Sparking Innovation in STEM Education: new report

How can technology-supported learning help to move beyond content delivery and truly enhance STEM (science, technology, engineering and mathematics) education so that students develop a broad mix of skills? How can collaboration be encouraged and used to help develop, spread, accelerate and sustain innovation in education?

Sparking Innovation in STEM Education with Technology and Collaboration, by Kiira Kärkkäinen and Stéphan Vincent-Lancrin, answers these questions by using the case study of the HP Catalyst Initiative – an education grant programme by the Hewlett-Packard (HP) Sustainability and Social Innovation team.

The report highlights five, technology-supported, pedagogic models that have the potential to improve students’ learning outcomes, including higher-order thinking skills. It also outlines lessons for policy-makers and other stakeholders willing to promote educational innovation through collaboration, in order to foster knowledge flows, new ideas and peer learning.

Please send us your feedback

- What other innovative technology-enhanced pedagogic models enhance STEM education? What experiences with collaborative networks designed to stimulate innovation in education have taken place in your country?

Other news

- Read our Review of the Italian Strategy for Digital Schools, Art for Art's Sake? The Impact of Arts Education, and find all other CERI Innovation Strategy reports on our website.
- Read Education at a Glance 2013 for the latest OECD education indicators.

CERI's Innovation Strategy for Education and Training

The Innovation Strategy for Education and Training of the OECD Centre of Educational Research and Innovation (CERI) explores new approaches to equip people with innovation skills and to support radical innovation and continuous improvement in education systems. It includes two strands:

- Education and skills for innovation
- Innovation and improvement in education

The project has contributed to the OECD Innovation Strategy (2010), a major policy initiative offering a cross-government approach to help countries capture the economic and social benefits of innovation. It also feeds the OECD Skills Strategy (2012), a peer-learning initiative towards improving the supply of, anticipating the demand for, and optimising the use of skills in the workforce to promote economic growth and social inclusion.

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