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GUIDELINES FOR FACILITATING THE LEARNING OF ARTIFICIAL INTELLIGENCE BY SCHOOL STUDENTS OF GRADES 7-12

Module 3.8: **Digital Assistants**

Guidelines for facilitating the learning of Artificial Intelligence (AI) by School Students of Grades 7-12

Project Number: 2021-1-CY01-KA220-SCH-000032567

DOUKAS SCHOOL

C2 Training Course
12-15 July 2023

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Voice-activated software programs that can perform electronic tasks for you

https://marketbusinessnews.com/financial-glossary/digital-assistant-definition/

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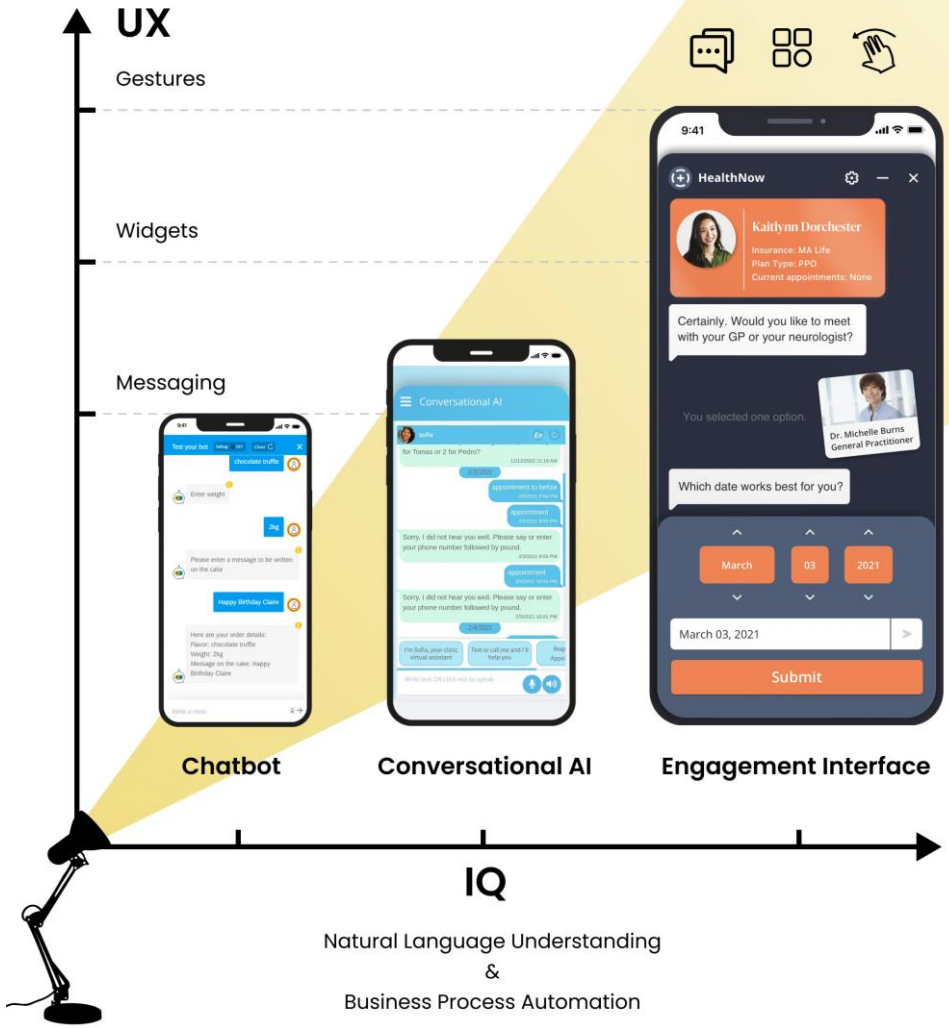
Evolution of Digital Assistants



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Structure of the Module

I. *The story of a DA*

Interactive Activity

I. *Statement and Significance*

II. *Key Points of Integration of DA in class*

Interactive Activity

I. *Challenges and Opportunities*

II. *Closing Activity: Reflection and Q&A*

Interactive Activity

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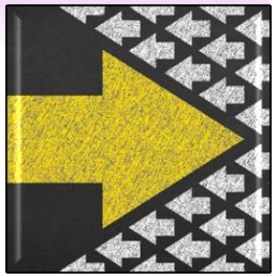
The story of a DA

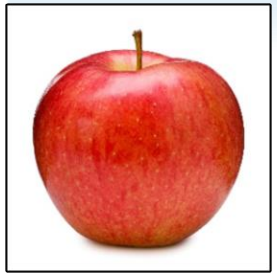
Mirror

- DA

Evil Queen

- Nonbeliever





Poisoned apple

- AI tool

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Mirror, mirror on the screen
Can Alexa revolutionize the education scene?

menti.com

69824052

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Digital Assistant in Class: **Statement**

From: "human – computer interaction"

Stuart K. Card, Allen Newell, and Thomas P. Moran. 1983, *The Psychology of Human–Computer Interaction.*

Unlike other tools with specific and limited uses, computers have many uses which often involve an open-ended dialogue between the user and the computer.

Suchman, Lucy (1987). *Plans and Situated Action. The Problem of Human-Machine Communication*. New York, Cambridge: Cambridge University Press.

To: "human – machine communication".

Machine to human combination is **a form of communication in which humans co-work with Artificial Intelligence (AI) systems and other machines as opposed to utilizing them as tools or devices**.

Andrea L. Guzman (2017). *Human-Machine Communication, Rethinking Communication, Technology, and Ourselves.* (Volume editor) TextbookXX, Media and Communication, Series: Digital Formations.

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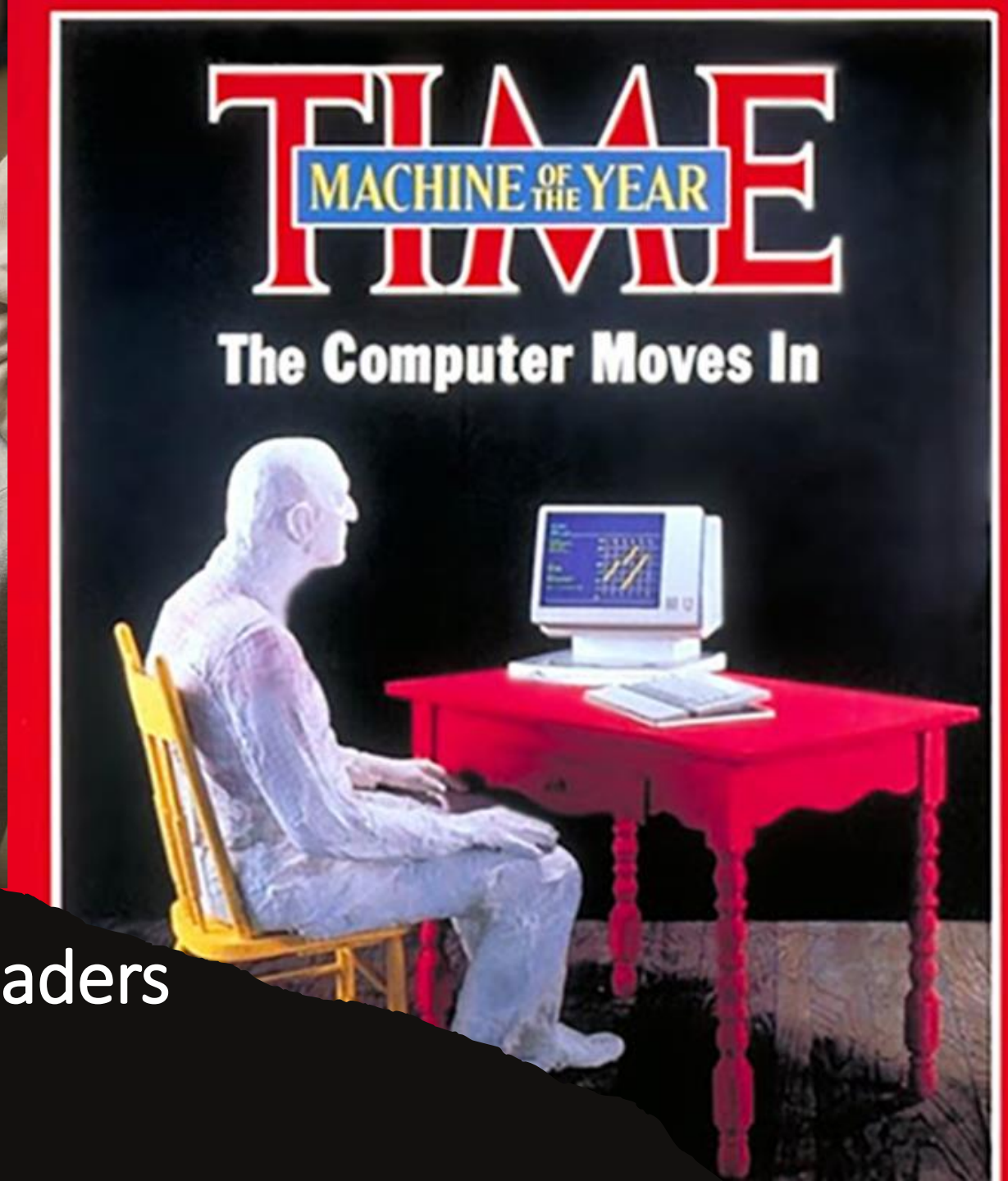

Inspire a new generation of Leaders

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Digital Assistants in class: **Significance**

Combined sources in class: teacher and digital assistant

- Adapt to individual student needs
- Provide Personalized learning experiences
- Enhanced engagement
- Data-driven insights
- Access to information
- Future-ready skills

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Digital Assistants in class: **Significance**

Why to incorporate a digital assistant in class?

- Every student who is now at school will work, interact and communicate with a “machine” (AI, robot, IoT cyborg, etc.)
- It’s a popular application of AI - part of our everyday life
- Measurable
- Value for money school project
- Easy to use even without IT background
- Attractive to students

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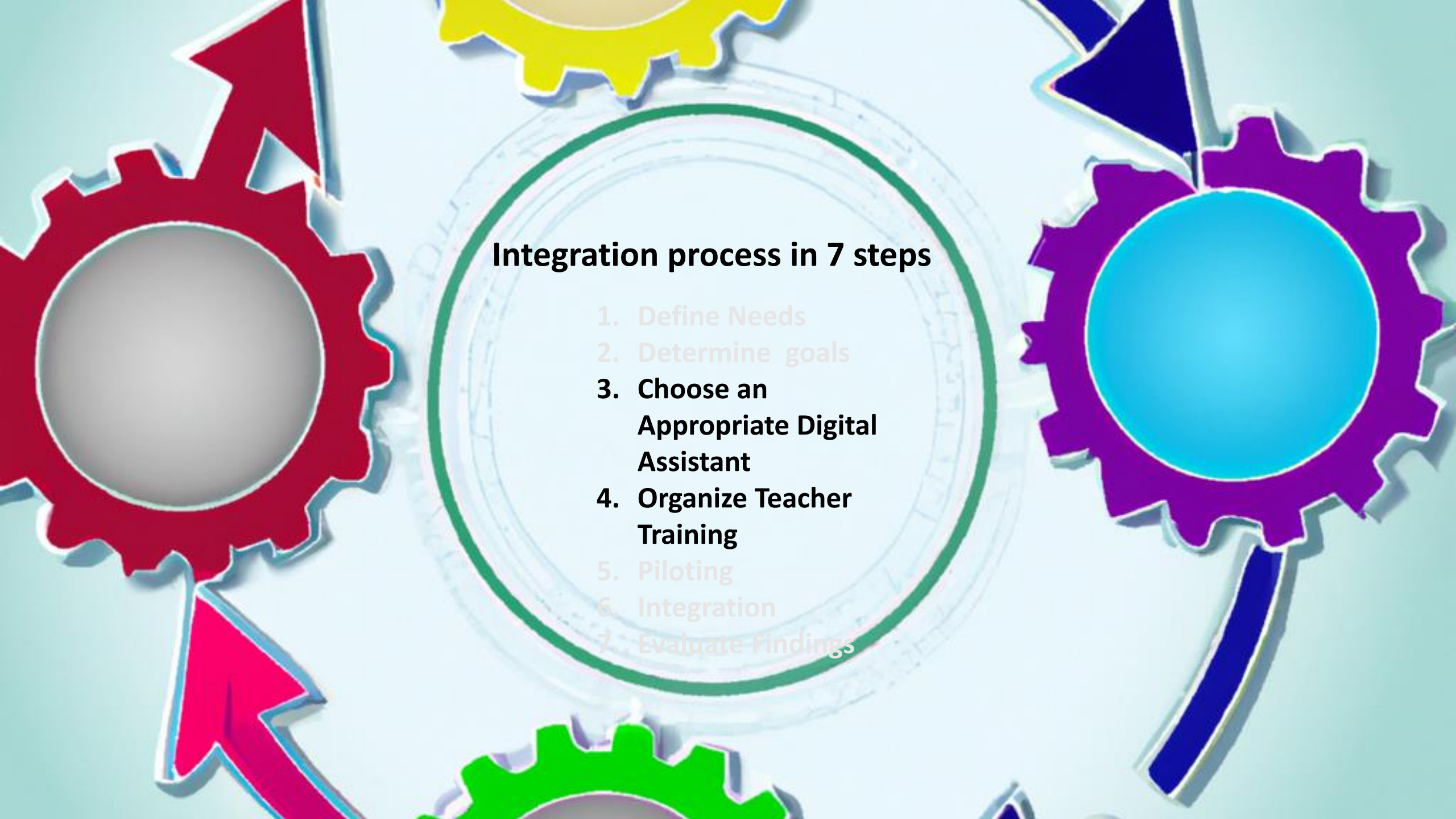
Digital Assistants in class: **Key points of integration**

Alexa our new friend in class

- Design of lesson plans
- 8 weeks learning plans within the EFL class for the 2nd grade of High School students
- Introduce Alexa as the class new friend and assistant
- Allow students to interact
- Surprise but also curiosity among class members

Integration process in 7 steps
1. Define Needs
2. Determine Goals
3. Choose an Appropriate Digital Assistant
4. Organize Teacher Training
5. Piloting
6. Integration
7. Evaluate Findings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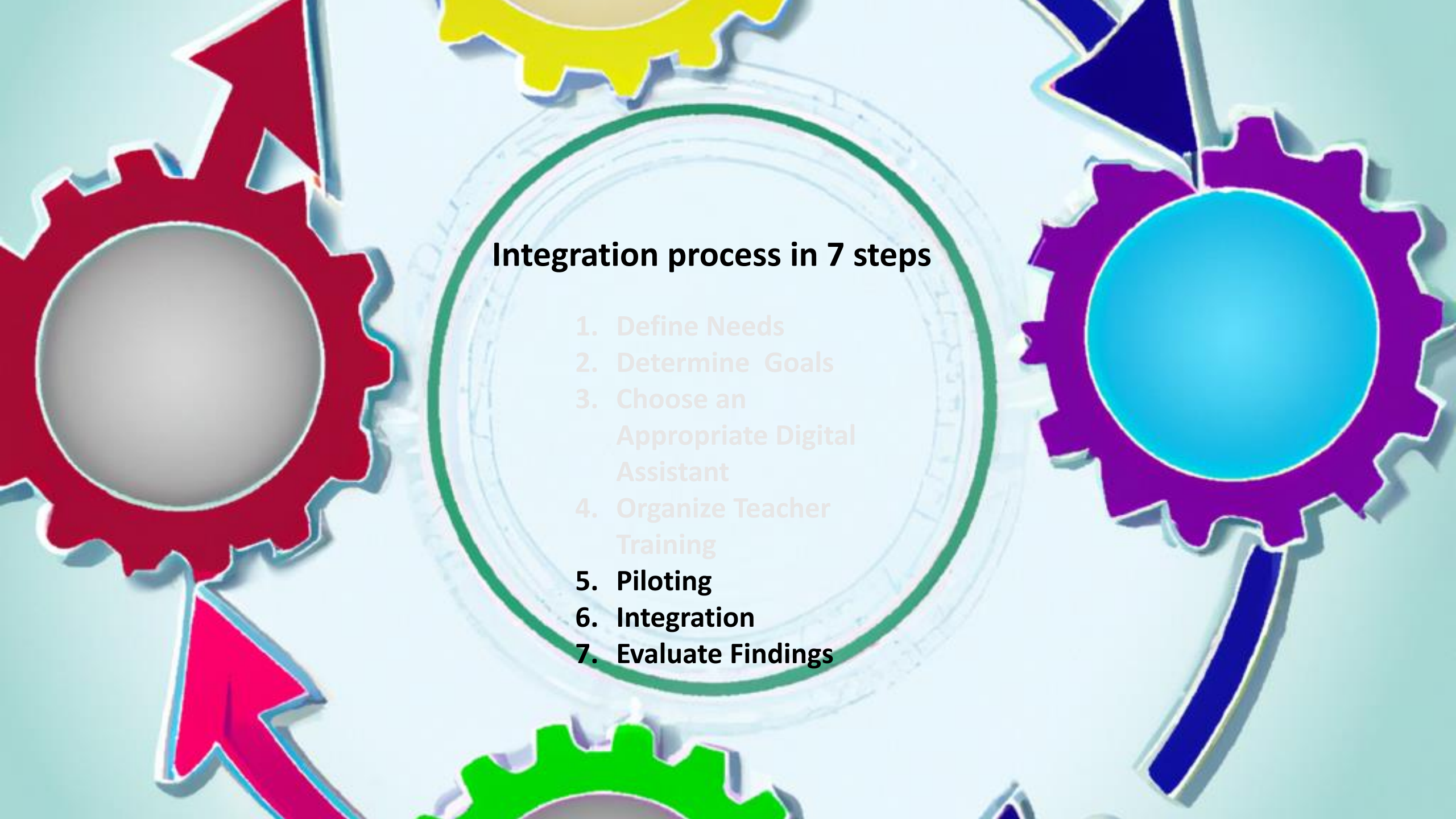
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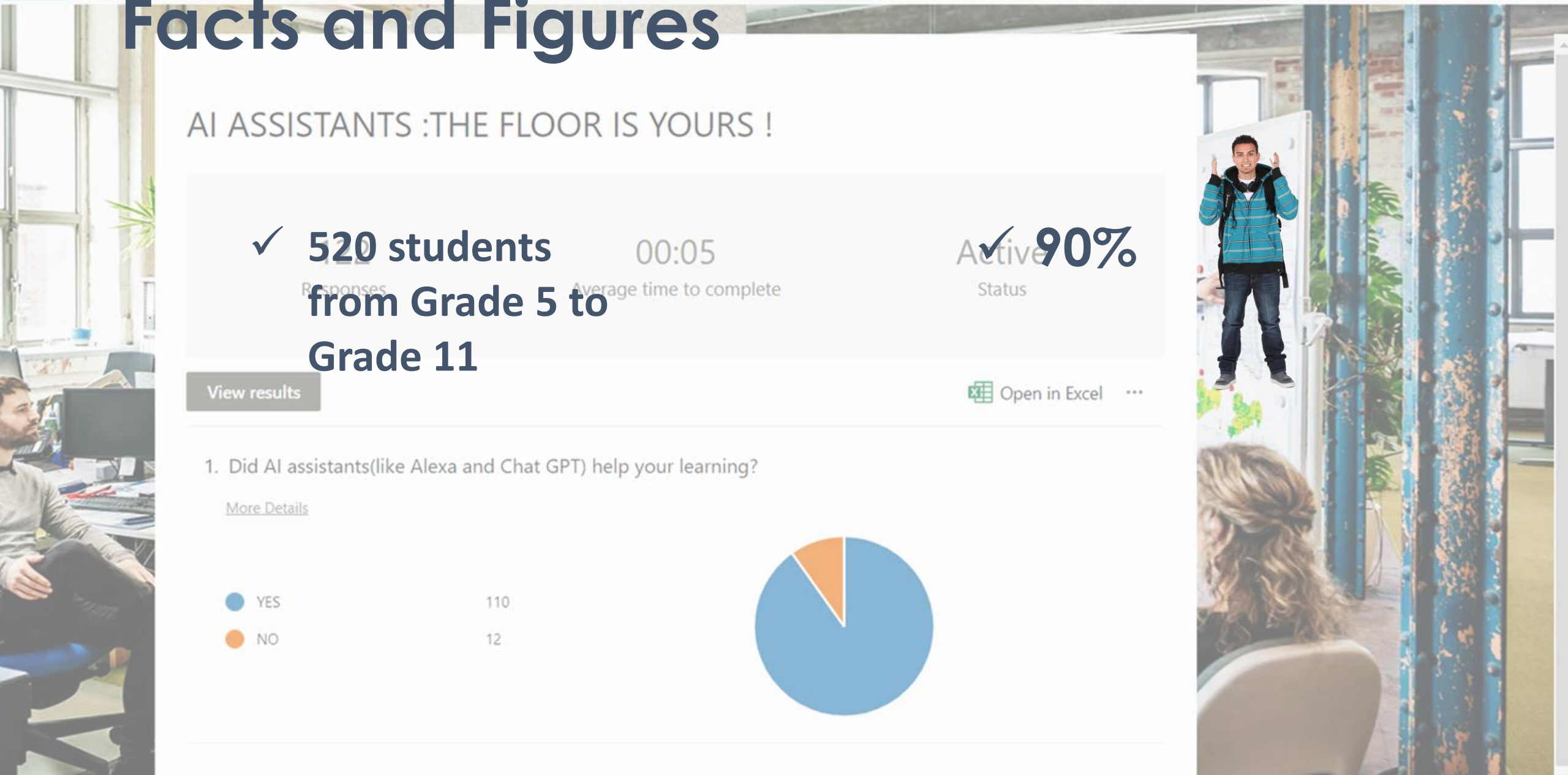
Basic findings

- Questionnaires
- Observation qualitative data
- Alexa archives

Facts and Figures



- ✓ **520 students from Grade 5 to Grade 11**
- ✓ **90%**

rms

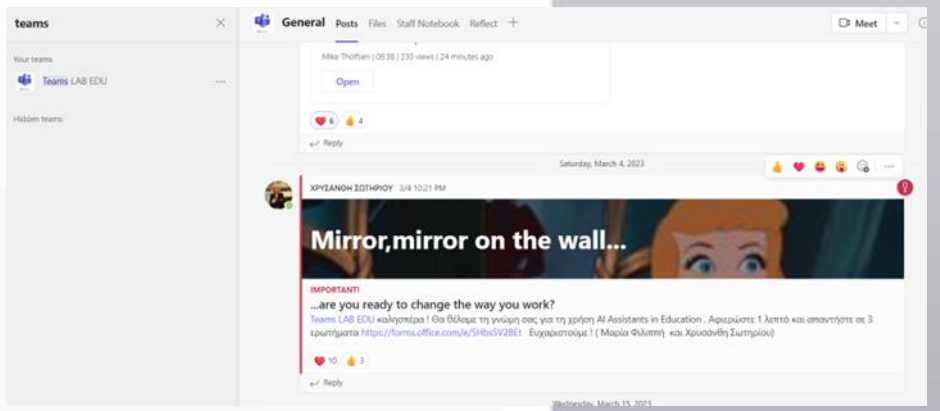
Digital Assistants (Alexa/ChatGPT/DALLe) - Saved

estions Responses 109

Preview Style Collect respons

92%

Digital Assistants (Alexa/ChatGPT/DALLe)



109
Responses

00:15
Average time to complete

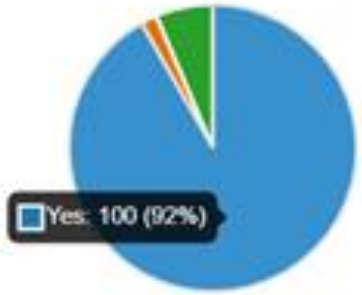
View results

Open in Excel

1. Do you consider AI assistants as a key tool in order to enhance learning plans?

More Details Insights

Yes	100
No	2
Maybe	7



2. Have you ever used a Digital Assistant in your classroom or work environment?

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Lessons learned

- Students were surprised but also happy to have Alexa in class
- They were competing Alexa
- They were trying to find mistakes
- They were trying to find questions Alexa couldn’t answer
- They were polite
- They were asking for Alexa to be there everyday in class

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Challenges

- Technical Reliability and Accessibility
- Bias and Ethical Concerns

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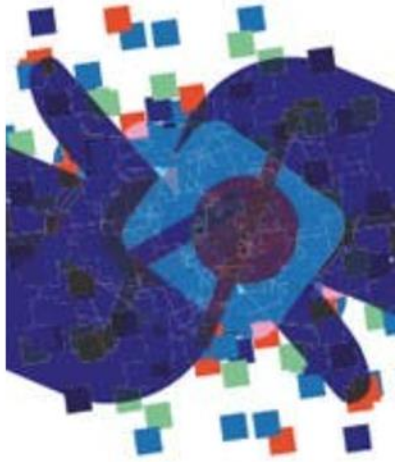
Conclusions

Go to **www.menti.com** and use the code **5227 3771**

How would you describe the lesson with Alexa ?

Press S to show image

Mentimeter



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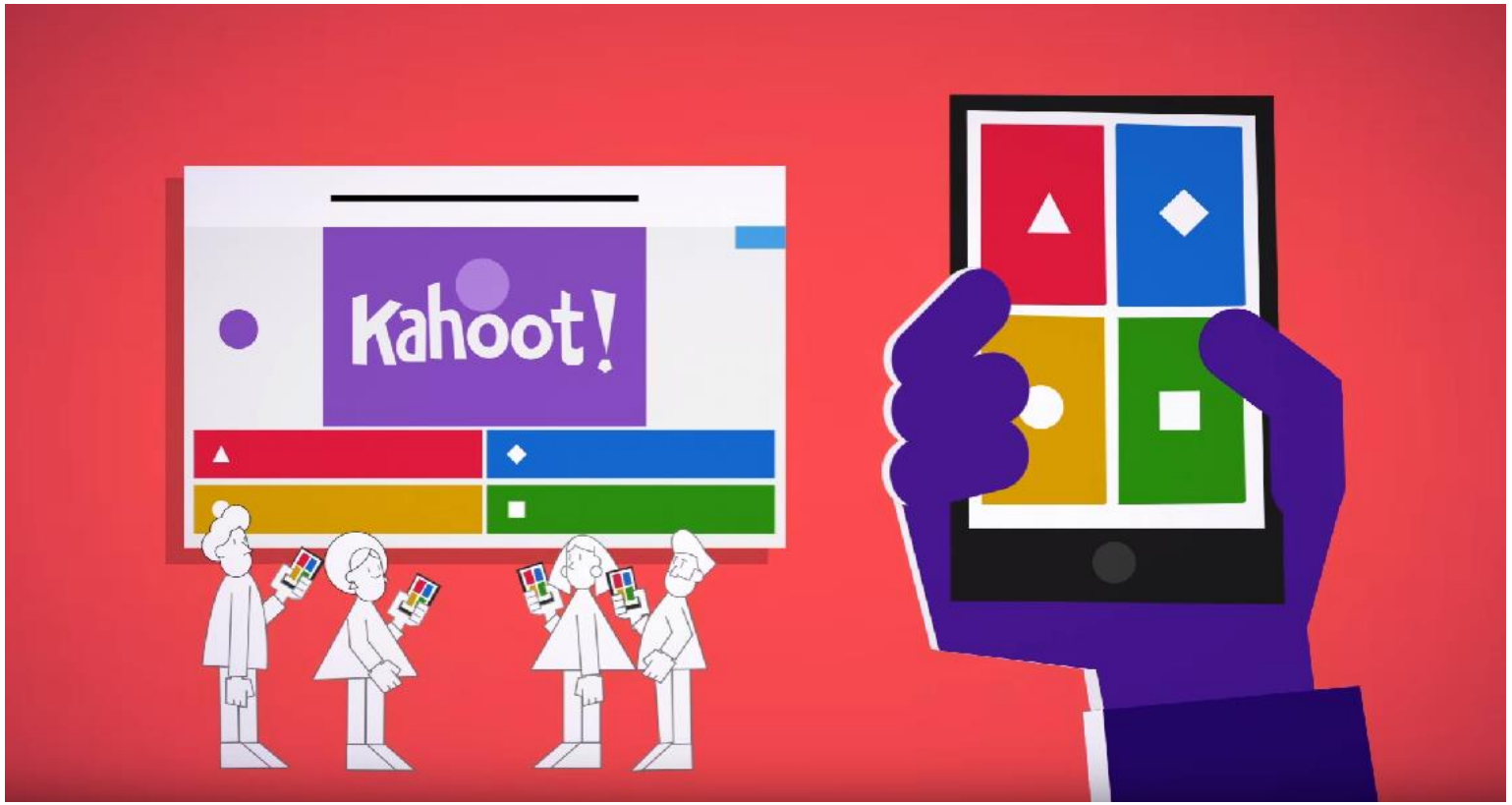
Conclusions…



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AI-powered Digital Assistants are like a paintbrush, it's up to us to decide whether we want to paint a masterpiece or a mess.

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Prof. Ivan Apostolov ENGLISH LANGUAGE SCHOOL

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