O3
EXAMPLES OF USING NEW TEACHING METHODS, OVERVIEW OF PILOT LECTURES

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Team Latvia, PECC «Liepaja State technical school» :

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- Madara Mago

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- The project helps partner educational institutions to become aware and implement new teaching methodologies that would meet the need of today's youth and allow them quickly and easily acquice knowlege that is needed in today's industry. Also the project helps to create base to cooperation network which enables to make cooperation in designing courses and adapting new teaching methodologies and change information and knowlege. The project result are posible to broaden outside the project partners group too.

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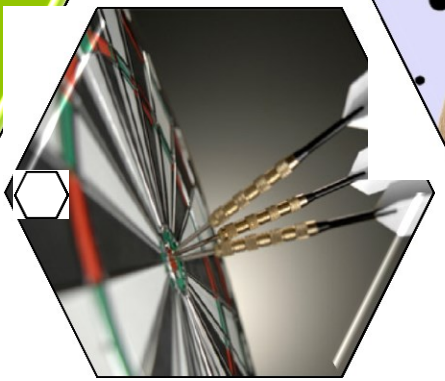
Why modern teaching methods are used?

uses modern technology

improve teaching effectiveness

students are interesting

eduction proces is modern



Modern teaching methods are characterized by

- Use of inetarctive sofware
- Diversity of information display
- The combination of different methods

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The idea for the video lecture

Topic

- **Introduction programmable logic controller (further in text -PLC) circuit assembling**
- Use of new technologies
- Combine theoretical material with practical
- Can be used to repeat topic or acquiring remote

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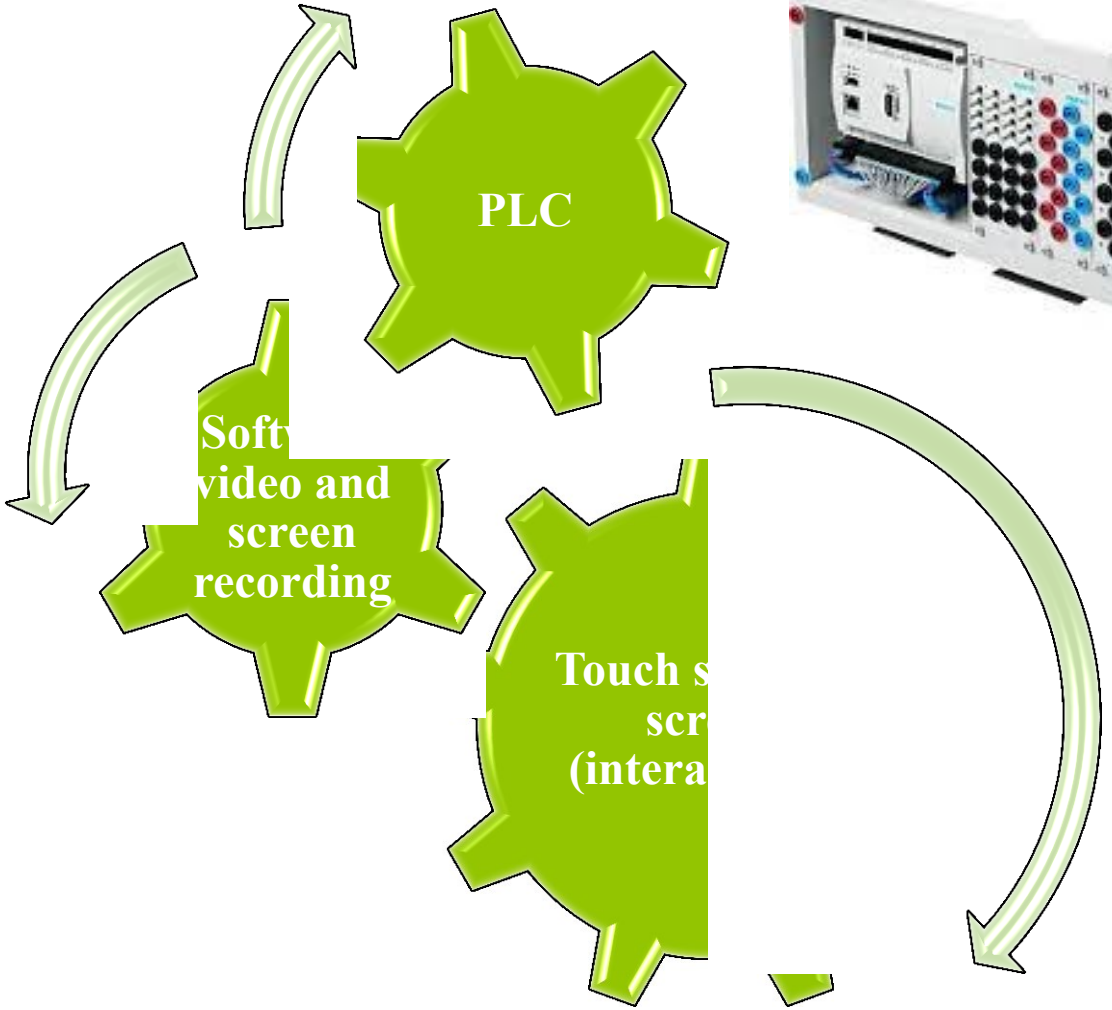
Used technology

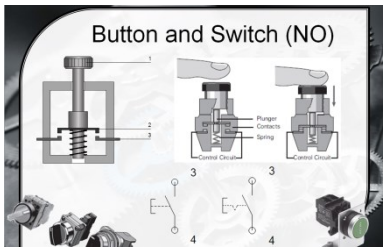


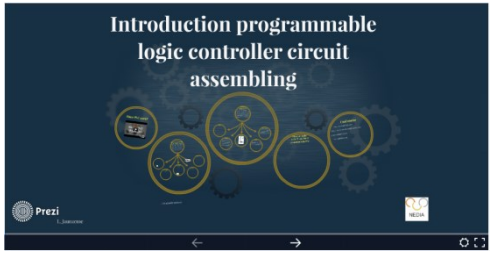
Learning materials

Interactive material - Introduction to PLC

Teacher presentation

Interactive Introduction are made of programmable logic controller circuit assembling

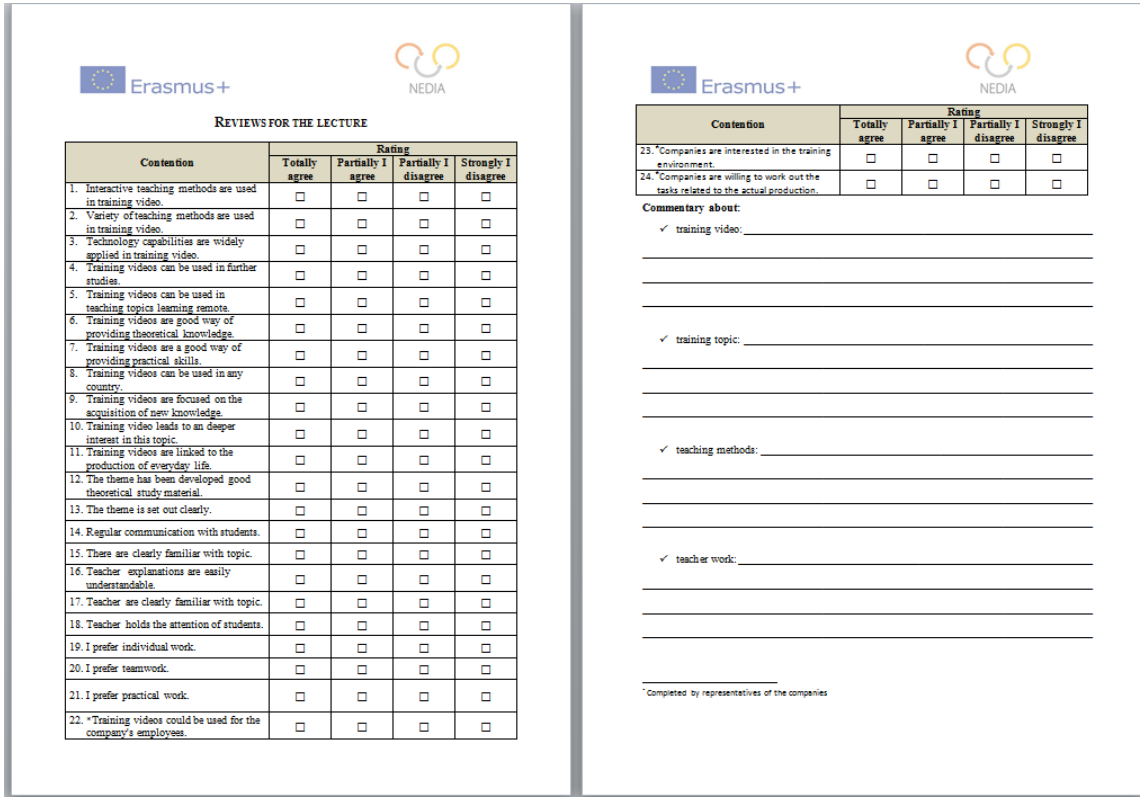




Training video

Feadback

- Feadback blank
  - Qualitaty research method by questionaire
  - 24 questions



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REVIEWS FOR THE LECTURE

Contention	Rating			
	Totally agree	Partially I agree	Partially I disagree	Strongly I disagree
1. Interactive teaching methods are used in training video.	□	□	□	□
2. Variety of teaching methods are used in training video.	□	□	□	□
3. Technology capabilities are widely applied in training video.	□	□	□	□
4. Training videos can be used in further studies.	□	□	□	□
5. Training videos can be used in teaching topics learning remote.	□	□	□	□
6. Training videos are good way of providing theoretical knowledge.	□	□	□	□
7. Training videos are a good way of providing practical skills.	□	□	□	□
8. Training videos can be used in any country.	□	□	□	□
9. Training videos are focused on the acquisition of new knowledge.	□	□	□	□
10. Training video leads to an deeper interest in this topic.	□	□	□	□
11. Training videos are linked to the production of everyday life.	□	□	□	□
12. The theme has been developed good theoretical study material.	□	□	□	□
13. The theme is set out clearly.	□	□	□	□
14. Regular communication with students.	□	□	□	□
15. There are clearly familiar with topic.	□	□	□	□
16. Teacher explanations are easily understandable.	□	□	□	□
17. Teacher are clearly familiar with topic.	□	□	□	□
18. Teacher holds the attention of students.	□	□	□	□
19. I prefer individual work.	□	□	□	□
20. I prefer teamwork.	□	□	□	□
21. I prefer practical work.	□	□	□	□
22. *Training videos could be used for the company's employees.	□	□	□	□

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Contention	Rating			
	Totally agree	Partially I agree	Partially I disagree	Strongly I disagree
23. *Companies are interested in the training environment.	□	□	□	□
24. *Companies are willing to work out the tasks related to the actual production.	□	□	□	□

Commentary about:

✓ training video: _____

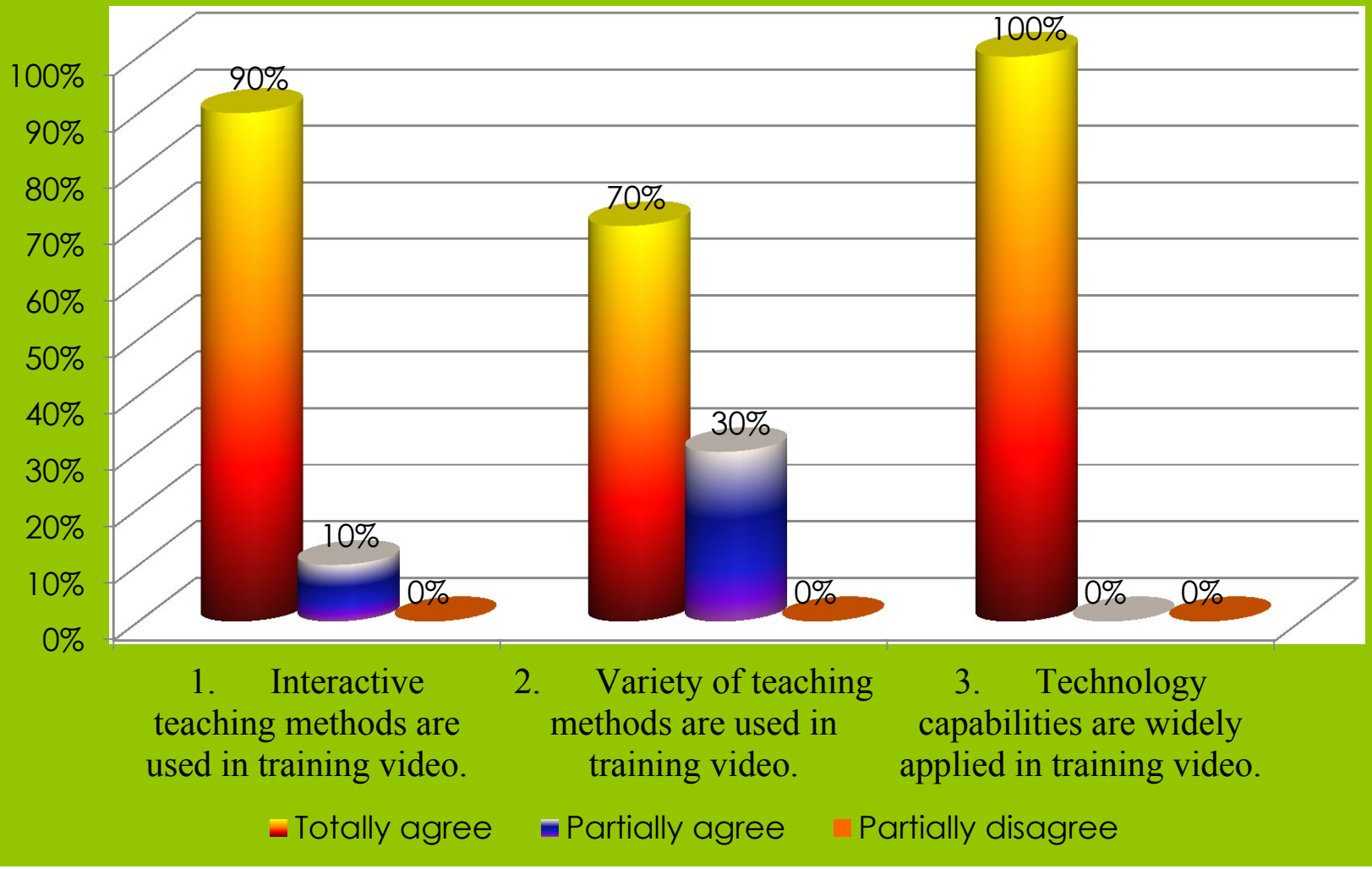
✓ training topic: _____

✓ teaching methods: _____

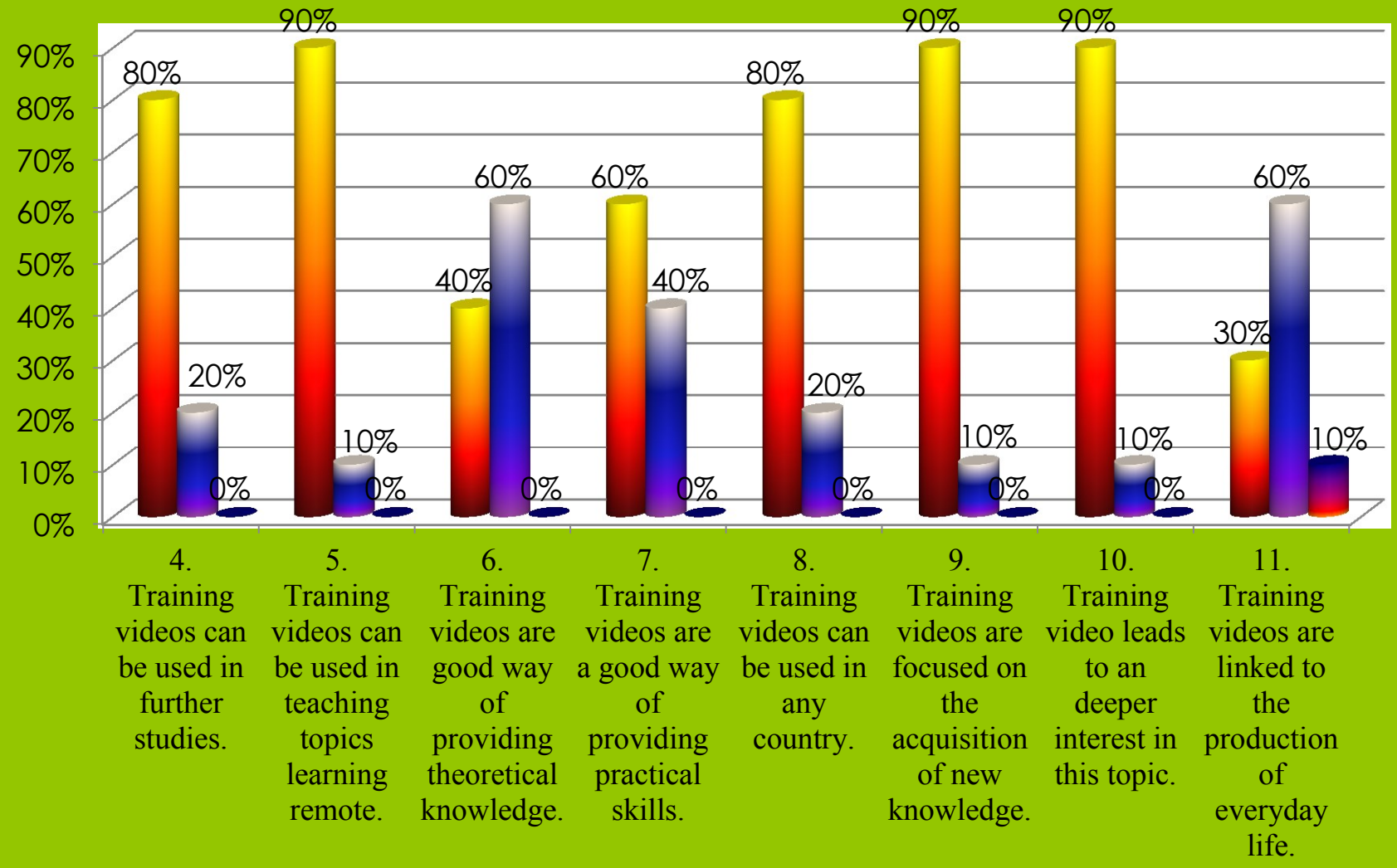
✓ teacher work: _____

*Completed by representatives of the companies

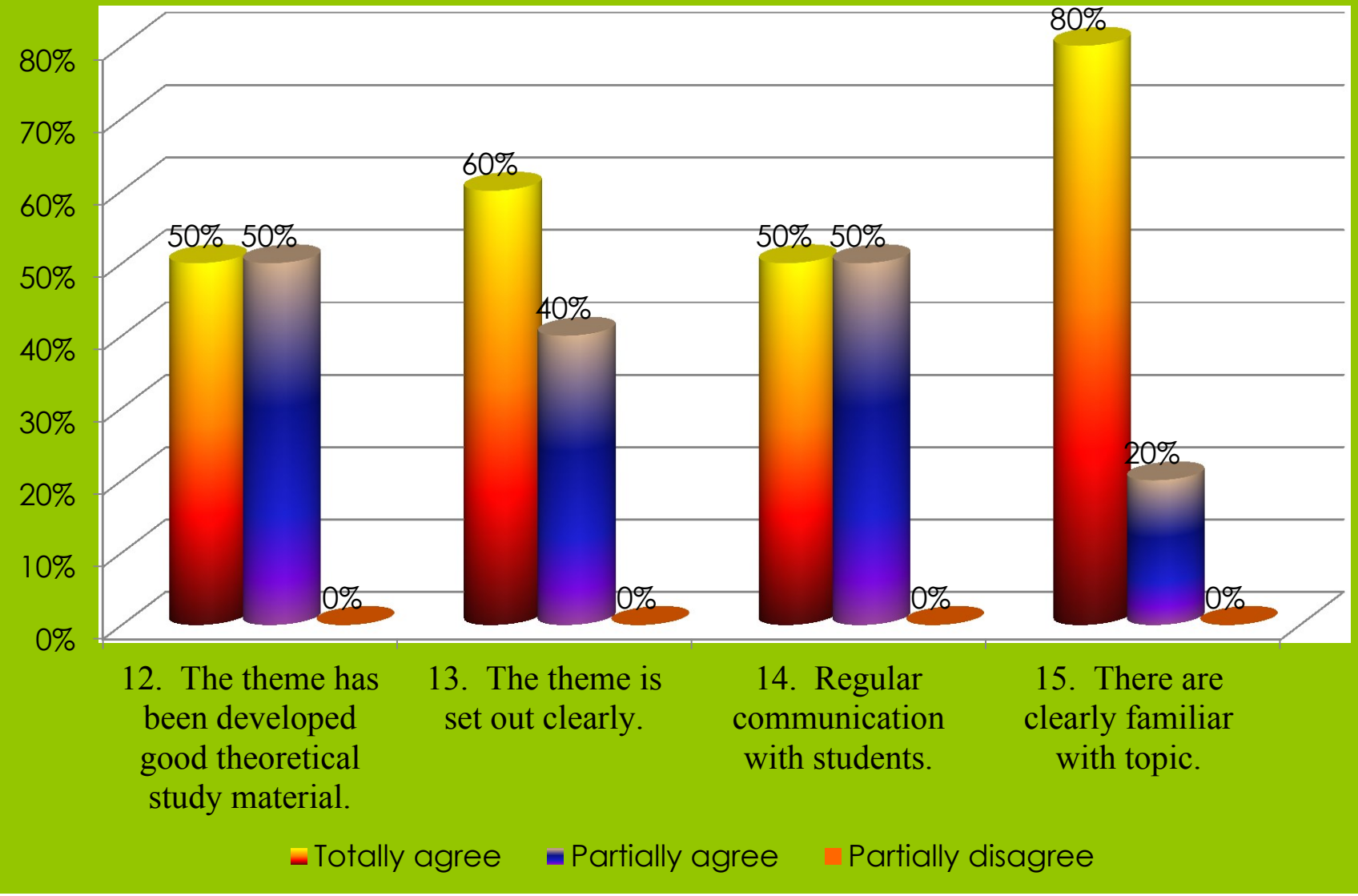
TEACHING METHODS AND TECHNOLOGY IN TRAINING VIDEO



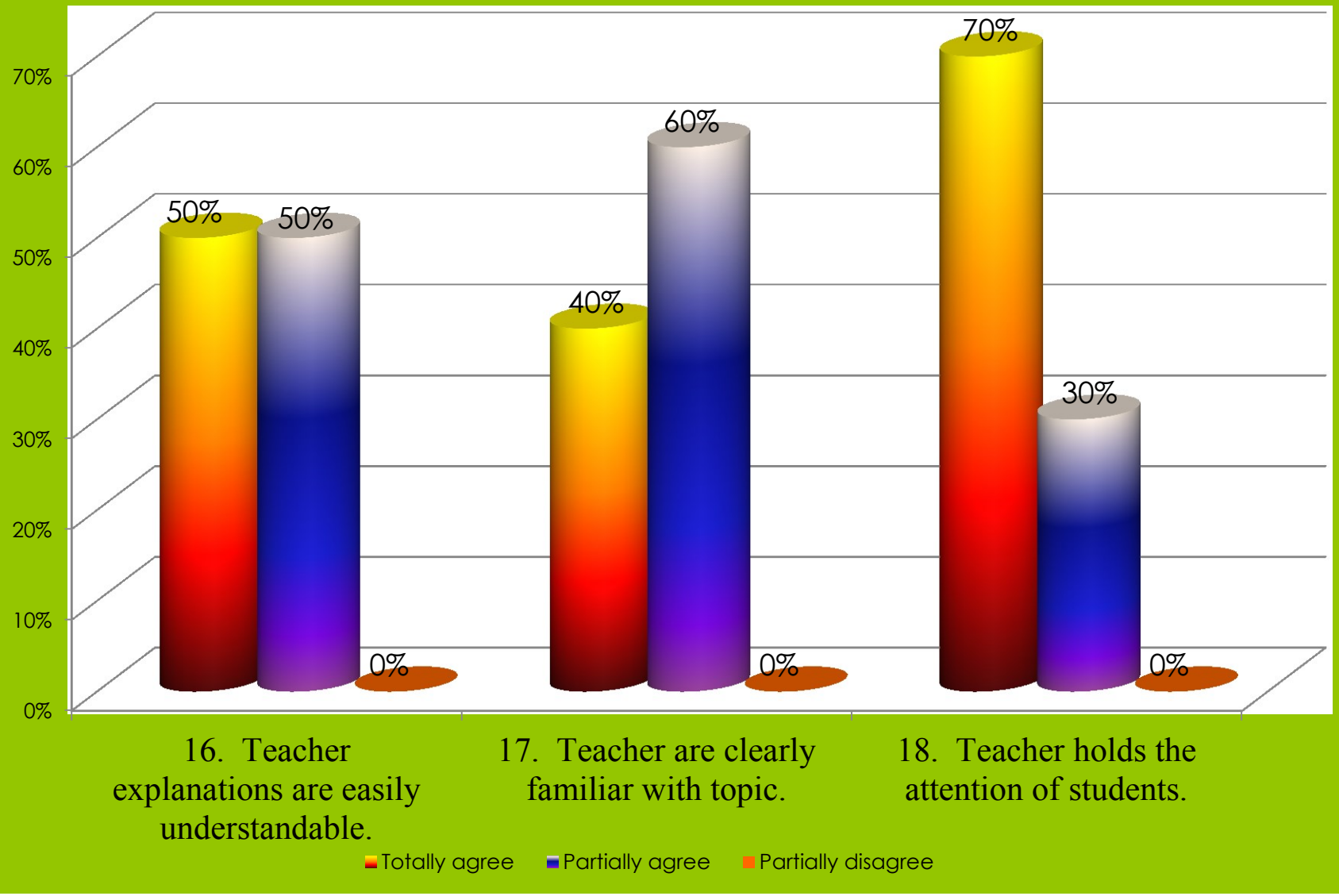
TRAINING VIDEO



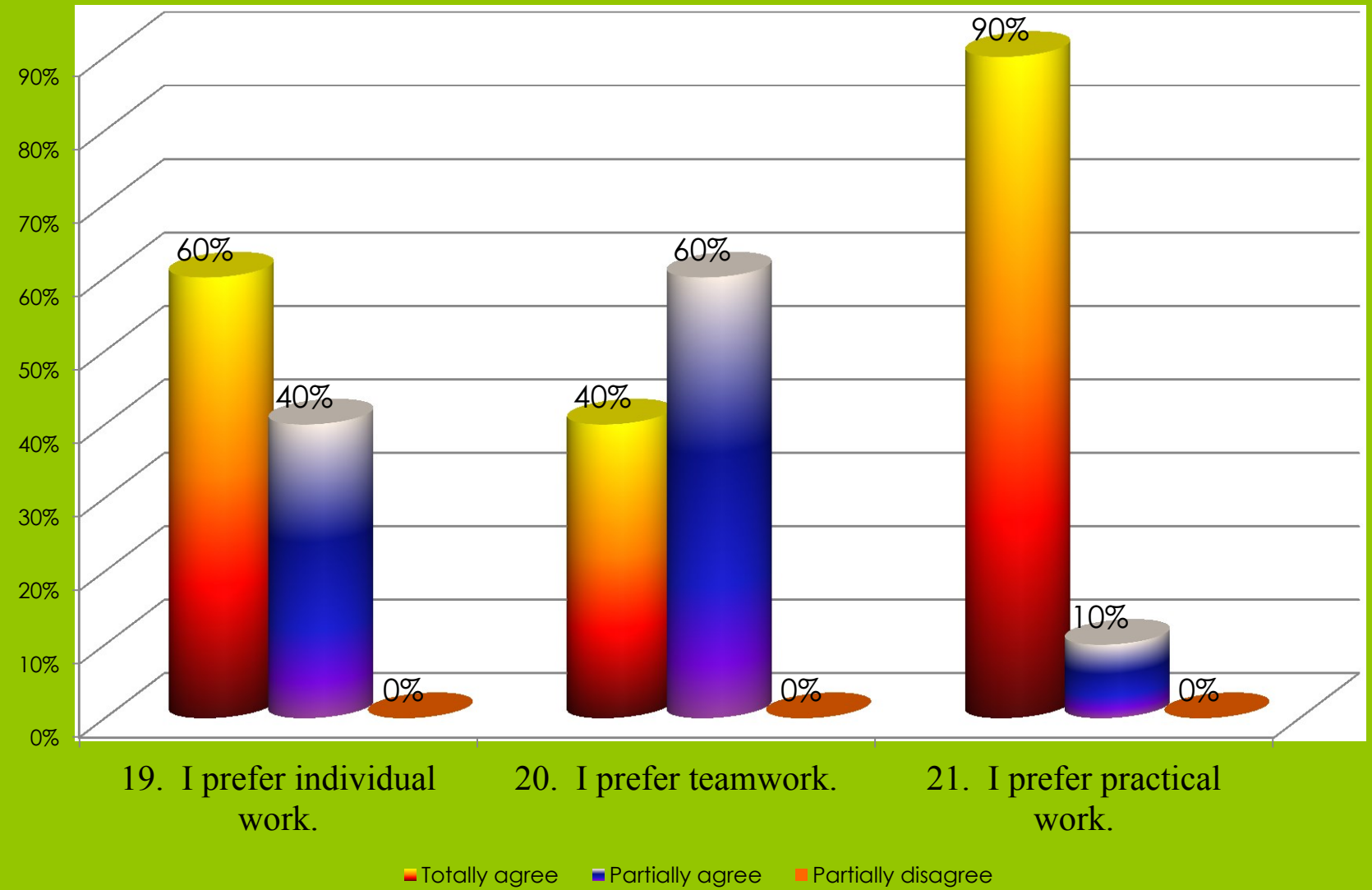
THEME AND LESSON ANALYZE



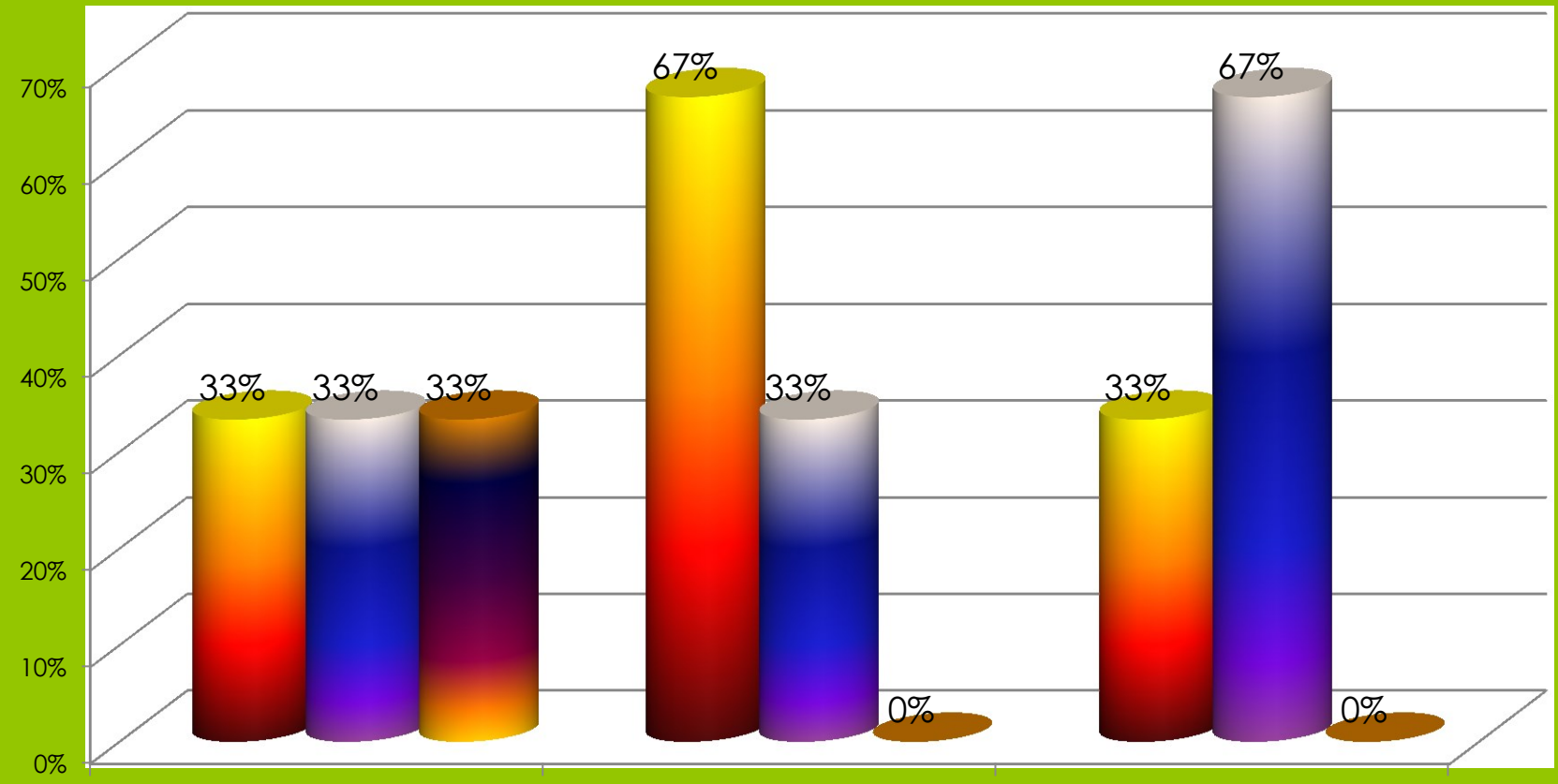
TEACHER WORK



WORKING STYLE ANALYSIS



COMPANY VIEW



O5 COOPERATION BETWEEN NETWORKS

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Cooperation and Network?

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Cooperation network core

Estonia		Finland		Latvia
IMECC OÜ, Innovative Manufacturing Engineering Systems Competence Centre	Tallin Industrial Education Centre	Machine Technology Centre Turku	Raisio Regional Education and Training Consortium	Liepaja State Technical School

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Why do we need cooperation network?

- Mostly it is important to improve:
  - Study programs;
  - Education content;
  - Study placement process;
  - International cooperation between schools;
  - Cooperation between different level education institutions;
  - Study process quality;
  - Different education method use in study process;
  - Experience exchange.

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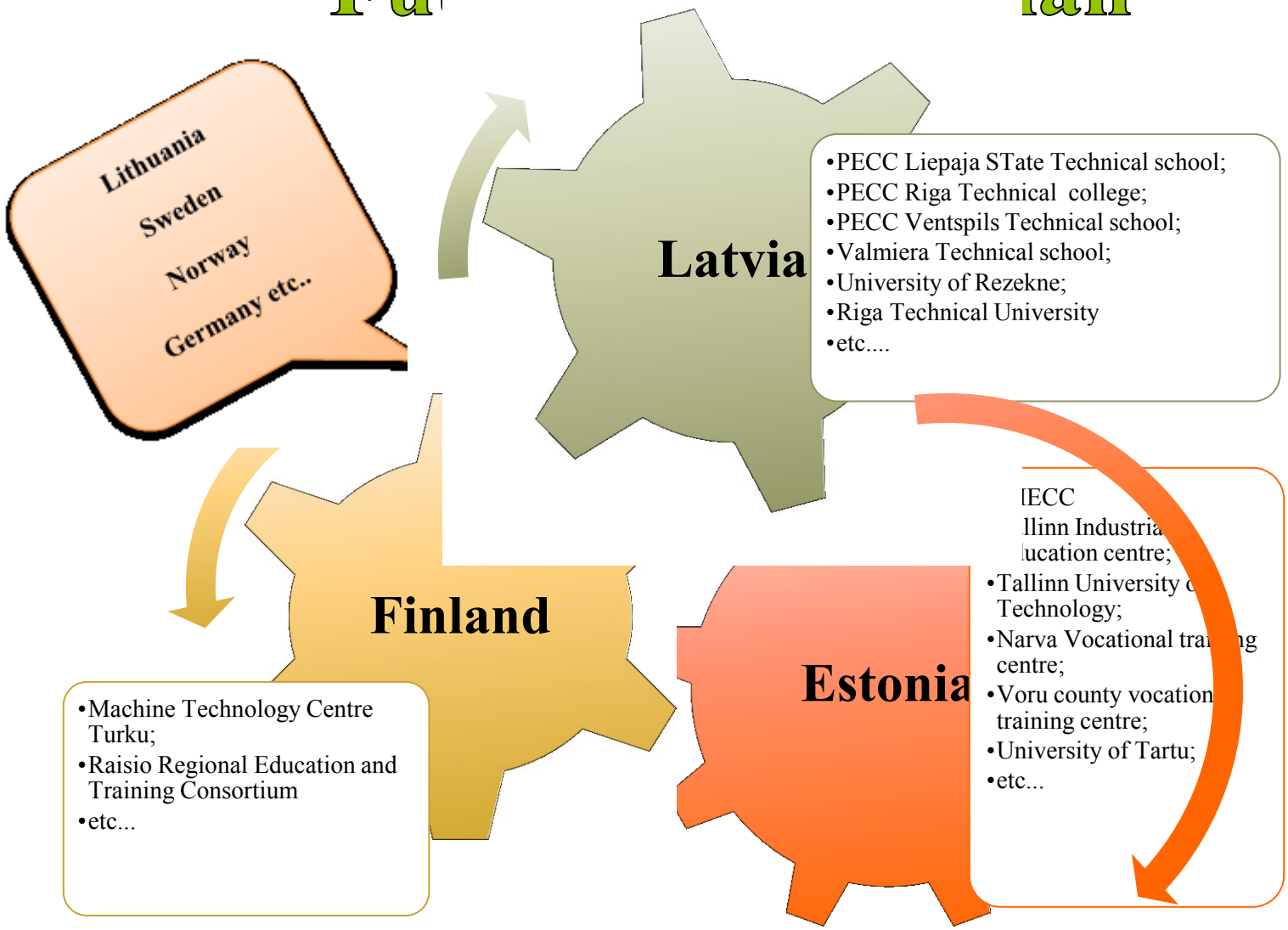

Aim of creating cooperation network

- Present project NEDIA results and prepared material examples, get feedback and recommendations;
- Create online platform (forum or interactive environment) for mechatronics study process improvement between network participants, where they can exchange ideas, study materials, latest industry news and other schools where are mechatronic specialization and invite industry professionals to evaluate it;
- Create plan, how present NEDIA results and future plans for study process improvements to all interests after project is finished;
- Create international competition between mechatronics students, engage main industry specialists and companies;
- Create regular international placement opportunities by using ERASMUS + or other projects;
- Create open lectures where interests; other teachers and industry specialists take participation;
- Create experience exchange seminars, videoconferences (online and offline), to exchange good experience examples.

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