

A photograph showing three children in a classroom. Two boys are seated at a desk, looking at a pink sheet of paper. A girl is standing behind them, using a yellow ruler to measure the paper. They are all wearing red school uniforms. A yellow glue bottle is on the desk. In the background, there is a chalkboard with a grid and some text, and other children are visible.

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The future needs knowledge: Experimento in Kenya

Modern offerings for science and technology education

Habari gani, Kenya? How are you, Kenya? The East African country's economic development is highly promising. In particular, cutting-edge fields such as information technology are currently booming. They offer excellent opportunities for the country's youth, who wish to creatively and vigorously shape the future. There is a great amount potential with fine prospects for Kenya to develop successfully.

A vital prerequisite for this is a sound education in science and technology. It is the ticket to successful participation in professional and economic life, a key to individual opportunities in life and social development. Well-trained teachers are therefore the most important resource, since they play a crucial role in shaping the quality of education and the learning successes of young people. However, Kenya lacks teachers – a shortage that hampers individuals in making progress in their education and jeopardizes economic prosperity.

With its international educational program Experimento, Siemens Stiftung is committed to promoting successful training and continuing education for teachers in science and technology subjects in Kenya. We are guided in that mission by internationally agreed goals for sustainable development and help ensure people gain an understanding of scientific and technical inter-connections, can develop as individuals and shape society responsibly.

Real-world science and technology instruction

Helping students discover and understand scientific and technical interrelationships: That is the approach pursued by Siemens Stiftung with its international educational program Experimento. It offers teachers a practical and curriculum-oriented selection of topics in the areas of energy, health and the environment. Some 130 experiments encourage students to grapple with scientific and technical interconnections through their own research and develop values-based conduct.



Educate teachers. Encourage students. Develop the future. Experimento, Siemens Stiftung's international educational program

Experimento factors that promote teaching and learning:

- Practical teacher training seminars
- High-quality teaching materials as OERs*
- Materials and methods that help develop values
- Networking for teachers and STEM opinion makers
- Policy papers, presentations, workshops
- Active collaboration in work groups and studies

* The teaching and learning materials are posted under a free license in Siemens Stiftung's media portal. www.medienportal.siemens-stiftung.org

Commitment to education with an impact

Siemens Stiftung has been working with Experimento in Kenya, mainly in Nairobi and the surrounding area, since 2014. Multipliers are used to roll out and communicate the contents of the program: Local educators who are given training in Experimento's didactic and methodological approaches in special seminars. They pass their knowledge on to teachers from other schools. They are backed by a local project management team that maintains a broad network with contacts in the Kenyan educational community and clears the way for access to ministries.

Using Experimento has an impact on various levels: Teachers offer high-quality teaching in scientific and technical subjects using modern educational methods. Students actively participate in lessons in a motivated manner and responsibly apply what they learn to their own environment. The knowledge and skills they acquire enable them to successfully complete training and continuing education. That means excellent prerequisites for individual opportunities in life and for Kenya as a business location.

Kontakt

Siemens Stiftung

Rebecca Ottmann

Senior Project Manager Education Africa

Phone: +49 9131 9207 9 15

Mobile: +49 174 1559483

rebecca.ottmann@siemens-stiftung.org

As a nonprofit corporate foundation, we promote sustainable social development. Access to basic services, high-quality education, and an understanding of culture are conditions that the foundation strives to achieve. To this effect, our project work supports people in taking the initiative to responsibly address current challenges. Together with partners, we develop and implement solutions and programs to support this effort. Technological and social innovations play a key role in this work. Our actions are impact-oriented and conducted in a transparent manner.