



# Digital Education Project

## Innovating Digital Education Services for Students

In collaboration with the Digital Textbook Association, the Digital Education Project is providing an innovative digital education service with 4G tablet PCs to first grade students at Saetbyeol Middle School (in a metropolitan area near Seoul) and Nongong Middle School (in a remote area near Daegu, South Korea). The project represents an exemplar model for digital education, instructional strategies, and future learning platforms in South Korea. It is aligned with the South Korean Government's "SMART" digital education initiative, which recognizes the correlation between educational progress and technology development, and recommends the integration of these tools into the educational field. The project also offers interactive learning environments that help students enhance self-directed learning ability.

## SOUTH KOREA

### 2018 Statistics\*

Population (2017 est.)  **51.2 million**

Life Expectancy (2017 est.)  **82.5 years**

GDP Per Capita (2017 est.)  **US\$39,400**

Mobile Penetration  **115.3%**

## Challenge

- Educational environments in Korea are relatively advanced, yet students in the remote or low-income areas rarely receive the benefits of rapidly-evolving digital technologies.
- Teachers are often willing to learn how to implement mobile in teaching and learning, but need full professional development support.
- Students need to understand how to take advantage of the wireless devices in order to develop self-directed learning habits.
- Parents can sometimes have a negative perception of the use of digital devices in education.

## Solution

- 172 students and 28 teachers were provided with Samsung Galaxy 8.9 & 10.1 tablets powered by the Qualcomm® Snapdragon™ mobile platform and 24/7 access to 4G/LTE..
- Establishment of environments where students can enhance their self-directed learning ability and facilitate the teachers' use of digital resources in education.
- Collaboration with teachers on lesson plans, instructional methods, professional development tools and digital learning materials for active digital-based innovative education.

\*Sources: \*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.

## Impact



### Increased Device Usage

There were marked increases in teachers', students', and parents' confidence in using the devices. Teachers increased the amount of time spent on the devices for educational purposes from 75 minutes a day to 145 minutes a day. Teachers expressed confidence that tablet usage motivated students to study.



### Greater Student Engagement

Students became comfortable using the wireless devices for learning, increasing usage from 30 minutes each day to 125 minutes each day outside of school. They were also observed to be more engaged in class participation in school. Students' self-directed learning ability increased significantly and they were excited to be able to learn at their own pace, both in



### Increased Parent Approval of Tech for Education

Parents have become more open to using and supporting technology for learning and positive attitudes towards wireless devices for education have increased from 63% to 74%.

## Program Stakeholders



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