of syntax, punctuation, and spelling. High performance in this category means the student's work is free of grammatical errors and spelling mistakes, making it easy to read and understand.

Example of Student Instance

Biogeopolitics

Time Remaining | 0h 44m 54s | Your Student Code | GQ

Question 1

How does the article define biogeopolitics in the context of Covid-19, and how does it influence the governance of asylum-related migrants?

Type your answer here...

0 / 1500



Biogeopolitics generally refers to the intersection of biology, geography, and politics, especially in relation to public health and border control. In the context of Covid-19, it likely involves how nations use biological factors (like virus spread) to justify geopolitical decisions. For asylum-related migrants, biogeopolitics may influence governance through:

Stricter border controls

674 / 1500



AI is evaluating the results...

This might take a few moments, please don't close this window

Example of Student Instance

Examination Results

Student ID | GQ
Grade | Good

Question: How did the routes of asylum-related migration to the European Union change from 2015 to 2019, according to the article?

Your Answer: The Eastern Mediterranean route (Turkey to Greece) saw a significant decrease after the 2016 EU-Turkey deal. There was an increase in the use of the Western Mediterranean route (North Africa to Spain) around 2018. The Central Mediterranean route (Libya to Italy) fluctuated, with a decrease after 2017 due to Italy's policies. Some migrants began using newer, often more dangerous routes through the Balkans.

Feedback: Your review is reflective of key changes in asylum-related migration routes into the EU during the specified period, adequately aligning with the context of the migrations observed between 2015 and 2019. However, specific data or examples to underpin the trend shifts mentioned would enhance the answer's factual accuracy. Moreover, incorporating information about the implications of these changes or the number of migrants affected could provide a more complete response. Clarity and organization are strong, and the grammar presented is precise, making your answer easy to follow.

Context Relevance: Good

Factual Accuracy: Satisfactory

Completeness: Passable

Logical Consistency: Good

Grammar and Spelling: Excellent

Question Score: 11.2 / 20

Question: How does the article define biogeopolitics in the context of Covid-19, and how does it influence the governance of asylum-related migrants?

Your Answer: Biogeopolitics generally refers to the intersection of biology, geography, and politics, especially in relation to public health and border control. In the context of Covid-19, it likely involves how nations use biological factors (like virus spread) to justify geopolitical decisions. For asylum-related migrants, biogeopolitics may influence governance through: Stricter border controls Health screening requirements Quarantine policies Changes in asylum processing procedures Justification for limiting or denying entry based on health concerns These measures often aim to manage perceived health risks while also serving political agendas related to migration control.

Feedback: Your answer provides a substantial grounding in the definition of biogeopolitics and its relevant applications during the Covid-19 pandemic. Context relevance is maintained with a focus on governance related to asylum-seekers. However, expanding your answer to include specific examples or cases will increase factual accuracy and completeness. The response demonstrates logical coherence, moving smoothly from a general explanation to specific impacts on asylum governance. The language used is clear, concise, and free from major grammatical errors.

Context Relevance: Very Good

Factual Accuracy: Good

Completeness: Satisfactory

Logical Consistency: Very Good

Grammar and Spelling: Excellent

Question Score: 14.4 / 20

Example of Student Instance (Survey)

The TurkuEval questionnaire is designed to have a deeper understanding of the student perception about AI implementation in the educational field. All of the questions are optional. Data will be anonymous and will only be used for research purposes.

Year of Birth

What is your gender?

Describe your level of familiarity with AI

Chat-GPT provides accurate evaluations of my answers

- Strongly Disagree
- Disagree
- Neutral
- Agree
- Strongly Agree

I trust the Chat-GPT model's assessment of my work

- Strongly Disagree
- Disagree
- Neutral
- Agree
- Strongly Agree

Chat-GPT offers constructive feedback

- Strongly Disagree
- Disagree

Example of Teacher Instance (Evaluation and Feedback Validation)

Student ID: GQ | Examination grade: Good **Pending Validation** 






How did the routes of asylum-related migration to the European Union change from 2015 to 2019, according to the article?

Student Answer:

The Eastern Mediterranean route (Turkey to Greece) saw a significant decrease after the 2016 EU-Turkey deal. There was an increase in the use of the Western Mediterranean route (North Africa to Spain) around 2018. The Central Mediterranean route (Libya to Italy) fluctuated, with a decrease after 2017 due to Italy's policies. Some migrants began using newer, often more dangerous routes through the Balkans.

Feedback:

Your review is reflective of key changes in asylum-related migration routes into the EU during the specified period, adequately aligning with the context of the migrations observed between 2015 and 2019. However, specific data or examples to underpin the trend shifts mentioned would enhance the answer's factual accuracy. Moreover, incorporating information about the implications of these changes or the number of migrants affected could provide a more complete response. Clarity and organization are strong, and the grammar presented is precise, making your answer easy to follow.

- Context Relevance Good 
- Factual Accuracy Satisfactory 
- Completeness Passable 
- Logical Consistency Good 
- Grammar and Spelling Excellent 

Final Mark: 11.20 / 20

 Edit Feedback  Approve Feedback

How does the article define biogeopolitics in the context of Covid-19, and how does it influence the governance of asylum-related migrants?

Student Answer:

Biogeopolitics generally refers to the intersection of biology, geography, and politics, especially in relation to public health and border control. In the context of Covid-19, it likely involves how nations use biological factors (like virus spread) to justify geopolitical decisions. For asylum-related migrants, biogeopolitics may influence governance through: Stricter border controls Health screening requirements Quarantine policies Changes in asylum processing procedures Justification for limiting or denying entry based on health concerns These measures often aim to manage perceived health risks while also serving political agendas related to migration control.

Student ID: GQ | Examination grade: Good **Validated** 






How did the routes of asylum-related migration to the European Union change from 2015 to 2019, according to the article?

Student Answer:

The Eastern Mediterranean route (Turkey to Greece) saw a significant decrease after the 2016 EU-Turkey deal. There was an increase in the use of the Western Mediterranean route (North Africa to Spain) around 2018. The Central Mediterranean route (Libya to Italy) fluctuated, with a decrease after 2017 due to Italy's policies. Some migrants began using newer, often more dangerous routes through the Balkans.

Feedback:

Your review is reflective of key changes in asylum-related migration routes into the EU during the specified period, adequately aligning with the context of the migrations observed between 2015 and 2019. However, specific data or examples to underpin the trend shifts mentioned would enhance the answer's factual accuracy. Moreover, incorporating information about the implications of these changes or the number of migrants affected could provide a more complete response. Clarity and organization are strong, and the grammar presented is precise, making your answer easy to follow.

- Context Relevance Good 
- Factual Accuracy Satisfactory 
- Completeness Passable 
- Logical Consistency Good 
- Grammar and Spelling Excellent 

Final Mark: 11.20 / 20

 Edit Feedback  Approved



TurkuEval.AI

Prof. Dr. Jussi Jauhiainen / jusaja@utu.fi
Agustín Garagorry Guerra / abgagu@utu.fi