

Nasjonalt senter for
REALFAGS KRUTTERING

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Senior adviser



National Centre for STEM Recruitment (NCSR)

- National centre funded by the ministry of education
- Located at the Norwegian University of Science and Technology (NTNU) in Trondheim
- Or main goals are to:
 - Be a driving force in recruiting young people to STEM
 - Provide and spread information and advice, networking and evaluation of activities
 - Contribute to increased diversity in STEM education and working life
 - Facilitate collaboration between educational establishments, government, industries and other relevant actors to strengthen the position of STEM in society



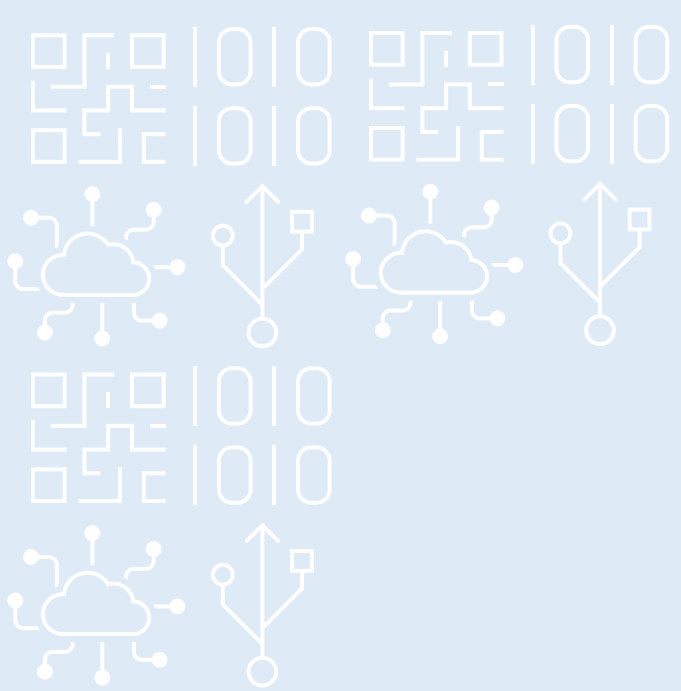
VELGRIKTIG

ROLLEMODELL

ENT3R

GIRLS DAY IN TECH





The ENT3R program

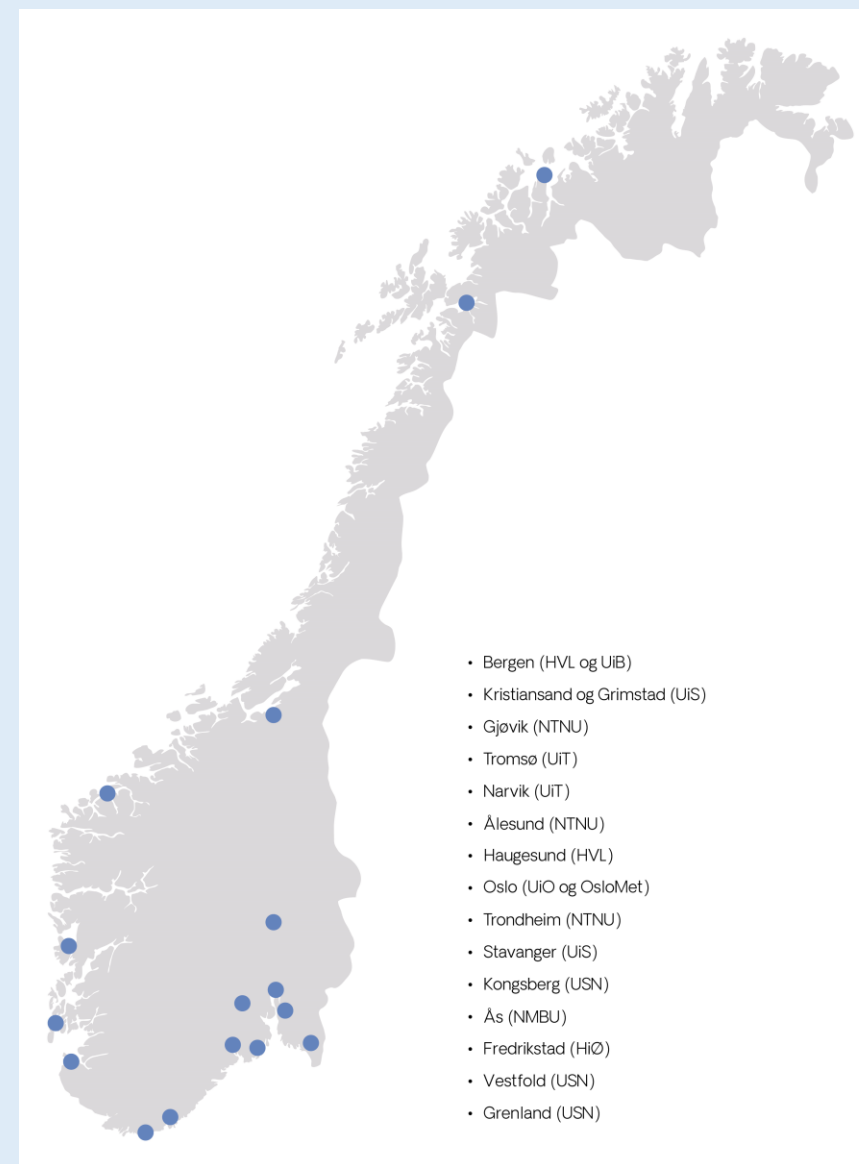


The ENT3R program - background and purpose

- There is an increasing demand for competence within science, technology, engineering and mathematics (STEM) in the Norwegian labour market
- Girls are underrepresented in STEM occupations, especially within engineering and electronics
- Young people struggle to see the relevance of mathematics and STEM subjects
- Gap of interest and motivation
- Low sense of achievement in mathematics brings loss of motivation - in STEM subjects but also other school subjects

The ENT3R program – history and numbers

- Initiated 10 years ago with trial projects in Oslo and Trondheim
- Today it is present at 18 campuses all over Norway
- 350 students and 3000 pupils participating each year
- ENT3R digital (280 pupils)



The ENT3R program - main objective

Main objective: to encourage and inspire youths facing a career choice to consider and pursue education and career within science, technology, engineering and mathematics (STEM)

To achieve this we work for:

- Increased motivation and sense of achievement
- A more positive attitude towards STEM subjects
- Increased career choice capability
- Increased STEM capital



ENT3R – a supplement to classroom teaching

- After school homework help and «STEM training»
 - Organized at the local campuses by students working as mentors
 - Topical lectures, science experiments and demos, quizzes, mathpuzzles, competitions
 - Pitching of different studies and career opportunities
 - Students nights with invited guests

Main message: STEM is relevant for everyone



What makes ENT3R work!

- ENT3R is free
- The mentors are highly skilled STEM students
- Close in age and well educated
- Homework help is given by the same mentors, at the same time, every week
- The pupils are brought into campus
- ENT3R is fun!



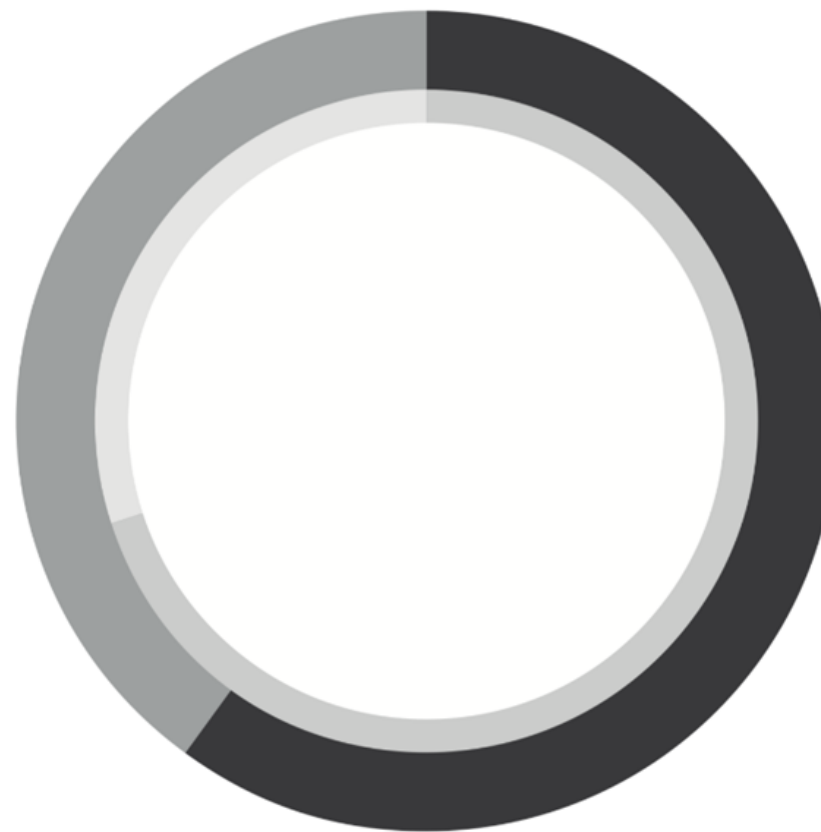
Mentor and project manager training

- All students working for ENT3R are brought together regularly for courses and exchange of experience
- National courses and gatherings
 - new mentors are trained in basic pedagogics and STEM subject didactics
 - biannual meetings for all local project managers
- Courses and skills development events organized by the local project

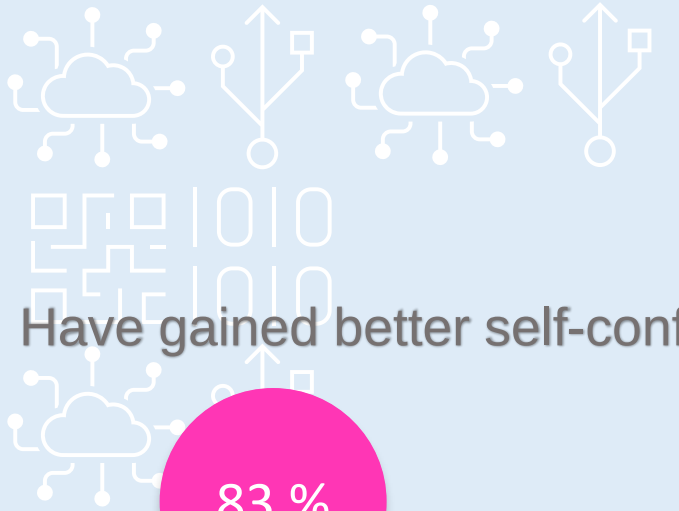


Who attends ENT3R?

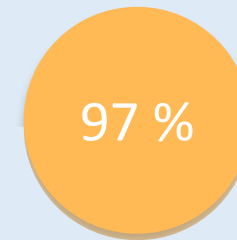
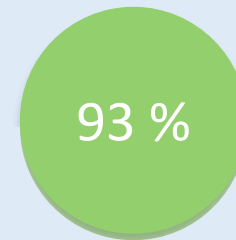
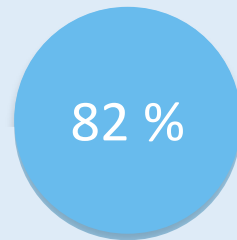
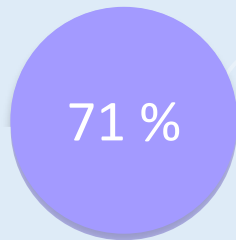
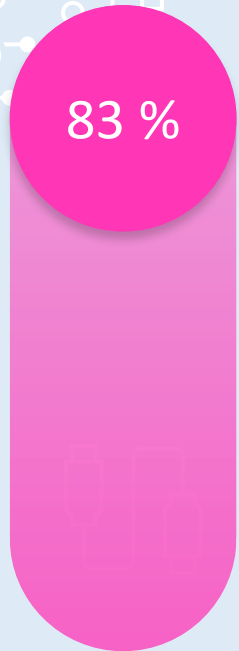
- **60 %**
are high school students
- **40 %**
are junior high pupils
- **70 %**
are girls..
- **30 %**
are boys



PUPILS SURVEY 2022



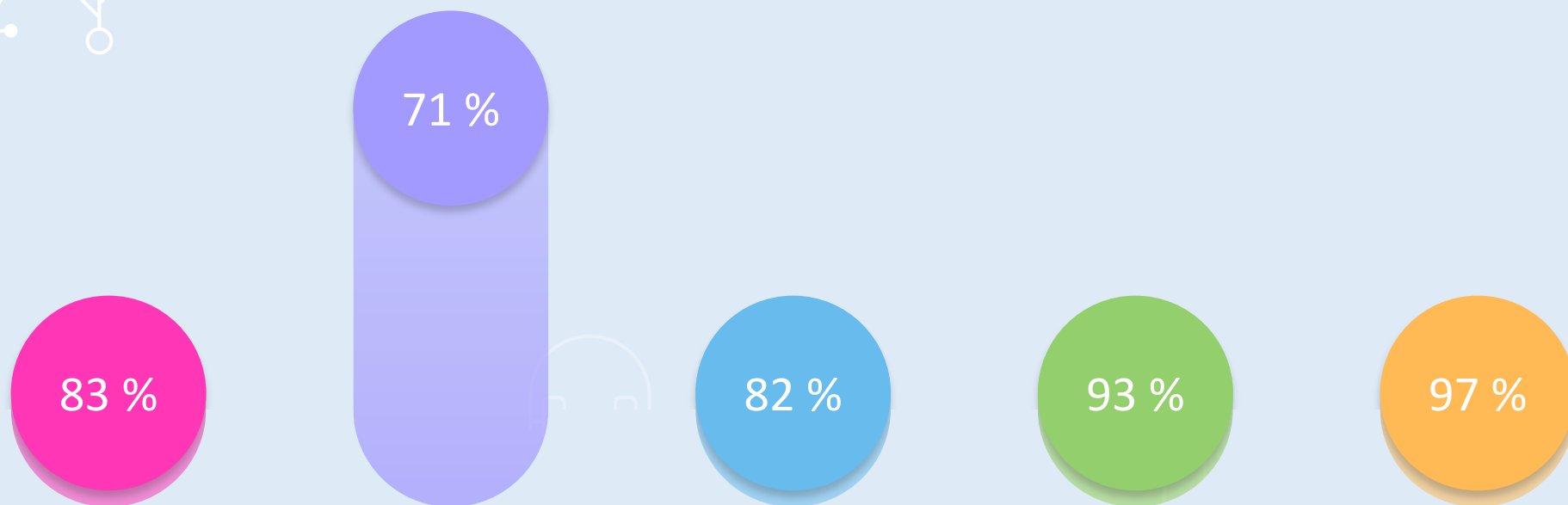
Have gained better self-confidence in mathematics after attending ENT3R



PUPILS SURVEY 2022



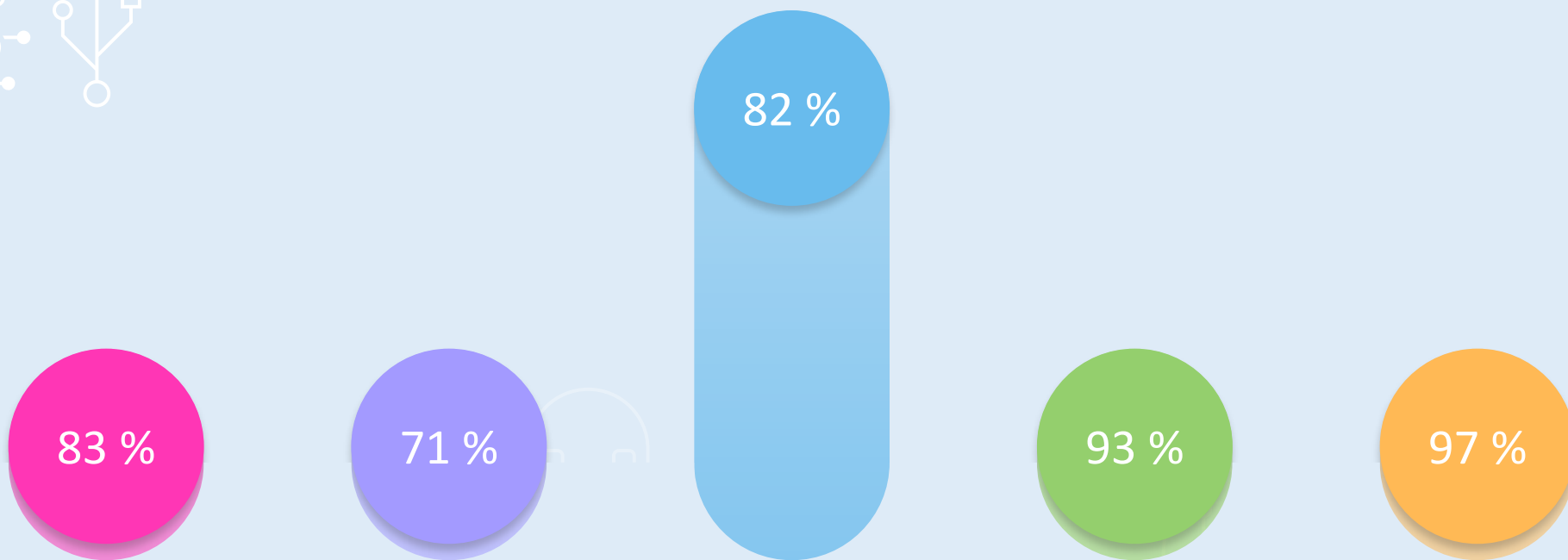
Performs better also in other school subjects by participating in ENT3R



PUPILS SURVEY 2022



Have become more motivated for schoolwork by participating in ENT3R



PUPILS SURVEY 2022



Are satisfied or very satisfied with ENT3R

93 %

83 %

71 %

82 %

97 %



PUPILS SURVEY 2022

Are satisfied or very satisfied with their mentors

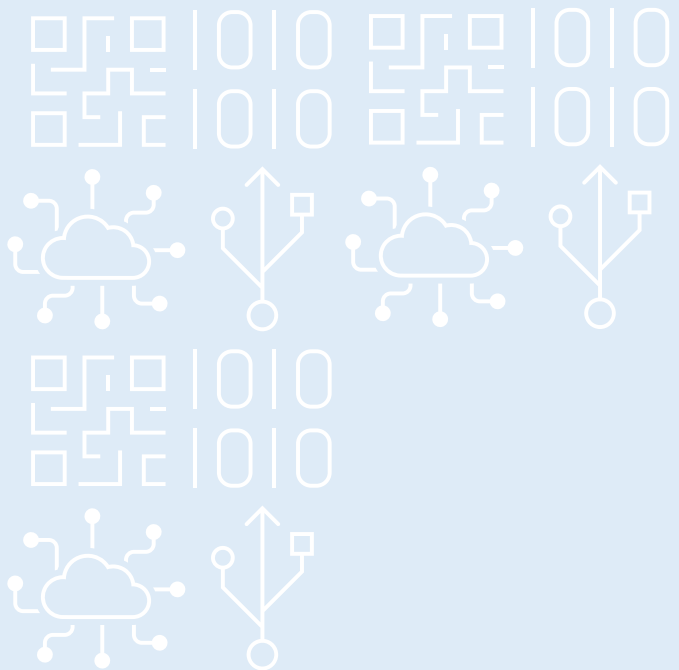
97 %

93 %

82 %

71 %

83 %



PUPILS SURVEY 2022

«I get good help with my maths homework and the mentors have become as friends. The science nights are also great. There are no drawbacks to ENT3R that I can think of»

«The best thing about ENT3R is mentor Ida..and that I get to spend two hours per week devoted to science homework. I work uninterrupted while I am there»

«The best thing about ENT3R is everything. The worst is that it ends early»

«Best: I get help with my maths. Worst: they don't serve watermelon».



Thank you!

ENT3R

