### THE 2022 MAGNITUDE: Building Back from the Pandemic

#### 2022 MATE ROV COMPETITION

**REGIONALS**
- 19 Countries
- 287 Teams
- 350 Volunteers
- 2,500 Students and Mentors All-Total

**WORLD**
- 15 Countries
- 854 Students & Mentors All-Total
- 115 Volunteers
- 17 Alumni
- 49 In-Person Teams
- 12 Telepresence Teams
- 12 Telepresence Teams

### STUDENTS ARE MORE INTERESTED IN MATH AND SCIENCE

- 86% wanted to learn more about science, technology, engineering, and math.
- 81% were more interested in a STEM career.

"MATE was the catalyst for me to [pursue] computer engineering in college. I’m so grateful to this competition for everything!"

- 2022 MATE ROV Competition Student Participant

### STUDENTS INCREASED SKILLS AND KNOWLEDGE

- 95% observed improvements in their students’ STEM knowledge and skills.
- 94% saw improvements in team building.
- 82% saw improvements in critical thinking.
- 62% saw improvements in problem solving.

"They have realized: A) failure is just a step to knowledge and improvement (that it’s the journey that matters more than your specific performance at a one-day competition) B) that teaching and mentoring younger/less experienced teams is as fun (more so at times!) than actually doing the work themselves!"

- 2022 MATE ROV Competition Parent

### TEACHERS SAW IMPROVEMENTS IN STUDENT LEARNING

- 98% observed improvements in their students’ STEM knowledge and skills.
- 100% saw improvements in team building, critical thinking, and problem solving.
The MATE ROV Competition uses underwater robots (remotely operated vehicles or ROVs) as a way to get students in grades 4-16 excited about learning science, technology, engineering, and math (STEM). The program also exposes students to STEM career opportunities and helps them to see pathways to those careers.

With the exception of the 2020 alumni survey, all data resulted from an independent evaluation of surveys completed by nearly 600 students, over 100 teachers, and nearly 200 parents who participated in 2022 MATE ROV Competitions. For more information, contact MATE at https://www.materovcompetition.org/contact