

Information and Communication Technology



For more than two decades, RTI International has helped developing countries achieve their priorities by using information and communication technology (ICT). Our multidisciplinary team works with local partners to develop their own innovative ICT solutions to challenges in health, education, governance, economic growth, agriculture, and the environment.

ICT Overview

RTI has broad international experience developing sustainable, scalable solutions within existing national frameworks. We help countries establish and leverage broad stakeholder partnerships to coordinate and maximize resources. Our sound approach to monitoring and evaluation provides critical information for measuring and communicating project results and impact. Our key strengths include the following:

- Understanding local context and stakeholders
- Nurturing productive stakeholder partnerships
- Encouraging data- and user-driven solutions
- Building rigorous evaluation into ICT programs
- Strengthening local capacity and ownership
- Designing for scale and building for sustainability
- Using open standards and technologies
- Reusing and enhancing existing tools
- Promoting user privacy and data security

In Health

Powerful ICT tools can improve the quality, timeliness, and use of health information at all levels, from point of care to national policy dialogue. Our independent and objective technical assistance helps local and national stakeholders accomplish the following goals:

- Align the use of ICT with health sector priorities
- Focus information system design on demand and use
- Advance from national assessment and planning to coordinated implementation
- Strengthen capacity to implement, support, and use information systems at all levels
- Use open standards and partner with open-source communities, such as DHIS2 and OpenHIE
- Partner with local ICT entities to build local capacity to own, maintain, and support ICT solutions
- Leverage partnerships and local institutions to scale up projects under local ownership
- Measure the potential of mobile health (mHealth) technology and scale up successful mHealth initiatives

Spotlight: ICT in Health

Improving Health Informatics and Data Use in Tanzania

RTI is working with the U.S. Centers for Disease Control and Prevention and the Tanzania Ministry of Health and Social Welfare to improve informatics and data use within the health sector. The RTI team includes University of Washington's Center for Public Health Informatics, the Regenstrief Institute, and the Open Health Information Exchange. RTI co-lead development of the Tanzania National eHealth Strategy, which launched September 30, 2013. We are providing technical assistance for harmonizing indicators, developing the national indicator data set, rolling out the revised HMIS and associated supportive supervision nationally, and integrating systems with DHIS2. We are also developing district health profile templates and guidelines, the data dissemination and use strategy, eHealth enterprise architecture, eHealth strategy, HMIS solutions and ICT systems, and a facility registry system.

Spotlight: ICT in Health

Improving Health Informatics and Data Use in Tanzania



In Education and Training

ICT can be a catalyst to improve the quality of education and enhance the delivery of traditional face-to-face approaches. Our expert advisors help countries achieve the following:

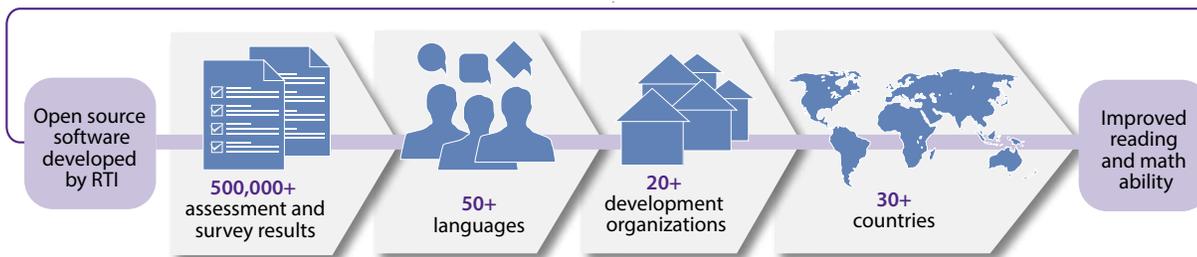
- Enhance teaching practices using ICT to make informed decisions
- Develop, evaluate, and integrate electronic teaching and learning aids
- Support distance learning by using open, low-cost technologies
- Use ICT effectively to facilitate cost-efficient assessments and surveys
- Support change management for effective ICT integration
- Develop local educational technology and IT systems capacity

Spotlight: ICT in Education and Training

Tangerine for Early Grade Reading and Math Assessment

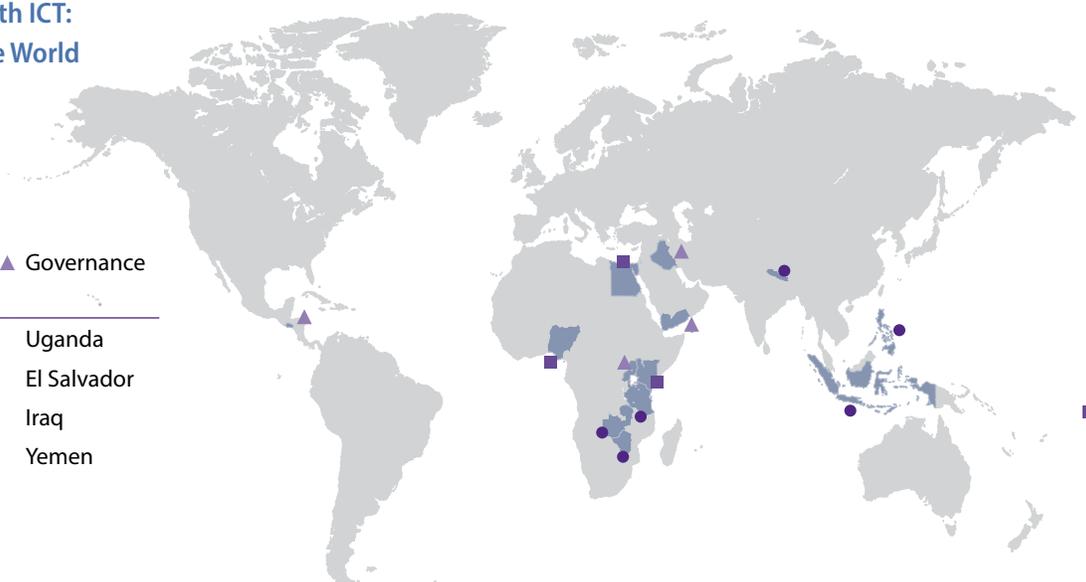
Tangerine® is a mobile application that enables student responses in Early Grade Reading Assessment (EGRA) and Early Grade Math Assessment (EGMA), as well as student, teacher, and principal responses to home and school context interviews, to be recorded and analyzed efficiently using low-cost tablets. Based on the positive results of a randomized controlled trial in Kenya, Google donated enough tablets to enable Kenya's teaching tutors to help improve literacy and numeracy nationwide. RTI also developed Tangerine: Tutor™, a version that incorporates classroom observation forms and rules-based intelligence to support the tutors. Data from classroom observers can now be matched with daily assessments of learning outcomes in literacy and numeracy to fundamentally improve the amount of usable, real-time, country- and county-level data. Tangerine has now been used to collect more than 500,000 observations in 50 languages by 20 development organizations in 30 countries.

Spotlight: ICT in Education and Training Tangerine for Early Grade Reading and Math Assessment



Making a Global Impact with ICT: Recent Projects Around the World

● Health	■ Education and Training	▲ Governance
Tanzania	Kenya	Uganda
Zambia	Nigeria	El Salvador
Zimbabwe	Samoa	Iraq
Indonesia	Egypt	Yemen
Nepal		
Philippines		



In Governance

RTI works collaboratively with governments, civil society, the private sector, and independent media to strengthen democratic governance and service to citizens. We specialize in bringing sectors together to consider how ICT can be used to accomplish the following:

- Help government operate more responsively, effectively, and accountably
- Expand citizen access to information, decision making, and services
- Strengthen the capacity of independent media to serve as watchdogs for good governance and facilitate informed public dialogue, decision making, and action
- Construct open and transparent partnerships to introduce and sustain the use of ICT to advance good governance

Spotlight: ICT in Governance

Mobile Crime Reporting System in El Salvador

In El Salvador, Qualcomm Wireless Reach™ and RTI partnered with the USAID Crime and Violence Prevention Project, the Council of Mayors of the Metropolitan Area of San Salvador, the Office of Planning of the Metropolitan Area of San Salvador, municipal and national police, and Millicom/Tigo El Salvador to develop the Seguridad Inalámbrica (SI). SI is a mobile crime reporting system built on Ushahidi open-source software. It enables law enforcement officers to submit and retrieve incident reports via smart phones, maps the geo-located data, and provides crime observatories unprecedented capability. Combined with free, open-source CrimeStat and QGIS software, this enables near real-time spatial and trend analysis. Police officers in six municipalities have used SI to submit more than 11,700 reports. Municipal crime observatories have analyzed and used these data to help improve crime prevention programs.

Spotlight: ICT in Governance Mobile Crime Reporting System in El Salvador



More Information

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