



Qualcomm 21st Century Classroom

Using Mobile Technologies to Modernize Education and Alleviate Poverty in China

To meet the priorities of the Chinese government's national "Three Connections, Two Platforms" plan, the Qualcomm 21st Century Classroom program is a collaboration with China Children and Teenagers' Fund (CCTF). A mobile broadband-based learning program, the Qualcomm 21st Century Classroom supports the Chinese government's use of information and communications technologies (ICT) to modernize education and reduce poverty. Mobile technology has fundamentally changed access to educational materials and this collaboration enables even greater opportunities to enrich teaching and learning, and address learning disparities by decreasing the digital divide.

CHINA

2021 Statistics*

Population (2021 est.)

 **1.39 billion**

Life Expectancy (2021 est.)

 **76.3 years**

GDP Per Capita (2019 est.)

 **US\$16,117**

Mobile Penetration (2019 est.)

 **120.3%**

Challenge

- In China, there are more than 40 million children living in impoverished areas. The development levels of these children, particularly in health and education, are far behind average.¹
- Leveraging ICT to modernize education is a clearly stated policy priority of the Chinese government. In 2016, the Ministry of Education released the *13th Five Year Plan for Informatizing Education (2016-2020)*. In 2012, the Ministry of Education released the *Ten-Year Development Plan of Informatizing Education (2011-2020)*. During the same year, the State Council launched the "Three Connections, Two Platforms" national education development initiative.

Solution

- The program developed a cutting-edge, 21st century learning environment in selected classrooms in Guang'An District, Yilong County of Sichuan Province, Quannan County, Yudu County of Jiangxi Province and Tongjiang County of Heilongjiang Province. These 18 schools are located in five government-designated, poverty-stricken areas.
- All classrooms in participating schools are provided with broadband Internet connectivity and electronic smartboards.
- Over 1,100 teachers and students have received Qualcomm® Snapdragon™ enabled tablets or laptops to learn ICT skills, access state-of-the-art digital educational materials and better communicate with one another.
- All smartboards and mobile tablets are linked directly to a customized resource platform where diverse digital education

content can easily be downloaded and uploaded through the wireless broadband network. Smartboards and tablets are also linked to a classroom management system that allows teachers to access courseware, prepare classes, assign homework, prepare tests and track scores. The classroom management system also allows the students in pilot classes to review class videos, access reference books, communicate with classmates and teachers, and prepare for tests.

- Through augmented broadband capacity and an on-campus wireless network, participating teachers and students can also access the Internet and digital education resources at any time.
- Teachers were trained on how to use the new mobile devices to build curriculum, use digital platforms, work with digital content and leverage advances in individualized learning to improve student and teaching outcomes Impact.

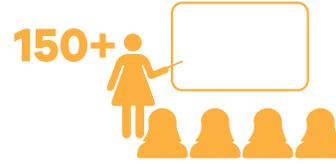
*Sources: CIA World Factbook (<https://www.cia.gov/the-world-factbook/>)

Impact



Over 12,000 Students and Teachers

Since the program implementation began in late 2015, more than 900 teachers and over 12,500 students age 7 to 15 have benefited.



Over 150 Hours of Training

Teachers have received a total of 168 hours of instructor-led trainings. 80% of teachers who participated in the trainings report their teaching skills and ICT knowledge have improved since the program began.



Materials Delivered Online

Over 500 teaching materials have been created and shared on the online platform.



Results Create New Partnerships

Based upon the program results achieved in the Sichuan Province, Qualcomm Wireless Reach collaborated with CCTF to expand the program into the Jiangxi and Heilongjiang provinces.

Program Stakeholders



¹State Council, 2014-2020 Development Plan for Children in Impoverished Areas. http://www.gov.cn/zhengce/content/2015-01/15/content_9398.htm

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