



כלים שימושיים בבינה מלאכותית 50128

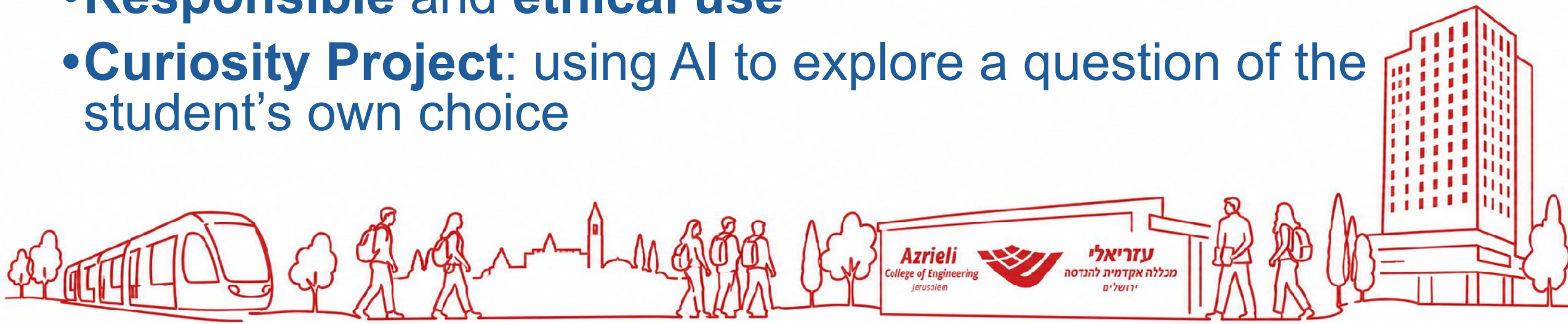
המחלקה להנדסת ביוטכנולוגיה

טלי תבור ראם & דבי שלו

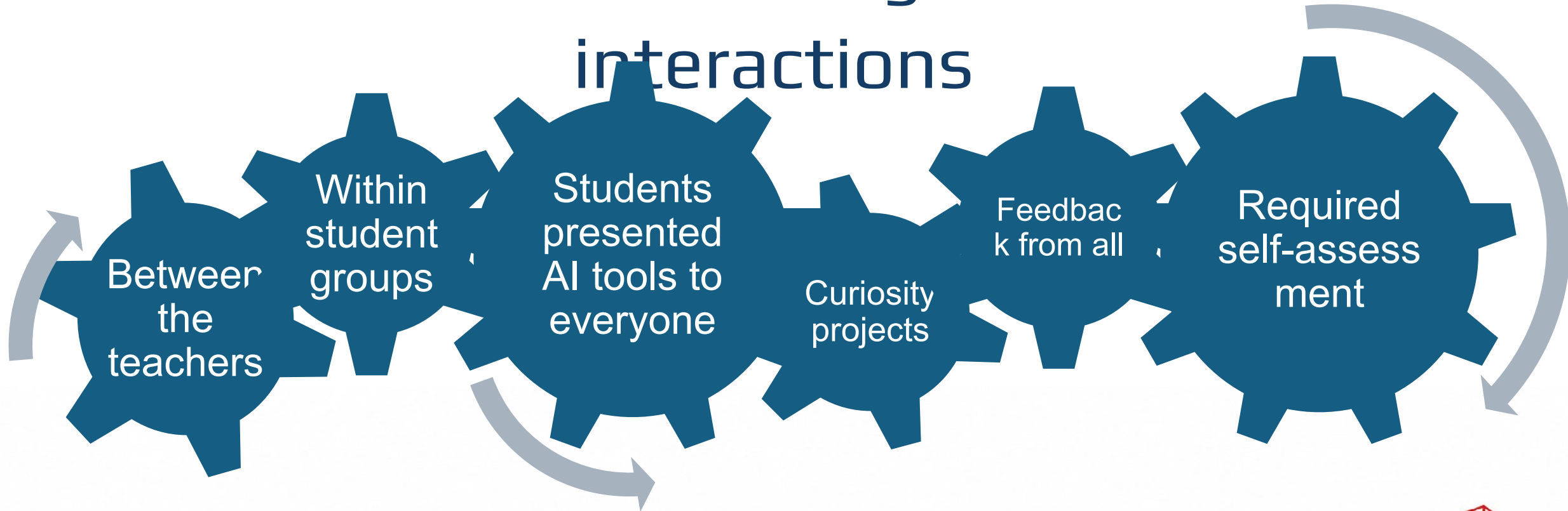


Learning how to use AI as a **tool** for learning – not a **substitute** for learning

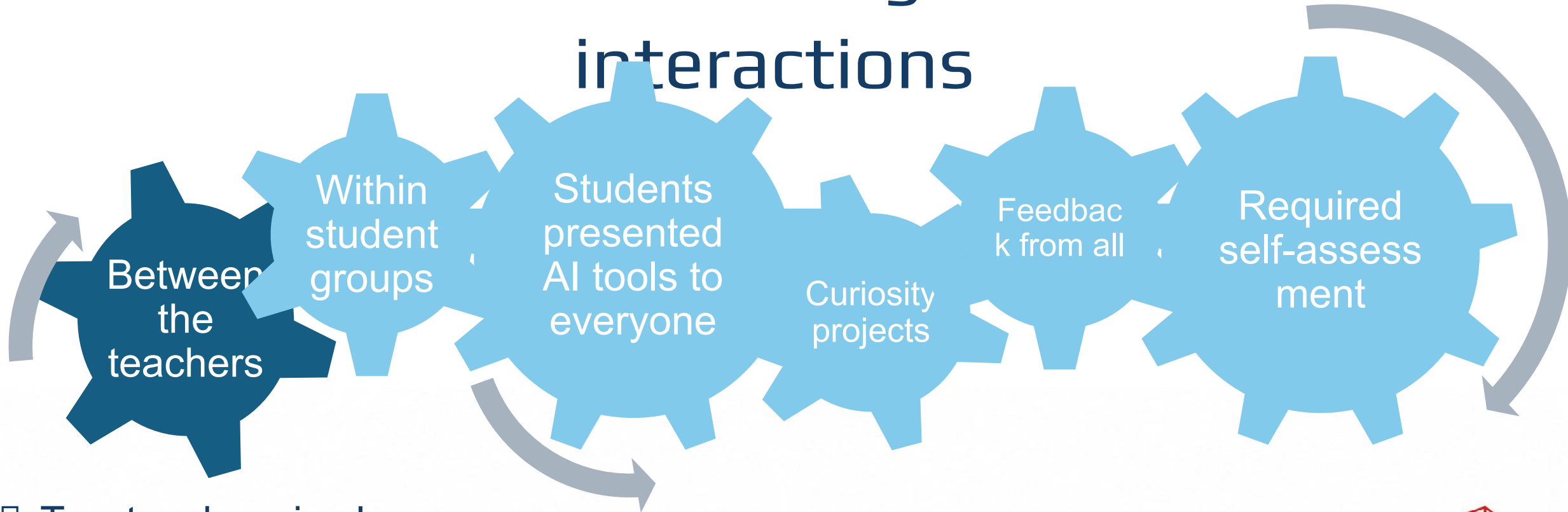
- **What AI/LLMs are** – capabilities, limitations, hallucinations and bias
- **Prompting and critical evaluation** of AI output
- **AI tools** for learning, research, literature, presentations and feedback
- **Responsible and ethical use**
- **Curiosity Project:** using AI to explore a question of the student's own choice



Most of the learning came from interactions



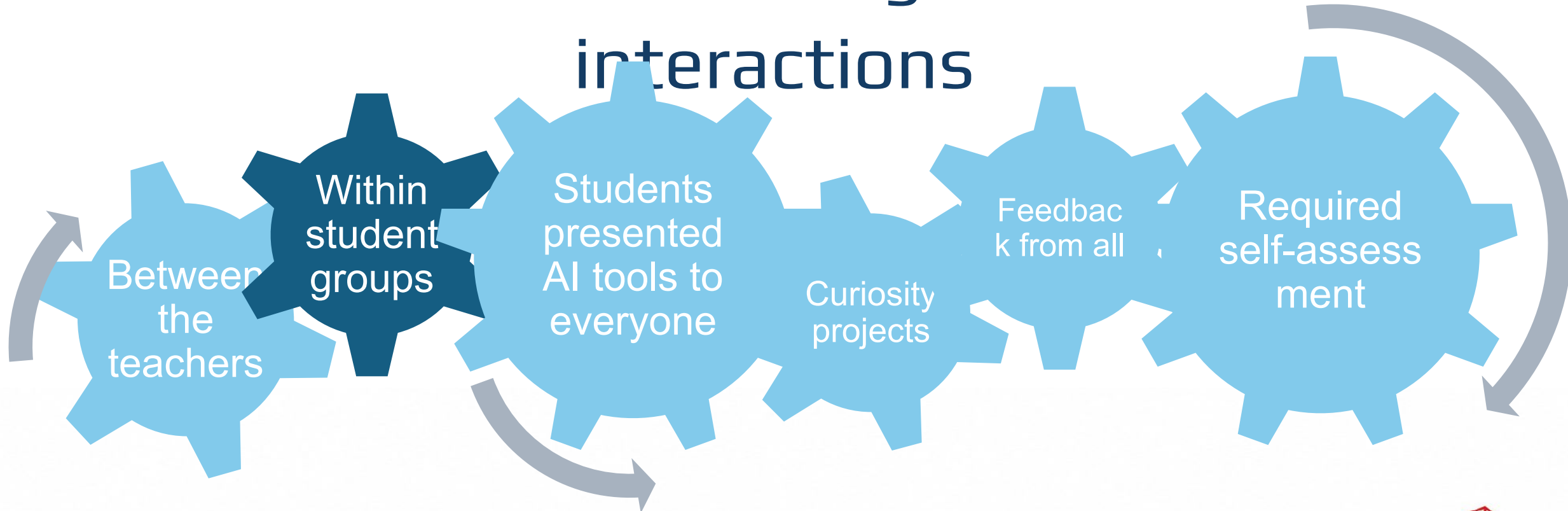
Most of the learning came from interactions



- Two teachers in class
 - Students got two perspectives
 - Students could listen to our discussion



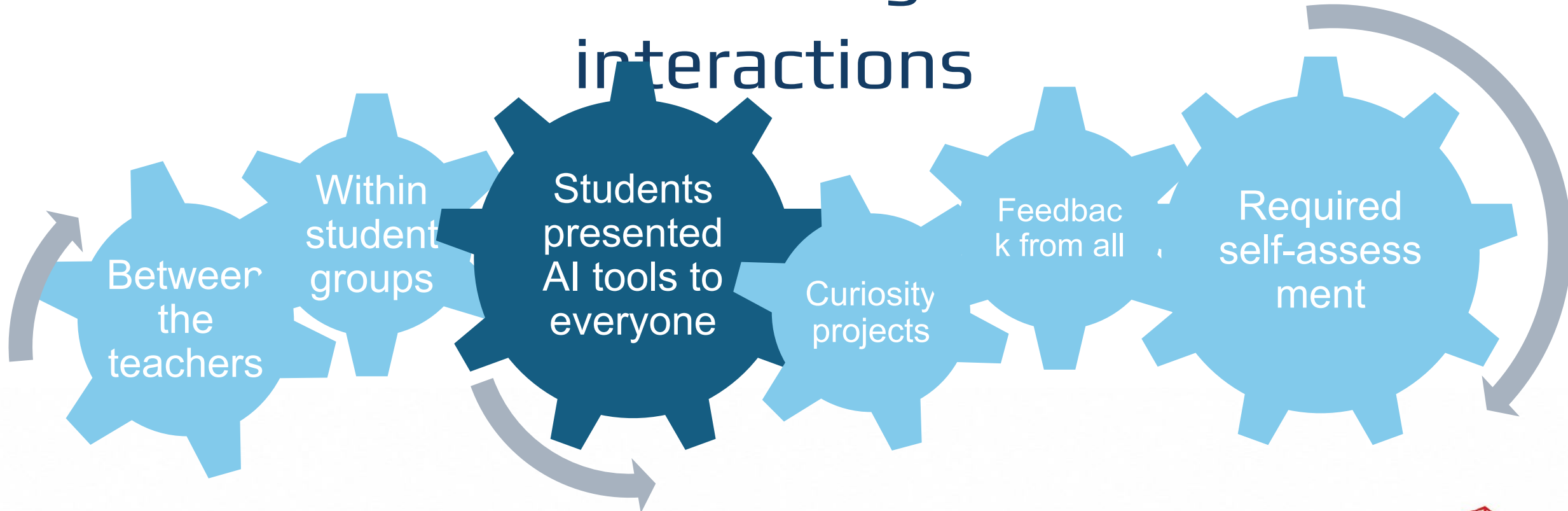
Most of the learning came from interactions



- We worked in the *Kaveret*
- Some work was in groups
- Work was done when Tali and Debbie were in the class



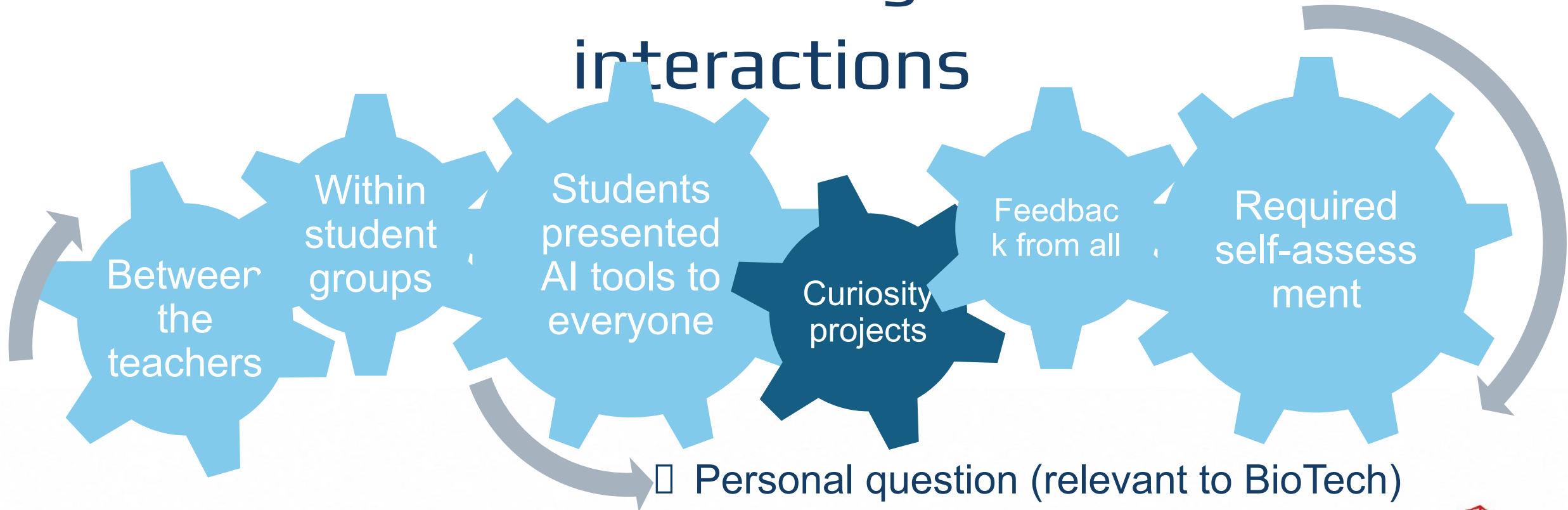
Most of the learning came from interactions



- Presented *MANY* different tools
- Made an instruction video about the tools
- Learned about pro's and con's of the tools
- Could compare tools



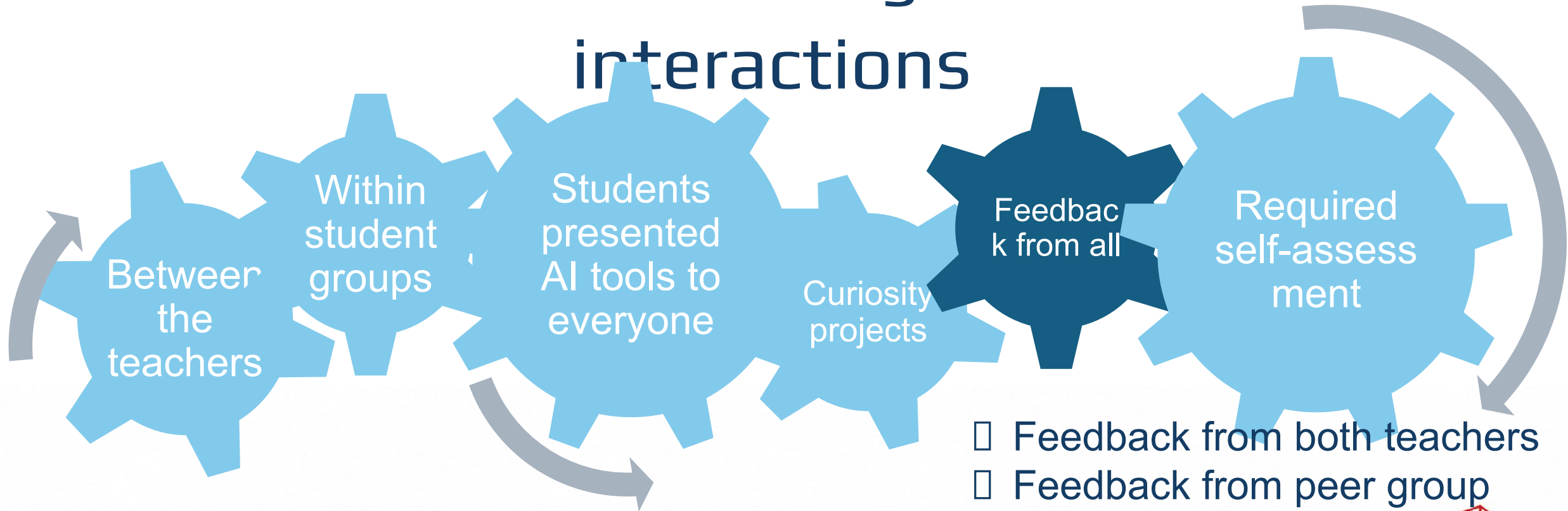
Most of the learning came from interactions



- Personal question (relevant to BioTech)
- Used tools
- Made presentation
- Learned about learning while preparing



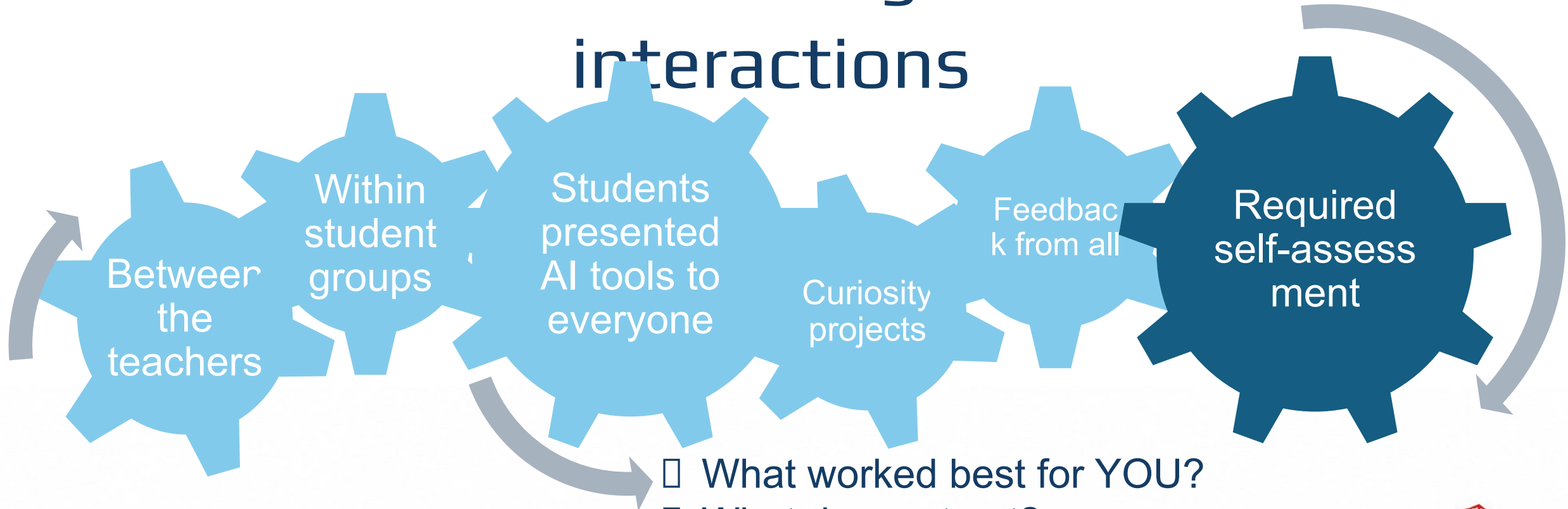
Most of the learning came from interactions



- Feedback from both teachers
- Feedback from peer group
- Learned from other presentations



Most of the learning came from interactions



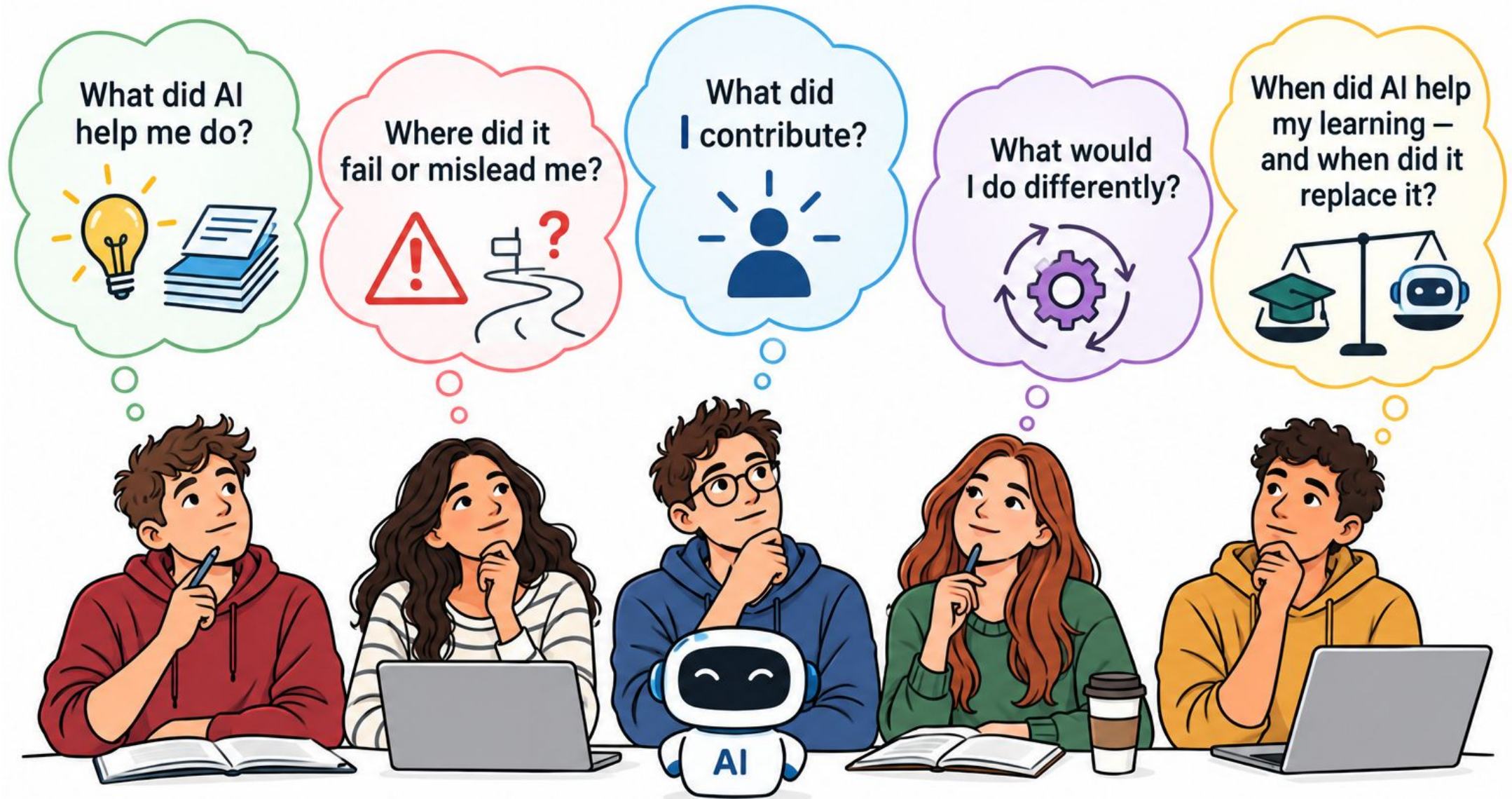
- ☐ What worked best for YOU?
- ☐ What do you trust?
- ☐ What did you learn from best?
- ☐ Which presentations did you like?
- ☐ What didn't you like???



When everyone has powerful tools,
individuality becomes more important – not less.



Reflection: Don't ask AI what you think.



Curiosity Project -1st stage Ready for use

1. What is the title?	Not in the scope - change the title. <i>0 points</i>	Not quite in the scope <i>2.5 points</i>	That is a great title <i>5 points</i>		
2. What is the question that you need to ask to start investigating your Curiosity project?	That is not a question <i>0 points</i>	Not focused enough <i>2.5 points</i>	That is a great question <i>5 points</i>		
3. Show the answer given by Chat GPT	You did not give the answer <i>0 points</i>	Great! <i>5 points</i>			
4. Show the answer given by Gemini	You did not give the answer <i>0 points</i>	Great! <i>5 points</i>			
5. Show the answer given by Claude	You did not give the answer <i>0 points</i>	Great! <i>5 points</i>			
6. Show the answer given by Goolgle search engine	You did not give the answer <i>0 points</i>	Great! <i>5 points</i>			
7. Identify the differences among the answers you got and describe them	No answer <i>0 points</i>	You must do it by yourself, not AI! <i>10 points</i>	You identified the differences , but did not describe them sufficiently <i>20 points</i>	You really identified the differences, great! <i>30 points</i>	
8. Reflect on the differences among the different AI agents	No answer <i>0 points</i>	You must do it by yourself, not AI! <i>10 points</i>	You identified the differences , but did not give your reflection <i>20 points</i>	That was a basic refelection <i>30 points</i>	You really understood the differences, and we hope you will use them well <i>40 points</i>

technology:
ading by

Use the technology:
Rubric grading by
Moodle

Curiosity Project -1st stage Ready for use

1. What is the title?	Not in the scope - change the title. 0 points		Not quite in the scope 2.5 points	That is a great title 5 points	
2. What is the question that you need to ask to start investigating your Curiosity project?	That is not a question 0 points		Not focused enough 2.5 points	That is a great question 5 points	
3. Show the answer given by Chat GPT	You did not give the answer 0 points		Great! 5 points		
4. Show the answer given by Gemini	You did not give the answer 0 points		Great! 5 points		
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7. Identify the differences among the answers you got and describe them	No answer 0 points	You must do it by yourself, not AI! 10 points	You identified the differences , but did not describe them sufficiently 20 points	You really identified the differences, great! 30 points	
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Technology:
Leading by

Use the technology:
Rubric grading by
Moodle

Using AI will open doors.

Used well, it will help our students achieve things
they could never achieve alone.

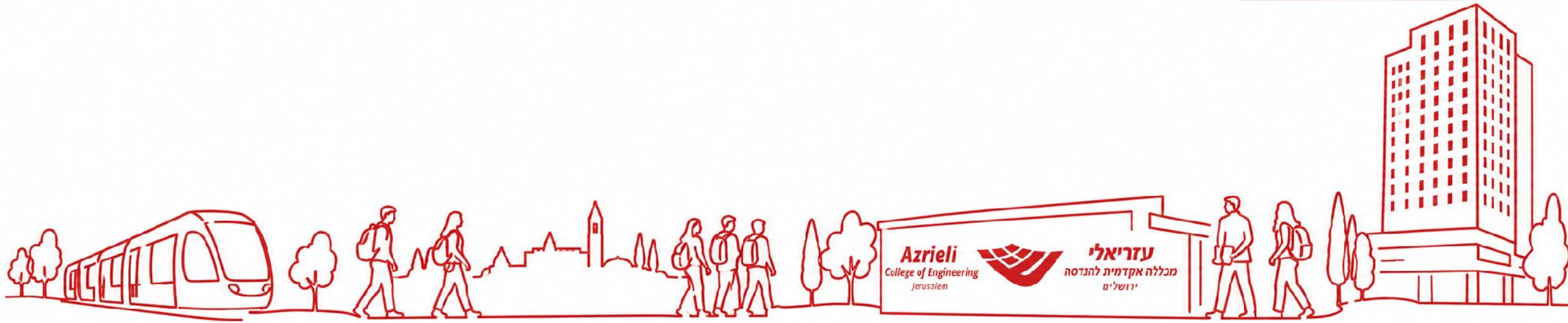
Used badly, those same doors will slam in their
faces.



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**We owe it to our students to
teach them the difference.**



