

ABOUT CLIX

The **Connected Learning Initiative (CLIX)** is a technology enabled initiative at scale for high school students. The initiative was seeded by Tata Trusts, Mumbai and is led by Tata Institute of Social Sciences, Mumbai and Massachusetts Institute of Technology, Cambridge, MA USA. CLIX offers a scalable and sustainable model of open education, to meet the educational needs of students and teachers. The initiative has won UNESCO's prestigious 2017 King Hamad Bin Isa Al-Khalifa Prize, for the Use of Information and Communication Technology (ICT) in the field of Education.

CLIX incorporates thoughtful pedagogical design and leverages contemporary technology and online capabilities. Resources for students are in the areas of Mathematics, Sciences, Communicative English and Digital Literacy, designed to be interactive, foster collaboration and integrate values and 21st century skills. These are being offered to students of government secondary schools in Chhattisgarh, Mizoram, Rajasthan and Telangana in their regional languages and also released as Open Educational Resources (OERs).

Teacher Professional Development is available through professional communities of practice and the blended Post Graduate Certificate in Reflective Teaching with ICT. Through research and collaborations, CLIX seeks to nurture a vibrant ecosystem of partnerships and innovation to improve schooling for underserved communities.

CLIX LEARNING DIMENSIONS

THREE DOMAINS



Maths



Science



English

Integrating values & 21st century life skills

TWO GRADES



VIII



IX

THREE LANGUAGES



Hindi



Telugu



English

DELIVERED THROUGH



Teachers



Devices



CLIX Platform

ACHIEVED THROUGH



Real world projects



Online text, audio & video



Interactive edu tech apps



Hands-on activities & labs



Discussion & community-building

CLIX PARTNERSHIPS

Tata Trusts initiated the idea of building and implementing at scale, a technology enabled learning intervention for the Indian rural high school students. The Trusts' then invited MIT and TISS to build and design this programme in partnership with a wide ranging group of organisations that brought in rich and varied experiences towards implementing this unique initiative.

SEEDED BY

- Tata Trusts

LED BY

- Tata Institute of Social Sciences
- Massachusetts Institute of Technology

GOVERNMENT PARTNERS

- Govt of Chhattisgarh
- Govt of Mizoram
- Govt of Rajasthan
- Govt of Telangana

DEVELOPMENT AND IMPLEMENTATION PARTNERS

- Centre for Education Research & Practice, Jaipur
- Department of Education, Mizoram University, Aizawl
- Eklavya, Bhopal
- Homi Bhabha Centre for Science Education, TIFR, Mumbai
- National Institute of Advanced Studies, Bengaluru
- State Council of Educational Research and Training (SCERT) of Telangana, Hyderabad
- Tata Class Edge, Mumbai
- Inter - University Centre for Astronomy and Astrophysics, Pune
- State Council of Educational Research and Training (SCERT) of Chattisgarh

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CONNECTED LEARNING INITIATIVE

www.clix.tiss.edu

An initiative seeded by

TATA TRUSTS



Led by

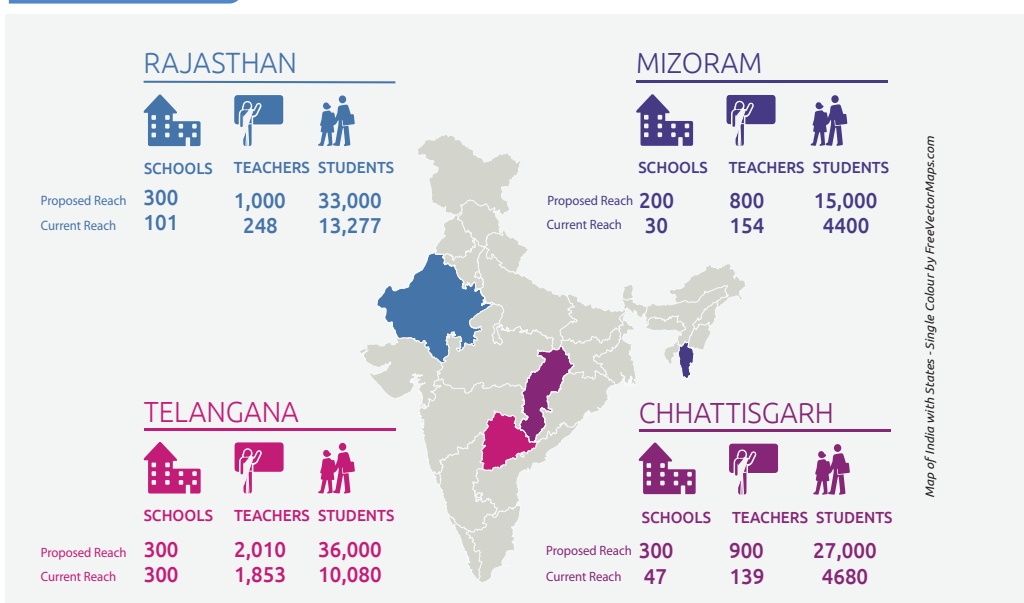


Winner of the 2017 UNESCO -
King Hamad Bin Isa Al-Khalifa prize for **Use of ICTs in Education**

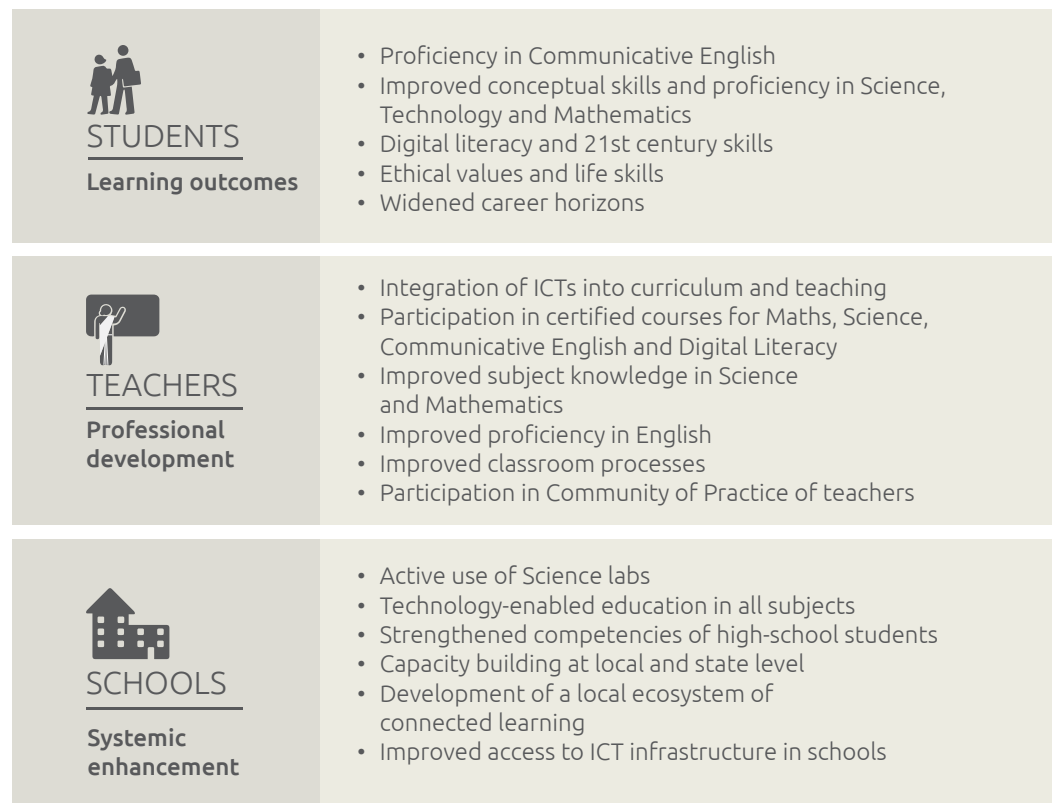
IMPLEMENTATION AT SCALE



CLix LOCATIONS



THE IMPACT OF CLix



CLix RESEARCH

Research is an integral component of CLix, integrated into the multiple streams of ongoing activities. While it looks at impact, it also seeks to find answers to questions about student learning, curriculum development, teacher professional development, how innovations can become sustainable and how technology can create impact on scale. The following studies are being conducted at CLix:

- Chhattisgarh, Mizoram, Rajasthan and Telangana: Baseline study and impact evaluation :
- Innovation Diffusion Process: A case study of Connected Learning Initiative
- Impact of technology enabled language learning in English Fluency, Listening and speaking skills through a technology enabled language learning programme facilitates fluency in English
- Self-reflexivity, peer learning & autonomy promoted in a technology-enabled language learning.
- Teacher motivation and attitudes towards technology - enabled learning
- Split classes in large student sized schools: A case study of two schools in Dhantari
- Students' Geometric Reasoning: A comparison of blended versus non-blended pedagogies
- Status of Science labs and their utilization in CLix schools
- Communities of Practice in Teacher Professional Development : formation, sustenance and best practices

CLix OFFERINGS

STUDENTS

Invitation to CLix
Designed to give an experience of connected and digital learning

- Introduction and Indic typing
- Analyzing with Spreadsheets
- Drawing with Inkscape
- Organising with Mindmaps

Communicative English
Learning listening and speaking skills through computer assisted and hands-on tasks based on communicative language pedagogy.

- English Beginner: 11 weeks, 22 periods
- English Elementary: 11 weeks, 22 periods

Mathematics
Simulations and games to facilitate mathematical thinking and communication.

- Geometric Reasoning 1: 3 weeks, 12 periods in 8th grade
- Geometric Reasoning 2: 3 weeks, 12 periods in 9th grade
- Proportional Reasoning: 3 weeks, 12 periods
- Linear Equations: 3 weeks, 12 periods

Science
Collaborative activities built around digital tools and hands-on experimentation to learn biology, chemistry and physics.

- Motion: 5 weeks, 20 periods
- Sound: 4 weeks, 16 periods
- Astronomy: 3 weeks, 12 periods
- Atomic Structure: 4 weeks, 16 periods
- Health and Disease: 4 weeks, 16 periods
- Ecosystem: 2.5 weeks, 10 periods

Value Education & Life Skills
(Under Development)

- Story based approach introduces students to key personal, social and professional values.
- Value education embedded into the curriculum and pedagogy of teaching values

TEACHERS

The Postgraduate Certificate (PGC) - Reflective Teaching in ICT (RTICT) - is designed as an in-service programme for teachers in the elementary (upper primary) and secondary school levels. This is a modular table for the credit-based programme.

	Course	Credits
Specialisation course (Any one)	ICT in Education	4
	English Language Teaching	4
	Reflective Mathematics Teaching	4
Elective course	Interactive Science Teaching	4
	Action Research/ Digital Portfolio	3
	Values Development in Adolescents	2
	Media in the Classroom	2
	Hands-on learning through toy-making	2
Total		17

The blended programme is practice-based. Teachers will learn through face-to-face workshops, online courses, mobile-based Communities of Practice, and implementation of student modules.

CLix PEDAGOGIC PILLARS

