



# CloudPlay for Education

## Helping Tainan City Government Achieve 4G Smart City Objectives and Enhance Its Educational Environment

Smart cities are spreading across Taiwan, fueled by the Ministry of Economic Affairs' 4G Smart City Initiative. Tainan, the cultural capital of Taiwan, with help from Far EasTone (FET), participates in the national government's 4G smart cities plan. In collaboration with the Tainan City Government, FET, ASUS Technology Inc. and the Industrial Technology Research Institute, the "CloudPlay for Education" (CloudPlay) program was created to provide a 4G mobile learning (mLearning) platform for outdoor education to elementary and middle school students and teachers across Tainan. The overall goal of this program is to help Tainan achieve its 4G Smart Cities and outdoor education policy objectives.

### TAIWAN

#### 2018 Statistics\*

Population (2017 est.)



Life Expectancy



GDP Per Capita (2017 est.)



Mobile Penetration



### Challenge

- Research shows that children today spend an unprecedented amount of time indoors. As a result, they lack the physical fitness, concentration and social skills of previous generations. Some findings conclude that too much time indoors is directly correlated with decreased academic performance.<sup>1</sup>
- The Tainan Education Bureau aims to promote digital education via 4G-enabled services throughout Tainan to improve learning resources and pedagogy, especially curriculum for outdoor learning.
- The lack of mobile broadband connectivity creates a challenge to provide schools with effective and engaging mLearning tools.

### Solution

- The innovative solution integrates FET's CloudPlay mobile application into digital education curriculum, especially for field trips and outdoor education.
- 650 4G-enabled tablets pre-loaded with FET's CloudPlay mobile application for outdoor learning experiences are being provided to students and teachers at elementary and middle schools across Tainan, where broadband connectivity is poor.
- CloudPlay infuses course content with multimedia, social messaging and real-time positioning to engage students and promote creative thinking and problem solving
- Teachers use CloudPlay for numerous tasks, from creating coursework and planning field trips to forming social messaging groups and managing videos.
- They also webcast select student activities in real-time for parents to enjoy and enable GPS monitoring to ensure students' safety while outside.
- Teacher training on effective integration of mobile devices and applications in and outside the classroom is a key component of this program.

\*Sources: CIA World Factbook (<https://www.cia.gov/library/publications/the-world-factbook/>); Mobile penetration data provided by Ovum World Cellular Information Service and based on market intelligence.

## Technology

- FET's "CloudPlay for Education" mobile application
- 4G-enabled ASUS ZenPad tablets, powered by the Qualcomm® Snapdragon 615 mobile platform and pre-loaded with CloudPlay
- 4G network connectivity and data plans provided by FET

## Impact



### 20 New Schools from 2016 to 2017

In fall 2016, the program expanded to 11 more schools in Tainan, improving the educational experiences of more than 3,000 additional students and providing teacher training to over



### Digital Inclusion

By prioritizing underserved communities, the program supports digital inclusion for students who don't have full access to technology and the Internet at home. Research shows that a mobile learning environment helps underserved students catch up to their peers who already had access at home.



### Over 223,000 Visits to Date

Teachers have created 270 unique courses, bringing the CloudPlay platform over 223,000 visits from students, teachers and parents.

## Program Stakeholders



<sup>1</sup>Coyle, K. "Back to School: Back Outside! How Outdoor Education and Outdoor School Time Create High Performance Students". National Wildlife Federation. September 2010. <https://www.nwf.org/pdf/Be%20Out%20There/Back%20to%20School%20full%20report.pdf>

September 28, 2018

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