## National Breakthrough Project in the Field of Educational Sciences

**Project number:** 10-044-P-0001

**Project grant:** 15 231 660.52 €

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**Project implementer:** Research Council of Lithuania (RCL)

**Project start date:** 1 April 2025

**Project end date:** 1 April 2029

The project "Breakthrough in Educational Research" is being implemented under the 2021–2030 Development Programme of the Ministry of Education, Science and Sport of the Republic of Lithuania, as part of the Education Development Programme's progress measure No. 12-003-03-06-01 "Teachers First". The project is funded by the 2021–2027 European Union funds and the state budget of the Republic of Lithuania.

**Project Objectives:** to foster high-level scientific activity in the field of educational sciences; to participate in international educational and pedagogical research; to improve the quality of educational research and its impact on policy formation; to promote networking among researchers, practitioners, and doctoral students.

The project is being implemented by seven universities: Vilnius University (VU), Vytautas Magnus University (VMU), Kaunas University of Technology (KTU), Mykolas Romeris University (MRU), Vilnius Gediminas Technical University (VILNIUS TECH), Lithuanian University of Health Sciences (LUHS), and Klaipeda University (KU). Collaborative interdisciplinary research groups have been formed, comprising high-level scientists, doctoral students, and practitioners, including teachers.

Vilnius Gediminas Technical University, as part of the project implementation, will conduct an educational research titled "**Sensitive Cognitive Classroom Emphasizing Improving Learners' Academic Performance and Positive Emotions and Reducing Stress and Depression**" **(SEISMOMETER)**, which will contribute to the improvement of education and teacher training.

**Research Objective:** to develop an innovative SEISMOMETER platform to analyse, personalize, and manage the learning space and learning process according to learners' physical and emotional reactions and mood states.

**Research Problem:** how to personalize and manage the multisensory stimuli, learning space and learning process according to learners' physical and emotional reactions and mood states, arousal

and valence in order to increase experience and motivation, and encourage achievement of better academic outcomes.

**Expected results:** During the project, the SEISMOMETER platform will be developed, tested in living labs, and validated in a learning environment. High-level professors from abroad will be invited to participate in the doctoral process. Educational research will be conducted and result in international scientific publications. A doctoral student in the field of education will participate in an international internship. Researchers will engage in activities of the EDEN network, will present results at international conferences, and organize national scientific events.