

Reimagining School IT Infrastructure to Enable Smarter Teaching and Learning



School At A Glance

Hsinchu County ShengLi Junior High School faced ongoing challenges in managing over 350 government-funded devices. Limited budgets for device renewal and management, combined with an overburdened IT team handling maintenance and updates, made it difficult to sustain reliable operations that effectively support teaching and learning. The school leadership was seeking a cost-effective and manageable digital solution that empower teachers' and students' outcomes

Challenge

The primary hurdle was the significant administrative and IT burden required to keep the school's existing hardware operational. Leadership needed to reduce these management barriers while simultaneously finding ways to transition from traditional, passive lecturing to a more dynamic, student-centered classroom environment.

Solution

Project Albus was initiated in March 2026 to address both infrastructure and pedagogical challenges through a structured approach. The pilot deployed ChromeOS Flex on existing student devices alongside Chromebooks for teachers, creating a unified, cloud-based environment.

This was enhanced with Google Workspace for Education (GWF) and AI tools like Gemini and NotebookLM to streamline administrative tasks and support personalized instruction.

To ensure effective adoption, teachers participated in 40 hours of professional development delivered by SYDT, focusing on practical classroom integration of these tools. In parallel, academic research led by National Yang Ming Chiao Tung University (NYCU) provided ongoing evaluation and insights, ensuring the pilot remained evidence-based and aligned with educational outcomes.

Together, this integrated approach combined technology, training, and research to drive sustainable transformation in teaching and learning.



"In a traditional class, I lecture, and students listen passively. With Chromebooks and AI, the dynamic shifts. Students consume the content at their own pace"

– Language Teacher, ShengLi Junior High School



Key Benefits

The pilot delivered strong impact across teaching and learning. Teachers reported improved student performance, while students became more autonomous with greater access to learning materials and opportunities for collaboration. At the same time, the adoption of ChromeOS Flex and GWfE tools reduced IT management burdens and drove high levels of technology integration. Teachers also achieved significant time savings, allowing them to focus more on personalized support and high-value teaching activities.



Enhanced Student Performance

The application of technology allowed teachers to transition from traditional lecturing to student-centered teaching. This shift resulted in a 100% engagement rate, teachers also saw students' improvement in grasping complex concepts, leading to notable improvement in overall academic performance.



Empowering Independent Learning

With the introduction of ChromeOS Flex devices and GWfE tools, students became more autonomous in their learning through easy access to materials and assignments, while also benefiting from increased opportunities for peer learning and collaboration.



Strong Adoption of Technology

While professional training boosted teacher technology integration into daily instruction. As a result, 100% saw the benefits of technology and 62% consider Chromebooks to be suitable devices for learning. The introduction ChromeOS Flex and GWfE also significantly reduced IT help-desk burdens, creating an ideal environment for technology adoption.



Productivity Boost for Teachers

By leveraging AI-powered tools such as NotebookLM and Gemini, teachers automated labor-intensive tasks like quiz generation and lesson planning, saving an average of 5.5 hours per week. This allowed them to focus more on personalized feedback, one-on-one student support, and developing creative, localized lesson plans.



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