Information and Communication Technology Technology (ICT) can be both a lever and a catalyst to improve the quality of education and to enhance the effectiveness of traditional face-to-face training approaches. RTI designs, implements, and evaluates education and training strategies that use ICT. RTI also conducts research and evaluation of ICT in education and training programs in order to apply evidence-based approaches in all areas of practice.

Our team provides focused, practical interventions to help stakeholders across multiple sectors overcome barriers to the delivery of quality education and training.

**ICT for Education**
RTI works with local partners in enhancing teaching practice using ICT; developing, evaluating, and integrating electronic teaching and learning aids; and supporting school, district, and national-level change management for effective ICT integration. Our expert advisors mentor counterparts to develop their ability to use information effectively and to build sustainable, demand-driven education management information systems.

**Project Highlights**
- To facilitate adoption of early learning assessments, specifically early grade reading and early grade mathematics assessments, and enhance efficiency in their implementation, RTI developed Tangerine™, an open source flexible data-collection software utilizing cutting-edge technologies optimized for mobile devices in low-resource environments.
- In Samoa, RTI contributes to enhanced classroom teaching in secondary schools through the use of ICT. The project builds the capacity of the Ministry of Education, Sports and Culture in developing curriculum-integrated and technology-enhanced model learning activities and in designing and conducting school administrator and teacher training that promotes integration of ICT to sustain student learning outcomes.
- In Kenya, RTI is evaluating the effectiveness of different combinations of technologysupported teaching and learning, including eReaders and use of touch-screen tablets for teacher support, using a rigorous, controlled research design.

**Expertise**
- Enhancing teaching practice using ICT
- Developing, evaluating, and integrating electronic teaching and learning aids
- Change management for effective ICT integration
- Local ICT capacity development

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• In Egypt, RTI created an early grade reading package with digital resources and hands-on training. RTI is also helping to improve the quality and sustainability of teacher professional development through the development of digital learning resources and adapting face-to-face training programs into distance mode.

• Through the Study of Technology in Education to Reduce Poverty in Asia and the Pacific project, the RTI team compared indicators of teaching quality and ICT integration that helped define drivers and barriers of effective ICT integration at the teacher, school, and national levels.

• In Bangladesh, Kenya, and Malawi, RTI introduced mobile learning tools and strategies that support instructional improvement through more frequent and timely communication between teachers and teacher trainers or instructional coaches.

• In Indonesia, RTI helped strengthen the National Education Management Information System (EMIS). RTI piloted the use of smart phones for data entry at the school level in the province of Aceh. The approach enabled instant communications and validation of school data to district education offices.

ICT for Training
RTI provides focused, practical interventions to help stakeholders overcome barriers to the delivery of quality adult education and training across multiple sectors, including education, health, local governance, municipal finance, and environmental management. We offer alternative training opportunities that can reach and connect remote and often underserved populations or enhance the effectiveness of traditional face-to-face approaches by applying multimedia in innovative ways.

Project Highlights
• As part of ongoing efforts to strengthen government capacity to lead early grade reading assessment activities, RTI is adapting existing workshop-based training programs for blended or distance delivery using various digital platforms in English, French, and Arabic, with immediate use in Egypt, Iraq, and Mali.

• In Malawi, RTI supported the government’s Open and Distance Learning (ODL) strategy to address the lack of qualified primary school teachers. RTI designed and implemented a web-based (with offline functionality) student support and records management system that allows teacher training colleges to keep track of ODL student enrollment, placement, assignments and scores, and communicate with them using SMS.

• RTI developed and manages an online collaboration space to facilitate communication and collaboration among individuals interested in early grade learning.

• In Morocco, RTI helped the General Directorate of Local Communities at the Ministry of Interior use ICT in diversifying and adapting the content and format of information and materials relevant to local governments to make them more accessible and comprehensive.

• Through the Study of Technology in Education to Reduce Poverty in Asia and the Pacific project, RTI conducted pilot studies in Nepal and Bangladesh designed to seek quantitative and qualitative evidence of the added value that utilization of ICTs, specifically mobile phones and video, for teacher training can have in terms of improved training quality and trainee outcomes, or increased access to training opportunities for rural and disadvantaged populations.

• In several countries in Africa, RTI created a distance learning course designed to permit real-time interaction between participants across Africa.

• In Iraq, RTI helped the Ministry of Health launch a web-based training program for 150 model primary health care centers.

More Information
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