

## Press Release

### Empowering Teachers for Science Learning Through Modelling-Based Approaches

**[City, Date]** – A new Erasmus+ initiative, **EMPOWER**, is set to transform science education across Europe by equipping teachers with innovative tools and strategies for modelling-based learning. This approach, proven effective since the early 2000s, engages students in authentic scientific practices by emphasizing the construction and evaluation of models; hereby, contributing to the development of scientific literacy.

The EMPOWER project brings together leading researchers and educators from Germany, Cyprus, the Netherlands, and Spain to develop a robust framework for integrating modelling into science classrooms. Through collaborative efforts, the project will create modular training programs, digital resources, and multilingual teaching materials to foster inclusive, inquiry-driven learning environments.

#### Key Highlights of EMPOWER

- Development of a scientifically grounded framework for modelling-based learning based on local teacher needs, national curricula, and scientific literature.
- Free online learning modules and teaching resources in Dutch, English, German, Greek, and Spanish to support teachers in incorporating modelling-based learning in their classrooms.
- Year-long collaborations with teachers in the project's national settings to develop, pilot, and revise learning units that teachers throughout Europe can readily use.
- Dissemination of knowledge, teaching strategies, and practices for modelling-based learning through webinars, conferences, and multiplier events, including three modelling festivals in Cyprus, the Netherlands, and Spain, and a Final Conference in Cyprus.
- Focus on teacher professional learning to enhance teacher confidence and competence in modelling-based learning.

#### Expected Impact

EMPOWER aims to:

- **Enhance teacher competence** in modelling-based approaches, fostering their confidence in science teaching.
- **Improve student engagement and understanding** of scientific concepts through inquiry-driven learning.
- **Promote innovation in science education** by integrating authentic scientific practices into classrooms.
- **Support inclusivity and multilingual access**, ensuring resources are available across diverse European contexts.

By supporting teachers' professional learning, EMPOWER contributes to long-term improvements in the quality of science education and student outcomes.

For more information, visit <https://empower-modelling.eu> or the local **[country]** partner at **[email]**