A sustainable continuous professional development (CPD) framework for Science, Technology, Engineering and Mathematics (STEM) educators is based on the Technological, Pedagogical, Content Knowledge model (TPACK), the principles of train-the-trainer approach and co-creation. This framework was developed in the STEM-CPD@EUni project.

The framework has five elements.

Three dimensions of STEM-CPD

**STEM-teaching Competences**
- develop critical thinking
- engage students, arouse interest for the discipline
- give prompt feedback
- frame the course in the context of study / programme

**Teaching Attitudes**
- inspire a positive attitude in their class.
- be reflective teachers
- use students’ evaluations / feedback to improve courses.
- be interested in their students’ progress.

**Type of CPD Activities**
- attending or giving presentations, work-shops, webinars, conferences, summer schools about teaching and learning in HE, organized specifically for STEM lecturers and more general
- following online courses / MOOC about teaching and learning
- getting peer-feedback on own teaching practice from a colleague
- getting or giving mentoring

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User Case
is a description of a CPD solution for a local teaching and learning challenge, a list of CPD goals, activities and materials, expected impact of the CPD solution on the quality of local educational practice, reflection / evaluation of the experiences, and a plan for possible follow-up.

Scenario
clusters different user cases related to the teaching competences and attitudes developed in the user case and the CPD activities used in learning environments.

Summer School
is a week-long event with the aim of professionalizing CPD Ambassadors in the three dimensions: teaching competences, attitudes and using different types of CPD activities. The final content of each summer school is determined by the needs of the participants.

STEM-CPD Community
is the community of CPD-Ambassadors. It encourages members to continue to share knowledge and experiences and to support each other in their continuous professional development. It gives input to the Summer Schools.