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Prospects and opportunities: Experimento in Nigeria

A modern approach to science and technology education

Nigeria's time is now! The country is facing enormous challenges, but is also embracing chances for stability and development. To achieve this, Nigeria needs realistic vocational training and career perspectives for a predominantly younger demographic. They are Nigeria's most important resource when it comes to a peaceful and prosperous future.

It is therefore paramount to make effective investments in Nigeria's education. Science and technology education is particularly important for the promising jobs of the future, new knowledge, and innovation. It forms a solid foundation for professional training of specialized workers, for economic productivity, and sustainable value creation.

Siemens Stiftung supports increased science and technology education in Nigeria. With our international education program Experimento, we support educators with modern teaching methods and materials, which strengthen a student's grasp of science and technology. In this regard, we are aligned with the UN development goals for sustainable education, helping people develop as individuals and responsibly contribute to shaping society.

Learning tomorrow's knowledge today

Discovering and understanding science and technology: this is the concept behind Siemens Stiftung's international education program Experimento. The program is designed for educators in kindergartens, elementary schools, and secondary schools. Around 130 experiments on energy, the environment, and health convey relevant knowledge on subjects that are central for Nigeria's future development. At the same time, the experiments motivate pupils to come up with their own questions about science and technology, to develop value-based behaviors, and to responsibly transfer what they've learned into their own lives.



Elements of Experimento that promote teaching and learning:

- Praxis-oriented teacher training sessions
- High-quality teaching materials as OER*
- Value-building materials and methods
- Networking for educators and STEM thought leaders
- Position papers, lectures, workshops
- Active participation in working groups and studies

* The teaching and learning materials are available under a free license on the Siemens Stiftung Media Portal. www.medienportal.siemensstiftung.org



Engagement for Nigeria: Forming a foundation, building bridges

In Nigeria, Siemens Stiftung is most operationally active with Experimento in Lagos. To successfully implement the education program, we are working closely with the University of Lagos. In special seminars, enthusiastic members of the university's staff are trained in the didactic and methodical approach of Experimento. As fully-trained Experimento multipliers, these professors and docents pass on their knowledge to teachers, who then pass it along to their students.

Instructors from the Lagos Energy Academy (LEA) also provide teachers with practical and technical knowledge from the field of mechatronics. This creates an important link to practical applications of the subject matter: what students learn about technology is relevant for career development on the technology-focused job market of the future. They gain qualifications that pave the way for individual opportunities in life, participation in society, and career prospects.



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With the international education program Experimento, Siemens Stiftung supports educators with modern teaching methods, which strengthens children's grasp of science and technology.

As a non-profit corporate foundation, we promote sustainable social development, which is crucially dependent on access to basic services, high-quality education, and an understanding of culture. 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, with technological and social innovation playing a central role. Our actions are impact-oriented and conducted in a transparent manner.