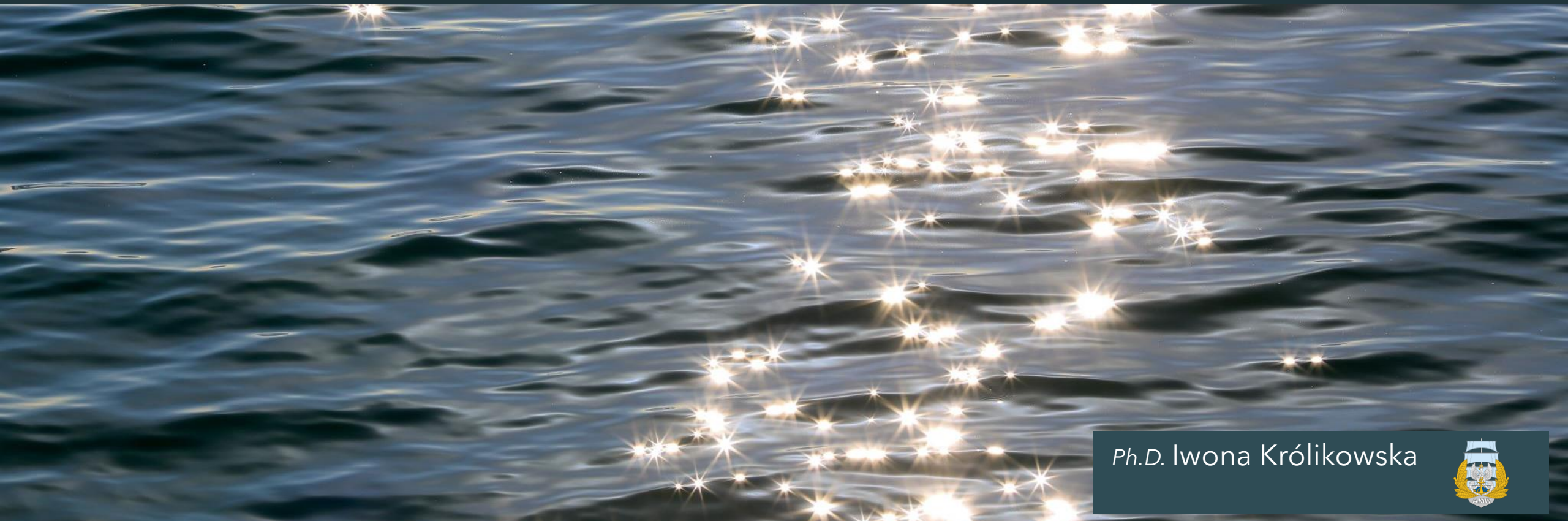


Effectiveness of active teaching methods using marine simulators in the opinion of lecturers



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Advantages of teaching with simulators



- Ability to try many different simulations, many scenarios
- Ability to repeat exercises with error analysis
- Work with almost real simulation
- Create opportunities for students to imagine the results of the simulation
- Impart practical knowledge in an attractive way
- Students prefer this method to other, more traditional teaching methods



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The evaluate the use of simulators in student transfer in the method of acquiring teaching methods



Simulator advocates:

- "us the best evaluation"
- Better method than traditional ones
- Learning on modern simulators is the best way to transfer knowledge and test students' ability to handle challenges in a safe environment
- Advantage of simulators over traditional forms of teaching as learning by doing

Simulator skeptics:

- Very effective tool however only when combined with traditional methods
- Effective tool, however, requiring prior preparation of students' content
- Effective, but after making some changes to the proposed scenarios
- In the era of video games, students do not always approach simulations in a serious way, they are less considerate treating learning as a game.



Main difficulties in learning on simulators

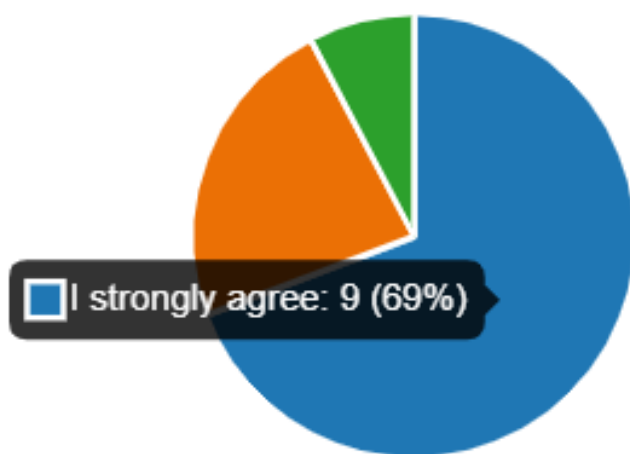


- preparatory phases are tiring and discouraging for students
- the number of students is a limitation - too many students prevents the proper transfer of knowledge and takes too much time
- lack of prior theoretical knowledge makes training less effective
- sometimes students experiment and overcomplicate exercises
- the difficulty for the trainer is to follow several stimulations at once



2. Do you agree with an opinion that in teaching, making use of the simulators boosts students self thinking process?

I strongly agree	9
I agree	3
I have no opinion	1
I disagree	0
I strongly disagree	0



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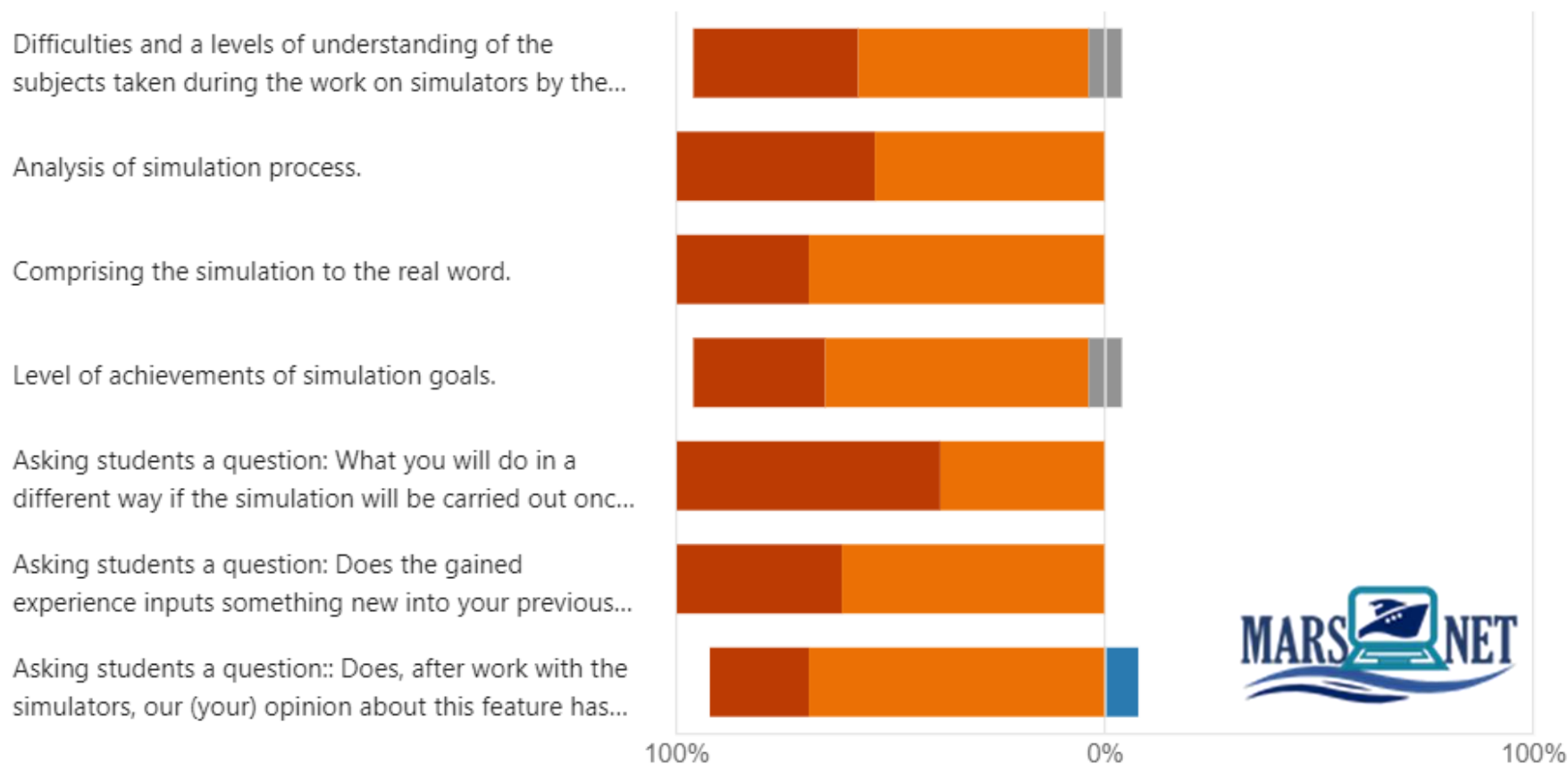


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7. Do you think that after working on simulators with students it will be appropriate to raise the following issues in the summary:

■ I strongly agree
 ■ I agree
 ■ I disagree
 ■ I strongly disagree
 ■ I have no opinion



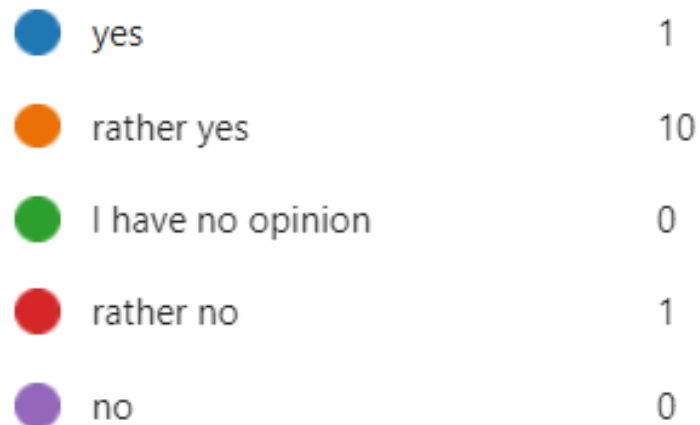
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9. Have you found that the students are discovering new solutions during the simulation process?



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11. **After the completion of your a work on simulators, did you discuss with the students the course of the simulation?**

- yes, always 9
- rather yes 3
- rather no (pass over question 1... 0
- never (pass over the question 1... 0



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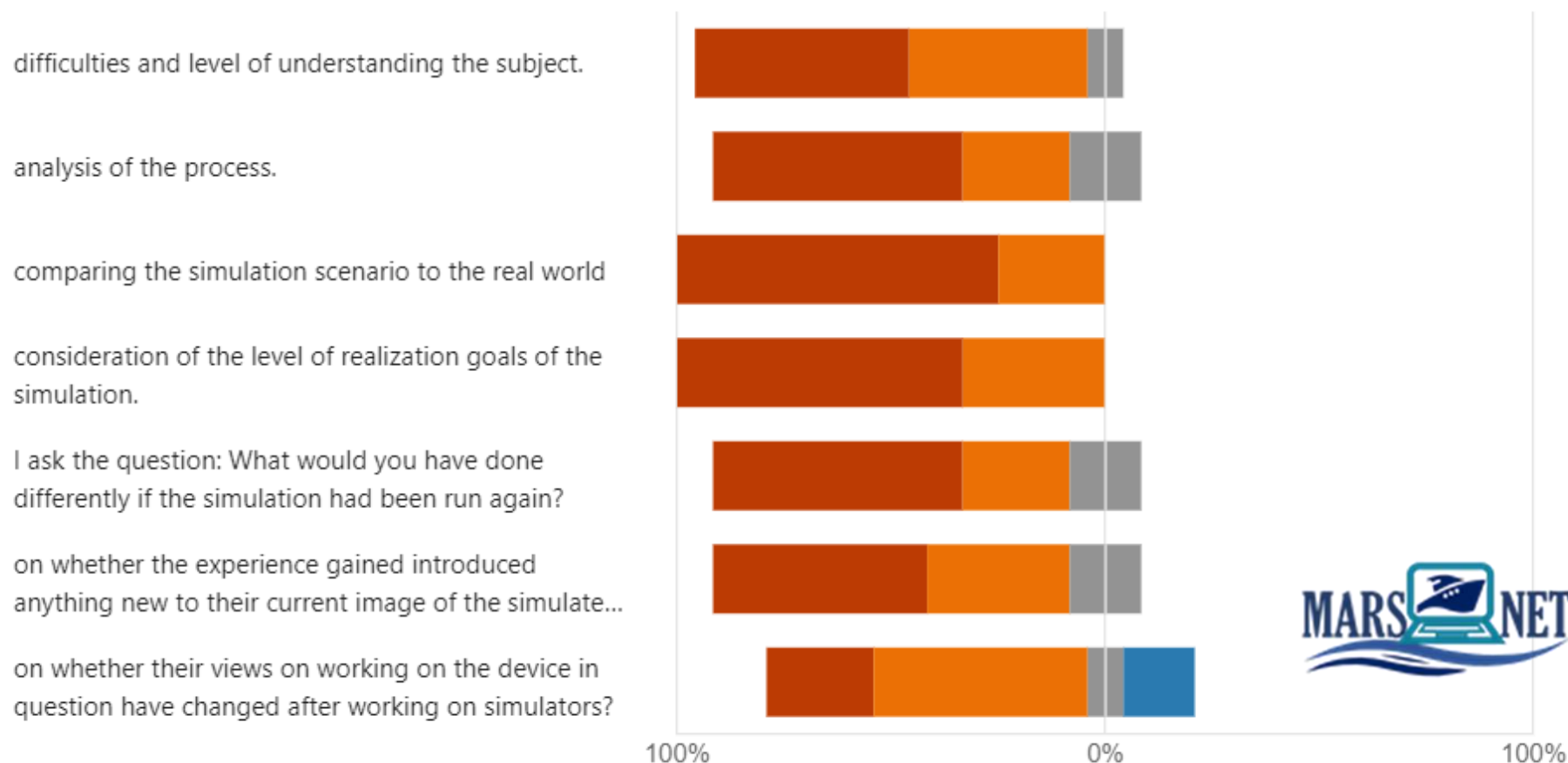


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12. During the summary course, do you most often talk to students about:

■ Yes, very often ■ Yes, sometimes ■ Rarely ■ No, never ■ I do not know



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13. **After carried out a simulation, what is the most often way of summarisation with the students (discussing the simulation process)? (There are multiply answers.)**

● discussion with the whole group...	10
● analysis in groups of students	3
● individual analysis with the stud...	4
● others	0

