ROBOTIC ACCESS TO EVERYBODY

THE PROJECT

The EU-RATE project wishes to respond to the necessity of increasing young people's interest and success in science, technology, engineering and mathematics, making them actors in their use and promoting innovative methods, through playful robotic teaching kits accessible to all.

The project aims to:
1. make children and young people understand the making of information through action so that they become creative and responsible actors,
2. educate to computer science and raise awareness on algorithmic logic underlying all the tools we use,
3. promote the mainstreaming of digital competence provision across the curricula,
4. foster critical thinking especially through teaching technology and science in line with the priorities of school education,
5. prepare children and young people for robotics challenges, opportunities for learning in many fields (technology, mathematics, logic, English, project management…) and self-improvement,
6. make children and young people, especially girls, want to take an interest in engineering and digital professions.

To reach these ambitious objectives, EU-RATE targets:
- A direct public: primary and secondary school teachers, the educational community at large (educators, parents, youth leaders) And students of 14+ as co-developers of the project (participating in trainings, testing, experimenting, giving feedback).
- An indirect public: young people from 8 to 10 and from 11 to 14 years' old in extracurricular and/or in-school activities.

To this purpose, since october 2020, beginning of the project, the consortium works on building a accessible robotic kit including propositions of hardware, software and learning sequences.
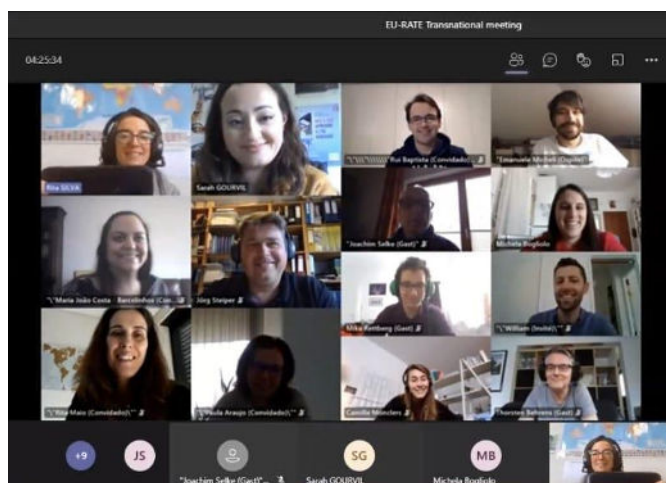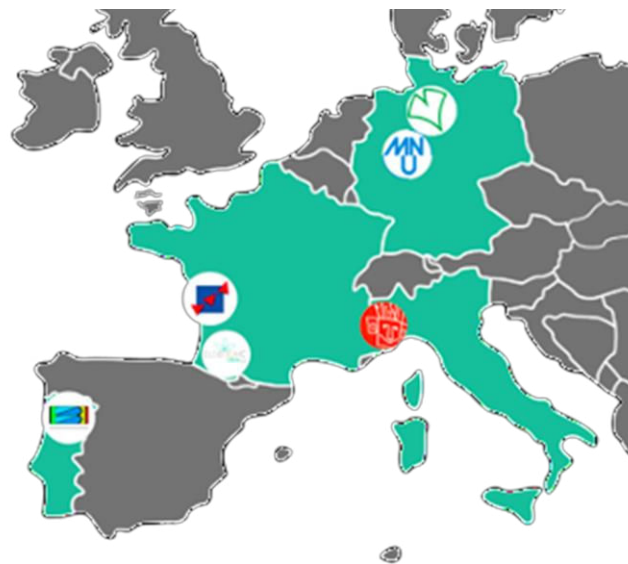
THE CONSORTIUM

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- Gymnasium Langenhoven & Goetheschule
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- Escola Secundária de Barcelinhos
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IN PROGRESS

☑ **Year 1 > October 2020 – September 2021**
- Identification of the skills to be acquired by country and by public (age and specifities of the publics, associated educational objectives)
- Definition of pedagogical constraints (learning sequences, software, hardware)

*Oct. 2020 > Kick-off meeting (France) online
*March 2021> Transnational Partner Meeting – TPM- (Italy) online
*Sept. 2021> Publication version 1 finalised

☐ **Year 2 > October 2021 – September 2022**
- Design of learning sequences and creation of associated teaching formats
- Hardware and software design
- Prototype production
- Production of technical documentation
- Tests, analysis, evaluations, feedback remarks
- 1 Learning teaching training activities with 14+

* Throughout 2021-2022 > TPM

☐ **Year 3 > October 2022 – July 2023**
- Prototype productions
- Tests, analysis, evaluations, feedback remarks
- Production of technical documentation
- Implementation of associated educational formats
- Tests experts

* Throughout 2022-2023 > TPM, LLTA, multiplier events in each member consortium country and final conference in France

DIAGNOSIS OF PRACTICES AND AUDIENCES

This publication summarises the work carried out by the consortium during the first year of the EU-RATE project.
This document wishes to give guidelines for the building of a quality, accessible and open source robotic kit.
This document will evolve throughout the project duration and the feedback of experts and the testing by teachers but also by other educational actors and the children and youth involved.
Therefore, it will be updated as the project progresses.

Download the publication here

SEPTEMBER 2021 TRANSNATIONAL PROJECT MEETING IN PAU (FRANCE)

After a year of online meetings, **the consortium met finally in Pau (France) the 10th and the 11th of September 2021,** for the third transnational project meeting.
This meeting was the opportunity to discuss strategic issues, present the first robots prototypes, communication and dissemination and next steps.

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