FROM KOREA TO LAC:
MAPPING SOUTH KOREAN EDTECH SOLUTIONS FOR AI AND DIGITAL TRANSFORMATION IN EDUCATION

Inter-American
Development Bank
Education Division

June 2026

Jiyeon Yi
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IDB

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Acknowledgement

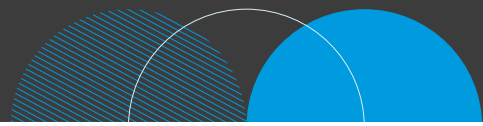
The authors would like to express their sincere appreciation to the experts and EdTech stakeholders interviewed for their valuable insights and contributions to this report, including Jaedong Kim and Soyoung Kim (Indischool), Sangeun Lee (LecoS), Jeongeun Park (KERIS), Seonok Lim (Techville Education), Hyunsik Moon (EBS), Ayoung Kim and Myunghyun Ko (Chunjae Education), Chelsea Jang and Teo Lee (CT), Hyunju Kim and Anna Koh (Enuma), Chanyong Park and Youngwoo Choi (iHateFlyingBugs), Daewon Ki, Uiseok Jeong, and Jonghee Hwang (i-Scream Media), Paul Rho, Haigyoo Lee, Yuri Bae, and Hyewon Kim (Visang Education), Geummo Kang and Bareun Kim (Freewheelin), Seongchan Noh and Soo Ahn (KOSAC), Jooho Kim and Sol Kim (Elice), Sangbin Lim and Daewoo Shin (Roborisen), Kyungchan Park and Hyojin Chae (Neopia), Tai-Myoung Chung and Joon-Hui Lee (Hippo T&C), Jaewon Park and Jeongyeop Choi (Seoul Education Research & Information Institute), and Eunyoung Kim (KEDI). They also extend their gratitude to Hyojin Lee (Korea University), Hyunjin Kim (Korea National University of Education), Yoojean Park and Yejin Cho (KEFA), and Benjamin Riley (Daegu Gyeongbuk Institute of Science and Technology) for their significant support throughout the solution selection process and the preparation of this report. Finally, the authors gratefully acknowledge the financial support provided by the Korea Trust Fund for the implementation of this project.

Table of Contents

Executive Summary

MAPPING SOUTH KOREAN EDTECH SOLUTIONS FOR AI AND DIGITAL TRANSFORMATION IN EDUCATION

Executive Summary



Education systems across Latin America and the Caribbean (LAC) have made significant investments in digital technologies over the past decade. Yet these investments have not consistently translated into improved learning outcomes. Foundational learning gaps persist, teacher workload remains high, and fragmentation across platforms, devices, and governance arrangements continues to limit system-wide impact. The policy challenge is no longer whether to pursue digital transformation, but how to deploy digital solutions coherently and sustainably within education systems.

Over the past two decades, cooperation between the Inter American Development Bank (IDB) and the Republic of Korea has supported policy dialogue, analytical work, and technical cooperation focused on digital education systems, teacher capacity, and innovation. As this collaboration has evolved, South Korean EdTech solutions – encompassing both public digital education services and a private sector innovation – have emerged as increasingly relevant partners for addressing shared digital transformation priorities.

Developed under the IDB Technical Cooperation ***From Korea to LAC: Promoting Sustainable Digital Transformation in Education (RG-T4578)***, this report presents a curated catalogue of 40 South Korean EdTech solutions relevant to digital transformation priorities in LAC. Each profile outlines the solution's core functions, implementation considerations, and potential application within education systems. The catalogue is designed as a practical reference to support dialogue, pilot design, and solution selection for digital education initiatives in LAC.

The analysis is structured around the IDB's Digital Transformation in Education (DTE) Framework, which identifies five enabling conditions for digital reform: (i) digital devices, (ii) meaningful connectivity, (iii) teachers' digital and pedagogical competencies, (iv) digital resources, platforms, and content, and (v) governance. Mapping solutions against these dimensions highlights how technologies can support broader system priorities rather than operate as standalone interventions.

The final portfolio was selected through a structured screening and expert review process from an initial landscape of approximately 300 South Korean solutions. Assessment criteria included educational effectiveness, scalability, institutional compatibility, implementation requirements, and cost considerations.

Five cross-cutting insights emerge from the analysis with implications for LAC digital education strategies:

- **System coherence matters more than technology choice.** Digital transformation delivers results when governance, financing, and implementation are aligned across the system, reducing fragmentation and duplication.
- **Teachers are the central transmission channel.** Investments in technology are only effective when embedded in sustained, structured teacher professional development and classroom practice.
- **Platforms must support engagement and feedback.** Effective digital learning solutions prioritize formative assessment, learning analytics, and sustained learner engagement rather than content delivery alone.
- **Human-centered design is essential.** Trust, equity, accessibility, and AI literacy must be integrated into system architecture to ensure responsible and inclusive use of technology.
- **Data governance is a strategic asset.** Learning data requires clear rules for ownership, interoperability, and accountability to preserve educational sovereignty and long-term system flexibility.

Based on these findings, the report proposes a three-step cooperation roadmap for engaging with international EdTech solutions: (i) strategic matchmaking between system priorities and institutionally viable solutions; (ii) targeted proof-of-concept pilots; and (iii) institutional embedding through alignment with EMIS, teacher development pathways, and multi-year financing.

Ultimately, digital transformation in education is not defined by technology alone, but by how effectively systems align investments, institutions, and people around learning. Across LAC, countries are already demonstrating strong commitment and momentum in advancing this agenda, albeit from different starting points and with different priorities. By combining regional experience with international knowledge and innovation, there is a significant opportunity to accelerate progress toward more equitable, resilient, and effective education systems. This report aims to support policymakers and development partners in that effort by providing practical insights and evidence-informed pathways for leveraging digital solutions as part of broader system transformation.

1

Strategic Foundations for Educational Innovation

MAPPING SOUTH KOREAN EDTECH SOLUTIONS FOR AI AND DIGITAL TRANSFORMATION IN EDUCATION

1. Strategic Foundations for Educational Innovation

1.1 Introduction

Education systems across Latin America and the Caribbean (LAC) continue to face persistent challenges in achieving equitable and high-quality learning outcomes. Despite sustained policy reform and increasing integration of digital technologies into classrooms, improvements in foundational learning have remained uneven. Structural constraints – including disparities in infrastructure, limited alignment across digital initiatives, high teacher workload, and weak data integration – have constrained the system level impact of digital investments.

Recent evidence suggests that important gaps remain in the enabling dimensions required to realize the full benefits of digital investments. While internet connectivity in schools continues to expand, wide disparities persist: on average, 72% of students in the region attend a school with internet access, but this ranges from 83% in urban areas to only 43% in rural areas (Arias Ortiz et al., 2026), and even where connections exist, they often do not extend to the classrooms where teaching and learning take place (Arias Ortiz et al., 2024). As a result, an estimated 29 million children and adolescents remain disconnected from digital learning opportunities (Prado de Almeida et al., 2026). Infrastructure constraints also persist beyond connectivity. In some countries, up to 38% of schools still lack basic ICT equipment (Prado de Almeida et al., 2026) limiting the effective integration of technology into educational processes. These disparities, combined with uneven implementation capacities, continue to constrain the system-level impact of digital investments.

Human capacity represents an equally significant challenge. Across six countries participating in the EdTech Guide initiative, only 27% of teachers reached the minimum level of digital proficiency required to integrate technology effectively into classroom practice (Della Nina Gambi et al., 2025). Moreover, in Chile, Ecuador, Mexico, and Peru, 46% of teachers performed below the minimum threshold (Prado de Almeida et al., 2026). These findings highlight that digital transformation is not solely a question of infrastructure or access. Rather, it requires strengthening the human, institutional, and governance capacities necessary to translate technology investments into improved teaching and learning outcomes.

The COVID-19 pandemic further exposed these challenges. While emergency remote learning accelerated the adoption of digital tools, it also highlighted gaps in connectivity, platform interoperability, teacher preparedness, and governance arrangements. As a result, many education systems now face a dual challenge: consolidating digital gains made under crisis conditions while transitioning toward sustainable, institutionally coherent digital education models (Arias Ortiz et al., 2024).

In this context, digital transformation in education is no longer primarily a question of access to technology. Rather, it is a question of system design – how digital tools, human capacity, and governance structures are aligned to support learning and teaching at scale. The role of EdTech, in particular, is evolving as education systems increasingly focus on how specific public and private solutions can be integrated into education systems in ways that improve instructional quality, reduce administrative burden, and support evidence informed decision making.

Within this evolving landscape, cooperation between the IDB and the Republic of Korea has contributed to advancing digital education initiatives across LAC over the past two decades. As this partnership has matured, Korean EdTech – spanning both public and private solutions – has played an increasingly visible role, with growing potential to support LAC education systems in

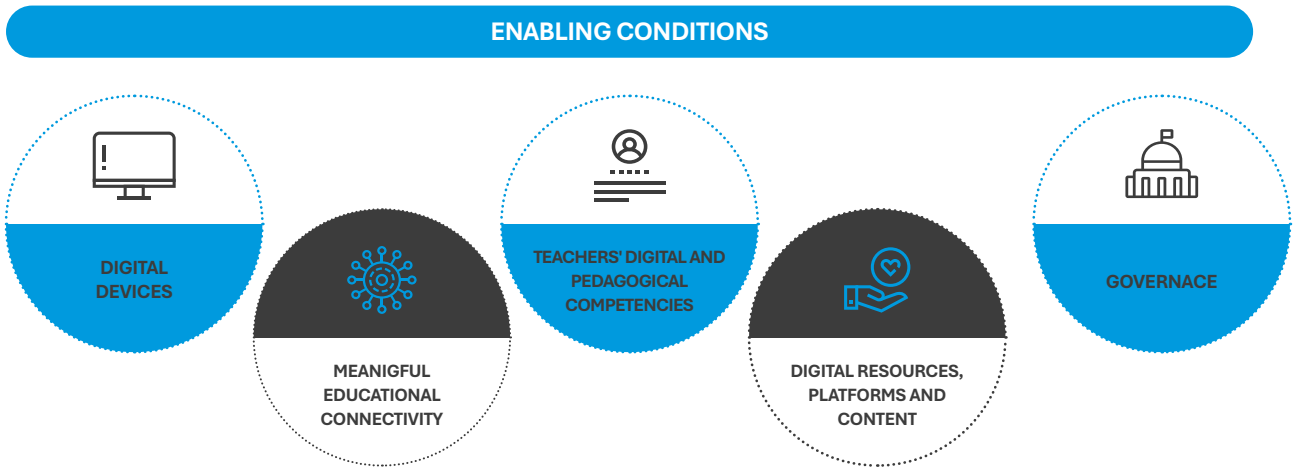
addressing shared digital transformation priorities. This report reflects this evolution, shifting the focus from strategic engagement toward concrete collaboration through EdTech solutions.

1.2 The IDB Digital Transformation in Education Framework

To support system-level reform, the IDB has articulated the **Digital Transformation in Education (DTE) Framework** that categorizes technology and AI-driven interventions into **three main policy goals in education:** 1) maximizing learning; 2) expanding access and the completion of learning trajectories; and 3) enhancing efficiency in service delivery (Arias Ortiz et al., 2025)[1].

The programs that use technology require **five enabling conditions:** i) Digital devices; ii) Meaningful educational connectivity; iii) Teachers' digital and pedagogical competencies; iv) Digital resources, platforms, and content; and v) Governance (Arias Ortiz et al., 2025).

These five dimensions emphasize that digital transformation is not a linear or technology-driven process. Progress in one area, such as device distribution or platform adoption, cannot be sustained without parallel investment in teacher capacity, data governance, and institutional coordination. The framework therefore shifts the focus from isolated interventions toward system coherence, sequencing, and long-term sustainability.



This report adopts the DTE Framework as its analytical backbone. All mapped solutions are assessed not as standalone tools, but in terms of how they contribute to one or more enabling conditions within a broader reform trajectory.

1 To improve learning, interventions include personalized support, enriched instruction, and scalable teaching resources such as AI tutoring and adaptive learning tools. To expand access and completion, they include early warning systems, translation and accessibility tools, and stronger communication channels for families and educators. To improve efficiency, they include digital assessments, tools that reduce teacher workload, and data-driven decision-making. By aligning these interventions with available resources, policymakers can support more equitable, scalable, and cost-effective education reforms.

1.3 Why South Korea Is a Relevant Reference

An important characteristic of South Korea's approach is the interaction between public leadership and private innovation. Since the mid-1990s, the country has implemented successive national ICT-in-Education master plans, progressively expanding digital infrastructure, strengthening teacher capacity, and developing national digital platforms and public education services (KERIS, 2021).

More recently, the 2023 Digital Education Innovation Plan introduced AI-powered digital textbooks to personalize learning and data-driven governance tools for evidence-based planning, monitoring, and accountability (ROKMOE, 2023) and the AI for All national strategy, introduced in 2025, aimed at expanding AI literacy and national AI talent development (ROKMOE, 2025).

An important characteristic of South Korea's approach is the interaction between public leadership and private innovation. Core public infrastructure and regulatory frameworks have provided stable conditions for scale and interoperability, while a dynamic EdTech sector has developed solutions spanning devices, content, platforms, and AI enabled services. This combination has allowed innovation to expand within a coherent institutional environment, limiting fragmentation and duplication.

For LAC education systems, the relevance of South Korea's experience lies not in transferring national policies or institutional models, but in understanding how specific EdTech solutions have operated within coordinated systems – and how similar collaboration pathways could be explored in LAC contexts. This report therefore uses South Korea as a solution reference ecosystem rather than a policy benchmark.

1.4 Analytical Approach and Scope of the Report

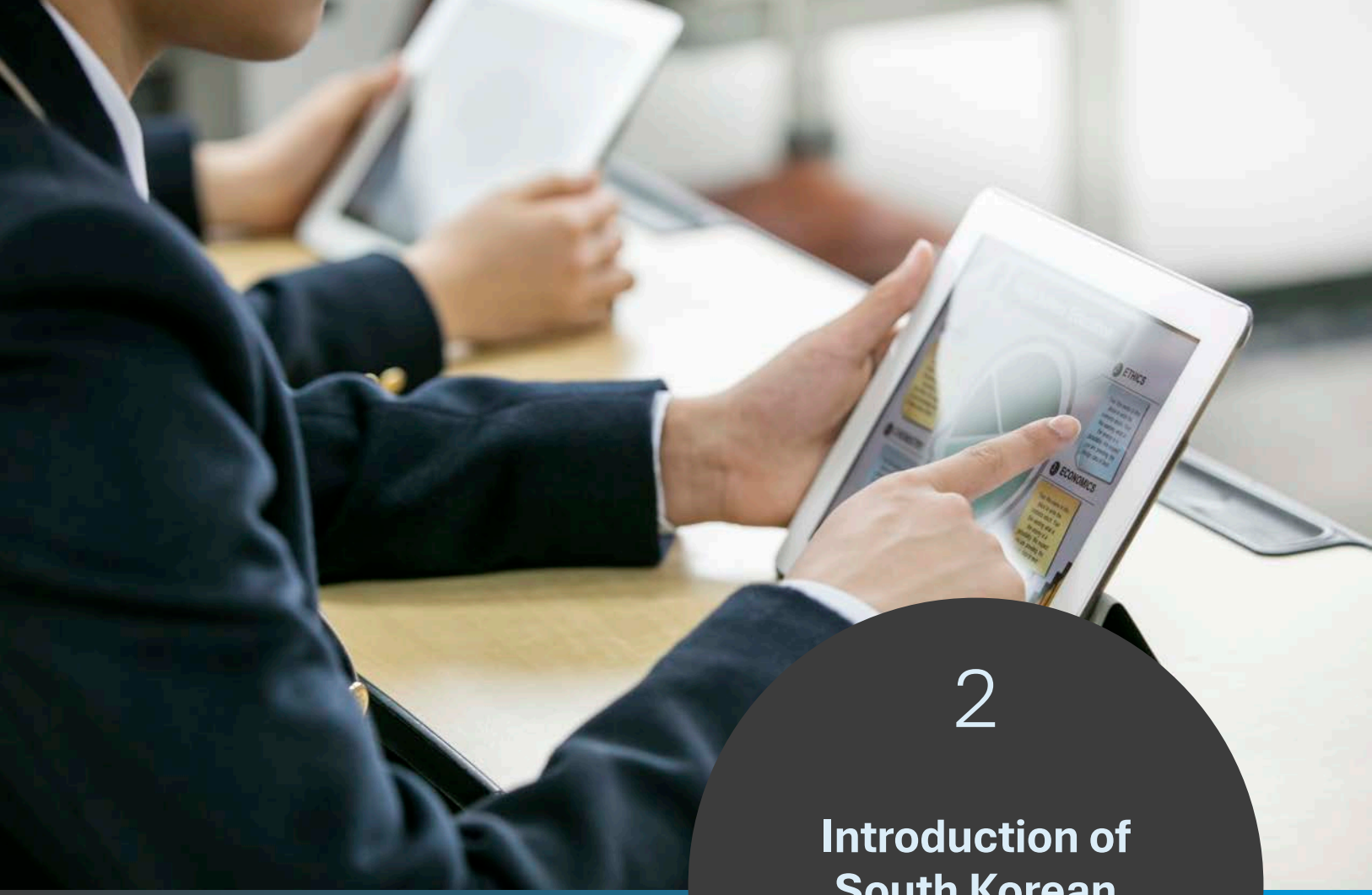
Building on this perspective, the report systematically maps South Korean public and private EdTech solutions against the five enabling conditions of the IDB's DTE Framework. The objective is to identify solution types, implementation approaches, and institutional features that are relevant for collaboration with LAC education systems.

The analysis progressed from an initial landscape of approximately 300 solutions to a curated portfolio of 40, selected through structured screening and expert review. Selection criteria included educational relevance, scalability, implementation requirements, institutional compatibility, and cost considerations. The resulting mapping aims to support policymakers and development partners in identifying entry points for structured cooperation, experimentation, and learning.

This publication focuses on:

- The analytical framework and methodology
- The mapping of solutions by DTE enabling condition
- Cross-cutting insights relevant to system-level digital reform

Building on this analytic framing, the following section translates system level challenges and enabling conditions into a structured mapping of South Korean EdTech solutions aligned with the IDB's DTE Framework.



2

Introduction of South Korean EdTech Solutions

MAPPING SOUTH KOREAN EDTECH SOLUTIONS FOR AI AND DIGITAL TRANSFORMATION IN EDUCATION

2. Introduction of South Korean EdTech Solutions

2.1 Structural Analysis of South Korea's Digital Transformation in Education

> 2.1.1 Digital Devices

South Korea's K-12 device ecosystem combines scale with service capacity, reflecting rapid progress toward 1:1 usage. As of 2025, there were 0.85 devices per student (up from ~0.33 in 2022), and teachers averaged more than two instructional devices (KERIS, 2026). Grade-tiered allocation (tablets for lower grades, laptops/Chromebooks for upper grades) aligns device choice with instructional needs and user capacity. To sustain the longevity of device usability, a Digital Tutor model provides in-school support for maintenance, updates, and classroom integration (~1,200 tutors deployed in 2024) (ROKMOE, 2024). The effectiveness of these arrangements is closely linked to South Korea's procurement and supply structure. According to S2B contract data, equipment such as tablets, laptops, and interactive displays accounted for 41% of total EdTech procurement, underscoring the continued weight of hardware investment (KEFA, 2025). With Samsung and LG together representing about 71% of this spending, the device ecosystem is anchored in a stable domestic supply chain (KEFA, 2025). This integration of classroom-level support with a concentrated industrial base positions devices not as standalone tools but as critical infrastructure for South Korea's broader digital education transformation.

> 2.1.2 Meaningful educational connectivity

South Korea has built one of the world's most advanced digital connectivity environments, grounded in long-term policy investment and structured Public-Private Partnerships (PPP). Since 1996, the SchoolNet program has delivered dedicated, education-only circuits to all K-12 schools, managed by provincial and metropolitan education offices through five-year contracts with major ISPs (KT, SK Broadband, LG U+). This model secures nationwide coverage and predictable pricing while ensuring equity across regions (KERIS, 2023).

The current fourth-phase SchoolNet service provides 1 Gbps as the standard dedicated line speed. In 2024, a new 10 Gigabit internet service was introduced as an additional tier, enabling speeds of up to 10 Gbps at significantly lower cost than dedicated leased lines. As of 2025, approximately 4,000 schools are utilizing this 10G internet service (KERIS, 2026).

On the wireless infrastructure side, sustained national investment has delivered comprehensive in-school coverage. Between 2017 and 2025, wireless access points were installed across 23,155 schools, totalling 254,246 APs covering classrooms, gymnasiums, and learning support spaces (KERIS, 2026). Standards have progressively advanced from Wi-Fi 6 (introduced from 2020) to Wi-Fi 6E (from 2023), with Wi-Fi 7 introduced from 2025.

In response to growing demand for bandwidth-intensive digital education, the Ministry of Education co-financed a dual-network architecture separating administrative systems on secure dedicated lines from teaching and learning environments on high-capacity internet circuits. The School Wifi Integrated Management System (SWIMS) currently monitors equipment across participating schools, with full national integration of wired and wireless network monitoring expected by 2026 (KERIS, 2026). Joint guidance from the Ministry of Education and the Ministry of Science and ICT (MSIT) establishes cloud, privacy, and network security standards, including firewalls, harmful-site filtering, IPS, and DDoS protection. This layered architecture balances security and performance, positioning connectivity as a robust foundation for South Korea's digital transformation in education.

> 2.1.3 Teacher's digital and pedagogical competencies

South Korea recognizes teachers as central agents of digital transformation. This commitment is reflected in an allocation of approximately KRW 1 trillion (USD 740 million) for 2024-2026 to build digital and AI competencies for teachers, and the national government aims for all teachers to complete relevant training by 2026 (ROKMOE, 2023). By September 2024, the Korea Education and Research Information Service (KERIS)run Integrated Training Institute had delivered 2,816 courses with 42,259 teachers completing programs, a more than tenfold increase since 2020 (KERIS 2023). National initiatives such as T.O.U.C.H (Teachers who Upgrade Class with High-tech) and AIEDAP (AI Education Alliance and Policy lab) have trained 846 master teachers and 1,500 lead teachers, covering technical skills, in addition to instructional design, project-based learning, and data-driven formative assessment (KERIS, 2023).

Teacher professional development is provided both online and offline through both public institutions (e.g., the National Education Training Institute (NETI), metropolitan and provincial education training institutes, and KERIS etc.) and certified private providers. All training content should be reviewed and approved against national standards, ensuring quality and consistency, while also allowing teachers to select from diverse, innovative, and up-to-date options. To enhance continuity and motivation, training records are digitally managed, and in some cases further certified through a digital badge system (e.g., in SMOE), enabling transparent tracking of individual progress. In recent years, peer mentoring and teacher learning communities have expanded significantly, enabling early adopters to lead dissemination. This multi-layered ecosystem has been a key enabler of classroom-level digital integration.

> 2.1.4 Digital resources, platforms, and content

South Korea's ecosystem of digital resources and platforms reflects a unique balance between strong public infrastructure and a dynamic private sector. Public agencies such as KERIS and EBS anchor nationwide access, with platforms like EBS Online Class had served nearly four million daily users across 470,000 virtual classrooms during the COVID-19 pandemic, demonstrating its role as the most widely adopted national platform for teachers and students alike. the AIDT, launched in 2025, aimed to provide real-time personalized learning, integrating adaptive content with data-driven insights for teachers (ROKMOE, 2023). Lifelong and higher education are supported by platforms such as K-MOOC (Korean Massive Open Online Course, which has recorded nearly 4.2 million course enrolments as of June 2025 (KERIS, 2026), and interoperability has been strengthened through the Digital One Pass system, enabling single-login access across multiple services.

The private sector drives diversity and specialization. More than 600 content firms are active (NIPA, 2025), and 99% of classroom materials are domestically produced (KEFA, 2025), reflecting the depth of local expertise. Such supply-side strength is reinforced by robust demand: household spending on private education is more than double the OECD average (OECD, 2023), sustaining a competitive and innovative market environment.

Recent trends show a shift toward AI-integrated platforms that combine content, tools, assessment, chatbots, and management, extending beyond basic subjects like Korean, math, and English to areas such as art, creative activities, collaboration, counseling, AI literacy, and simulations with AR/VR, responding to diverse classroom needs. Importantly, adoption is increasingly teacher-driven, as educators select and purchase tools tailored to their contexts.

This alignment of public scale, private innovation, and teacher agency positions South Korea as a leading case of how digital resources can sustain systemic transformation in education.

> 2.1.5 Governance

South Korea's governance of digital education is recognized for its strong institutional foundation, fiscal commitment, and balanced approach between central direction and local autonomy. Since the 1990s, successive national master plans and legislation, including the Act on Development of e Learning Industry and Promotion of Utilization of e Learning, the Framework Act on the Promotion of Digital Based Distance Education, and the AI Basic Act have embedded digital learning into the education system as a sustained priority rather than a temporary initiative.

Financially, commitment has been robust and predictable. In 2024, the South Korean Ministry of Education allocated KRW 1.2 trillion (USD 874 million) to digital initiatives such as AIDT, teacher training, and innovation grants. Stable multi-year budgeting has enabled continuity across political cycles, ensuring that digital transformation is treated as an enduring national agenda.

On the administrative side, integrated systems such as National Education Information System (NEIS) and Korea-Education Finance Information System (K-Edufine) improve efficiency and accountability, while the National Education Data Portal enables real-time, evidence-based policymaking (KERIS, 2025). These tools enhance transparency and reduce the gap between data collection and policy implementation. Governance also extends beyond centralization. Schools and teachers have autonomy to procure and adopt tools that match their instructional needs, ensuring responsiveness to diverse contexts. This dual model, national infrastructure with localized choice creates both scale and adaptability.

Overall, South Korea's governance demonstrates how legal frameworks, fiscal stability, administrative integration, and private innovation can be aligned to drive systemic digital transformation.

2.2 K-EdTech Map & Solution Introduction

> 2.2.1 K-EdTech Map at a glance

> 2.2.2 Solution Introduction

• Profiled 40 Solutions list by IDB's DTE Pillar[2]

No.	IDB's DTE pillar	Sub-Category	Classification	Sector	Provider	Solution Name
1	Digital devices	Personal devices	-	Private	LG Electronics	LG Laptop
2			-	Private	Samsung Electronics	Galaxy Tab
3		Classroom device	-	Private	AHA Information & Communication	Interactive Flat Panel Displays (IFPD)
4			-	Private	ClassLab	Document Camera (Classcam)
5		Management & maintenance	-	Private	DKI Technology	Argos MDM
6	Meaningful connectivity	Network Providers	-	Private	KT	Network Service
7	Teachers' digital and pedagogical competencies	Collaboration and Networking Platforms	Prioritized	Private	Indischool	Indischool
8		Competency Management system	Prioritized	Private	LecoS	LecoS Open Badge
9		Professional Development Content	Prioritized	Public	Korea Education and Research Information Service (KERIS)	Edunet
10			Prioritized	Private	Tekville Education	Teacherville
11	Digital Resources, Platforms, and Content	Foundational Learning	Prioritized	Public	Korea Educational Brodacasting System (EBS)	EBSi
12			Prioritized	Private	Chunjae Education Inc.	Chunjae AIDT
13			Prioritized	Private	CT Corp	Cognity
14			Prioritized	Private	Enuma	Enuma School
15			Prioritized	Private	iHateFlyingBugs	EPaaS & AI Digital Textbook
16			Prioritized	Private	i-Scream Media	i-Scream S
17			Prioritized	Private	Visang Education Inc	AllviA
18			Prioritized	Private	Freewheelin	Schoolflat
19			-	Public	National Institute for Lifelong Education (NILE)	K-MOOC
20			-	Private	DNSOFT	ARGONG English Planet
21		Digital and AI Competencies	Prioritized	Public	Korea Foundation for Science and Creativity (KOSAC)	Digital Sprout
22			Prioritized	Private	Elice	Elice LXP
23			Prioritized	Private	Roborisen	PingPong Robot
24			Prioritized	Private	Neopia	FlatCo

2 Solutions marked as "Prioritized" in the Classification column are presented in extended two-page profiles. These solutions were identified as closely aligned with the DTE priorities of Honduras and Peru through the country engagement process conducted under RG-T4578, and considered suitable for deeper technical discussion, pilot exploration, or near-term collaboration. They were subject to in-depth expert interviews as outlined in Annex 1 (Methodology). All remaining solutions are presented in one-page profiles. Differences in profile length reflect the depth of country engagement during this phase of the technical cooperation, not differences in quality or relevance.

No.	IDB's DTE pillar	Sub-Category	Classification	Sector	Provider	Solution Name
25	Digital Resources, Platforms, and Content	Digital and AI Competencies	-	Private	NAVER Connect Foundation	Entry
26			-	Private	Robolink	CoDrone EDU
27		Arts, SEL, Life Skills	Prioritized	Private	HippoT&C	CogMo solution
28			-	Private	i-Scream Art	Art BonBon
29			-	Private	SimG	Heavy Equipment Simulator
30			-	Private	Twohands Interactive Inc.	DIDIM
31		Information Portals and platform	Prioritized	Public	Seoul Education Research & Information Institute	EN School
32			-	Public	Korea Research Institute for Vocational Education & Training (KRIVET)	CareerNet
33		Tools (LMS, Collaboration, Authoring, Quiz etc)	-	Private	Classum	Classum
34			-	Private	Edu-Aid	dahandin & dahandout
35			-	Private	MiriDiH	MiriCanvas
36			-	Private	NAVER Cloud	Whalespace
37	Governance	Administration Systems	Prioritized	Public	Korea Education and Research Information Service (KERIS)	NEIS
38			-	Public	Korea Education and Research Information Service (KERIS)	K-Edufine
39		Statistics & Data Systems	Prioritized	Public	Korean Educational Development Institute (KEDI)	KESS
40		Procurement	-	Public	The-K Korean Teachers' Credit Union	S2B (School to Business)

Private | *Personal devices*

LG Electronics A globally leading tech company, founded in 1958, drives technological innovation across consumer electronics, IT, automotive parts, and signage, operating in over 130 locations worldwide.

LG gram

LG laptops include the ultra-light 'LG gram' with long battery life and the versatile 'LG Ultra PC' with balanced affordability and strong expandability. Powered by Intel® Core™ Ultra processors, they deliver enhanced AI capabilities for faster multitasking and reliable performance, providing students and educators with a more convenient, engaging, and productive learning experience across all educational settings. K-12 HigherEd Lifelong Learning

Main Features

- **Software & AI Features**
  - AI Assistant & Smart Content Management (GPT-4o–Based)
    - Enables document search and summarization, image editing, and page organization using natural language commands.
    - Integration with Google Workspace and Microsoft 365 for quick access to email content and schedules, facilitating classroom planning, and student communication.
    - Keyword-based retrieval of images, videos, and audio, including deleted or misplaced files.
    - AI-powered photo auto-classification by date, people, location, and 38 predefined themes, enabling quick searches with 2–3 keywords.
  - AI-Accelerated Performance & Graphics
    Powered by Intel® AI Boost (dedicated AI engine) and Intel® Arc GPU, to deliver efficient AI workloads and smooth graphics performance.
  - Intelligent Thermal Management
    Includes AI-enhanced dual cooling fans that automatically adjust fan speed based on usage, placement, and system load.
  - Seamless Cross-Platform Connectivity
    Promotes smooth connection including file transfer across iOS and Android devices without OS limitations, supporting collaborative learning, and project sharing.
- **Hardware**
  - Ultra-lightweight
    - Comprised of a 1,199g body, that is easy to carry between learning spaces.
  - High-Resolution 16:10 Display
    2560 × 1600 resolution with DCI-P3 99% color gamut for high-resolution viewing.
  - MIL-STD Certified Durability
    Passed the U.S. Department of Defense–standard testing for shock, vibration, extreme temperatures, dust, and salt spray.

Educational Evidence & Validation

Enables future-ready learning environments through AI-powered computing, cloud-based educational solutions, and technology partnerships.

- **Ongoing**
  Through the LG Schools Program in the United States, LG partners with K-12 schools to create future-ready learning environments by providing educational technology infrastructure, including digital displays, collaborative learning tools, and classroom innovation support[3].
- **2025** The 'LG gram' ranked most desired laptop among South Koreans aged 20-30 in a survey of 1,749 consumers[4].
- **2021** LG Electronics launched the 'Whalebook' with Naver, providing a cloud-based device optimized for remote learning and classroom management[5].

Implementation & Localization

Device	- Size: 358 X 252 X (12.8, 12.4) mm - Display: 40.6 cm LCD / 40.6 cm OLED / 43.1 cm LCD - Weight: 1,199g - Memory: 16GB, 32GB - Storage: 256GB, 512GB, 1TB SSD - Operating System: Windows 11 Home
Connectivity	- Online/Offline/Hybrid use - Wireless LAN: Intel® Wi-Fi 7 BE201 (Wi-Fi 7, 2x2 MIMO, Bluetooth Combo)
Integration / Security	'LG Security Guard' protects against theft or loss when unattended, triggering a warning screen and email alert if the adapter is disconnected or the lid is closed
Localization / Language	Over 130 overseas business locations (including Latin America)
Pricing	- USD 670 to USD 1700 - USD 1592 (LG Gram Pro AI)

Access & Demo Information https://www.lge.co.kr/category/notebook

3 LG Electronics USA Website, January 9, 2025.
4 Hankyung Business. (2025, October 13). Brand is identity: Keywords are 'trust, price, and preference https://magazine.hankyung.com/business/article/202510011770b
5 LG Electronics Newsroom. (2021, Sep 15). LG Electronics launches Whalebook, providing optimal untact education solution. https://www.lg.co.kr/media/release/23869

Private | *Personal devices*

Samsung Electronics A global leader in semiconductors, electronics, and displays, designing and manufacturing cutting-edge products, was founded in 1969, and currently employs over 260,000 people across 240 locations in 76 countries.

SAMSUNG Galaxy Tab

An Android OS-based tablet PC available in various models to suit diverse user needs, featuring the S Pen for writing, drawing, and collaborative learning, and recognized globally as a leading tablet PC. K-12 HigherEd Lifelong Learning

Main Features

- **AI-Powered Learning & Creation**
  Allows real-time interaction with Google Gemini via screen or camera sharing. Uses AI-based image generation to help visualize and expand ideas, while writing assistance supports drafting, refining, and producing polished educational content.
- **Enhanced AI Performance**
  Includes an upgraded processor delivering ultra-fast AI performance, smooth multitasking, stunning graphics, and seamless app switching; NPU +33%, CPU +24%, GPU +27%.
- **Enhanced S Pen Experience**
  S Pens are battery-free with hexagonal grip and quick toolbar, enabling fast, precise note-taking, drawing, and easy switching of pen types, colors, and thicknesses.
- **Immersive Display**
  Uses slim bezels and enhanced brightness up to 1,600 units for clear, vivid viewing.
- **Long-lasting Battery**
  Includes a 11,600mAh battery delivering up to 23 hours of video playback, enabling full-day classroom activities and extended study sessions.
- **Slim & Lightweight**
  5.1mm thin and 692g for easy portability between classrooms, home, and study spaces.
- **Durable Design**
  IP68 water and dust resistance ensures reliability in various learning contexts, including outdoor educational activities or lab-based sessions.

Educational Evidence & Validation

Creates a smarter educational environment with AI-powered features and high-performance hardware, enabling personalized learning and efficient study management.

- **2025** Launched the "Galaxy Empowered" programme in India, targeting 20,000 teachers across 250 schools with free AI and digital skills training, aiming to enhance student engagement and classroom impact through educator capacity development[6].
- **2018** Partnered with a national Ministry of Education in the Middle East to supply Galaxy tablets to over 2 million students, enabling full digital transformation of the national education system.
- **2025** ***Galaxy Tab S11 AI Teachers Experience Program***
  Samsung Electronics recruited teachers in South Korea to explore how the tablet's AI features enhance teaching and administrative tasks. Participants reported improved productivity and workflow efficiency.

- **Galaxy Tab S11 in Education**
  Enables real-time voice Q&A via Gemini Live screen sharing and lets students save mistake logs, vocabulary lists, and weak-point analyses automatically organized by Gemini in Samsung Notes for systematic learning.

Implementation & Localization

Device	- Size: 208.5 X 326.3 X 5.1 mm - Display: 369.9mm Dynamic AMOLED 2X - Weight: 695g (5G), 692g (Wi-Fi) - Thickness: 5.1mm - Battery: 11,600mAh, 45W fast charging - Memory: 12GB, 16GB - Storage: 256GB, 512GB, 1TB - Pen: NEW S Pen included
Connectivity	- Online/Offline/Hybrid use - 5G, Wi-Fi 7
Integration / Security	- Knox secures devices from chipset to applications, protecting data at boot and in real time. - Rated "Strong" in 27 of 30 Gartner security categories.
Localization / Language	Samsung's Galaxy AI is available in 22 languages and several regional dialects, with plans for further expansion.
Pricing	- USD 257 to USD 1,191 - USD 747 (Galaxy Tab S11)

Access & Demo Information https://www.samsung.com/us/tablets/

Image Source Samsung Electronics Official Website

6 Samsung Newsroom India. (2025, February 12). Samsung launches unique community-led programme "Galaxy Empowered" to upskill 20,000 teachers by 2025. https://news.samsung.com/in/samsung-launches-unique-community-led-programme-galaxy-empowered-to-upskill-20000-teachers-by-2025

7 Samsung Knox. (2018). How Samsung is driving digital adoption in education. https://www.samsungknox.com/en/blog/how-samsung-is-driving-digital-adoption-in-education

8 Samsung Newsroom Korea. (2025, December 10). AI-transformed classrooms: Insights from active teachers in the Galaxy Tab S11 AI Teachers program. https://bit.ly/3K9cNQK

Private | *Classroom device*

AHA Information & Communication Founded in 1995, AHA is an EdTech company at the forefront of electronic podiums, LCD interactive whiteboards, and large P-CAP sensors. The company holds over 500 patents and has maintained the #1 market share in electronic whiteboard procurement in South Korea for 16 consecutive years.

AHA
Interactive Flat Panel Displays

Interactive Flat Panel Displays (IFPDs) feature high-resolution touch screens with advanced sensor technology, allowing diverse content to be displayed with on-screen handwriting, providing a natural writing experience with fast input and multi-touch support, and were developed as the world's first interactive digital whiteboards.

K-12 HigherEd

Main Features

- **IR Touch Sensor**
  Supports under 1 mm gap, 50-point simultaneous touch, 1.8 m/s response speed, and ±0.5 mm pen accuracy.
- **High-Resolution Display with Local Dimming**
  Provides enhanced contrast, a natural handwriting experience, and power efficiency.
- **4K Camera & 10-Channel Array Microphone**
  Delivers high-quality video conferencing with speaker tracking and noise reduction.
- **AI Multilingual Meeting Minutes**
  Provides real-time translation, text recording, and summarized meeting notes.
- **Voice Command AI**
  Allows app launch, whiteboard access, volume control, and power controls in Korean, Japanese, and English.
- **External Input & Multi-tasking**
  Enables up to 4-split screen and 16-channel wireless screen sharing.
- **High-Capacity Memory**
  Offers 512 GB of storage for demanding data tasks.
- **High-Quality Speakers**
  Features a 2.1-channel system with a 16 W × 2 + 20 W subwoofer.

Educational Evidence & Validation

Transforms classrooms into future-ready learning spaces by enhancing lessons and engagement through diversemultimedia content on the interactive display

- **Exported Interactive Flat Panel Displays to 63 countries worldwide, equipping the majority of schools in Central Asia, including Uzbekistan and Kazakhstan (Global Times, 2023).**
- **2024** Installed 86-inch Interactive Flat Panel Displays in all elementary classrooms at Tokyo Korean School in Japan, enhancing lesson delivery and real-time teacher-student interaction.
- **2023** *Key Recognition*
  Commendation from the Superintendent of Education of the Gyeongsangbuk-do Province in South Korea, for contributing to the successful field training of vocational high school students as a leading company.

Implementation & Localization

Device	- Size: 1499 x 960 x 110 mm - Display: 65-inch high-resolution screen(840×2160) - Weight: 53kg - Supported OS: Windows 10 or later, Android, Mac, Linux, Chrome
Connectivity	Online/Offline/Hybrid use. Core display functions work offline; Wi Fi or wired network needed for cloud content and app updates.
Integration / Security	Google EDLA: Google certification for Android device compatibility and reliability.
Localization / Language	- Offices in South Korea, Japan, Germany, and Kazakhstan; logistics centers in the U.S. and Netherlands. - Multiple languages supported.
Pricing	- USD 1039 to USD 5544 - USD 3268 (8600 LCTQ Series)

Access & Demo Information https://i-aha.com/product/ifpd/

Image Source AHA Official Website

Private | *Classroom device*

ClassLab An educational and broadcasting equipment manufacturer, partnering with IPEVO, a global leader in visualizers, delivering advanced visualizer technology, components, and products tailored for educational environments.

Class Cam

South Korea's leading document camera, providing real-time on-screen display of documents and physical objects with zoom and image capture functions for classroom and remote learning, and supported by seven patents. K-12

Main Features

- **Device**
  - **High-Quality Imaging**
    Uses an 8MP Samsung image sensor; 3 cm close-up shots without additional lenses.
  - **Instant Screen Switching**
    One-touch transition between desk and face views using the patented Face Mirror technology.
  - **Enhanced Audio**
    Operates IntelliGO AI-enhanced voice technology with dual microphones and background noise filtering, delivering clear, natural sound.
  - **Fast Autofocus**
    2× faster AF for quick and precise capture.
  - **Smooth Video**
    Lag-free display with high-speed video processing for vivid, sharp images.
  - **Adjustable 3-Level LED**
    Allows brightness and color temperature control adjustment for clear images, even in low light.
  - **Flexible Camera Operation**
    360° rotation, adjustable height and angle, and a detachable camera body allow for precise partial shots.
- **Others**
  - **ClassCam-Exclusive Free Visualizer Program**
    Software that works with ClassCam, providing classroom display control features for teachers.

Educational Evidence & Validation

Supports effective learning both in remote and in-person classrooms by enhancing the quality and interactivity of lessons for all students.

- **2024-2025** *Key Certifications*
  Top award in the Public Procurement Service (PPS) e-Market evaluation for excellence in delivery, quality, and service performance

Implementation & Localization

Device	- Size (Unfolded): 250 × 350 × 90 mm - Size (Folded): 85 × 240 × 90 mm - Weight: 690 g - Storage Format: JPG (photos), MP4 (videos) - Durable Construction: Polycarbonate & fiberglass
Connectivity	Online/Offline/Hybrid use. Connect via the computer's USB port, no internet required.
Localization / Language	Designed for scalable deployment across diverse educational environments.
Deployment	- Installation Requirements: Windows 7/8/10/11; macOS 10.13 or later - Power Supply: Powered via PC USB 2.0
Pricing	- USD 115 to USD 373 - USD 260 (ClassCam 601-F)

Access & Demo Information https://classcam.co.kr/

Image Source ClassCam Official Website

Private | *Management & maintenance*

DKI Technology An ICT platform company, leveraging a wide range expertise and experience from IoT to digital security since 1997, delivering specialized solutions and services while implementing information technologies powered by advanced IoT and AI capabilities.

Argos MDM

Integrated smart device management solutions for educational environments, with automatic app installation and updates, blocking/restricting of distracting apps, and protection against device loss or theft, ensuring a safe and efficient digital learning environment. K-12

Main Features

- **Asset Management**
  Enables user and educational device management, including registration and real-time tracking of device information and status.
- **App Management**
  Promotes remote installation and updates of educational apps, automatic content downloads, and WiFi-based device synchronization for efficient class preparation.
- **Security & Safety Management**
  Blocking of harmful apps and websites, multi-user access management, and secure folder maintenance to ensure a safe learning environment.
- **Lost & Stolen Device Management**
  Allows users to remote lock, factory reset, location tracking, and loss reporting to protect devices.
- **Unified Dashboard**
  Monitoring of device usage, operational status, and downloads from a single interface.
- **ASM Integration**
  Automatic iOS device enrollment with Argos Classroom, supporting live screen sharing, interactive communication, and tablet control for efficient class management.

Educational Evidence & Validation

Enhances digital learning by securely and efficiently managing educational devices and providing classroom-optimized management features for a stable learning environment.

- Served over 10,000 schools (~85% of K–12 schools) across 15 South Korean education offices (~100%) through education office MDM contracts.
- Nationwide (South Korea) deployment and operation of a school wireless infrastructure management system (Phases 1–5).
- Over 2.9 million MDM licenses supplied.

Implementation & Localization

Device/ Platform	Smart Device Management server (MDM Admin Page) and agent app (MDM Agent), compatible with major OSs (Android, Windows, iOS, ChromeOS).
Connectivity	Wi-Fi connectivity required for remote management and device synchronization.
Integration / Security	Korea NIS CC and GS Certifications
Localization / Language	- Supports localized deployment aligned with national smart education policies. - Experience in international projects, including Australia and Vietnam.
Deployment	Delivered as an agent software installed directly on each managed device.
Pricing	USD 2.5 per managed device (Argos MDM Agent SW). Price may vary depending on conditions.

Access & Demo Information

https://www.dkitec.com/home/mobile/SmartEdu.php

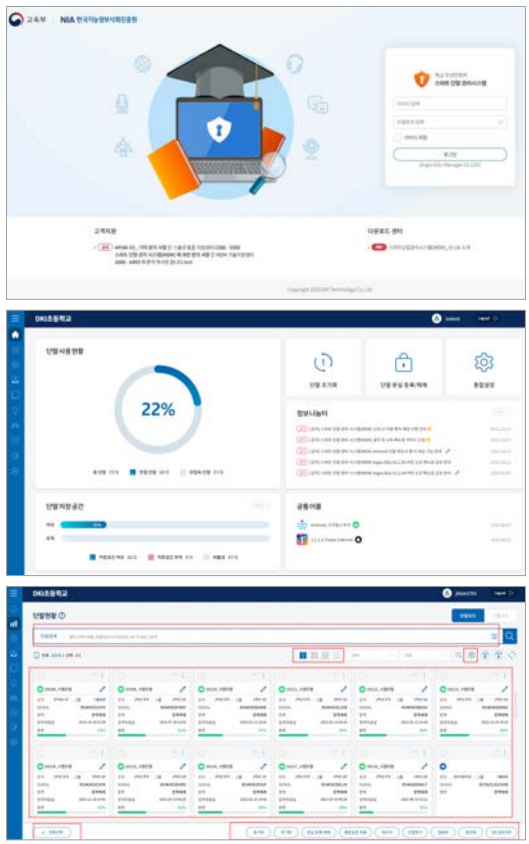


Image Source Argos MDM Instructional manual

Private *Network Providers*

KT Corporation South Korea's leading telecommunications company, founded in 1981, combines decades of ICT leadership with a global network of 2,000+ nodes to deliver AI, big data, cloud, and end-to-end connectivity services worldwide.

Network services provided KT include South Korea's only nationwide broadband LTE and expanding 5G network, trusted by 10 million customers and supported by 28 Data/IP PoPs in 12 countries, 300+ carrier partners, 20+ Tbps across 8 submarine cable systems, and a 2+ Tbps international IP backbone. These services ensure stable connectivity for educators and students, thereby enabling seamless participation in remote and hybrid learning.

K-12 | HigherEd | Lifelong Learning

Main Features

- **GIGA Wire**
  - A field-proven solution delivering over 1Gbps using existing copper/coaxial infrastructure. Minimizes operator CAPEX while providing gigabit broadband without fiber construction in buildings. Ensures stable classroom connectivity for streaming lectures, accessing e-textbooks, and collaborative online projects.

  - Advantages

    Operates simple DSL device replacement, has a max speed 1.7Gbps, and minimal on-premises wiring for quick setup in educational spaces.

- **GIGA WiFi**
  - Premium WiFi service supporting up to 4.8Gbps using 802.11ax technology about three times faster than conventional 802.11ac WiFi. Supports up to 512 users per band, making it ideal for connected classrooms, study halls, or school-wide digital initiatives.

- **GIGA LTE / 5G**
  - Maximizes mobile internet speed and seamless connectivity when WiFi is unstable or unavailable, and prevents learning interruptions. Launched in 2015 as the world's first GiGA LTE service.

  - Single Path

    Devices connect to LTE or WiFi.

  - Multi Path

    Devices connect to LTE and WiFi simultaneously for faster speeds.

Educational Evidence & Validation

Ensures equitable access to education with consistent high-speed connectivity for all students, across urban, rural, and remote areas.

- **Global Strategic Partnerships**

  Enables real-time voice Q&A via Gemini Live screen sharing and lets students save mistake logs, vocabulary lists, and weak-point analyses automatically organized by Gemini in Samsung Notes for systematic learning.

  - 2016-2019 ***Uzbekistan***

    Implemented Phase 1, 2 of Uzbekistan's ICT in Education Project under Korea's EDCF, delivering ICT-based education infrastructure.

  - 2025 ***United States***

    Established a strategic partnership with the AI platform company Palantir.

- As a dedicated SchoolNet ISP since 2011, KT provides internet connectivity to 7,740 K-12 schools across 12 regional education offices covering 60% of all schools nationwide as well as 106 universities, supporting stable connectivity[9].

- KT Corporation, Upgraded dedicated school internet connections for 7,740 schools at no additional cost to support nationwide online learning continuity during the COVID-19 pandemic[10].

- KT Corporation launched the "AI EduPack Beginner Package" (AI Codiny), a step-by-step AI education platform with hands-on coding, AI, IoT, and big data learning tools for students, currently deployed across 2,500 educational institutions nationwide[11].

- **Key Certifications & Awards**
  - 2025 Large Enterprise Grand Prize, 2nd Safety Culture Innovation Award

Implementation & Localization

Connectivity	Nationwide high-speed wired and wireless network infrastructure ensuring stable and reliable connectivity.
Integration / Security	ISO 45001-certified hosting; KT-developed Quantum Key Distribution (QKD) equipment, cleared by the National Intelligence Service.
Localization	Offices and branches in 13 countries, including Uzbekistan and the Philippines.
Deployment	End-to-end deployment with design, installation, monitoring, and maintenance under KT's centralized management.
Pricing	Approximately USD 18.87/month (for 500 Mbps internet with 2 Wi-Fi devices included). Price may vary depending on conditions.

Access & Demo Information https://corp.kt.com/eng/

9 ZDNet Korea. (2020, April 13). KT provides free SchoolNet speed upgrade ahead of Phase 2 online school opening. https://zdnet.co.kr/view/?no=20200413093714

10 The Elec. (2020, April 13). KT provides free speed upgrade for school and education office dedicated internet lines.

11 Asia Economy. (2023, August 20). KT nurtures AI coding talent across 2,500 institutions with AI Codiny. https://www.asiae.co.kr/article/2023082013133980411

Private *Collaboration and Networking Platforms*

Indischool A private non-profit community of elementary school teachers, founded in 2000 and sustained entirely through the voluntary contributions and active participation of teachers, operating independently of government or corporate support.

indischool

A teacher-led community providing online and offline opportunities for knowledge sharing, mutual encouragement, and professional development, including a platform for skill growth, public education initiatives that drive meaningful change in schools and the broader education system, and research and publishing activities. Others

Main Features

- **Educational Resource Sharing**
  Operates a nationwide digital platform where elementary school teachers share classroom-tested materials, instructional resources, and field-based insights drawn from real-world practice. By normalizing professional sharing, the platform enables everyday classroom experiences to circulate as collective knowledge, accelerating peer-driven innovation across schools.
- **Teacher Community & Professional Solidarity**
  - Collective Ownership
    Operates as an integrated online and offline teacher community designed to reduce professional isolation and foster open exchange across classrooms. Structured as a member-driven ecosystem, the community functions on principles of shared ownership, where all participants contribute to and shape its direction.
  - Support for Teacher Groups
    Provides funding, online meeting spaces, and platform support for organically formed teacher groups. These groups are encouraged to contribute through collaborative research and peer-led sharing, cultivating lead teachers through recognition and professional trust rather than formal designation.
  - Support for Public Education Assemblies
    Offers logistical and fundraising support during periods of professional concern, serving as a non-political space for collective dialogue, information exchange, and solidarity among teachers.
- **Professional Learning & Capacity Development**
  - Regular Teacher Training Programs
    Provide spaces for educators to discuss real classroom challenges and pursue professional growth. Trainings cover a broad range of topics including instruction, classroom management, learner understanding, and arts and culture, while emphasizing the development of practical skills and professional expertise.
  - Publishing
    Plans and produces publications that bring together the practices and insights shared within Indischool, shaping unique narratives generated by this platform.

Educational Evidence & Validation

Enhances teacher collaboration and professional growth, helping teachers improve daily classroom practices and contribute to the quality and future of public elementary education.

150,000+ (~78%)

Elementary school teachers[12]

The majority of elementary school teachers in South Korea are members of Indischool.

166,000

Educational resources[13]

Teachers have created and shared a vast collection of educational resources that can be used in elementary classrooms.

14,490,000

Engagement[14]

Teachers actively engage, generating over 4 million comments, more than 490,000 posts, and over 10 million likes.

- **Validation & Certification**
  - A nationally scaled, teacher-initiated elementary network operating outside formal certification or state mandates.
  - Has drawn benchmarking interest from education communities in Japan, Turkey, and the United States as a rare example of large-scale, bottom-up professional validation.
- **Equity, inclusion, and safeguards**
  - Follows inclusive-by-design principles, ensuring access for all elementary school teachers across South Korea.
  - Protects each members' educational resources and personal information through high-performance cloud servers, regular backups, and security updates.
  - Restricts membership to current elementary school teachers, keeping the platform independent of commercial interests and preventing misuse of resources for private tutoring.
  - Teachers participate under pseudonyms, fostering collaborative environment with anonymity.

12 Indischool 2024 Activity Report

13 Indischool 2024 Activity Report

14 Indischool 2024 Activity Report

Use in Educational Settings

- IndiWiki

A collaborative encyclopedia created by elementary teachers, consolidating scattered administrative materials, practical knowledge, and field expertise. Three wikis have been created, covering basic academic tasks, school administrative systems, and school violence.

- Indischola

A field-based research initiative that supports elementary teachers as practitioner-researchers, examining issues such as teacher identity, instructional practice, and school systems to inform public education improvement. Seven research reports have been officially published.

- Teacher Orientation Resources

Programs leveraging collective teacher expertise to create resources that help newly assigned teachers to quickly adapt to classroom and school environments. Publications include "Starting as an Elementary Teacher" (2023) and "We Are First-Grade Teachers" (2024).

Implementation & Localization

- **Technical Requirements**

- Device & Platform

Web fully compatible with major OSs (Windows, macOS, ChromeOS) and devices (PCs, tablets, smartphones).

- Connectivity & Network

Supports online, offline, and hybrid use, enabling content download and offline learning, while extending beyond the platform to support public education activities, research, and publishing without reliance on continuous connectivity.

- **Language & Localization Readiness**

- Platform & Interface

Translated UI primarily in Korean, with other languages to be discussed.

- **Partnership & Delivery Model**

- Delivery Type

A cloud-based community platform.

- Pricing & Licensing

Free (Sustained by voluntary contributions, with no distinction between contributing and non-contributing members).

- **Training & Capacity Building**

- Conducts a total of 20 training sessions, held twice a month

4 online and 16 offline.

Sustainability & Scalability

- **Maintenance & Support**
  - Consists of 81 annual server updates to optimize performance and introduce new features.
  - Conducts approximately 167 monthly monitoring activities to manage user reports and disputes in accordance with community guidelines, taking appropriate action on violating content.
  - Cloud maintenance is centralized to ensure stable and reliable operation.
- **Long-term Partnership & Capacity Plan**
  - The solution relies on voluntary support from members, making continued participation essential for sustaining Indischool's activities and community.

Visuals / Screenshots

Access & Demo Information https://indischool.com/

Private | *Competency Management system*

LecoS Inc. Founded in 2021 and headquartered in Seoul, LecoS is one of the earliest adopters and pioneers of digital badges in South Korea, LecoS has played a central role in establishing and scaling the national digital badge ecosystem.

LecoS provides an internationally certified digital badge platform that converts traditional paper-based certificates into verifiable, digital credentials. These digital badges allow learning achievements to be stored, managed, and reused over time, offering a more durable and practical alternative to paper-based certificates. The platform supports learning recognition across all ages and educational contexts, enabling institutions to record learning progress beyond test scores and formal degrees.

K-12 | HigherEd | Lifelong | TVET/CTE

Main Features

- **Issuing Institutes (Schools, Education Authorities)**
  - Only learner name and email required.
  - No technical expertise needed.
  - Basic badge information only (description, criteria, validity).
- **Students / Recipients**
  - Badges are received via email and automatically stored in a personal digital badge wallet.
  - From the moment a badge is claimed, the learning journey is recorded and organized.
    - · Learning history accumulates.
    - · Supports self-directed learning.
    - · Shareable (Facebook, X, LinkedIn).
- **Verifiers (Employers, Schools, Third Parties)**
  - Badge information and achievement evidence can be easily verified online.
  - No separate system or account is required to check authenticity.

Educational Impact

Strengthens individual core competencies by formalizing and validating non-traditional skills. Unlike academic performance metrics, digital badges offer a more comprehensive way to assess practical abilities and learner potential.

17,000+
Badge Types Issued[15]
Types of digital credentials issued

2 million
Total Badges Issued[16]
Total number of digital badges issued

40,000+
Badge Wallet Users[17]
Badge wallet users managing and sharing earned credentials via the Open Badge wallet.

1,000+
Issuing Organizations[18]
Institutions including universities, businesses, and organizations issuing digital badges on LecoS

- Supports the digital and pedagogical competency development of teachers.
- Enables recognition of instructional innovation, digital teaching skills, and professional development outcomes.
- Makes informal and non-traditional teacher learning visible and verifiable.
- Encourages continuous professional growth through clear learning pathways.
- Aligns with education system needs for quality, accountability, and equity.

- **Validation & Certification**
  - Used by approximately 90% of universities in South Korea.
  - Overall educational market share of around 80% nationwide.
  - Conducted official research and consulting projects on digital badge design and certification frameworks for
    - · Seoul Lifelong Education Promotion Agency
    - · Korea Education & Research Information Service (KERIS), under the Ministry of Education
  - Contributed to the design of certification systems for lifelong learning badges in Seoul, South Korea.
- **Equity, inclusion, and safeguards**
  - Supports a shift from degree-based recognition to continuous micro-learning.
  - Facilitates upskilling and reskilling throughout the life course, supporting equitable learning opportunities.
  - Allows learning achievements to be recognized regardless of age, background, or learning context.
  - Aligns with SDG 4 (Quality Education) by promoting an inclusive, equitable, and quality lifelong learning pathway.

15 LecoS internal platform statistics, 2025
16 LecoS internal issuance data, 2025
17 LecoS internal user statistics, 2025
18 LecoS internal institutional records, 2025

Use in Educational Settings

- Elementary and Secondary Education (K–12)

In South Korean elementary schools, digital badges are used to recognize reading achievements, participation in school competitions, and key learn

- Vocational High Schools (TVET)

Digital badges are widely adopted in vocational high schools to certify job-related competencies. At Changnyeong Super Tech High School, after introducing international digital badges, student certification achievement rates increased by approximately **500%, demonstrating strong effectiveness in learner motivation and skills acquisition.**

- Teacher Training and Professional Development

The Seoul Metropolitan Office of Education issues digital badges for **teacher training programs, including professional development courses and AI-related teacher training programs.** As AI education expands, digital badges are increasingly used to recognize the digital and pedagogical competencies of teachers in a structured and transparent way.

- Higher Education

Universities actively use digital badges to recognize micro-learning and extracurricular achievements. Badges are issued in non-credit areas to document future-oriented competencies. At Hanyang University, digital badges awarded for semiconductor programs are recognized by major companies, including **Samsung and SK Hynix, as part of their recruitment processes.**

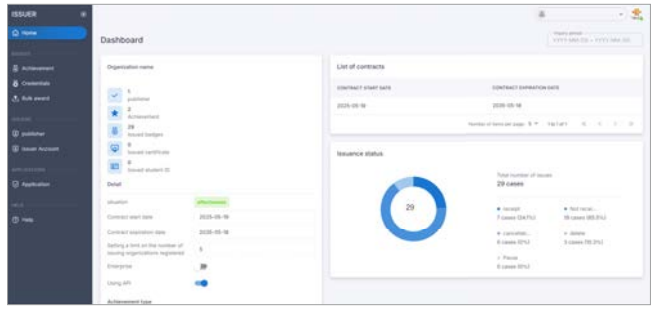
- International Use Case (Thailand)

Through **the International Association for Future STEM Workforce (IAFSW),** this platform has been applied in the Code Green AI Bootcamp in collaboration with the Rajamangala University of Technology Isan network. **Digital badges have already been issued to both faculty members and students,** recognizing AI competencies, programming skills, and Climate Action–related learning outcomes.

Implementation & Localization

- **Technical Requirements**
  - Web & mobile badge wallet (iOS / Android).
  - Compatible with Windows, macOS, ChromeOS.
  - PC, tablet, and smartphone support.
  - Cloud-based operation.
  - Open Badge 3.0 (W3C Verifiable Credentials).
  - Tamper-proof and secure credentials.
  - Language & Localization Readiness
  - UI available in 10+ languages (English, Korean, Japanese, Vietnamese, Thai, etc.).
  - Additional languages easily configurable.
- **Implementation Timeline**
  - Platform setup: within 5 days.
  - Badge design and configuration: within 10 days.
  - Short deployment cycle, suitable for rapid rollout.
- **Pricing & Licensing**
  - One-time institutional setup fee: approx. USD 4,100. (includes technical support and maintenance).
  - Badge issuance cost: approx. USD 0.80 per badge.
  - No cost for learners.
  - Pricing negotiable for large-scale adoption.
- **Training & Support**
  - Short orientation session.
  - Administrators ready to issue and manage badges within 3 hours.
  - Ongoing online helpdesk support.

Visuals / Screenshots



Access & Demo Information https://www.lecos.co.kr/eng/

Private *Professional Development Content*

Korea Education and Research Information Service (KERIS)
Established in 1999 under the Ministry of Education, KERIS is a public agency that leads South Korea's digital transformation in education by developing and operating major education information systems, and managing major national digital learning platforms, such as NEIS, K-Edufine, RISS, and digital learning services, with a staff of about 350.

Edunet

Edunet is a national education information platform that integrates national curriculum and education policy information while supporting collaboration among teachers, students, and parents. Since its opening in 1996, it has servced as a core public education service for primary and secondary schools in South Korea. During the COVID-19 pandemic, Edunet strengthened its role by supporting distance learning through online platforms, policy dissemination, and digital learning resources. In line with the Digital-based Classroom Revolution policy, the platform transitioned to a cloud-based service and was comprehensively redesigned to enhance usability and accessibility for different different user groups. K-12

Main Features

- **Teaching-Learning Resources**
  Provides curriculum-aligned teaching and learning resources to support effective classroom instruction. The platform offers diverse materials such as lesson plans, multimedia content, and assessment tools, all designed for practical classroom use. With easy access and user-friendly search functions, it supports personalized and student-centered learning.
- **Learning & Assessment Resources**
  Provides reliable and curriculum-aligned assessment materials that help teachers evaluate student learning and support continuous improvement in instruction.
- **Comprehensive National Content Repository**
  Provides a comprehensive national education content repository with over 260,000 curated resources, spanning curriculum-based learning, creativity and character education, education policy, teacher professional development, and the national curriculum, supporting teaching and learning across South Korea's K-12 public education system.
- **Curriculum & Policy Integration**
  Edunet stays updated with South Korea's latest national curriculum reforms, including the 2022 Revised National Curriculum and the high school credit system. Edunet also ensures that learners and educators are aligned with evolving educational policies.
- **Creative & Experiential Learning Programs**
  Edunet offers experiential learning guides, recommended real and virtual field trip locations, and creative activity resources. Students can engage in hands-on learning beyond textbooks, making education more dynamic and enjoyable.

Educational Impact

Edunet content in classroom instruction enhances teachers' ICT competencies, enabling more diverse and flexible lesson planning, and supports learner-centered instruction by offering curriculum-aligned multimedia resources that increase student engagement. It improves instructional efficiency by reducing preparation time.

- **Membership Status**[19]

(As of Oct, 2024)

1,939,723(100%) Total Number of members	
656,464(33.3%) Primary Students	**916,322**(47.2%) Secondary Students
205,976(10.6%) Teachers	**146,940**(7.6%) General users

- **Validation & Certification**
  - **Received the Chairperson's Award of the National Assembly Education Committee (2026) at the 20th Korea Education Industry Awards**, recognizing its role as South Korea's first nationwide public education information service and its contribution to digital teaching and learning.
  - **Awarded the Grand Prize (PC Web category) in the Good Content Service Awards** among 162 certified platforms, hosted by the Ministry of Science and ICT and administered by National IT Industry Promotion Agency, recognizing high-quality, trustworthy, digital content services.

19 KERIS (2024). Digital Education White Paper 2024.

- **Equity, inclusion, and safeguards**

  - Equitable Access

    Edunet promotes educational equity by providing free, nationwide access to high-quality digital learning resources aligned with the national curriculum, supporting equal opportunities regardless of region, school type, or socioeconomic background.

  - Data Standards & Governance

    Metadata and system data are managed in accordance with Edunet's data standard definitions and the Guidelines for Database Standardization of Public Institutions.

  - Privacy & Data Protection

    Personal information is processed and protected in compliance with the Personal Information Protection Act and relevant laws and regulations, ensuring lawful, secure, and right-based data management.

Use in Educational Settings

Edunet is used nationwide across South Korea's K-12 public education system as a core platform supporting curriculum implementation, classroom instruction, and digital transformation in schools. Teachers use Edunet to access curriculum-aligned learning materials, assessment resources, and instructional guides linked to the 2022 Revised National Curriculum, enabling lesson planning, classroom activities, and formative assessment in blended and digital learning environments.

A defining feature of Edunet's educational use is its collaborative operation with a nationwide 'Lead Teacher Groups', composed of in-service primary and secondary teachers. This group develops and shares classroom-ready teaching and learning resources that reflect real school needs, while also providing advisory input on platform operation and content planning. Through this practitioner-led model, Edunet ensures continuous alignment between national education services and everyday classroom practice, particularly during curriculum transitions and digital transformation initiatives.

Policy & Institutional Foundations

- **Legal Basis**

  - Elementary and Secondary Education Act: Provides the legal foundation for national oversight of K-12 education, including school administration, educational information management, and support for teaching and learning activities in public schools.

  - Electronic Government Act: Mandates digital transformation and interoperability of public-sector information systems.

  - Personal Information Protection Act (PIPA): Establishes strict requirements for the collection, processing, storage, and protection of personal data, ensuring privacy and secure data governance across Edunet's services.

- **Governance Structure**

  - MOE

    Establishment of policies and plans

  - KERIS

    Overall management and nationwide operation

  - Outsourced operating contractor

    Maintenance and functional improvement of application software

  - Cloud service provider

    Exclusive operation of the Edunet service cloud

- **Budget**

  - Approximately USD 1.3 million is invested annually (as of 2026) for the maintenance and operation of the Edunet service.

Sustainability & Scalability

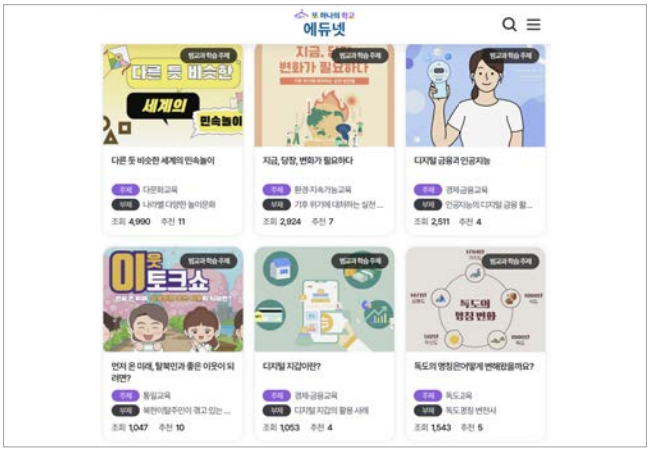
- **Legal Basis**

  - Edunet has continuously pursued systematic improvements and innovation. This includes conducting regular user satisfaction surveys and implementing service enhancements based on survey findings to better reflect user needs.

  - Edunet has transitioned to a cloud-based service infrastructure to improve scalability, stability, and operational efficiency.

  - The platform actively promotes interoperability by strengthening linkages with other educational portals and related services, thereby expanding access to learning resources and maximizing overall educational impact.

Visuals / Screenshots



Access & Demo Information www.edunet.net

Private *Professional Development Content*

Tekville Education Inc. South Korea's leading teacher professional development EdTech company, officially accredited by the Korean Ministry of Education and the largest provider of online teacher training nationwide. Founded in 2001 and headquartered in Seoul, Tekville Education employs approximately 150 professionals and has supported South Korea's public education system for over two decades.

Teacherville

A cloud-based national CPD (Continuing Professional Development) platform for K–12 teachers, delivering government-accredited professional development through structured remote training, competency-based LMS programs, and real-time interactive sessions for both institutional and individual use. K-12

Main Features

- **Skill-Based Professional Roadmaps**
  Delivers AI-supported, personalized CPD roadmaps aligned with nationally required teacher competencies, enabling teachers to systematically build skills while significantly reducing individual planning workloads.
- **Remote Teaching Training & Peer Collaboration**
  Provides large-scale, structured remote teacher training combined with collaborative learning environments, focusing on immediately applicable competencies.
- **Competency-Based, Classroom-Ready Course Design**
  All programs are organized around up-to-date core competencies, including AI literacy, instructional design, assessment innovation, SEL, and inclusive education, to ensure direct classroom application.
- **Integrated Teacher Ecosystem**
  Seamlessly connects with Chathess (AI teaching assistant), Ssamdongne (teacher knowledge community), and MyCl AI, enabling teachers to translate training outcomes into real classroom practice.
- **Comprehensive Teacher Competency Dashboard**
  Offers a unified dashboard that visualizes individual and organizational-level teacher competency growth, participation, and learning outcomes, supporting evidence-based CPD planning for schools and education administrators.

Educational Impact

Strengthens the digital and instructional competencies of teachers while reducing administrative workload through structured PD programs, skill-based roadmaps, and seamless EdTech integration.

7.5 / 8.0	7.5 / 8.0
Course Satisfaction[20]	**Institutional Satisfaction**[21]
Consistently high satisfaction across regular, special, and interactive remote courses, reflecting high quality and relevance.	Training institutions' strong satisfaction, highlighting the platform's operational reliability, quality management, and trusted service delivery.

- **Validation & Certification**
  - Market Leadership
    Korea's No.1 online teacher training provider, delivering government-accredited CPD to ~40% of the national K–12 workforce annually.
  - Government Accreditation & Awards
    Accredited by the Korean Ministry of Education for 24 consecutive years; KERIS Excellent Institution (9 consecutive selections); recipient of the Minister of Education Prize (4 times).
  - National-Scale Delivery
    Designated national provider of the T.O.U.C.H Digital Innovation Teacher Program (1st-2nd cohorts) and delivers large-scale CPD for Metropolitan and Provincial Offices of Education (MPOEs), serving 50,000+ participants annually.
  - Global Industry Partnerships
    Co-develops teachers CPD programs with global technology leaders (Microsoft, Google, Apple, Samsung, KT), integrating AI and digital pedagogy in public education
- **Equity, inclusion, and safeguards**
  - Equitable Access
    Fully online, remote, and hybrid CPD ensures nationwide access regardless of region or device.
  - Inclusive Design
    Learning design aligned with national competency frameworks and inclusive education principles.
  - Data Protection
    ISMS-certified with rigorous data protection and privacy controls.
  - Professional Communities
    sustained teacher growth through national communities (Chathess, Ssamdongne, MyCl) supporting peer learning beyond formal CPD.

20 TeacherVille internal administrative records and consolidated satisfaction survey results (2023–2024), compiled as part of annual performance monitoring.
21 TeacherVille internal administrative records and consolidated satisfaction survey results (2023–2024), compiled as part of annual performance monitoring

Use in Educational Settings

- Domestic deployment

Teacherville operates a nationwide remote teacher training platform supporting standardized professional development across all 17 Metropolitan and Provincial Offices of Education (MPOEs), delivering integrate CPD through remote training, live online sessions, offline workshops, and customized consulting at school and district levels.

- International Policy Collaboration

Teacherville leads a policy-oriented education cooperation program in Kazakhstan with Global Sapa, NIS Medeu Almaty Digital College, and five local universities, delivering a 60-hour AI- and digital-based education innovation program for secondary and higher education leaders through December 2026. Covering curriculum design, platform-based delivery, instruction, and contextual consulting, the program demonstrates the international applicability of South Korea's public-sector teacher professional development model.

Implementation & Localization

- **Technical Requirements**

- Platform & Access

A primarily web-based platform accessible across major operating systems and devices (PCs, tablets, and smartphones), with an Android app supporting flexible nationwide teacher access.

- Connectivity

Fully online professional development with remote training and real-time interactive sessions; learning is automatically saved and synchronized across devices.

- Security

Secured by ISMS-certified information security management with encrypted data transmission, access control, and secure system operations.

- **Language & Localization Readiness**

- Localization

Designed for South Korea's public education system, supporting localization aligned with national curricula, teacher competency frameworks, policy priorities, and language requirements.

- Curriculum Adaptability

Modular training programs aligned with national standards (AI literacy, digital pedagogy, assessment innovation, inclusive education) and adaptable to other education systems.

- **Partnership & Delivery Model**

- Partnership Type

Operates across B2G (Ministry of Education and Offices of Education), B2B (schools and institutions), and B2C (individual teachers) models, with extensive experience in government-commissioned and entrusted training projects.

- Delivery Type

Centrally managed cloud-based platform combining remote training, live interactive online sessions, and offline workshops, without on-site installation requirements.

- Implementation & Licensing

Programs can launch immediately upon approval; large-scale commissioned projects are typically implemented within 3-6 months, with pricing structured to meet public-sector contracting requirements.

- **Training & Capacity Building**

- Training Format

Professional development delivered through remote courses, live interactive online sessions, and offline workshops, supported by standardized materials and guidelines.

- Program Flexibility

Training durations range from 2 to 60 hours, and are aligned with teacher needs, school priorities, and education authority initiatives.

- Operational Quality

Programs are operated by dedicated professional teams with systematic quality management, learner feedback analysis, and continuous program improvement.

Sustainability & Scalability

- **Maintenance & Support**

Maintained through centralized cloud-based operations with regular updates, and ISMS-certified security, and remote technical support ensure stable international deployment.

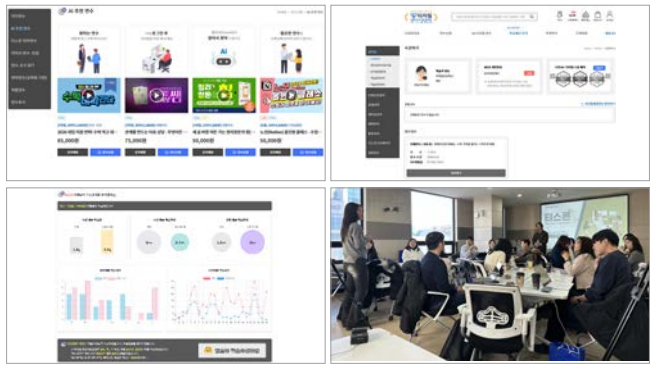
- **Long-term Partnership & Capacity Plan**

Supports sustainable program delivery and capacity building in collaboration with local and institutional partners.

- **Expansion Strategy**

Modular course design and standardized content frameworks enable efficient scaling across various regions and contexts.

Visuals / Screenshots



Access & Demo Information www.teacherville.co.kr

Public *Foundational Learning*

EBS (Korea Educational Broadcasting System) Established in 1974, EBS has remained South Korea's leading public educational broadcaster, dedicated to advancing educational broadcasting and lifelong learning. By leveraging new media and digital platforms, EBS delivers diverse educational services and is widely recognized for its leadership in e-Learning and high-quality educational content production.

EBSi

A leading online platform in South Korea for CSAT (College Scholastic Ability Test) preparation, offering courses based on EBS textbooks and taught by experienced teachers. In alignment with national policy, a portion of the CSAT is linked to EBS textbooks, reinforcing the platform's role in public exam preparation. The platform provides customized courses by subject and level, supported by an integrated learning system that includes a comprehensive question bank, diagnostic assessments, and major mock exams. It also offers admissions guidance through collaboration with educational institutions. K-12 (Secondary)

Main Features

- **AI-Powered Personalized Learning**
  Analyzes student performance to recommend tailored questions, courses, and explanations. Supports self-directed learning through custom test creation, AI chatbot coaching, and instant problem-solving via image upload, photo capture, or question code input.
- **Level-Based Customized Learning**
  Offers a library of 161,000+ lectures across different levels, supporting CSAT preparation, school exams, and subject mastery.
- **Post-Exam Analytics & Review**
  Enables structured performance review after national and mock exams, offering explanatory lectures, score benchmarks, common-error analyses, and detailed performance reports.
- **Admissions & Essay Support**
  Provides structured essay courses from foundational to advanced levels, weekly practice topics with personalized feedback, college application guidance, and career counseling.
- **Teacher Support Resources**
  Delivers digital textbooks, past exam questions, instructional materials, and multimedia content to enhance lesson planning and classroom outcomes.

Educational & Administrative Impact

Enhances educational effectiveness by providing high-quality learning content as a public service, complementing classroom instruction, and helping reduce learning gaps.

69.2%
Contribution to Public Education[22]
The majority of students perceived the platform as effectively complementing formal public education

86.4%
Classroom Integration[23]
Teachers reported high usability and applicability of the platform in daily classroom activities.

90%
CSAT Preparation Effectiveness[24]
Both teachers and parents recognized EBS high school lectures as highly effective in preparing for CSAT.

92.5%
Academic Performance Impact[25]
Teachers evaluated EBS high school lectures as improving overall student academic performance.

- **Validation & Certification**
  - National Utilization
    89% of students and 95% of teachers in South Korea reported using EBS high school lecture textbooks (EBS, 2025).
  - Policy Impact on Private Education Costs
    25.7% of respondents in national survey identified the EBS-CSAT linkage policy as the most effective measure for reducing private education expenses, followed by EBS lectures (14.6%) (KEDI, 2021).
  - High User Satisfaction
    Over 97% of students and 96% of teachers expressed satisfaction with EBS video lectures (EBS, 2024).
  - 2015
    Signed a broadcasting cooperation MOU with Chile's national broadcaster to share EBS's experience in operating an education and culture channel.
- **Equity, inclusion, and safeguards**
  - Follows an inclusive-by-design principle, supporting students from low-income or marginalized backgrounds by:
    1. Providing targeted admissions guidance, and including special pathways for rural and remote areas.
    2. Ensuring accessibility through subtitles for major courses (10,028 subtitles delivered in 2022).

22 2025 EBS High School Lectures and Textbooks Satisfaction Survey Report
23 2025 EBS High School Lectures and Textbooks Satisfaction Survey Report
24 2025 EBS High School Lectures and Textbooks Satisfaction Survey Report
25 2025 EBS High School Lectures and Textbooks Satisfaction Survey Report

❸ Distributing free national exam-linked learning materials to enhance equity (156,418 copies to 38,422 students).

Use in Educational Settings

EBSi provides a structured, sequential curriculum that guides students from foundational concept learning to intensive exam practice through staged learning modules, including Concept Learning, Focused Exercises, Comprehensive Review, and Mock Exams.

The platform integrates built-in diagnostic tools to identify individual learning gaps and benchmark performance against peer averages, enabling targeted improvement. Additional features such as problem search, downloadable mock exams, and customized test generation support intensive, personalized preparation, whether independently or with instructional guidance.

Policy & Institutional Foundations

- **Legal Basis**

- Korea Educational Broadcasting Corporation Act

Establishes the Korea Educational Broadcasting System (EBS) as a public educational broadcaster to support school education, promote lifelong learning, and contribute to the development of democratic education.

- **Governance Structure**

- MOE

Sets policies and standards, and provides governance oversight.

- EBS

Develops and provides educational content.

- Schools

Utilize EBSi contents for classroom instruction and learning activities.

Implementation & Localization

- **Institutional & Operational Requirements**

- National educational broadcasting policy.
- Long-term public funding for content and broadcasting.
- Training programs for educational broadcasting, content production, and broadcast technology.
- National educational broadcaster or public broadcasting channel.

- **Phased Adoption Approach**

① Legal and Policy Framework

Establishes a legal basis for educational broadcasting and ensures alignment with national education policies and curriculum.

② Content Adoption and Localization

Selects and adapts EBS content based on the national curriculum and local learner levels; initial use may rely on existing EBS content without local production.

③ Selection of Broadcasting Model

Establishes a dedicated national educational channel or utilizes an existing broadcaster's channel, implementing it in phases as needed.

④ School Utilization and Teacher Support

Provides teacher guidelines and training, and develops instructional models integrated with classroom teaching.

⑤ Phased Expansion and Sustainable Operation

After pilots, expands regionally and nationally, establishing mid- to long-term plans based on results.

- **Technical Requirements**

- Network Requirements

Accessible via PCs, mobile web, and the EBSi app, operating on standard internet networks with download options for flexible access.

- Hardware Requirements

Standard PCs or laptops and centrally managed secure servers, leveraging existing school or home LAN/Wi-Fi infrastructure.

- Software Requirements

Web-based interface compatible with standard browsers, featuring secure authentication, national SSO compatibility, and role-based access control.

- Security & Data Protection

Protects user data through encrypted credentials, secure data transmission, and regularly updated privacy policies to ensure regulatory compliance.

Sustainability & Scalability

EBSi is a nationally scalable, publicly funded platform integrating AI-driven learning within South Korea's established educational broadcasting model, supporting sustainable domestic and global education initiatives.

Visuals / Screenshots

Information https://www.ebsi.co.kr/ebs/pot/poti/main.ebs

Private | *Foundational Learning*

Chunjae Education Inc. Originally established in 1981 as a textbook publishing company, it has since evolved into a K–12 EdTech company headquartered in Seoul, providing curriculum-aligned digital learning solutions with approximately 2,000 employees.

Chunjae AIDT

An AI-powered generative and interactive learning platform transforming the teaching and learning of English, Mathematics, and Computer Science in the classroom. K-12

Main Features

- **AI Chatbot**
  An AI agent chatbot system was adopted to answer students' questions such as English translation and a scenario-based, dialogue-driven math problem-solving experience.
- **AI Generative Assessment Items**
  Based on student's performance, AI generates test items aligned to targeted difficulty levels and learning outcomes.
- **Teacher-student Communication Tools**
  Real-time monitoring of student learning progress with simultaneous scoring and feedback.
- **Data Security & Privacy Protection**
  Ensures secure management and protection of student learning data in compliance with privacy standards.

Educational Impact

Enhances student engagement in the learning process through AI-generated test items and drills supported by interactive learning content.

+ 59 minutes

Increased Learning Time[26]

Average daily study time for primary school students increasedfrom 64 to 123 minutes.

89% in Math, 57% in English
(6,052 Schools)

No.1 Market Share[27]

58% of primary schools adopted Chunjae AIDT

+19.7 points

Academic Achievement[28]

Average student mathematics scores improved

94%

Student Satisfaction[29]

AI customized interactive learning activities

- **Validation & Certification**
  - Chunjae Education exported 150,532 USD as content license and copyright to Mexico, China and Turkey.
  - Chunjae AIDT includes in-class activities designed to increase student engagement and improve instructional efficiency by 15 teachers (Eun et al., 2025; Kim, 2025).
  - Backed by 11 AI-related patents, including 'An Early Childhood Learning System Using Handwriting Recognition (10-2344144)', 'A Chatbot System for Inducing Learning (10-2510998)', and 'AI Smart Coaching (10-2463077)', all of which are implemented in the AIDT system.
- **Equity, inclusion, and safeguards**
  - It complies with global data-privacy standards (ISO 27001, GDPR, COPPA) and supports multilingual and accessible use aligned with SDG 4.

Use in Educational Settings

Teachers check the emotional state each student and their learning readiness through the AIDT dashboard. Students begin with an AI-based diagnostic assessment, which is automatically scored by AI, and receive personalized learning content recommended by the system.

The teacher then opens an animated unit video on 'right triangles.' Throughout the lesson, learning progress is monitored in real-time via the teacher dashboard. During the practice session, students draw right triangles using a ruler and protractor directly within the AIDT.

Each student submits their drawing, and the teacher sends encouraging messages along with points. Students use the earned points to customize their avatars and virtual rooms.

After completing the lesson, all students participate in a gamified drill activity on right triangles.

26 Chunjae Education (2024). MilkT internal report of learning log data.
27 National Assembly Education Committee (2025). AIDT Publishers with the Largest Market Share.
28 Chunjae Education (2022). MilkT internal report of formative assessment result in the 5th grade math.
29 Chunjae Education (2022). MilkT internal report of customer stratification survey.

Implementation & Localization

- **Technical Requirements**

  - Device & Platform

    Web-based and compatible with major OSs (Windows, macOS, ChromeOS) and devices (PCs and tablets).

  - Connectivity & Network

    Online use, optimized for low-bandwidth environments (≥5 Mbps recommended) with local data sync and cloud backup.

  - Security

    End-to-end SSL encryption, certified hosting, and automatic data redundancy.

- **Language & Localization Readiness**

  - Platform & Interface

    UI translations available in 5 languages (English, Chinese, Korean, Japanese, and Vietnamese).

  - Curriculum & AI Language Support

    Lesson libraries for English, Mathematics, and Computer Science can be localized into five languages; Spanish language packs can be added where required.

- **Partnership & Delivery Model**

  - AI Education related MOUs

    MOUs made with Kathmandu University, National Private and Boarding School's Association and Shivam Overseas in Nepal.

  - Partnership Type

    B2G (ministries/national programs) and B2B (districts or private-school consortia), often in collaboration with local partners and system integrators.

  - Delivery Type

    Cloud-based SaaS, on-premise installation, offline platform model, or hardware-integrated delivery (PCs, laptops, and tablets).

  - Pilot Test

    A two-week pilot is available for one unit each in English and Math, including a two-day teacher workshop for classroom use.

  - Pricing & Licensing:

    - **Annual license**

      Approximately USD 30 per student / year (multi-subject and multi-year discounts available).

    - **Institutional subscription**

      Varies by region and is negotiated per school. Options include content + platform bundles, content-only, or platform-only. Pricing includes setup, technical support, and initial teacher training.

- **Training & Capacity Building**

  - Delivered via on-site workshops, live online sessions, and self-paced tutorials, supported by user manuals.

  - A standard 16-hour training program ensures teachers can operate and integrate the platform effectively.

  - Delivered by certified trainers and local partners, with continuous online helpdesk support and periodic update sessions.

Sustainability & Scalability

- **Maintenance & Support**

  - Device & Platform

    Chunjae AIDT operates a continuous improvement cycle with biannual updates and centralized cloud maintenance. Data protection complies with ISO 27001 and South Korean privacy standards (PIPA), with simultaneous online support available for all institutional partners.

  - Long-term Partnership & Capacity Plan

    Chunjae AIDT strengthens literacy and numeracy by reducing foundational learning gaps and the digital divide between urban and rural students.

  - Expansion Strategy

    Chunjae AIDT targets phased release in the LAC region, aiming for deployment in three countries by 2027, leveraging Spanish-localized content and networks with local education ministries and EdTech associations for scalable adoption.

Visuals / Screenshots

Access & Demo Information https://display.aitextbook.co.kr/txb

Private *Foundational Learning*

CT Corp. A dominant AI-based learning platform provider for South Korea's public K–12 education system, with 40% market adoption, 4,600+ schools, and 790,000+ users, headquartered in Seoul.

Cognity

A comprehensive AI LXP that integrates a Personalized LMS for adaptive assessment & learning, a Gen-AI Sandbox with safety guardrails where students learn to collaborate with LLMs, and a Rubric-based AI Grading Tool for streamlining descriptive assessments. K-12

Main Features

- **Cognity Learn: AI-Driven Mastery Learning**
  Cognity Learn implements true mastery learning through hyper-personalization, powered by a proprietary Knowledge Tracing engine with a world-class AUC of 91.5% (surpassing the global benchmark of 84%). It identifies learning gaps with as few as six questions to minimize assessment fatigue, while the integrated AI Tutor provides safe, curriculum-aligned guidance using RAG technology and robust safety guardrails.
- **Cognity Sandbox: Safe Environment for AI Literacy**
  Designed to cultivate AI literacy, Cognity Sandbox offers a constructivist environment where students safely collaborate with LLMs. It ensures a secure classroom experience through a double-layer safety mechanism, combining model-level guardrails and a teacher-controlled UX, preventing hallucinations and exposure to harmful content while fostering inquiry skills.
- **Cognity Writing: Automated Formative Assessment**
  Cognity Writing streamlines formative assessment by automating the grading of essay-based assignments using a Gen-AI engine aligned with standardized educational rubrics. This drastically reduces administrative workload for teachers while providing students with instant, objective, and detailed feedback to iteratively improve their writing proficiency.
- **Other Features**
  Cognity also provides an AI Content studio, a Large-scale CBT/CAT exam platform, and an AI-powered Exam prep service for students

Educational Impact

Cognity empowers teachers to adopt AI in classrooms while reducing the overall workload. Students report to have strengthened meta-cognition and motivation which also results in improved basic academic skills and engagement.

85.2% (+22p)
Test Scores[30]
Math scores in the 8th grade rose by on avg. by 8.6%.

+26 min.
Voluntary Learning Time[31]
Students showed an increase of 26 min. of avg. voluntary learning time.

83%
Basic Skills Pass Rate[32]
With AI-driven personalized practice and real-time tracking, Cho-il High's foundational math pass rate reached up to about 2× the regional avg (48% to 83%).

38%▲
in Affective Domain[33]
The share of students at mid–high levels increased from 45% to 62%, reflecting gains in motivation, confidence, study habits, and overall learning attitudes.

- **Validation & Certification**
  - Dominant market leader in South Korea with 4,600+ schools and 790,000+ users.
  - National Accreditation for AI Digital Textbook (KMOE, 2024).
  - Awarded as the best K-EdTech by the Minister of Education (Grand Prize, 2024).
  - Successfully passed the EdTech pilot which includes programmes /Testbed trials conducted by 5 Metropolitan and Provincial Offices of Education (Gyeonggi-do, Chungcheongbuk-do, Gwangju, Jeollabuk-do, Chungcheongnam-do) and KERIS.
  - Certified with GS Grade 1 by the Ministry of Science and ICT (MSIT).
  - Compliant with South Korean privacy standards (PIPA), Cloud Security Assurance Program (CSAP) which aligns with the ISO 27001 standard.
  - The Cognity Engine received third-party validation from KAIC, achieving an accuracy of 91.5%.
- **Equity, inclusion, and safeguards**
  - Designed to support content that complies with UDL (Universal Design for Learning) guidelines.
  - Supports multilingual browser translation across the entire service and CMS for diverse language users.
  - Provides child and learner protection through RAG-based contextual grounding and robust LLM moderation safeguards.

30 Study from Gyeonggi Wondang Middle School
31 Study from Daegu Dongmun Elementary School
32 Interview from Cho-il High School (Vocational)
33 Internal Interviews with teachers by CT Corp

Use in Educational Settings

At Seoul's Jungkwang Elementary School, teachers faced a critical challenge where one-third of the class fell below basic academic standards. By utilizing Cognity's AI diagnosis to assign personalized remedial tasks, the school not only fully resolved the underachievement issue but also achieved an 11% increase in average scores, effectively leveling the playing field for all students.

In high schools, Cognity successfully re-engaged learners who had nearly given up. Daegu Joil High School used the platform to support 30 underachievers in mathematics. Through AI-driven personalized curriculums tailored to their levels, these students achieved a basic competency pass rate of 33%, three times higher than the city average of 10%. It is also used in global settings, more than 45 countries including Colombia, Taiwan, Japan, and the United States.

Implementation & Localization

- **Technical Requirements**

- Device & Platform

A web-based platform with responsive screens for multi-devices (PCs, tablets, smartphones). Fully compatible with major OSs (Windows, macOS, ChromeOS).

- Connectivity & Network

Real-time Adaptive learning is intended to be used primarily online. Some features (textbook) can be used offline with resumable learning processes. Supports low-bandwidth environments (≥10 Mbps recommended).

- Integration

Standard SSO protocols are fully supported.

- Security

End-to-end SSL encryption, ISO 27001 certified hosting for SaaS. Clients can also select global standard CSP for on-premise option. Automatic data redundancy is an optional add-on.

- **Language & Localization Readiness**

- Platform & Interface

Translated UI available in 6 languages (English, Spanish, Korean, Vietnamese, Traditional Chinese) with browser translation optimization (all languages supported).

- Local curriculum & AI Language Support

Curricula can be uploaded in the client's desired language

- **Partnership & Delivery Model**

- Partnership model

Offers multiple models, including white-label licensing, solution integration, joint business collaboration, and SaaS, tailored to different client needs.

- Delivery

Users can experience flexibility across on-site, cloud-based, and SaaS models, enabling anything from instant deployment to fully customizable phased implementation.

- Pricing & Licensing

PoC costs can be waivered through Minimum Guarantee policies. Volume and multi-year discounts are available.

Product	Description	License	Note
Learn	Comprehensive Learning Experience Platform including AI LMS, LLMs, Tutor	USD 36	per student, per year, 1 subject+ USD 1 per additional subject
Exam	CAT& CBT Testing Platforms with admin-side and student-side features & reports	USD 24	per student, per year, 1 subject+ USD 1 per additional subject
Prep	AI-powered Test Prep product for students with AI diagnostics and tutor	USD 10	per student, per month, 1 subject+ USD 5 per additional subject
Engine	Diagnostic engine of learning gaps with few questions with global top accuracy in Knowledge Tracing	USD 12	per student, per year, per subject
Tutor	RAG-based AI Tutor that has the Knowledge Tracing capabilities for maximum alignment	USD 12	per student, per year approx. 200 activities per month

- Training & Capacity Building

Initial live online sessions for admin and self-paced tutorials (VOD) of a max. 3 hours of training. Printable user manuals, online helpdesk, and update sessions are supported.

Sustainability & Scalability

- **Maintenance & Support**

White-label platforms are continuously maintained and updated in alignment with client's business cycles, with institutional partners receiving dedicated technical support through open communication channels.

- **Long-term Partnership & Capacity Plan**

Through its U.S. subsidiary, Cognity ensures stable long-term operations across the Americas, delivering services either directly to institutions or via local content and platform partners to strengthen regional continuity.

- **Expansion Strategy**

Expansion focuses on Spanish-language support and localized curriculum alignment, scaling across the LAC region based on pilot results and evidence-driven validation in each target market.

Visuals / Screenshots

Cognity Learn

Cognity Sandbox

Cognity Prep

Access & Demo Information www.cognity.it

Private | *Foundational Learning*

Enuma An AI-powered EdTech company founded in 2012, dedicated to building high-quality digital learning products, such as the Todo Series and Enuma School, that support foundational skills development at scale. Enuma has also developed officially accredited AI digital textbooks under South Korea's national AI textbook initiative.

ENUMA SCHOOL LMS

A personalized adaptive learning application that offers an inclusive scaffolded curriculum with thousands of engaging activities designed to help children develop foundational literacy and numeracy skills at their own pace, even in under-resourced or nontraditional educational settings. K-12 (Primary)

Main Features

A comprehensive, expert-crafted Local Math and English curriculum, along with local-language literacy where applicable, covering Pre-K to Primary level, featuring thousands of engaging, interactive, and gamified activities, hundreds of books, and videos that can support sustained learning for over two years of regular use.

- Adaptive learning path
  Children can learn at their own pace, following carefully designed learning paths, with placement test and in-app assessments (quizzes).
- Localized educational content
  Provides home-language learning support by offering videos that explain foundational concepts in English and mathematics in each child's native language (e.g., Spanish), helping learners who are new to English adapt quickly and build confidence.
- Research- and standards-based curriculum
  Grounded in leading EFL research and aligned with U.S. Common Core and WIDA Standards to build reading, writing, listening, and speaking skills.
- Tightly scaffolded curriculum with engaging activities
  Offers thousands of learning games, hundreds of books and videos tailored to individual learning levels.

Educational Impact

Enuma aims to improve foundational learning outcomes and enhance instructional capacities for digital education.

3-7 times
Learning Gains[34]
Children achieved 3–7 times greater learning gains in literacy and numeracy compared to the control group.

▲20%
Improvement in School-Based Assessment[35]
# of students passing basic literacy and numeracy levels in Malaysia.

22% to 2%
Reduction in Non-Readers[36]
# of non-readers decreased in the Philippines.

77%
Usability[37]
Teachers found it easy to use in classrooms.

- **Partnerships & Awards**
  - 2024 ***National Accreditation (South Korea)***
    Certified AI Digital Textbooks in Math and English.
  - 2023 ***IDB (Nicaragua)***
    Selected as a consulting partner for an IDB research project (2024–2026).
  - 2021 ***KOICA***
    Partner for the Inclusive Business Solution Program, Indonesia digital learning expansion (2022–2026).
  - 2020 ***UNESCO***
    Recognized as an Innovative Solution at UNESCO Mobile Learning Week (HQ).
  - 2020 ***UN STI Forum***
    Named Solution of the Year.
  - 2019 ***Global Learning XPRIZE***
    Co-winner (XPRIZE Foundation; supported by Elon Musk).
- **Equity, inclusion, and safeguards**
  Enuma School fully integrates Universal Design for Learning (UDL) principles to promote inclusiveness and accessibility for learners with diverse backgrounds and needs.

Implementation & Localization

- **Technical Requirements**
  Android-based app compatible with tablets, smartphones, and Chromebooks; works fully offline after installation with minimal internet required only for LMS syncing. LMS accessible via standard browsers (Chrome, Safari, Microsoft Edge).
- **Language & Localization Readiness**
  - Spanish Edition for LAC
    For Latin America and Caribbean countries, Enuma School provides a Spanish-language edition offering home-language support for foundational concepts in English and mathematics.

34 Results from 15-month RCT (2017 - 2019) in Tanzania, involving 2,700 out-of-school children, measuring the learning impact of Kitkit School (prequel to Enuma School).
35 Results from a quarterly school-based assessment (May - August 2022) conducted in a public primary school in KL Malaysia, targeting 130 students in grades 1 and 2.
36 Results from a 2.5-year learning recovery project (Mar 2021 - Dec 2023) in Santa Rita, the Philippines, involving 500 students.
37 Results from a 3-month study (Sep - Nov 2023) conducted by a local research institute (LPPSDM Bina Putera Utama), involving 57 school teachers and targeting 468 learners between the ages of 5-9, across 18 schools in Indonesia.

Use in Educational Settings

In Malaysia's national Program Anak Kita initiative, the Enuma School platform supports over 12,000 remedial learners across 350 schools in Sabah and Sarawak, improving access to foundational literacy and numeracy education in remote communities.

Each participating school or community learning center operates a Literacy Lab equipped with around 20 tablets running the Sekolah Enuma App, serving 20–100 remedial or special needs learners aged 6–12 under the guidance of dedicated teachers.

Schools utilize flexible implementation models, using existing class hours or offering before/after-school learning sessions, allowing students to progress through the remedial program until they reach sufficient readiness to rejoin regular classes.

- Multilingual Versions available

Global, Indonesian, and Malaysian editions are currently available. Additional localized versions can be developed based on partner needs.

- **Partnership & Delivery Model**

- Partnership Type

B2G (ministry/national projects), B2B (districts or schools), and B2C (teacher or student subscriptions) models are available in collaboration with NGOs and international development partners.

- Delivery Type

Hybrid / Offline models (cloud + downloadable content packages are available for low-connectivity settings). Hardware-integrated delivery (bundled tablets, smartboards, or AI devices with preloaded software).

- Implementation Timeline

· **App installation**: 1 day
· **Teacher training & preparation**: 2–4 weeks
· **Recommended usage period**: ≥ 12 weeks

- Pricing & Licensing

Flexible annual licensing based on deployment size (individual to regional). Small projects (<100 users) are priced at USD 25–50 per user/year, with discounted rates for larger implementations; school/district deployments may use per-school or project-based unlimited access pricing, and permanent licenses are available upon request.

- **Training & Capacity Building**

- Tailored onsite or online workshops (2–10 hours) for government officials and educators, supported by implementation guides and curriculum manuals, plus ongoing online helpdesk support and refresher sessions delivered with local partners.

Sustainability & Scalability

- **Partnership & Public System Integration**

Enuma School integrates smoothly with national education systems, enabling governments to strengthen foundational learning in math, English, and native languages. It has supported out-of-school reintegration (Pakistan), reduced learning gaps for marginalized students (Malaysia, Philippines), and enhanced public education quality where teacher capacity and infrastructure are limited (Indonesia).

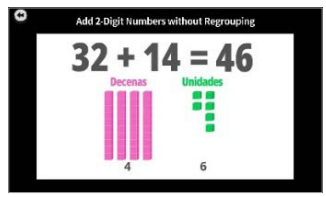
- **Expansion Strategy**

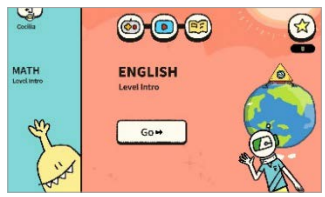
Enuma is building partnerships with ministries, NGOs, and local authorities across the LAC region, including ongoing collaborations with countries such as Nicaragua and Panama, to enable scalable deployment of the Spanish edition and support national foundational learning initiatives. By 2027, Enuma plans to launch a fully localized Spanish version, enabling large-scale and sustainable adoption across LAC education systems.

- **Maintenance & Support**

The Enuma School platform provides 24/7 local-partner support, complemented by technical assistance, troubleshooting, and operational support from Enuma's headquarters teams in South Korea.

Visuals / Screenshots





Access & Demo Information https://enumaschool.com/

Private | *Foundational Learning*

I HATE FLYING BUGS Inc. A leading EdTech company in South Korea with cumulative funding of USD 66 million, delivering AX/DX in public education through a K–12 digital learning operations platform.

EPaaS & AI Digital Textbook

EPaaS (Education Platform as a Service) is an AI-powered learning operations platform that digitizes the full education lifecycle into a single data loop. AI Digital Textbook (AIDT) is a public-education, LMS-based learning product built on this platform, supporting all major K–12 subjects, including language and mathematics. K-12

Main Features

- **LMS**
  Teachers can synchronize devices, lock student screens, and monitor access and learning progress in real-time to maintain lesson flow and focus.
- **CMS**
  Digitally structures curricular content, enabling teachers to design, edit, and distribute lessons using questions, media, and external EdTech tools.
- **TMS**
  Uses class- and student-level data on progress, completion, and accuracy to support instructional management and provides guidance for when and how teachers should intervene.
- **Real-time AI Learning Analytics**
  Collects and analyzes learning activity data in real-time, enabling AI-driven insights for evidence-based, timely teacher intervention.
- **EMIS**
  Centrally manages key indicators such as attendance, progress, completion, and device issues across schools and regions for real-time system oversight.

Educational Impact

EPaaS-based AIDT in El Salvador's public schools showed pre–post learning gains and outperformed schools using competing LXP platforms in Language and Mathematics education (NCI Medium, NEES).

+9.4 CAF scale points
Language (All grades, CAF-based)

+6.7 CAF scale points
Mathematics (All grades, CAF-based)

+20.92 NCI scale points
Language Outcome vs Competing Groups (Grades 4–6, NEES)

+22.25 NCI scale points
Mathematics Outcome vs Competing Groups (Grades 4–6, NEES)

- **Validation & Certification**
  - **South Korea**
    Enuma School fully integrates Universal Design for Learning (UDL) principles to promote inclusiveness and accessibility for learners with diverse backgrounds and needs.
  - EPaaS-based AIDT Development with 5 of South Korea's Top 10 Textbook Publishers (50%).
  - Highest Number of AIDT Certifications in South Korea – 45 titles certified, the largest nationwide.
  - Adopted by 130+ Schools in South Korea (2025)
  - Deployed in 200+ Public Schools in El Salvador – Expansion planned to 700 schools by 2026 and 2,500 schools by 2028.
  - Quality, Security, and Accessibility Frameworks – Compliant with ISO/IEC 25010, ISO 9001, CSAP, and WCAG 2.1 AA.
- **Equity, inclusion, and safeguards**
  This solution ensures equitable access by preventing device and network gaps from becoming learning gaps, applies UDL-based inclusive design compliant with WCAG 2.1 AA, and maintains privacy, data integrity, and quality through certified operational controls (CSAP, ISO/IEC 25010).

Use in Educational Settings

The El Salvador case study shows that standardizing instructional operations on a digital platform improves classroom execution and learning outcomes. Early rollout revealed pre-lesson bottlenecks: roster–account mismatches reduced first-day login success to 1.2% (7 of 588 students), and attendance gaps prevented lessons from being recorded. After the DATA HUB–based roster reconciliation and daily attendance monitoring were employed, unchecked attendance fell from 290 to 6, enabling reliable daily starts. Once delivery stabilized, the main bottleneck shifted to teachers' execution routines. A minimum lesson routine, LMS screen synchronization/ locking, real-time student list checks, and attendance confirmation, was standardized, with weekly reviews for classes showing ±5 lesson deviations or completion/ accuracy below 70–80%. As a result, schools with standardized operational support achieved a completion rate of 84.45%, versus 8.58% in connection-only schools, followed by the AIDT pre–post gains of +9.4 points in Language and +6.7 points in Mathematics.

Implementation & Localization

- **Technical Requirements**
  - **Device & Platform**
    Browser-based SaaS supporting PCs, tablets, and smartphones

across major operating systems, with real-time device lifecycle management.

- Connectivity & Network

Optimized for low-bandwidth environments, supporting PDF/print and screen-sharing alternatives with real-time classroom network monitoring.

- Integration

Real-time DATA HUB integration with national student information systems and embedded external tools such as Padlet and Google Slides.

- Security

Cloud infrastructure meets public-education security standards, with role-based access control and automated backups to ensure data security and operational stability.

- **Language & Localization Readiness**

- Platform & Interface

Globally scalable architecture: A multilingual platform was designed to quickly support multiple languages and localized content.

- Curriculum & AI Language Support

Digital content is aligned with the adopting country's national curriculum and standard pedagogical models, incorporates localized cultural elements beyond simple translation, and leverages AI agents based on the latest LLMs to automatically generate curriculum-aligned questions.

- **Partnership & Delivery Model**

- Partnership Type

(B2G) National-level education innovation is supported through government-led partnerships, with project stability ensured by an operations hub that enables collaboration between dispatched South Korean staff and locally hired facilitators.

- Delivery Type

EPaaS is a cloud-based SaaS that digitizes end-to-end education processes, spanning CMS, TMS, LMS, and analytics, delivered as an integrated DX/AX package that includes content localization, teacher training, school Wi-Fi deployment, and device procurement beyond software alone

- Implementation Timeline

For nationwide deployment, approximately 24 weeks of intensive support are required: Phase 0 (Weeks 1–4) covers orientation through a standard 5-day rollout; Phase 1 (Weeks 5–24) stabilizes classroom routines and improves instructional quality using data; and Phase 2 (after Week 24) enables school-led digital instruction with reduced external support.

- Pricing & Licensing

Fixed-budget contracts during initial setup and localization, transitioning to annual per-student subscriptions once stabilized.

- **Training & Capacity Building**

- Role-based support model

Facilitators stabilize classroom routines; tutors provide data-driven instructional intervention which includes 3-10 hours of training to ensure teachers can operate and integrate the platform effectively.

- SOP-driven training

Standardized lesson preparation, execution, monitoring, and intervention are carried out to ensure consistent classroom quality.

- Training assets

Manuals, videos, and online resources support on-demand, ongoing teacher learning.

- Data-driven governance

Dashboards enable administrators to monitor operations and respond quickly to issues.

- Phased transition to autonomy

Intensive support in Phase 0–1, followed by reduced staffing and school-led operation in Phase 2.

Sustainability & Scalability

- **Maintenance & Support**

Focuses on operational continuity, scalability, and financial sustainability in public education by prioritizing efficiency over content or staffing expansion. Through cloud-based updates, automated monitoring, DATA HUB–based synchronization, and standardized operations, disruptions and costs are reduced while enabling reinvestment in teacher support and instructional quality.

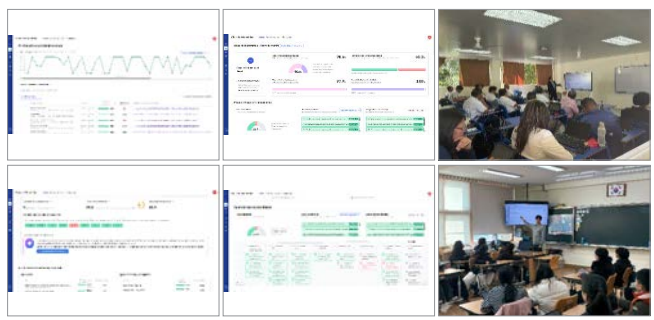
- **Long-term Partnership & Capacity Plan**

Building on the successful deployment across 200 schools in El Salvador, a phased roadmap is underway to expand AIDT to approximately 900 schools by 2026 and 2,500 schools nationwide by 2028.

- **Expansion Strategy**

The successful El Salvador case is positioned as a standard model for the LAC region, with the goal of expanding services to Latin American countries by 2028.

Visuals / Screenshots



Access & Demo Information https://www.ihateflyingbugs.com/

Private *Foundational Learning*

i-Scream Media CO., LTD. ("ISM") i-Scream Media (ISM) is South Korea's leading K–12 EdTech provider, supporting over 95% of primary schools nationwide with its world's first digital teaching platform ('i-Scream S'), content ecosystems, AI-enabled learning modules, and government-certified teacher training. With 20+ years of curriculum-aligned content development, ISM enables large-scale digital transformation through scalable, cloud-based solutions. ISM was established in 2002, and is headquartered in Pangyo, South Korea, with 364 employees.

The ISM ecosystem comprises multiple complementary EdTech solutions designed to support teaching, learning, and student development across K–12 education. Core platforms include i-Scream S, a digital teaching and content platform for lesson planning and instruction, and ThinkerBell, a real-time classroom engagement tool for interactive quizzes and activities. Also, Art BonBon, a creative and social-emotional learning platform that supports student expression through digital art, and LumiTeach, an AI-supported universal teaching interface currently under development. Together, these solutions form an integrated ecosystem that form a seamless "Plan→Teach→Engage→Assess" workflow. K-12

Main Features

- **Digital Teaching Platform - 'i-Scream S'**
  Launched in 2008, a comprehensive teaching suite with curriculum-aligned multimedia resources, lesson creation tools, and classroom orchestration capabilities.
- **Real-time Engagement Tools - 'ThinkerBell'**
  Interactive quizzes, discussions, and collaborative boards that increase student participation across devices and connectivity conditions.
- **Creative & SEL Learning – 'Art BonBon'**
  A digital art-based platform supporting student creativity and social-emotional learning through expressive activities, reflection, and emotional state assessments.
- **School–Home Communication – 'HiClass'**
  A communication app that enables teachers to share school announcements and learning information directly with parents and students.
- **AI-powered Universal Teaching Tool – 'LumiTeach'**
  AI-assisted teaching tools designed to enhance instructional quality and teacher efficiency with interactive teaching materials generated with AI than can be curated to any national curriculum (under development).

Educational Impact

Improves student engagement and foundational skills while reducing teacher workload through interactive instruction, digital content, and streamlined workflows.

93%+
Market Share[38]
i-Scream S, trusted and widely adopted by elementary teachers across South Korea.

100,000+
Daily Active Users[39]
i-Scream S, actively used on a daily basis.

50%+
Market share of government-approved textbooks[40]
Proven effective textbook for 3rd–4th grade math, social studies, and science, with adoption steadily rising.

75%+
Market share of online professional development platforms[41]
A widely used platform for elementary teacher professional development.

- **Validation & Certification**
  - 2010 US IMS Learning Impact Platinum Award
  - 2016 Swiss World Didac Winner of Primary Education
  - 2016 Japan e-Learning Awards of Global Education
  - 2021 Korea Ministry of Education Grand Prize Award
  - Korea Internet Award – Presidential Award (2023)
- **Equity & Inclusion**
  - The solutions can operate on low-bandwidth networks, across multiple device types, and offer offline instructional modes to ensure access in rural or underserved communities.
  - All services follow strict South Korean child-data protection laws with encrypted cloud processing. Multilingual UI/UX readiness supports equitable adoption across diverse populations.

38 FinancialPost, "i-Scream Media, Holding a 93% Share of the Elementary School Market Nationwide, Expected to Benefit from the Government's Full-Scale Adoption of AI Digital Textbooks", September 2, 2024
39 FerroTimes, "i-Scream Media, Emerging as a Leading Education Stock on ₩30 Billion in Net Profit?", July 16, 2024
40 Daishin Securities, i-Scream Media Corporate Analysis, August 8, 2025
41 Korea IR Council, i-Scream Media Corporate Analysis, September 4, 2025

Previous Project Experience in Latin America

Across Latin American public education systems, i-Scream S Media has accumulated practical experience in teacher capacity building and large-scale digital learning platform projects. In Colombia, for example, the company supported a national ICT teacher training program to strengthen instructional design skills and digital pedagogy. It also collaborated with the Inter-American Development Bank (IDB) on the CLIC (Connect without Limits: Invent yourself and get Certified) project, contributing to the development and operation of an online learning and competency certification platform for youth, including in low-connectivity environments. Building on these regional experiences, the proposed solution of combining interactive content, formative assessment, and cloud-based learning management is designed to support effective classroom instruction and reduce teacher workload in similar public-sector and emerging-market education settings.

Implementation & Localization

- **Technical Requirements**
  - Device & Platform

    Both services run on PCs, tablets, and smartphones; optimized for standard classroom devices with no special hardware.
  - Connectivity & Network

    Work in low-bandwidth environments; online for live sessions and offline for worksheets and assignments.
  - Integration

    Teacher-managed access; student participation by authorization. Optional LMS and classroom integration is possible.
  - Security

    Encrypted cloud environment; teacher data protected under South Korean CPO-led governance; student identifiers not collected by 'ThinkerBell'.
- **Language & Localization Readiness**
  - Platform & Interface

    'ThinkerBell' supports Korean, English, and Japanese. Global standard UI/UX currently under development.
  - Curriculum & AI Language Support

    Content templates can incorporate local curricula; question banks and lesson structures can be aligned with ministry requirements.
  - Global software version under development

    Software that integrates the 'i-Scream S' tools and system is currently under development, expected to launch in mid-2026 ('LumiTeach')
- **Partnership & Delivery Model**
  - Partnership Type

    Ministry-level deployments, district projects, NGO collaboration, public-private partnerships, and local EdTech integration.
  - Delivery Type

    Cloud-based SaaS; optional local player installation for offline-heavy regions.
  - Implementation Timeline

    'ThinkerBell' setup and localization requires 4–8 weeks. Other 'i-Scream S' ecosystem solutions need further review on timing.
  - Pricing & Licensing

    Flexible licensing aligned with local purchasing capability.
- **Training & Capacity Building**

  Teachers typically receive 3–8 hours of orientation, with additional optional training modules available through workshops or online programs to support long-term digital adoption.

Sustainability & Scalability

- **Maintenance & Support**

  Continuous updates, ISO 27001-aligned data protection standards, and centralized technical support ensure stable operation at national scale.
- **Long-term Partnership & Capacity Plan**

  A structured train-the-trainer pipeline and local partner orientation enable sustainable ecosystem growth aligned with ministry goals.
- **Expansion Strategy**

  Phased rollout and multilingual UI/UX allow rapid expansion into LAC markets, supporting national digital learning strategies and equity priorities.

Visuals / Screenshots

i-Scream S

ThinkerBell

Art BonBon

LumiTeach

Access & Demo Information https://www.i-scream.co.kr/user/main/MainPage.do

Private *Foundational Learning*

Visang Education Inc. Founded in 1997, Visang Education is South Korea's leading K-12 education company providing textbooks, e-Learning, and AI-powered EdTech platform. It has about 1,000 employees and achieved USD 190M revenue in 2024.

An AI-powered EdTech platform integrating AI, LMS, e-Learning, video conferencing, and digital content for seamless teaching and learning experiences. This platform features automated e-Learning content generation, AI-driven Q&A, and patented technology designed to scale across K-12, higher education, and lifelong learning. Shared content library also enables cross-institutional use and ecosystem building. K-12

Main Features

- **Customized Website & LMS**
  Enables independent operation and management.
- **Video Class**
  Equipped with a real-time video solution optimized for teaching and learning purposes, supporting multiple models (online, offline, and hybrid).
- **e-Learning Auto-Generation**
  Automatically converted into e-Learning content to enable LAC teachers to create localized content in Spanish or Portuguese.
- **Smart Learning Solution**
  Offered as an interactive solution for early childhood English, elementary English and math, secondary English, and Korean language learning.
- **AI SPEAK 2.0**
  AI-based pronunciation assessment with topic/unit dialogues and free conversation powered by generative AI, extendable to Spanish and other languages.
- **AI Teaching Assistant Agent**
  This model learns from generated e-Learning content to answer student questions, explain related topics, evaluate with diverse question sets, and analyze quiz results for insights.
- **Library & Marketplace**
  Teacher-created and AI-trained e-Learning content stored in institutional libraries, shared across networks to build a large-scale knowledge exchange marketplace and evolve into a national intellectual hub.

Educational Impact

The effectiveness of AI SPEAK 2.0 in AllviA has been validated by two KCI-indexed studies, demonstrating improved learning outcomes and enhanced language proficiency through AI interaction.

+5.32pts(Cohen's d= .45)

Learning achievement[42]

AI interaction, beyond traditional e-Learning approaches, identified as a key driver of improved academic performance.

+22.2%

Speech output[43]

The average number of words per speech output increased from 3.22 to 3.93, based on Korean.

- **Validation & Certification**
  - 2023 Signed MOUs with Bogotá District Education Office and Tunja Public Education in Colombia for the "englisheye" pilot; awarded the Citizen Merit Medal by Bogotá City Council for contributions to educational platform innovation[44].
  - 2025-2028 KOICA IBS project supporting Korean language and secondary-level digital education in Vietnam using AllviA (USD 1.29M)
  - 2019-2024 KOICA IBS project for strengthening Korean language education capacity in Vietnam completed (USD 2.86M, exceeded target by 397%).
  - 2025 Selected by TIME and Statista as one of the World's Top EdTech Companies.
  - 2024 Received the Digital Management Innovation Award from MSIT and the Minister's Award for Convergence Development of the Knowledge Service Industry from MOTIE.
- **Equity, inclusion, and safeguards**
  Strengthening educational access through lifelong learning (SDG 4), and reducing inequality (SDG 10): distributed the "Challenge" program to 17 public elementary schools in underdeveloped regions across seven Asia-Pacific countries.

42 Choi, W., Rho, J., Park, E. (2025). A study on the learning effectiveness of learners using Artificial Intelligence based online Korean language education contents. Journal of The Korea Contents Association, 25(11), 785-794.

43 Rho, J., & Ko, Y. (2025). A study on the effectiveness of AI-based conversational Korean language learning. Journal of the Korea Academia-Industrial Cooperation Society, 26(12), 933-940.

44 Maeil Ilbo, "Visang Education's Englisheye Enters Colombia's Public Education Sector", March 27, 2023.

Use in Educational Settings

The “englisheye” and “Challenge” programs can be integrated as content modules within AllviA..

- Paraguay

“englisheye” is implemented at 11 institutions from elementary to university in Asunción, while “Challenge” runs in six kindergartens and elementary schools. A three-month pilot showed significant improvement in listening, speaking, and phonics ($p < 0.001$), with consistent results regardless of the English proficiency of teachers[45].

- Colombia

“englisheye” is offered as an after-school program at two elementary schools in Bogotá and one in Tunja, held 2-3 times per week for 50 minutes. After three months, overall performance improved by 11-21%, with listening comprehension increasing by up to 48%.

These cases highlight the potential to address the shortage of English teachers and build a sustainable global classroom model.

Implementation & Localization

- **Technical Requirements**

- Device & Platform

Can be operated on PCs, tablets, and smartphones across Windows, macOS, iOS and ChromeOS, App available on Android; web access via Chrome and Edge.

- Connectivity & Network

Online, hybrid, and offline learning models.

- Integration

Compliance with the LTI 1.3 standard, IMS caliper-based data standards, and seamless interoperability with other platforms.

- Security

Global certifications (ISO 27001, ISMS, AWS ISV), GDPR compliance, SSL encryption, MFA, data anonymization, local regulatory adherence, dual backup, and stable operations via AWS LAC region.

- **Language & Localization Readiness**

- Platform & Interface

Contains multilingual UI, built-in translation, and LMS customization.

- Curriculum & AI Language Support

Allows teachers to create e-Learning in their own language, while AI provides Q&A, resource recommendations, and automated grading in Spanish and 100+ other languages.

- **Partnership & Delivery Model**

- Partnership Type

- Experience in multi-stakeholder
- collaboration, strong governance and networks, sustainable partnership models, and EdTech consulting & implementation support.

- Delivery Type

Cloud-based SaaS (subscription access, automatic updates); hybrid/offline model (cloud + downloadable content packages for low-connectivity areas).

- Implementation Timeline

Pilot (3months) → Capacity Building (1-2months) → Regional Expansion (6months) → Nationwide Rollout (1-2years).

- Pricing & Licensing

Affordable model with core features included; additional modules billed per school or per user.

- **Training & Capacity Building**

- Cyber Training Center

On-demand access to documents and video resources, with an AI assistant for real-time inquiries.

- Blended Training

Live online sessions, on-site workshops (optional in South Korea), plus e-Learning content and user manuals. Training strengthens teacher and admin skills from basic features to classroom application in 4-5 hours.

Sustainability & Scalability

- **Maintenance & Support**

A dedicated CS team and AI-powered global system oversee real-time multilingual monitoring, professional maintenance, Spanish-speaking sales/support staff, and cloud-based scalability for traffic growth and service expansion.

- **Long-term Partnership & Capacity Plan**

Collaboration with LAC and educational institutions to develop an education-focused sLLM trained on localized data.

- **Expansion Strategy**

Building a marketplace using e-Learning content, AI, and digital solutions from AllviA to expand the LAC education ecosystem and establish a knowledge hub.

Visuals / Screenshots

AI SPEAK 2.0

AI Teaching Assistant Agent

Access & Demo Information allviaedu.com

45 Recalde, M. J. Z., & Vázquez, S. C. S. (2024). English language learning through Mixed Reality: A study in Paraguayan public schools. Ñemitỹrã: Revista Multilingüe de Lengua, Sociedad y Educación, Universidad Nacional de Asunción, Facultad de Filosofía, Instituto Superior de Lenguas, 6(3), 56-73.

Private *Foundational Learning*

Freewheelin. Founded in 2017 and headquartered in Seoul with 170 employees, Freewheelin operates South Korea's leading math question bank for K-12 teachers (Schoolflat) and the nation's only AI courseware for university faculty (Pulley Campus).

Schoolflat

A cloud-based AI courseware for K-12 mathematics, enabling teachers to conduct personalized lessons by creating problem sets customized to student levels, offering targeted learning for challenging concepts, providing analytical reports, and delivering AI courseware. K-12

Main Features

- **Extensive Question Bank**
  Offers 1M+ math questions aligned with the K-12 curriculum, all pre-validated by Freewheelin's education experts to ensure quality and accuracy.
- **Assessment Customization**
  Empowers teachers to create personalized worksheets tailored to each student's achievement level and specific academic needs.
- **Automated Grading**
  Maximizes instructional efficiency by allowing students to submit answers directly for instant grading, significantly reducing administrative workloads.
- **Analytical Dashboard**
  Provides real-time and periodic performance insights with targeted feedback and improvement suggestions to enhance formative assessment and personalized learning.
- **AI Courseware**
  Supports self-paced mastery through an AI-powered platform that identifies individual weak areas and automatically curates tailored learning paths.

Educational Impact

Drives higher student engagement and mathematical proficiency through score-boosting, tailored learning paths, while minimizing teacher workload by automating personalized assessments and grading.

▲25%
Performance Improvement[46]
Teachers reported better academic performance in groups using the solution's learning materials.

4.99 / 5.0
Educational Usefulness[47]
Customizable learning materials for each student.

▲13 Points
Test Score Improvement[48]
Average increase in exam scores after implementing the solution.

1.6B+
Assessment Activity[49]
Total number of generated questions and grading data.

90%
Teacher Engagement
9 out of 10 teachers use the solution 4+ days a week for their classroom activities.

98.2%
NPS (Net Promoter Score)
98.2% of users would recommend the solution to their colleagues.

- **Validation & Certification**
  - Adopted by 3,641 schools (30% Market share) and 9,500 private math academies (25% Market share) with 3.5M+ accumulated users in South Korea.
  - Integrated into official Artificial Intelligence-based Education Platforms (AILP) operated by major regional offices of education, including Seoul, Gwangju, Jeollanam-do, and Gyeongsangnam-do (2025).
  - Successfully verified through the Edtech Soft Labs (a government-run sandbox program) (2024–2025).
  - Named one of TIME Magazine's World's Top EdTech Companies for two consecutive years (2024–2025) and a World's Top EdTech Rising Star (2024).
  - Recognized on the Financial Times–Statista Asia-Pacific High-Growth Companies for two consecutive years (2025–2026).
  - Selected for the HolonIQ East Asia EdTech 150 for three consecutive years (2023-2025).
  - Certified as Excellent EdTech Products by the Incheon and Chungcheongnam-do Offices of Education.
  - Acquired GS (Good Software) Level 1 Certification, the highest national standard for software quality in South Korea.
  - Patented an AI-powered diagnostic assessment and personalized learning system.

46 Internal data. Conducted Industry-academia collaboration project with Yonsei University Data Science Lab in 2022, Analyzed for high school seniors who used the solution for more than 3 months in 2022.
47 Chungcheongnam-do Office of Education. (August 2023). Insure: Expert-Teacher Evaluation Report. LearningSpark.
48 Internal data, Customer survey in 2023, based on responses from 36 teachers, examining student score gains
49 Internal data, Number of internal DBs accumulated since 2017

- **Equity, inclusion, and safeguards**

  - Educational Equity

    Bridges digital and physical learning via printable handouts, ensuring access in low-connectivity or device-limited environments.

  - Security & Reliability

    Holds GS (Good Software) Level 1 Certification (South Korea's highest standard).

  - Impact

    Aligned with SDG 4 to close learning gaps through safe, inclusive, and data-secure AI tools.

> **Use in Educational Settings**
>
> Over an 8-week period, 2nd-grade students at Seoul's Deokam Elementary School transitioned from paper to the Schoolflat solution, raising average scores from **72 to 81 points** and cutting completion time by **7 minutes** per 25-question set. The teacher provided **96 instances of real-time, individualized feedback** by simultaneously monitoring every student's digital progress and intervening instantly. Despite only **25%** of students having prior tablet experience, this high-frequency and immediate interaction boosted engagement to nearly 100%, transforming a passive classroom into a self-directed environment where students voluntarily tackle advanced tasks.

Implementation & Localization

- **Technical Requirements**

  - Device & Platform

    Web and mobile app (iOS/Android) fully compatible with major OSs (Windows, macOS, ChromeOS) and devices (PCs, tablets, smartphones).

  - Connectivity & Network

    Online-based with offline support through printable content; optimized for low-bandwidth environments (≥5 Mbps recommended).

  - Security

    End-to-end SSL encryption, ISO 27001 certified hosting, and automatic data redundancy.

- **Language & Localization Readiness**

  - Platform & Interface

    Korean-optimized with a multi-language roadmap (English, Spanish) tailored to regional needs. Modular design for rapid localization and culturally adaptable layouts, ensuring a seamless UX across diverse global markets.

- **Partnership & Delivery Model**

  - Partnership Type

    B2G (ministry/national projects), B2B (districts or schools), and B2C (teacher or student subscriptions) models, often in collaboration with local partners and system integrators.

  - Delivery Model

    Flexible deployment ranging from instant-access SaaS to customized system builds, as detailed below:

Category	Individual Subscription (B2C)	Institutional Subscription (B2B)	Custom Solutions (B2G)
Target Audience	Individual Teachers	Schools & School Districts	Ministries & National Projects
Delivery Type	Cloud-based SaaS	Cloud-based SaaS	Custom System Development
Pricing	USD 75 / Teacher / Month	From USD 5,000 / School / Year	Quoted per Project
Implementation Timeline	Instant Access (via Website)	Within 2 Weeks	12 - 24 Weeks

- **Training & Capacity Building**

  - Delivered through online sessions, and self-paced tutorials, supported by user manuals.

  - 30 minutes - 3 hours of training ensure teachers can operate and integrate the platform effectively.

  - Led by certified trainers and local partners, with a continuous online helpdesk and update sessions.

Sustainability & Scalability

- **Maintenance & Support**

  Continuous cloud updates and technical support. Fully compliant with Ministry of Education data protection guidelines to ensure top-tier security.

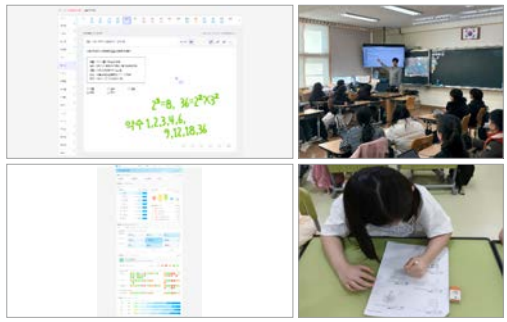
- **Partnership & Training**

  Strategic alliances with LAC distributors and experts. Features Train-the-Trainer (ToT) programs to ensure locally led, self-sustaining operations.

- **Expansion Strategy**

  Phased LAC rollout via Spanish-localized content and ministry alliances. Targeting key market expansion by 2027 through proven educational outcomes.

Visuals / Screenshots



Access & Demo Information https://www.schoolflat.com

Public | *Foundational Learning*

National Institute for Lifelong Education (NILE) A government-established institution founded in 2008, advancing lifelong education in South Korea through the coordination of national lifelong learning programs, professional training in lifelong education, and management of academic credit and learning account systems.

K-MOOC

South Korea's national online learning platform, providing free access to courses anytime, anywhere. The amount of learners is limitless, and materials expand from lecture videos to interactive learning with discussions, quizzes, assignments, and Q&A.

HigherEd | Lifelong | Learning

Main Features

- **Open and Scalable Platform**
  Delivers high-quality courses from universities, corporations, and government-funded research institutes through a free online platform, with 188 participating institutions.
- **Interactive and Blended Learning**
  Supports two-way instructor–learner interaction, peer communication, and blended courses (K-MOOC+) integrating online learning with offline practice.
- **Comprehensive Course Offerings**
  Covers seven academic fields, interdisciplinary areas, general education, and industry-oriented job competency programs, including short-term certification courses.
- **Flexible Course Delivery**
  Supports multiple course formats, including semester-based, self-paced, and open-enrollment models.
- **Academic Credit Recognition**
  Includes selected courses approved under the Credit Bank System, enabling learners to earn officially recognized academic credits.

Educational Evidence & Validation

Enables learners to independently access and complete courses aligned with their learning goals, supporting continuous learning beyond the constraints of time and location.

- **Learning Relevance and Perceived Effectiveness**
  Over 50% of learners reported that K-MOOC courses supported their learning objectives, with an average rating of 3.65/5. Over 90% of learners who took courses based on personal interest gave positive responses, with an average rating of 4.32/5.
- **High-quality Course Content**
  Learners identified up-to-date content and learning materials as the most helpful factors for course completion.
- **Instructional and Instructor Effectiveness**
  Satisfaction with course content 78.9%, instructor expertise 88.5%, and instructional delivery 82.1%, was consistently high.
- **Overall Satisfaction and Continuous Use Intention**
  Overall satisfaction averaged 4.13 out of 5, and 90.2% of learners expressed their intention to continue taking K-MOOC courses.
- **Equity & Inclusion**
  Promotes inclusive lifelong learning through open online courses from universities and participating institutions, accessible to diverse learner groups.

Institutional Foundations & Implementation

Legal Basis / Institutional Requirements	Lifelong Education Act, Higher Education Act, and the Act on Academic Credit Recognition
Governance Structure	MOE (Overall Project Planning & Fund Allocation) – NILE (Project Management & Operations) – Participating Institutions (Content Development & Delivery)
Budget	Approx. USD 11.86 million annually for nationwide operation and upgrades (2024 Basic Plan for Korea's National Online Open Course).
System Architecture	Centralized national learning platform with distributed university course delivery, cloud-based infrastructure.
SW/HW Requirements	Web-based learning platform accessible via standard PCs and laptops, hosted on centrally managed secure servers.
Security & Data Protection	Protects user data and course content with secure authentication and encryption.

Access & Demo Information https://www.kmooc.kr/

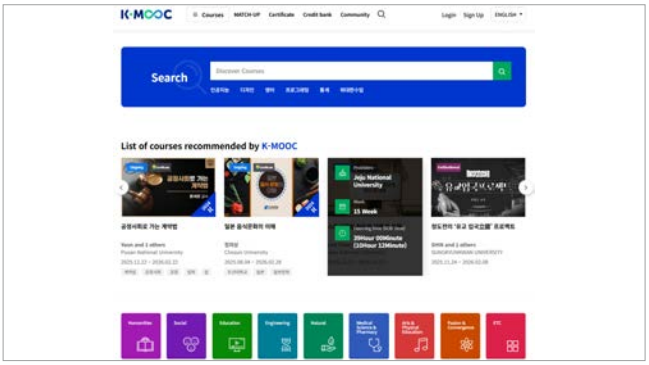


Image Source KMOOC Official Website

50 2023 K-MOOC Demand and Utilization Survey (n=2,760; learners aged 14+)

Private | *Foundational Learning*

DNSOFT An EdTech company specializing in game-based AI learning platforms and a pioneer of AI-powered elementary English and Mathematics education.

argong

An elementary-focused, all-in-one AI English and Math learning platform that supports level-based, personalized learning through textbook-aligned curriculum, offering content from foundational phonics to AI native-speaker conversation in English (Grades 3-6) to thinking-based mathematics (Grades 1-6), with real-time learning management through an integrated LMS. K-12 (Primary)

Main Features

- **Gamification-Based Metaverse Learning**
  A single shared metaverse where students learn through avatars, missions, progression, and rankings, supported by a reward system of trophies, in-game currency, and a World Tree.
- **Learning Management System (LMS)**
  Real-time monitoring of each student's progress and performance, automated learning-data analysis, and AI-powered 1:1 learning management with detailed reports.
- **AI Tutor & GPT Conversations**
  Enables interactive native-speaker conversations on textbook topics and teacher-selected themes, expressions, and role-play tasks.
- **AI-Powered Phonics**
  Foundational pronunciation practice with detailed AI feedback at the word level.
- **Adaptive Learning System**
  Real-time analysis of answer accuracy dynamically adjusts difficulty and automatically generates individualized learning paths.
- **Gamified Thinking-Based Math**
  Interactive digital manipulatives and level-based, game-based problem-solving missions delivered within the shared metaverse.
- **Standalone AI-powered EFL reading library (Argongbooks)**
  Pairs a CEFR-leveled English book collection with AI book curation, native-speaker audio, and AI read-aloud and post-reading conversation, all wrapped in argong's gamified, metaverse-style motivation, to get every student reading independently.

Educational Evidence & Validation

Strengthens foundational English and mathematics skills for students with AI support, while increasing engagement and motivation through gamified learning in a shared metaverse environment.

- **Adopted by 7,000 teachers and 69,000 students across South Korea (as of year-end 2025).**
- **Key Certifications**
  Grand Prize for EdTech Startup Category; Designated Digital Service for Government, Ministry of Science and ICT; Registered Innovative Product, Ministry of SMEs and Startups.
- **2026** *Pilot Evaluation*
  Conducted in April 2026 through the Chungcheongnam-do Office of Education's EdTech validation system, with 10 in-service teachers (elementary, middle, and high school) using a 42-item instrument across three domains. Results (out of 5): Educational Usefulness 4.97, System Usability 4.91, and Affective Quality 4.84.

Institutional Foundations & Implementation

Device/ Platform	Web and mobile app (iOS/Android), Chromebook, and Naver Whale Book. Minimum: mobile app on Android 7.0+ / iOS 12.0+ with 1 GB+ free storage; PC web on Chrome with 8 GB+ RAM. As a 3D-based application, it performs best on recommended-spec devices.
Connectivity	Online
Integration / Security	Secure cloud infrastructure (Microsoft Azure) with encryption, access control, and compliance with South Korea's Personal Information Protection Act
Localization / Language	Platform UI available in Korean and English, with country-specific customization available on request.
Delivery Model	Cloud-based SaaS
Pricing	USD 4 per student/month (varies by subject and plan)

Access & Demo Information https://www.argong.ai/

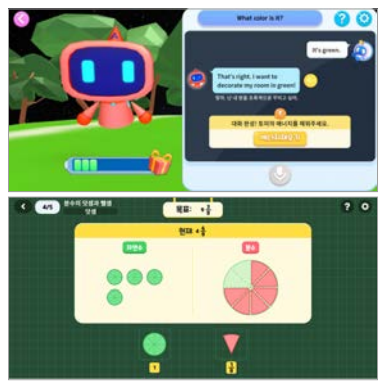


Image Source

News Wire, "Now Studying English Subjects with ChatGPT... Densoft Introduces ChatGPT to AI Elementary English Solution 'Algong'," (April 27, 2023)

Public *Digital and AI Competencies*

Korea Foundation for Science and Creativity (KOSAC)
Established in 1967 under the Ministry of Science and ICT, KOSAC is a policy institute responsible for planning and implementing national policies to strengthen science and digital literacy, as well as related education and public outreach. To this end, KOSAC works to narrow gaps in AI and digital literacy and to improve access to AI and digital education by offering a range of extracurricular programs for K–12 students.

Digital Sprout

Launched in 2022 as a national public AI and digital education initiative under the coordination of KOSAC, Digital Sprout delivers software and AI programs to K-12 students nationwide through 45 multi-sector consortia. A centralized one-stop platform supports program discovery, application, learning record management, and digital badge issuance for students and teachers. K-12

Main Features

- **Program Overview**
  - Digital Sprout Programs
    - Programs are delivered through 45 consortia, comprising 84 competitively selected implementing organizations, including 26 universities, 55 private-sector organizations, and 3 public institutions in 2024.
    - Offers a range of programs under key topic areas such as computational thinking, AI and data literacy, digital citizenship, and essential digital skills that are structured across three progressive levels ranging from concept learning to principle understanding.
    - Delivered primarily as extracurricular programs, provided through school-based core offerings and specialized courses conducted during vacations, after-school periods, and weekends, with flexible formats, content design, and scheduling.
- **Platform Services**
  - Program Registration
    Students, teachers, and parents can browse program details, and register participation efficiently.
  - Learning History Management
    Tracks and manages student participation and progress, providing a real-time dashboard for monitoring engagement and program delivery.
  - Digital Badge Issuance
    Issues digital badges to certify learning achievements. Integrates badges into a unified system for systematic record keeping.

Educational & Administrative Impact

Digital Sprout complements public education by strengthening digital capacities among education stakeholders, closing learning gaps, and driving the growth of a digital education ecosystem.

▲0.60 on a 5-point scale(+16.9%)

Digital Competency Growth[51]

Improved key digital competencies with Computational Thinking showing the largest gain.

▲0.69 on a 5-point scale

Cognitive Outcomes Growth[52]

Enhanced interest, self-efficacy, and career aspirations.

▲56.4%

Underrepresented Student Participation Growth[53]

Increased participation as programs responded to diverse learner needs.

- **Validation & Certification**
  - Government-led National Program
    A Ministry of Education-led national SW·AI education initiative implemented with regional education authorities, serving as a policy-validated public education program.
  - Large-scale Nationwide Implementation
    From 2022 to 2024, the program was implemented nationwide through tens of thousands of learning programs, demonstrating large-scale operational feasibility across diverse school and regional contexts.
- **Equity, inclusion, and safeguards**
  - Equitable Reach
    Provides digital learning access across 11,555 schools (~56%) and 681,000 students (~12%) in South Korea.
  - Inclusive Participation
    Allocates approximately 10% of opportunities to underserved learners, reaching 23,000+ students in remote areas, multicultural and special education settings, and out-of-school contexts.
  - Gap Reduction
    Demonstrated reductions in digital competency gaps, with disparities related to prior private education and regional differences narrowing significantly (Ministry of Education & KOSAC, Digital Sprout White Paper, 2024).

51 Ministry of Education & KOSAC, Digital Sprout White Paper, 2024
52 Ministry of Education & KOSAC, Digital Sprout White Paper, 2024
53 Ministry of Education & KOSAC, Digital Sprout White Paper, 2024

Use in Educational Settings

· 2024 Digital Sprout Excellence Programs

- Key Shared Learning Features

- Foster (1) interdisciplinary learning, (2) team-based problem solving, and (3) self-directed learning through real-world, project-based activities.

- Program Examples

- 'Interdisciplinary PBL Storytelling': This program combines art or language subjects with digital (AI) skills, allowing students to express ideas through picture books and art while developing computational thinking and basic coding skills (Entry, Scratch) in a team-based, real-world PBL approach.

- 'Smart Plant Project': Engages elementary students through hands-on learning by assembling smart plant systems and collecting, analyzing, visualizing, and predicting plant growth using sensors and AI, fostering real-world application and creative problem-solving.

Policy & Institutional Foundations

- **Legal Basis**
  - The Science, Mathematics, and Informatics Education Promotion Act.
  - The Local Education Grant Act.
- **Governance Structure**
  - MOE
  Policy direction and funding.
  - KOSAC
  Platform planning, implementation, monitoring, and evaluation.
  - Provincial Education Offices
  Regional coordination and school engagement.
  - Schools
  Data entry, validation, and daily operation.
- **Funding Structure**
  Jointly funded by National Special Grants and Provincial Education Office Contributions.

Implementation & Localization

- **Institutional Requirements**
  - Sustainable Policy Alignment
  Align policy objectives, implementation principles, and quality standards to enable sustainable operation within public education systems.
  - Centralized Platform Governance
  Position Digital Sprout as the core platform, with KOSAC leading coordination in a multi-stakeholder framework.
- **Operational Requirements**
  - Expert Staffing
  Mobilize top-tier experts from academia, industry, and related sectors to ensure high-quality program delivery.
  - Teacher & Instructor Capacity
  Engage in-service teachers in program design and strengthen instructor capabilities through structured training to ensure instructional consistency.
  - Equitable Regional Deployment
  Deploy instructors strategically based on regional needs, with targeted support for underserved areas.
  - Systematic Monitoring & Evaluation
  Apply systematic monitoring using key indicators including participation, completion, learning outcomes, and satisfaction with real-time feedback for continuous improvement.
- **Phased Adoption Approach**
  1. Introduction Phase
  Establishes a foundational digital education framework aligned with societal needs, supported by continuous quality management.
  2. Diffusion Phase
  Expands access and participation through diversified programs and multiple learning pathways.
  3. Consolidation Phase
  Enhances program quality and sustainability by strengthening digital ethics education and digital/online culture.
  4. Advancement Phase
  Optimizes operations and program quality through regionally tailored deployment, improved management, and strengthened instructor capacity.

Sustainability & Scalability

Digital Sprout is a government-funded, nationally scalable digital education initiative designed for sustained operation, modular expansion, and alignment with future digital and AI education policies.

Visuals / Screenshots

Access & Demo Information https://newsac.kosac.re.kr/

Private | *Digital and AI Competencies*

Elice Inc. A leading AI-powered learning experience platform (LXP) company providing hands-on, interactive, and personalized digital learning solutions. Elice was established in 2015, headquartered in Seoul, and serves 2.8M learners across 10+ countries.

An all-in-one education platform that provides a seamless learning experience with an AI tutor, interactive online classroom, and unique content that runs on a hands-on practice environment.

K-12 | HigherEd | Lifelong | Corporate

Main Features

- **AI-Powered Learning Experience Platform (LXP)**
  Integrates lectures, hands-on practice, and assessments into one seamless workflow, supporting active, inquiry-based, and project-based learning.
- **'AI Helpy'**
  Provides real-time explanations, debugging support, and step-by-step guidance that adapts to each learner's understanding, enabling continuous and self-directed learning.
- **Adaptive AI Courseware & Learning Pathways**
  Creates and grades exercises and assessments instantly, strengthening formative learning while significantly reducing teacher workload.
- **EliceLibrary (STEM-Focused Interactive Content)**
  Offers 6.23M+ hands-on, practice-based materials that teachers can blend with their own curriculum, supported by AI-driven content recommendations.
- **Teacher Dashboard & AI Analytics**
  Provides real-time analytics on engagement, misconceptions, and progress so teachers can identify struggling learners early and deliver targeted support.
- **Secure, Scalable Assessment System (EliceTest)**
  Ensures fairness and academic integrity through automated proctoring, monitoring, and plagiarism detection for large-scale examinations.

Educational Impact

Creates an opportunity for everyone to learn and grow, contributing to digital transformation in industries with its AI technology specialized in the education sector.

83%
Teacher Workload Reduction[54]
Code error-related inquiries were solved by AI Tutor, reducing teacher workload by 83%.

154M
Learning Engagement[55]
The number of code executions on the platform over 8 years.

31.15%
Student Engagement[56]
The percentage of class hours served by AI Helpy as a personalized tutor.

4.7 / 5.0
Teacher Satisfaction[57]
Teachers rated the platform and its content 4.7 out of 5 for enhancing classroom experience.

- **Validation & Certification**
  - Adopted by 2.8M students, 11,000+ teachers, and 12,000+ institutions across 10+ countries.
  - Ranked 16th in Time & Statista's 2025 Global Top EdTech list, further solidifying its position as a leading innovator in the sector.
  - Recognized internationally through awards such as HolonIQ Top 150 Global EdTech (awarded for five consecutive years), the Asian-Oceanian Computing Industry Organization (ASOCIO) Award, and ITU Innovate for Impact: AI Use Case.
  - Demonstrated stability in 1,000 concurrent users during the Furiosa AI hackathon.
  - Elice's AI PMDC was the first AI-dedicated data center in South Korea to obtain CSAP IaaS certification, ensuring government-grade security as scale.
- **Equity, inclusion, and safeguards**
  - Equitable Access
    A fully cloud-based platform requiring only a device and an internet connection, enabling location-independent access to learning.
  - Inclusive & Scalable Delivery
    Structured learning flow, automation, and AI-assisted support reduces instructional burden, which are complemented by teacher training and flexible instructor deployment.
  - Global Accessibility
    Multilingual localization with proven deployment across 10+ countries and 12,000 institutions, supporting diverse cultural and linguistic contexts.

54 Based on a pilot study in 37 middle and high schools, analyzing 24,271 student inquiries resolved by AI Helpy.
55 Internal platform analytics recorded 117 million code executions over an 8-year period.
56 Derived from a 24-week AI tutoring program with 1,264 students, measuring the proportion of AI-supported instructional hours.
57 Teacher satisfaction survey conducted with 74 middle and high school teachers using the platform.

Use in Educational Settings

Leading enterprises such as Samsung, SK, Hyundai, and LG have utilized Elice to deliver large-scale AX and DX skill improvement programs, training over 100,000 employees through customized curricula, guided projects, and internal hackathons.

In South Korea, Elice has partnered with multiple government institutions in to deliver nationwide and sector-specific AI and software education, including public programs, military SW & AI training, and large-scale online competitions, demonstrating stable performance with thousands of concurrent learners.

Internationally, Elice has supported workforce and educator training across multiple regions. In Indonesia, a large-scale developer bootcamp delivered 250 hours of advanced AI and IT training, achieving a 65% improvement in learning competency and an 83.6% employment rate. In Nigeria and Bhutan, educator-focused Python and Generative AI workshops increased average post-training assessment scores to 2.2 times the baseline level (Elice. *Indonesia Project Completion Report.* Jakarta, 2023.). In Brunei and Singapore, tailored AI literacy programs enabled non-CS learners to develop practical AI literacy and real-world solutions.

Implementation & Localization

- **Technical Requirements**
  - Device & Platform

    Web-based cloud SaaS accessible across all major devices and operating systems with no installation required.
  - Connectivity & Scalability

    Requires internet access; container-based environments support large-scale execution, GPU-optimized AI learning, and 1,000+ concurrent users, scalable to millions.
  - Security & Data Protection

    Compliant with international standards (ISO 27001/27701) and operates South Korea's first CSAP-certified AI PMDC, ensuring secure, privacy-compliant deployments.
- **Language & Localization Readiness**
  - Multilingual Support

    Supports English, Korean, Thai, and Japanese, with Spanish forthcoming and additional languages available upon request.
  - Curriculum Flexibility

    Institutions can integrate local curricula or use EliceLibrary's practice-based content.
  - AI-Driven Personalization

    AI-driven recommendations adapt to learner performance, local standards, and delivery models.
- **Partnership & Delivery Model**
  - Partnership Models

    Supports B2G (government), B2B (institutions & enterprises), and B2C (direct learners).
  - Delivery Options

    Cloud-based SaaS, optional on-premise/hybrid PMDC deployment, and API/LTI 1.3 integration with national or institutional LMSs.
- **Training & Capacity Building**
  - Educator Enablement

    Hands-on training, orientation, and classroom simulations support immediate adoption.
  - Sustainable Capacity

    Long-term programs develop the capacities of local instructors, digital pedagogy, and independent operation with continuous support.

Sustainability & Scalability

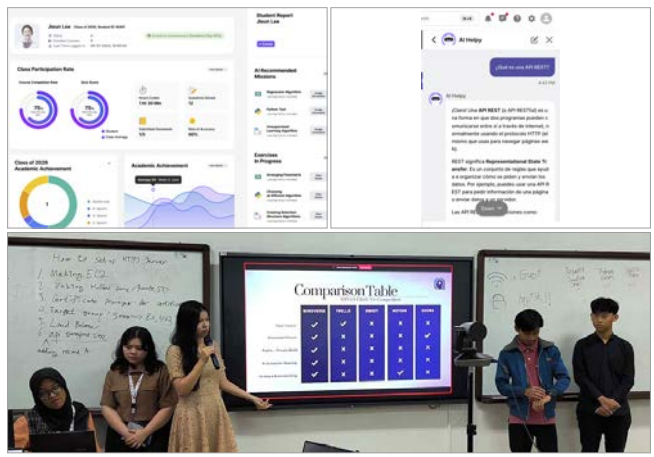
- **Maintenance & Support**
  - Device & Platform

    Fully managed cloud SaaS with automated updates, grading, monitoring, and storage run directly on Elice Cloud and Elice LXP.
- **Long-term Partnership & Capacity Plan**

  Partnerships with governments and institutions build self-sustaining ecosystems through workforce-ready programs.
- **Expansion Strategy**

  Proven international scaling with strong localization support and cloud infrastructure optimized for regional growth.

Visuals / Screenshots



Access & Demo Information https://www.elice.io/

Private | *Digital and AI Competencies*

Robo Risen Co. Ltd. Robo Risen is a company specializing in educational robots. Within just four years of market entry, its products have been adopted by approximately 20% of public schools in South Korea. Beginning in 2026, Robo Risen's robots will be included in elementary school textbooks, accounting for over 40% of the market share, establishing the company as a leading national educational robot brand in South Korea.10+ countries.

pingpong

'PingPong Robot' is developed based on a fundamental patent that enables multiple robots to be constructed using a single modular robot unit type. It is a unique and innovative robot platform that allows students to build sophisticated robots within a short period of time.

With PingPong, there is no need to purchase separate products for unplugged robotics activities, AI, coding, robotics, or Internet of Things (IoT) education. Using a single integrated system, teachers can deliver more than 480 hours of AI and coding instruction, implement robotics 'maker projects' by expanding with external bricks such as LEGO, KNEX, CubeWorks, and 4D Frame. This is conducted through IoT projects with integration with Micro:bit and Arduino, providing exceptional scalability across diverse educational contexts. K-12 HigherEd

Main Features

- **Single Module Open Platform**
  Using only one module called "G-Cube," most robot models can be assembled quickly within one minute. The system is highly durable and easy to manage.
- **Unbelievable Scalability**
  Unlimited robot creations are possible by combining with third-party blocks such as LEGO, KNEX, CubeWorks, 4D Frame, and 3D-printed parts.
- **Wide Software Compatibility**
  Compatible with Scratch, Python, Entry, Codiny, micro:bit Makecode, and Arduino IDE, enabling robotics, coding, IoT, and AI education.
- **Simultaneous Charging & High Durability**
  An innovative magnetic charging system allows multiple modules to be charged at once, and metal gears ensure superior durability.

Educational Impact

Enhances creative problem-solving skills and computational thinking, while significantly reducing teacher preparation and equipment management time and effort through its single-module structure.

4.46 / 5.0
Student Satisfaction[58]
Based on pilot programs conducted in 6 schools 150 students.

4.75 / 5.0
Ease of Management[59]
Single-module usage and simultaneous charging greatly improve equipment management.

4.55 / 5.0
Teacher Satisfaction[60]
Based on trials in 98 classrooms of 87 schools by KERIS.

- **Validation & Certification**

Currently used by over 1,800 schools and more than 350,000 students across 11 countries.

- Textbook Adoption
  Selected as the official robot for South Korean elementary school SW textbooks starting in 2026.
- Government Utilization
  Selected for multiple national education innovation projects by KOSAC, KERIS, and the Ministry of Education.
- Global Awards
  CES 2020 Innovation Award, BETT Show 2023 GESAwards Finalist, SXSW Innovation KOREA Pitching winner, Disney "Best of CES Top 20" (invited to Disney LA headquarters).
- International Standardization
  Selected as the ITU-T international standard for G-Cube control and communication architecture (Edge Computing, 2025).
- Safety & Patents
  Certified with KC, CE, FCC, GCC and MIC; "single modular robotics technology" original patents registered in South Korea, the U.S., and the EU.

- **Equity, inclusion, and safeguards**

Universal Design principles enable all students, regardless of disabilities, to participate in robotics education.

- Visual Impairment Support
  Development of the "Braille Bot" solution using braille stickers, tactile maps, and audio feedback; successfully piloted at Seoul and Daejeon Schools for the blind.

58 KERIS Edtech Softlab (2023)
59 SW robotics hackathon of KOSAC (2025)
60 Research project for inclusive education of KERIS (2025)

- Developmental Disability Support

Game-based rehabilitation product solution “Abled PingPong” for gross and fine motor skills and sensory training. 34 special-education robotics lesson sessions have been developed.

> **Use in Educational Settings**

About 35% of South Korea’s Software-Leading High Schools run hackathon projects using the G-Cube PingPong Robot.

For the national AI Robotics Hackathon program involving 50 middle and high school robotics clubs selected by the Korean Ministry of Education, 12 robot companies applied and Robo Risen was chosen to implement the program.

Robo Risen was also selected as an operating organization for the South Korean government’s “Digital Seed” program and provided AI robot-coding education to 2,200 students.

In addition, Robo Risen was also selected as a partner institution for special education research and delivered robot-coding programs to approximately 600 students with developmental disabilities across 98 schools.

Implementation & Localization

- **Technical Requirements**

- Device & Platform

Can operate on PCs, tablets, smartphones, and Chromebooks compatible with Windows, Android, iOS, and macOS.

- Connectivity

BLE 5.0 star-network technology; one-button connection without additional settings; usable offline after app/software installation.

- Unplugged Activities

Robots can be programmed and operated without smartphones or PCs.

- Compatibility

App, Scratch, Entry, Python, Arduino IDE, Micro:bit MakeCode.

- AI Projects

AI projects use Teachable Machine, TensorFlow, and MobileNet in Scratch/Python. Projects using HuskyLens and OzEye AI cameras.

- **Language & Localization Readiness**

- Interface

17 languages (including Korean, English, Spanish, Arabic, and Japanese).

- Curriculum

Over 480 free curriculums (AI, Coding, STEM, Robotics) from elementary to university level; content can be localized to national education standards.

- **Partnership & Delivery Model**

- Partnership Types

B2G (ministries, national projects), B2B (districts, schools), B2C (teachers, students), Typically operated with local partners.

- Pricing

· **Basic model:** Starting under $75.
· Over 480 class sessions of content provided free of charge.
· One-time purchase reusable across elementary, middle, and high school levels.

- **Training & Capacity Building**

- Teacher Support

Level-based tutorials, manuals, and video guides.

- Training Programs

Online teacher training via Zoom and offline workshops; intuitive UI/UX for beginner users.

Sustainability & Scalability

- **Durability**

1-to-1 module replacement system with a 1-year warranty; 3D printing data provided for self-production of robot parts.

- **Expansion Strategy**

In addition to the G-Cube for education, the R-Cube is being developed for commercial robotics use, expanding the platform from student education to professional-level robotics training.

Visuals / Screenshots

Access www.roborisen.com, qna@roborisen.com
YouTube Demo https://youtu.be/T7HJybF95sI

Private | *Digital and AI Competencies*

NEOPIA Co., Ltd. With a 27-year legacy since 1999, NEOPIA Co., Ltd. is a premier provider of AI coding and digital literacy solutions. Neopia's proprietary educational tools are officially integrated into the national curriculum and government-approved textbooks in South Korea.

AiON FlatCo

A hardware-integrated AI education platform, FlatCo has been specifically optimized for the all-in-one coding robot AiON to provide a seamless hybrid learning experience in both physical and digital classrooms. K-12

Main Features

- **Real-time Collabrative Platform (FlatCo)**
  FlatCo is a specialized interactive software designed for synchronized classroom learning. It allows teachers to monitor the coding progress of all students in real-time and enables instant code sharing and feedback. This high level of interactivity makes it an ideal tool for managing large-scale digital classrooms and fostering peer-to-peer collaboration.
- **Sensor-Integrated Physical Computing (AiON)**
  The AiON robot is an 'all-in-one' hardware solution that leverages smart devices as high-performance AI processing engines. By utilizing the built-in cameras, microphones, and sensors of smart devices, AiON enables advanced AI functions such as Face, Voice, and Object Recognition. This approach eliminates the need for expensive external sensors and significantly lowers the entry barriers for high-level AI education.
- **Universal Accessibility & Cost-Efficiency**
  As a highly cost-effective AI solution, FlatCo ensures 'Education for All' by running on low-spec devices. It supports 100% offline learning, enabling stable AI training even in environments with no internet access.

Educational Impact

Through FlatCo, students master collaborative coding by sharing and evolving ideas in real-time. The platform pivots from basic data entry to advanced computational thinking, empowering students to solve complex problems independently.

4.7/5.0
Satisfaction Score from Teachers
Pilot programs conducted in Seoul, Chungcheongnam-do, and Gwangju.

+38%▲
Instructional Efficiency[61]
Improvement in teaching efficiency compared to traditional methods.

+20%▲
Enhanced Student Engagement[62]
Students showed increased focus and interest compared to conventional lessons.

2019-2025: **90%**
2026-2031: **85%**
Adopted in National Textbooks[63]
Powering AI education in 85% of South Korean elementary schools.

- **Validation & Certification**
  - Global Recognition
    Two-time BETT Awards Finalist (2025 & 2026).
  - Proven Excellence
    Winner of the Korea EdTech Excellence Award (Content & Services).
  - Certified Quality
    Fully certified for international safety (CE, INMETRO, KC).

Use in Educational Settings

Implementation in Pernambuco, Brazil (AI Makerspace): In a landmark project for the City of Caruaru, Pernambuco, AiON and FlatCo were successfully exported to establish premium 'AI Makerspaces' in 15 elementary schools, representing a 15% city-wide adoption rate. This project provides over 7,000 young learners with a high-end environment for early-stage AI and robotics exploration. The solution was selected for its exceptional accessibility; it is specifically optimized to run smoothly on low-spec tablets and supports 100% individual offline access. This ensures a stable learning environment where students can master complex AI concepts independently without a stable internet connection. The successful launch, attended by high-level city officials, received enthusiastic responses for its ability to significantly save instructional time while providing world-class AI training.

61 「Development of a Platform for Efficient Software, Robot, and AI Education in Elementary Practical Arts」 by Professor Jong-pyo Kang (2024)
62 「How to Use AI-Based Educational Robots in Technology and Engineering Classes」 by Professor Chun-shig Lee (2025)
63 Official adoption in 6 out of 9 6th-grade Practical Arts textbooks under the 2022 Revised National Curriculum

Implementation & Localization

- **Technical Requirements**

- Device & Platform

· **Devices:** Android Smartphone, PC, Chromebook.
· **Mobile & Tablet:** Install app via Google Play Store.
· **PC & Chromebook:** Web-based access via www.flatco.net (Zero-installation).
· **OS Support:** Window, ChromeOS, macOS, Android.

- Connectivity & Network

· **Plug & Play:** Instant auto-connection via USB dongle.
· **Offline Ready:** All AI features work without a network.
· **Cloud Sync:** Real-time code sharing and collaboration when online.

- Integration

Integration exclusively with proprietary hardware (AiON, Aible, and MOAI). Future development plans include expanding compatibility to incorporate third-party AI coding robots.

- Security

To ensure robust data privacy, the platform is designed to allow most functions to be utilized without a login. Authentication is required only when saving personal projects; in such cases, the system utilizes social media account integration exclusively. The platform operates on a 'privacy-by-design' principle, neither collecting nor storing personal data.

- **Language & Localization Readiness**

- Platform & Interface

Supports multiple languages including Korean, English, Japanese, Spanish, Portuguese, French, Hindi, and Lao, with rapid deployment available for additional language requests.

- Curriculum & AI Language Support

· **Standard:** 12 Core Lessons (Korean/English).
· **Localization:** Full sources provided for partner-led localization.
· **On-Demand:** Custom curriculum development available.

- **Partnership & Delivery Model**

- Partnership Type

Exclusive regional partnership model, focused on appointing exclusive distributors to spearhead regional operations in collaboration with local system integrators.

- Delivery Type

· **Hardware:** FOB / EXW terms.
· **Lead Time:** Within 3 weeks (Varies by quantity).
· **Software:** Instant cloud deployment & installation.

- Implementation Timeline

Instant Web access and App installation upon receipt of AiON and a dongle; full localization and teacher training are independently managed through an exclusive partnership, featuring comprehensive technical support from NEOPIA.

- Pricing & Licensing

· **Exclusive Partner Price:** $99 per unit (All-inclusive package featuring AiON hardware, all educational materials, FlatCo platform access, and comprehensive technical support).

- **Training & Capacity Building**

- Method

Zoom or on-site training for exclusive partners/instructors.

- Ease of Use

No coding knowledge required, thanks to intuitive UI/UX and teacher guides.

- Efficiency

Reduces instructor orientation time by 90% compared to competitors.

Sustainability & Scalability

- **Empowered Ecosystem**

Enables exclusive partners to independently lead local curriculum development and ecosystem growth, a model already proven successful in Brazil.

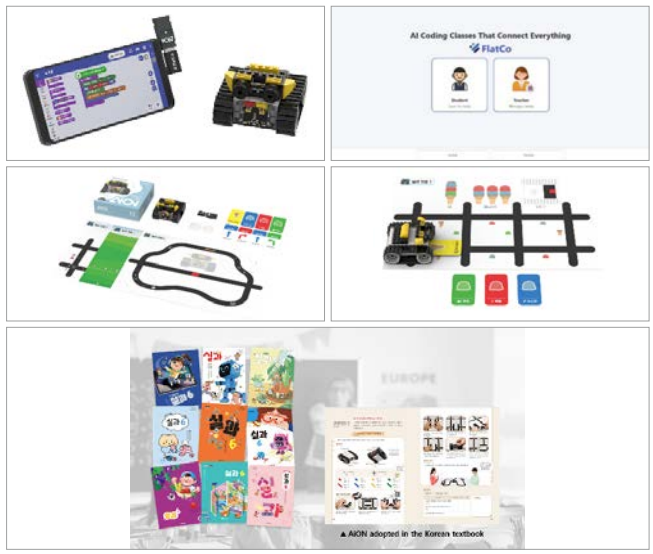
- **Tailored Localization**

Provides comprehensive technical support for platform localization into any language, ensuring FlatCo and AiON perfectly align with the specific needs of the LAC market.

- **Scalable Support**

Committed to providing premium technical maintenance and flexible solution adaptations based on regional partnership demands and proposals.

Visuals / Screenshots



Access & Demo Information www.flatco.net

Private | *Digital and AI Competencies*

NAVER Connect Foundation A nonprofit educational organization, established in 2011 by South Korea's largest search engine, Naver, delivering public-interest educational programs focused on developing life skills with AI and Next Life capabilities.

An AI-powered, block-based coding platform designed for learning and teaching programming through game and creative content development. K-12 HigherEd

Main Features

- **Block Coding**
  Users assemble command blocks to create games, animations, music, and other creative works while learning programming concepts.
- **Python Mode**
  Converts block-based code into text for direct Python coding and editing.
- **Structured Curriculum**
  Provides exercises linked to textbooks across various subjects including social studies, math, and practical arts enabling hands-on practice with both block and Python coding.
- **Open-Source Project Sharing**
  Enables project sharing, idea exchange, and collaborative creation.
- **Class Communication and Interaction**
  Supports assignment submission and study group organization for interactive learning.

Educational Evidence & Validation

Enhances computational thinking and problem-solving skills, and fosters interdisciplinary thinking by applying coding across multiple subjects.

- **Reached 4.87 million cumulative users, maintained 950,000 monthly active users, and generated over 41 million creations as of 2024.**
- **Featured in South Korean elementary and middle school textbooks, with all elementary students using Entry for introductory software education since 2019.**
- **2015** *Key Certification*
  1st SW Education Advancement Award, Minister of Science & ICT (KMOE & MSIT)

Implementation & Localization

Device /Platform	Web & Offline programs (Windows and macOS versions)
Connectivity	Online/Offline/Hybrid use. Entry PC version allows block-based coding offline, limited to the "Create" workspace, optimized for low-bandwidth.
Integration / Security	Account-based platform with secure project storage and data protection in accordance with published privacy policies.
Localization / Language	Platform UI in Korean and English
Delivery Model	Hybrid/Offline
Pricing	Free

Access & Demo Information https://playentry.org/

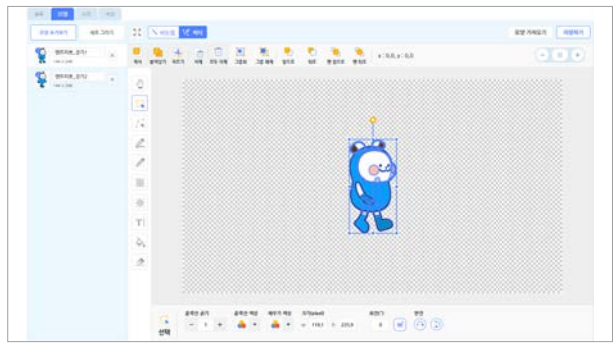


Image Source Entry Official Website

Private *Digital and AI Competencies*

Robolink An 'edutainment' company, founded in 2006, focusing on the development of educational hardware (HW) and software (SW) curricula, including educational robots and coding drone kits, while expanding its global presence through the establishment of its U.S. subsidiary.

codroneEDU

A programmable learning drone, controllable with Python or from the basics using block-based coding, serving as an exceptional tool for mastering coding and engineering skills. K-12 TVET/CTE

Main Features

- **Drone (Hardware & Flight)**
  - Flight Functions

    Performs actions via coding, such as flipping, obstacle avoidance, and color detection. Controls lights and sounds via coding to indicate events (e.g., obstacles, height limits) or just for fun.
  - Sensor Control

    The drone is programmed to interact with various sensors, including color sensors, front detection sensors (obstacle detection), optical flow sensors (position tracking), built-in buzzers (melody creation and alerts), temperature sensors, altitude sensors, barometers, accelerometers, a 6-axis gyro sensor, and LEDs (for status display and color missions).
  - Provides a stable signal, allowing for control of up to 15 drones in one classroom without interference.
  - Dones are equipped with flexible guards to minimize damage to both the drone and the classroom.
  - Features a modular design for easy replacement of parts.
- **Coding Program (Software)**
  - Drag-and-drop Block Coding

    Users can learn the basics of coding with an easy-to-use interface.
  - Python-based Coding

    Users can learn Python and program the Codrone EDU with real-time controls.
- **Others**
  - Lesson Planning Guide

    Provides structured lesson plans for Starter, Junior, and Senior levels.

Educational Evidence & Validation

Enhances students' STEM/STEAM, computer science, and future-ready skills through hands-on, project-based learning with drones.

- **Key Awards**

  Winner of the Kids Judge Bett Award, BETT Show (2025). Five-time recipient of the Korea Industry.
- **Award in the AI Coding category (2019–2023). Five-time winner of the Korea Industry Award in the AI Coding (Education) category (2019–2023).**
- **2022-2023** Selected as the official drone for the REC global robotics competition, a NASA-sponsored event with 30,000+ K–12 teams, recognized for its educational content and performance.
- **Praised by international media such as CNET, CNBC, and ABC, and recognized as one of the Top 6 Educational Robots by Robotics Trends.**

Implementation & Localization

Device	- Size: 124 x 138 x 35 cm - Weight: 57 g - Battery: 3.7V 530mAh - Charging Time: Within 60 minutes - Flight Time: 7-8 minutes - Speed: 2.5 m/s - Device Compatibility: Chromebook, macOS, Windows computers with a USB port
Connectivity	Online/Offline/Hybrid use. Wireless Protocol: Radio 2.4 GHz.
Localization / Language	- Coding Languages: Blockly, Python - Market Expansion: Expanded to North America, Austrailia, and additional regions, with official Amazon listings reaching customers in over 22 countries.
Pricing	USD 249 to USD 315. Price may vary depending on conditions.

Access & Demo Information https://www.robolink.com/

Image Source 1) Robolink Official Website
2) Nate News, "RoboLink integrates with TI engineering calculator 'CodeRone'... Unveils new STEM education model," August 26, 2025.

Private *Arts, SEL, Life Skills*

HippoT&C Inc. A digital health and education technology company founded in 2020, with a multidisciplinary team of 23 members specializing in AI, VR, psychology, and education.

An AI/VR-based social and emotional learning (SEL) assessment solution that objectively measures children's attention, self-regulation, and learning-related behaviors through immersive, task-based experiences in educational settings. K-12 SPED/SEND

Main Features

- **VR-Based Social and Emotional Learning Tasks**
  Students participate in short, structured VR missions that capture social, emotional, and behavioral responses related to attention and self-regulation.
- **Standardized Behavioral Data Collection**
  Tasks are completed under standardized conditions, enabling consistent collection of objective behavioral and SEL data, such as response timing, error patterns, and task persistence across settings.
- **AI-Based SEL Analysis**
  AI-based analysis identifies patterns in learning behaviors and social-emotional functioning, including sustained attention, task-level variability, and self-regulation difficulties.
- **Educator-Ready Individual Reports**
  The solution provides individual reports that help teachers understand each child's behavior, supporting stronger teacher–student relationships and more responsive classroom support.
- **VR-Based Follow-up Support**
  Based on assessment results, the solution provides structured follow-up support activities that reinforce engagement, self-regulation, and learning motivation.

Educational Impact

Enhances student engagement and learning continuity through early intervention on social-emotional challenges and timely, data-informed follow-ups.

8.8 / 10.0

Student Satisfaction[64]

High student participation and sustained focus during VR-based sessions

68%

Behavioral Improvement[65]

Behavioral improvement reported for over two-thirds of students by parents

89.3%

Clinical Accuracy[66]

The core algorithm, validated through AttnKare-D, demonstrated higher diagnostic performance than commonly used assessment tools (~79%)

- **Validation & Certification**
  - The solution has accumulated over 8,000 task-based behavioral data records collected from real educational and institutional settings.
  - Deployed across 50+ public education institutions and public child and youth facilities.
  - In 2022, the company received two CES Innovation Awards in the Virtual & Augmented Reality and Digital Health & Wellness categories.
  - In 2025, the solution received the Korea Artificial Intelligence Innovation Award (AI Healthcare category), presented at a nationally recognized AI innovation awards program.
  - The solution has been validated through pilot implementations conducted over a two-year period, involving 303 children, demonstrating stable and reliable operation in child support settings.
- **Equity, Inclusion, and Safeguards**
  - Designed for use with children and adolescents under parental consent and supervised school operation, aligned with international child protection standards.
  - Developed and operated under a KGMP-compliant quality management framework, with cybersecurity practices aligned with ISO/IEC 27001 principles.
  - Supports equitable and inclusive use across diverse educational environments, including underserved and rural areas.

64 Internal survey conducted across 21 schools (n=1,007), 2025.
65 Pre-post behavioral score comparisons from CogMo participants (n=186).
66 Oh et al., "Diagnosis of ADHD Using Virtual Reality and Artificial Intelligence: An Exploratory Study of Clinical Applications," Frontiers in Psychiatry, 2024.

Use in Educational Settings

· Middle School Case Study (South Korea)

The solution was implemented as a school-wide assessment program for 209 first-year middle school students, with teachers scheduling standardized VR sessions during designated school periods.

Following the sessions, aggregated reports were reviewed by teachers and school administrators to examine patterns in student engagement and social-emotional learning characteristics.

The results were used to support school-level improvement activities and policy decisions, including student support planning, class organization, and coordination with school counseling services.

These activities supported early student support planning and helped schools proactively address engagement challenges before they led to prolonged disengagement.

Implementation & Localization

- **Technical Requirements**

- Device & Platform

VR-based application compatible with major HMDs used in schools and institutions, including the Meta Quest series, operated through a PC-based management console and standard Windows environments.

- Connectivity & Network

Stable internet connection required for session management, data transmission, and result processing. (Recommended bandwidth: ≥30 Mbps per device)

- Security

Encrypted data transmission and role-based access control, aligned with international child protection safeguards.

- **Language & Localization Readiness**

- Platform & Interface

UI available in English. Additional languages can be supported through a structured localization process.

- Secured Localization

Localization is conducted using ISO 17100–based translation workflows, ensuring consistency and quality while allowing cultural and educational adaptation.

- **Partnership & Delivery Model**

- Partnership Type

B2G (ministry- or government-led projects) and B2B (schools, districts, and educational or child-support institutions) deployment models, typically implemented in collaboration with local partners or system integrators.

- Delivery Type

Delivery is carried out via cloud-based data management with hardware-integrated deployment with on-site PC installation and connected VR devices for task execution.

- Implementation Timeline

Initial setup within 1 week; full localization, configuration, and teacher training in 4-8 weeks, depending on project scale.

- Pricing & Licensing

Project-based pricing includes flexible licensing options, including per-use pricing and time-based subscription models (e.g., monthly, or annual), determined by project scope.

- **Training & Capacity Building**

- Delivered through initial orientation sessions and optional follow-up workshops, supported by written guides and instructional videos.

- 2–5 hours of training enables educators to operate sessions and understand basic assessment results in classroom settings.

- Supported by remote technical assistance and update briefings as part of institutional deployment.

Sustainability & Scalability

- **Maintenance & Support**

The solution is operated under a KGMP-compliant quality management framework, with the company's technical team providing continuous maintenance, controlled updates, and operational monitoring to ensure stable and secure system operation.

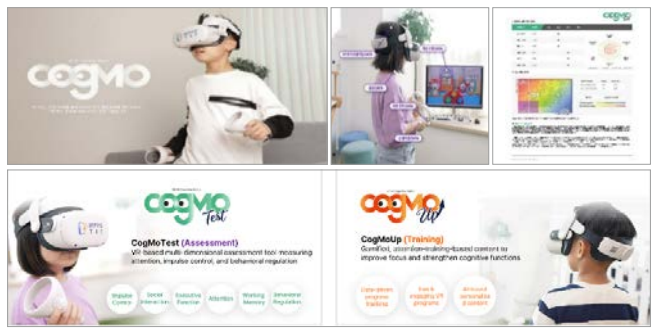
- **Long-term Partnership & Capacity Plan**

Deployment in the LAC region is planned through project-based partnerships with local schools and public organizations, with initial training provided to enable independent local operation.

- **Expansion Strategy**

The platform supports phased expansion in the LAC region through IDB-aligned projects and collaboration with local education ministries and partners, with localization adapted to national digital education priorities.

Visuals / Screenshots



Access & Demo Information www.hippotnc.com

Private | *Arts, SEL, Life Skills*

i-Scream Art A digital art education company and a subsidiary of i-Scream, a leading EdTech provider to 95% of South Korean elementary schools, specializing in art and visual learning.

ART BONBON

The world's first integrated digital art education platform, offering school-ready digital creation tools, such as watercolor and oil-style drawing tools optimized for tablet and digital pen use, and AI-based art psychology assessments for analyzing students' emotions and generating detailed reports. K-12 (Primary)

Main Features

- **Digital Art Creation Platform**
  Tablet- and PC-based digital drawing tools enable watercolor and oil painting effects without traditional art supplies, supporting intuitive and creative expression.
- **AI-Based Art Psychology Assessments**
  The analysis of drawings and teacher–student interactions helps assess creativity, participation, and cognitive, emotional, and social development, through AI-powered reports.
- **AI-Assisted Drawing & Tutoring System**
  The real-time learning of students' drawing patterns, personalized guidance, and AI-generated sketches from photos or text help support artwork completion.
- **Live Online Art Education (1:1 / 1:N)**
  Real-time online classes are delivered by qualified children's art educators, all holding professional certifications and advanced academic backgrounds, with extensive teaching experience, supported by tools for student management, drawing correction, and interactive art instruction.
- **Curriculum Planning & Learning Management (LMS)**
  Class and lesson management, age- and development-based lesson planning, and AI-recommended curricula from over 340 art classes are aligned with student interests.
- **Digital Art Gallery & Global Community**
  Digital sharing of children's artwork and global peer interaction is made possible within a safe online community.

Educational Evidence & Validation

Fosters creativity and imagination through digital drawing, while providing teachers with drawing-based assessments to tailor lessons to each student's personality and emotional needs.

- **Adopted by approximately 850,000 students nationwide in South Korea (~15% of the primary to secondary school population).**
- **Key Certifications**
  Silver Award at the Asia EdTech Summit (2022) and GESS Dubai Awards finalist for Best Classroom Product (2023).
- **Achieved 95% teacher satisfaction and re-enrollment rate (ArtBongBong Official Website).**
- **Conducted school pilot programs with See-ed and Aksorn (leading Thai education publishers and education service providers), and initiated collaborative research with university professors and local companies in Vietnam.**
- **2025** Conducted pilot programs in two high schools in Cambodia (approximately 115 students), enabling teachers to efficiently manage and provide feedback on student artworks through a unified interface, while students demonstrated increased engagement, self-expression, and creativity using intuitive digital art tools (KOICA Youth Program Field Report).
- **2025** Signed a technology validation agreement with TBS Innovation Partners, a subsidiary of Japan's leading media group TBS Holdings.

Implementation & Localization

Device /Platform	Web and mobile app (iOS/Android), compatible with major OSs (Windows, macOS, ChromeOS) and devices (PC, tablet).
Connectivity	Online/Offline/Hybrid use. Requires internet connectivity for artwork saving and synchronization, while offering limited offline functionality.
Integration / Security	Complies with the Personal Information Protection Act (PIPA) and applies technical, administrative, and physical safeguards, including encryption and access controls.
Localization / Language	- Platform UI in Korean and English - Used in classrooms in Thailand, Cambodia, and beyond.
Delivery Model	Cloud-based SaaS, hybrid/offline
Pricing	Annual license: USD 3.85 per student/month

Access & Demo Information https://art-bonbon.com

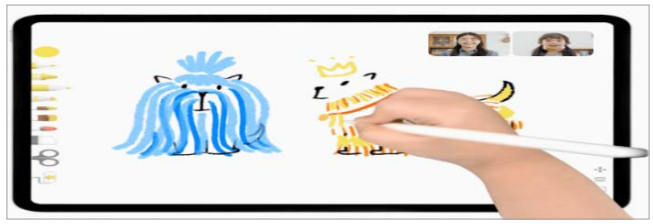


Image Source IT Chosun, "Ice Cream Art launches online 1:1 art class 'ArtBongBong'," (April 18, 2024)

Private | *Arts, SEL, Life Skills*

SimG An XR solution developer, established in 2013, specializing in VR, AR, and MR content with a primary focus on heavy equipment simulators and industrial training solutions.

Features a comprehensive lineup of 3D simulators, ranging from high-demand equipment such as excavators and forklifts to specialized machinery including cranes, loaders, dozers, and graders. K-12(Secondary) TVET/CTE Lifelong Learning

Main Features

- **Realistic Equipment Control Interface**
  Designed with steering wheels, joysticks, levers, and pedals that closely replicate the controls of real excavators and forklifts, enabling trainees to develop practical skills that can be directly applied in the field.
- **Real-World-Based Training Environment**
  Provides immersive training scenarios based on actual construction and logistics operations, including excavation, loading, transporting, obstacle avoidance, and warehouse material handling in safe virtual environment.
- **Three-Stage Learning System**
  Offers Practice, Test, and Mission modes, allowing trainees to progress from basic equipment operation and license preparation to advanced job-site tasks and performance evaluation.
- **Advanced Soil Physics Simulation Technology**
  Powered by SimG's proprietary Live-TerrainTM technology, the simulator calculates real-time interactions between heavy equipment and terrain. Using particle-based physics simulation, it realistically reproduces excavation, loading, dumping, and terrain deformation processes.
- **Intergrated CMS & LMS Platform**
  Supports efficient training management through a comprehensive CMS(Content Management System) and LMS(Learning Management System). Instructors can monitor multiple trainees in real time, control training sessions remotely. Through the LMS, instructors can access automated performance reports for individuals and groups, enabling effective training performance management.
- **Scalable Training Solution**
  Avaliable in Basic, VR, Multi-Display, and Essential configurations, allowing customers to select the most suitable training solution based on their training objectives, installation environment, and budget.

Educational Evidence & Validation

Provides safe and immersive hands-on training that improves workforce readiness while reducing accidents, training time, and costs.

- **Deployed across vocational schools, technical colleges, and public training institutions, and military organizations, including the South Korea Army Engineer School, for hands-on training and certification-oriented education in construction, logistics, and manufacturing.**
- **Key Certifications**
  Awarded the Minister of Education Award (2020, Ministry of Education).
- **Demonstrated a 28% increase in Excavator Practical License Exam pass rates following simulator-based training.**
- **Certified with GS Certification Level 1, the highest grade for software quality assurance in South Korea.**
- **Holder of multiple registered patents related to simulation and training technologies.**
- **Established strategic partnerships in Japan, Thailand, and Argentina to support market expansion and local customer services.**

Implementation & Localization

Device	Models: Basic Type | VR Type | Multi-Monitor Type | Essential Type
Connectivity	Online/Offline/Hybrid use. Operable offline, with optional connectivity for updates and internal content expansion.
Localization / Language	Website available in 5 languages, including Korean, English, Spanish, Japanese, and Vietnamese.
Deployment	On-premise installation with centralized management.
Pricing	Price may vary depending on conditions.

Access & Demo Information https://simgxr.com/

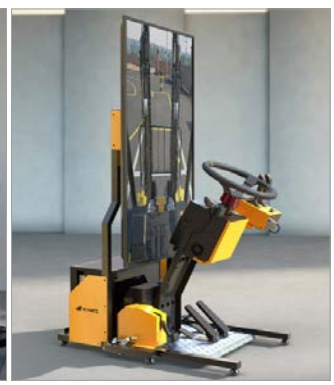


Image Source SimG Catalog

Private | *Arts, SEL, Life Skills*

Twohands Interactive Inc. A leading immersive interactive solutions company with over 20 years of game development experience and expertise in 3D spatial analysis, pioneering digital physical education, and shaping the future of fitness.

DIGITAL PLAYGROUND DIDIM

A contactless AR indoor fitness platform based on LiDAR sensors that accurately track user movements and integrate them with a variety of exercise content to provide a smart workout system.

K-12 | Lifelong | Learning

Main Features

- **Portable All-in-One System**
  Easily movable and adaptable to any space with projector capability, enabling full-body exercise without extra equipment.
- **Personalized Fitness Tracking & Assessment**
  Records individual exercise data (workout type, duration, intensity) and evaluates basic fitness levels to help users monitor and improve performance.
- **Customizable Circuit Training & Extensive Content** Library
  Allows users to create personalized workout programs by combining preferred exercises, offering over 150 types of content including physical training, brain exercises, and fitness games.
- **Curriculum Integration**
  Provides teaching materials aligned with a 38-week physical education curriculum.
- **Network Play & Global Ranking**
  Connects users worldwide for real-time workouts and rank-based competition.

Educational Evidence & Validation

Enables full-body exercise anywhere with an AR fitness platform and game-based apps, promoting consistent workouts and improving strength and endurance.

- **Key Recognition & Awards**
  Recognized by HolonIQ, a global education market research firm, as a "Promising East Asia EdTech Company" (2025); GESS Education Awards 2025 finalist; and officially listed on the International EdTech Association's EdTech Index (2025).
- **2025** *United States*
  Validated through a PoC with teachers and students in Kansas City, via LeanLab Education, earning ESSA Tier IV certification, the first for a South Korean EdTech company, confirming evidence-based design and measurable impact.
- **2024** *Europe (UK)*
  Validated by EdTech Impact through a three-month pilot in European PE settings, achieving a 91% educational quality score across learning objectives, instructional approach, and learner engagement, and earned an international pedagogy certification.
- **2024** *Mongolia*
  Didim was donated to and installed at the Dornod Education Department, accompanied by PE teacher training and online PE competitions connecting South Korean and Mongolian students.
- **South Korea** Didim underwent hands-on evaluations in elementary schools, receiving positive feedback on PE class satisfaction, systematic design, and intuitiveness (2023), and was later expert-validated as a future-ready education model (2025).
- **2025** *UK*
  Didim was implemented and observed in a UK specialist school, where it demonstrated support for students with autism and co-existing diagnoses.

Implementation & Localization

Device	- Size (Folded): 480 × 1630 × 420 mm - Size (Unfolded): 2010 × 1630 × 420 mm - Weight: 54 kg - Projector: Full HD (1920×1080), 4000 lm, 22,000:1 - Screen Size: 4.5 × 2.5 m - Power: 220V / 60Hz, 500 W
Connectivity	1 Gbps Wired LAN for stable performance, 802.11ac Wireless LAN, Bluetooth, and optional smartphone tethering as a backup connectivity option.
Localization / Language	- Languages: Korean, English, Chinese, and Japanese - Branches: South Korea and Japan - Global Markets: Latin America, the Middle East & Africa, and Asia-Pacific; serving 20+ countries worldwide.
Deployment	Indoor installation required in a 6m × 5m space for a single unit, expandable to 12m × 5m for dual parallel setup. Optimal performance requires flat flooring and controlled lighting conditions.
Pricing	- USD 15,000 - Procurement options: short-term rental, one-time purchase, and installment plans.

Access & Demo Information https://play-didim.com/

Image Source Didim Official Website

Public *Information Portals and platform*

Seoul Education Research & Information Institute A public research institute under the Seoul Metropolitan Office of Education (SOME), established in 1948, conducting comprehensive educational research, supporting teacher professional development, and providing AI- and digital-based teaching, learning, and career resources to advance education in Seoul.

Integrating teaching and learning platform operated by SMOE. SEN School enables teachers to utilize diverse AI-enabled EdTech tools through single sign-on (SSO), collects and analyzes learning data generated in blended classrooms to provide insights on student achievement and competency, and delivers personalized education through big data-driven prediction and recommendation. K-12

Main Features

- **Unified Authentication & Learning Passport (SSO)**
  Provides single sign-on (SSO) through Google, Microsoft, Naver, and Apple accounts. Built on OneRoster and LTI/xAPI standards, the platform issues a Learning Passport that consolidates blended learning records and enables school- and teacher-managed student data analysis.
- **Integrated EdTech Ecosystem**
  Connects 36 EdTech services including Miricanvas, Canva, SenGPT, QuizN, Classting, and Google Workspace through a unified portal, enabling seamless access to diverse digital learning tools without separate logins.
- **AI-Powered Learning Analytics Dashboard**
  Analyzes learning data generated across blended classroom activities to visualize student attendance, task completion, learning time, and competency progress, supporting data-driven instructional decisions.
- **Education MyData (EODS)**
  Consolidates student information, learning records, and assessment data from multiple EdTech services into a single, consent-based Education Operational Data Store (EODS), forming the foundation for personalized education at scale.
- **Content Creation & Management**
  Provides tools for creating, managing, and organizing learning content, including a Learning Content Management System (LCMS) and curriculum-aligned learning maps.

Educational & Administrative Impact

Enables blended and personalized learning through AI-powered EdTech tools, learning analytics, and integrated digital learning services.

- **Enhances Public Classroom Learning**
  Activates digital learning in both online and offline classrooms, integrating private EdTech tools to support teachers and students.
- **Supports Personalized Learning**
  Builds curriculum-aligned learning maps and recommends individualized learning paths based on student progress indicators.
- **Strengthens Evidence-Based Instruction**
  Facilitates data-driven decision-making and connects content and tools through an integrated EdTech ecosystem.
- **Validated at Scale**
  Jointly developed by 11 Metropolitan and Provincial Offices of Education, each operating the platform under its own regional brand serving 6,300 schools, 190,000 teachers, and 2.64 million students nationwide. Seoul operates the platform as SEN School, with full deployment to all Seoul schools completed as of 2026.
- **Equity, inclusion, and safeguards**
  The solution follows inclusive-by-design principles, ensuring access for all learners in school and alternative learning environments. It connects public institutions with private EdTech providers to enhance educational outcomes.

Use in Educational Settings

- **School and Home Use**
  Utilized during regular class hours at schools and for assignments at home. Used under teacher supervision, with students allowed self-directed learning when permitted.
- **Example 1 AI-Powered Personalized Learning (Primary)**
  Teachers access curriculum-aligned learning maps and AI recommendations to design individualized learning paths based on each student's progress indicators.
- **Example 2 Integrated Blended Classroom (Secondary)**
  Teachers conduct online class sessions via integrated tools such as Google Meet and Classting, with participation and learning records automatically tracked through the platform's analytics dashboard.

Policy & Institutional Foundations

- **Legal Basis**
  - National policy agenda “1 Million Digital Talent– Support for mandatory SW/AI education, digital education gap reduction, and digital talent infrastructure development”.

- Seoul Metropolitan Office of Education (SMOE) Information Strategy Plan (ISP), 2021
- 2023-2026 Mid-Term Development Plan for Seoul Education, SMOE, 2022

- **Governance Structure**

- National Council of Superintendents of Education

Platform proposal.

- National Information Society Agency (NIA)

System architecture, development, cybersecurity, nationwide operation.

- Metropolitan and Provincial Offices of Education

Regional administration and coordination oversight.

- Schools

Pilot operation, data entry, validation, and daily operation.

- **Budget**

Approximately USD 44.5 million (KRW 59.8 billion), jointly financed by 11 Metropolitan and Provincial Offices of Education.

Implementation & Localization

- **Phased Adoption Approach**

- Phase 1: System Design & Planning

· Education portal system design
· SSO framework design
· Intelligent learning record system (LRS) design
· Educational service indicators and learning map design

- Phase 2: Core Platform Development

· Education portal system construction
· SSO implementation
· Intelligent learning record system (LRS) deployment
· Big data model and learning map development
· Learning standards map construction
· Education content distribution system setup

- Phase 3: AI & Analytics Integration

· AI-based learning analytics system development
· AI learning resource map creation
· Intelligent learning analytics (Dashboard) construction
· Education distribution system upgrade

- Phase 4: Stabilization & Ecosystem Expansion

· Region-specific service expansion
· Private EdTech content distribution ecosystem promotion
· Private-public cloud infrastructure extension
· Educational MyData utilization framework establishment

- **Technical Requirements**

- System Architecture

Interoperability with LTI 1.3, OneRoster, and xAPI/cmi5, supporting LMS integration, roster synchronization, and learning activity tracking.

- Network Requirements

Web-based platform accessibility in any location with internet connectivity, without requiring additional equipment.

- Hardware Requirements

Utilization of standard PCs or laptops, along with secure, centrally managed servers,

- leveraging the existing LAN/Wi-Fi infrastructure in schools or homes.

- Software Requirements

Web-based interface accessible via standard browsers, with secure authentication and national SSO compatibility.

- Security & Data Protection

SAML (Security Assertion Markup Language).

Sustainability & Scalability

- **Expansion Strategy**

- Financial Sustainability

Platform costs are shared across participating public education authorities, reducing per-institution financial burden and enabling long-term operational continuity.

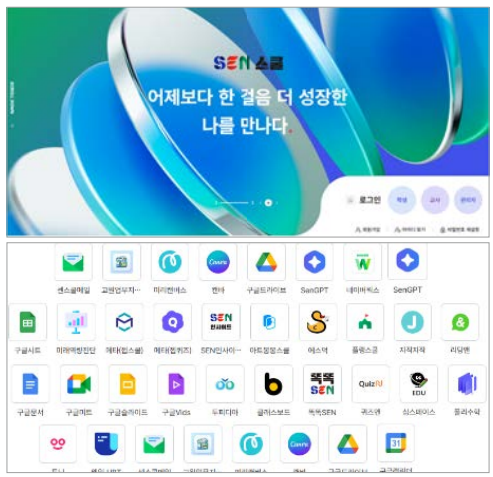
- Ecosystem Scalability

Built on open interoperability standards (LTI 1.3, OneRoster, xAPI/cmi5), the platform can integrate additional EdTech services and expand its ecosystem without major infrastructure overhaul.

- Model Transferability

Open standards compatibility and a modular architecture reduce localization costs, making the platform adaptable to different curricula, languages, and regulatory environments across LAC education systems.

Visuals / Screenshots



Access & Demo Information https://senedu.kr/

Public *Information Portals and platform*

Korea Research Institute for Vocational Education & Training (KRIVET) A government-funded research institute established in 1997 under the Office of the Prime Minister, conducting research on technical and vocational education and training (TVET) policies and qualification systems, and developing and disseminating TVET programs to enhance the sector and strengthen national workforce competencies.

CareerNet

A comprehensive career information platform supporting career exploration and decision-making across different age groups, providing psychological and aptitude assessments, occupation and academic pathway information, and school-applicable career education resources. Lifelong Learning TVET/CTE

Main Features

- **Career Psychological and Aptitude Assessments**
  Age-specific services including vocational aptitude tests, vocational interest tests (K- and H-types: K-type identifies interest in specific occupations, while H-type assesses interest types and provides detailed occupational information), career development tests, and work values tests.
- **Online Career Counseling**
  Personalized online counseling is provided by certified professionals, with access to real-life counseling cases and expert advice on careers and academic pathways.
- **Occupation and Academic Major Information**
  Users can access an occupation encyclopedia featuring over 500 professions, professional interviews, occupation–major matrices, and comprehensive information on schools and academic majors.
- **Career Education Resources**
  Comprehensive resources are provided to foster career education knowledge and practical guidance, including training materials for teachers on career education, best practices in career-related classroom instruction, and career experience programs.

Educational Evidence & Validation

Supports self-directed career learning for students, helping them understand themselves, explore career options, and develop practical career skills, while providing teachers with guidance for effective career education.

- **Provides over 10,000 career counseling sessions each year with 188 counselors across educational and public institutions, and conducts more than 2 million online career assessments annually.**
- **Equity & Inclusion**
  Provides equitable access to career information through a public platform, offering inclusive and accessible services for a wide range of users.

Implementation & Localization

Legal Basis / Institutional Requirements	Career Education Act.
Governance Structure	MOE (Policy development and Career education initiatives) – KRIVET (System operation) – Provincial offices (Regional implementation and School support).
Budget	- Not publicly disclosed - Recent Investment: Approx. USD 940,211 allocated for system redevelopment (RFP, 2024).
System Architecture	Centralized national career information platform with public web access, cloud based infrastructure transitioning from hybrid servers.
SW/HW Requirements	Web- and App- based platform accessible via standard PCs and laptops, and mobile devices.
Security & Data Protection	Complies with the Personal Information Protection Act (PIPA) and implements documented technical and administrative safeguards for secure handling of personal data.

Access & Demo Information https://www.career.go.kr/cloud/w/main/home

Image Source CareerNet Official Website

Private *Tools (LMS, Collaboration, Authoring, Quiz, etc.)*

Classum A web service and software development company delivering an interactive learning platform that connects learners and educators, supporting over 4,000 institutions across 24 countries by delivering classes worldwide, and serving as Zoom's official APAC partner.

CLASSUM

An all-in-one AI-powered learning platform integrating a Learning Experience Platform (LXP) and chat-based academic advising, delivering personalized and communication-centered learning experiences beyond conventional LMS models. K-12 HigherEd Corporate

Main Features

- **Career Psychological and Aptitude Assessments**

- AI Teaching & Assessment Support

  AI assists in quiz creation, rubric-based grading, automated feedback, and source-based answers to student questions derived from course materials.

- AI-powered Content Management

  Summarization and translation of learning materials is carried out to support understanding and multilingual access.

- Q&A and Communication

  Students can get help anonymously via posts with category filters with search functions, multi-format classroom communication (text, polls, reactions, images, videos, GIFs), and class announcements and notifications.

- Learning Management

  Assignment, grade, and attendance management is carried out with analytics dashboards for tracking student progress and engagement.

- Class Delivery

  Lessons can consist of live instruction, real-time video sessions, and on-demand recorded lectures through Zoom integration.

- **AI Academic Advising System**

- AI Academic Advising Chatbot

  The RAG-based, data-driven chat supports integrating academic regulations, announcements, and FAQs in real time, delivering accurate, source-cited responses and automated policy updates via API.

Educational Evidence & Validation

Transforms learning into an active, communication-centered experience by driving high student participation, frequent learning interactions, and scalable academic support across higher education.

- **Validated through adoption by over 13,000 institutions across 32 countries, including leading South Korean universities such as Seoul National University and KAIST.**

- **Baewha Women's University**
  - After LXP adoption, 76.2% of students generated posts and 85.9% contributed replies, averaging 77.9 interactions per student.
  - Ranked as the second most-used tool after PowerPoint in a 2024 campus survey and rated as easy to use as ChatGPT, demonstrating exceptional usability.

- **Ulsan University**
  - Generates 2,500+ chatrooms per month, handling 28% more inquiries compared to the pre-adoption period.
  - Achieved a 66.3% usage rate (1.7× higher than the average LMS at other universities) and an 8× increase in total posts over the previous platform.

- **Adopted by 9 universities in South Korea, serving over 66,000 students (~2.6%) through the AI academic advising system 'Classum Connect'.**

- **2021-2024** Recognized as a Top 150 EdTech in East Asia for four consecutive years.

Implementation & Localization

Device/ Platform	Web and mobile app (iOS/Android), compatible with major OSs (Windows, macOS, ChromeOS) and devices
Connectivity	Online/Offline/Hybrid use
Integration / Security	LTI 1.3 certified, Interoperable with Zoom and CMS / ISO certified hosting.
Localization / Language	Multilingual settings available, currently supporting Korean and English.
Delivery Model	Cloud-based SaaS / SDK-Based Integration: Direct embedding into institutional portals and academic systems.
Pricing	Price may vary depending on conditions.

Access & Demo Information https://business.classum.com/

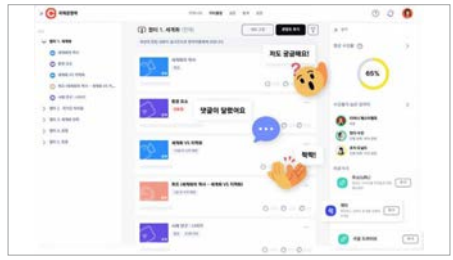


Image Source Hankook Ilbo, "EdTech Classum raises 15 billion KRW investment from Dunamu and others," (October 11, 2022)

Private *Tools (LMS, Collaboration, Authoring, Quiz, etc.)*

Edu-Aid An EdTech company founded in 2023 by a Korean elementary school teacher, developing classroom-centered digital learning solutions that support teachers and improve everyday classroom practice.

Dahandin & Dahandout

A cloud-based SaaS classroom management platform that centralizes class administration, learning activities, and student progress tracking through 'Dahandin' for teachers (web-based) and 'Dahandout' for students (web/mobile). K-12

Main Features

- **Comprehensive Student Record Management**
  Tracks assignments, feedback records, student learning progress, classroom behavior notes, and teacher-generated observations, which can support school reporting, counseling, and assessment preparation.
- **Assignment Management**
  Creates basic and recurring tasks, assigns individualized work, and tracks submission status.
- **AI-powered summary and report support**
  Organizes teacher-written feedback and classroom interaction records into summaries that can be used for semester-end assessment, counseling, and student growth documentation.
- **Real-Time Feedback & Notifications**
  Enables teachers to monitor student activity and send instant feedback and submission reminders via push notifications.
- **Classroom Reward System**
  Reinforces positive learning behaviors through points and badges.
- **Instant Student Access**
  Allows students to join classes with a code and continue using the service without repeated logins, preventing learning disruptions caused by forgotten IDs or passwords.

Educational Evidence & Validation

Reduces the time spent tracking student performance, enabling more timely support and allowing teachers to focus on teaching and meaningful student interaction through AI-powered classroom management.

- **As of 2026, Dahandin has been used by over 67,000 teachers and more than 1.6 million students in South Korea.**
- **Pilot Evaluation**
  Rated 4.8/5 for usability, stability, accessibility, and safety by experts and teachers from a South Korean regional education office and Learning Spark, a South Korean EdTech platform.
- **2024** Key Certifications: Ranked 1st in three categories in the South Korea EdTech Market Map Survey (Learning Management Systems, Administrative Support Tools, Quiz/Assessment/Feedback), and 2nd in one category (Classroom Support Tools).
- **2023-2025** Provided a replica of the service in Rwanda and conducted teacher training programs for Rwandan educators.
- **2023-2024** Partnership with Dong-A Publishing, a major textbook publisher in South Korea, for service provision.
- **Active promotion of the platform by teachers**
  Establishment of the "Dahyeosal Research Group" (2022), Publication of the "Dahandin Dahandout 100 Ways to Maximize Its Use"(2023)

Implementation & Localization

Device/ Platform	Web and mobile app (iOS/Android), compatible with major OSs (Windows, MacOS) and devices
Connectivity	Online use
Integration / Security	Protects user data with encrypted passwords, controlled access, and advanced security measures against unauthorized access and cyber threats.
Localization / Language	Platform UI available in 3 languages, including Kinyarwanda, for Rwanda deployment.
Delivery Model	Cloud-based SaaS
Pricing	Individual teacher subscription in South Korea: KRW 99,000 per school year, charged per teacher account regardless of the number of students. Institutional and international pricing may vary depending on deployment scale and partnership conditions.

Access & Demo Information https://dahandin.com/login

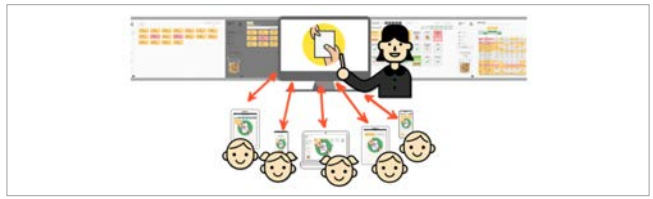


Image Source dahandin Official Blog, Teacherville Website

Private *Tools (LMS, Collaboration, Authoring, Quiz, etc.)*

MiriDiH A leading design platform company in South Korea, founded in 2008, offering a proprietary platform with over 530,000 templates, enabling users to easily and efficiently create their desired designs.

miriCanvas

A web-based design platform for creating, editing, and sharing presentations, posters, card news, banners, and videos.

K-12 | HigherEd | Lifelong | Learning | Corporate

Main Features

- **Template Library**
  Access to over 530,000 templates, including presentations and videos.
- **AI Design Engine**
  Enables multi-keyword template search and context-based style recommendations.
- **AI Content Generation**
  Can automatically create presentation drafts and images based on a given topic.
- **AI Writing Assistance**
  Allows automatic text drafting with tone adjustment and grammar correction.
- **Advanced Editing Tools**
  Provides background removal, area eraser, image enhancement, and animation effects.
- **Print & Design Services**
  A one-stop print production with a one-click design request service, offering delivery, not only within South Korea, but also to the United States and Japan.
- **Real-Time Collaboration**
  Live co-editing with a shared drive for storing and managing multiple works.

Educational Evidence & Validation

Enhances the content creation capabilities of teachers and students, while reducing the burden of lesson preparation by minimizing the time and efforts required for external content sourcing.

- **Has 2 million monthly users, 15 million total sign-ups, services available in over 180 countries, and more than 400 million design downloads.**
- **Adopted by over 3,000 schools (~15% nationwide in South Korea), more than 120,000 teachers (~24%), and all 17 MPOEs.**
- **2025** Offered MiriCanvas Pro for free to 380,000 teachers and staff across All 17 MPOEs in South Korea, including Seoul and Incheon.
- **Included in the "Top 10 AI Chart," analyzed by AI Matters, an AI-focused information platform, based on generative**

Implementation & Localization

Device/ Platform	Web and mobile app (iOS/Android), compatible with major OSs (Windows, macOS, ChromeOS) and devices.
Connectivity	Online use
Integration / Security	Seamlessly integrates with third-party services while keeping user data secure through encryption, access controls, and strict privacy measures.
Localization / Language	Platform UI in 9+ languages
Delivery Model	Cloud-based SaaS
Pricing	- Basic: Free - Pro: USD 109 per year - Education: Group subscription for 30 users at USD 3.50 per user per month (price may vary depending on the number of users).

Access & Demo Information https://www.miricanvas.com/en

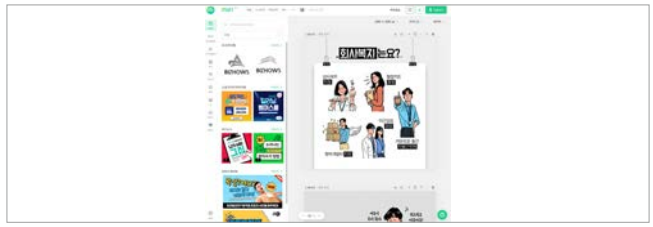


Image Source
1) Ilgan Sports, "'MiriCanvas' service operator MiriDiH selected as '2019 Kibo-Star Venture Company'," (July 5, 2019)
2) MiriCanvas Official Website
3) DongA.com, "AI Guide: BizHouse for Small Business Promotion" (July 18, 2025)

Private *Tools (LMS, Collaboration, Authoring, Quiz, etc.)*

NAVER Cloud A leading IT company, a subsidiary of Naver, South Korea's largest search engine with over two decades of experience in IT services and infrastructure, recognized as the country's top cloud provider, delivering core technologies such as hyperscale AI, SaaS, and data center capabilities.

whalespace

AI usage data from South Korean users. An all-in-one education platform that provides a consistent learning environment at school or home through a single integrated account, connecting essential educational services, including teaching tools, classroom management, and collaborative work, to support efficient, smart education. K-12 HigherEd Lifelong Learning Corporate

Main Features

- **All-in-One LMS**
  An online course creation, personalized learning path management, and quiz and assessment delivery system.
- **Browser-Based Virtual Classroom**
  Real-time video instructions are accessible directly through the browser without installation.
- **Collaborative Online Whiteboard**
  Real-time collaborative whiteboards can be used by instructors and multiple students.
- **Device & Classroom Control**
  Teachers can monitor screens, share tabs, block unnecessary apps, and configure student learning environments for efficient classroom management.
- **Integrated EdTech Access**
  Users can experience single-account access to multiple EdTech services and content within Whale Space.
- **Digital Assessment Platform (Ubiquitous-Based Test)**
  A single platform to manage all types of student assessments, projects, written assignments, quizzes, and exams. Provides high-quality questions, teacher-created question management, and AI-powered online proctoring for secure and reliable evaluations.
- **Administration & Platform Management**
  The management of institutions, organizations, users is centralized as well as the management of platform settings, configurations, and operations.
- **Browser Environment Customization**
  Provides a school-tailored browser with home screens, bookmarks, and extensions, while allowing personalization through widgets, themes, dual tabs, toolbars, and a collapsible sidebar.

Educational Evidence & Validation

Enhances teaching and learning by unifying educational services under a single account and providing a customizable environment, helping teachers focus and students engage.

- **Adopted in South Korea by all 17 MPOEs, over 18,000 schools, and more than 1.5 million users.**
- **2023** Participated in Mongolia's Ministry of Education and Science "Digital Classroom Project", providing Whale Space and Whalebook to 725 Mongolian schools to support the country's digital education transformation.
- **Whale Education Certification**
  Evaluated by domain experts for EdTech usability and stability, supporting a trusted digital learning ecosystem.

Implementation & Localization

Device/ Platform	Browser-based, compatible with major OSs (Windows, macOS, ChromeOS)
Connectivity	Online use
Integration / Security	- Certifications: CSAP (Cloud Security Assurance Program), CAS STAR Gold (2018) - Naver's proprietary database–powered Safe Browsing blocks malicious programs and harmful content, while each institution retains data sovereignty under the same policy applied internationally.
Localization / Language	Platform UI available in 60+ languages
Delivery Model	Cloud-based SaaS, browser-accessible, with optional offline access.
Pricing	Free: Schools or institutions receive accounts through partnerships with local education offices.

Access & Demo Information https://whalespace.io/

Image Source Naver Blog

Public | *Administration Systems*

Korea Education and Research Information Service (KERIS)
Established in 1999 under the Ministry of Education, KERIS is a public agency that leads South Korea's digital transformation in education by developing and operating major education information systems, and managing major national digital learning platforms, such as NEIS, K-Edufine, RISS, and digital learning services, with a staff of about 350.

NEIS

The National Education Information System (NEIS) is South Korea's official platform that seamlessly connects schools, families, and government agencies through digital innovation. All education administration information is processed electronically, reducing paperwork and ensuring efficiency across the entire education sector. The information form NEIS is made available publicly through the Education Information Disclosure System. K-12

Main Features

- **Student Academic & Attendance Management**
  Provides parents and students with easy access to academic records, certificates, and school-life information anytime, anywhere ensuring transparency and real-time monitoring of school performance.
- **Certificate & Application Services**
  Provides online issuance of important documents such as education certificates, graduation records, and applications for exams.
- **Data Integration and Standardization**
  Operates based on standardized data and metadata frameworks, enabling consistent data sharing and interoperability across the Ministry of Education, 17 Metropolitan and Provincial Offices of Education, local education support offices, kindergartens, elementary schools, middle schools, high schools, and special schools.
- **Statistics and Decision Support**
  Provides educational statistics and decision support by collecting and integrating large-scale data on students, teachers, and school facilities, the system generates statistical information essential for education policy development and school management. Teachers have noted that NEIS significantly improves efficiency by enabling the automatic generation of statistics that were previously compiled manually.

Educational & Administrative Impact

NEIS serves as South Korea's central digital platform for education administration, used daily by schools to manage student records, academic processes, and school operations. By integrating administrative functions into a single system, NEIS improves transparency and efficiency while reducing administrative burdens, allowing schools to focus more on teaching and learning.

+22.3%[67]
63 Sectors/335 Subtasks
The increased number of educational administrative tasks processed through the 4th-Generation NEIS.

37 types[68]
of Educational Certificate Issuance Services
13 services for students, 8 for qualification examinations, 7 for teaching personnel, and 9 for lifelong education.

87.62%[69]
User Satisfaction
Average service satisfaction score from surveys of NEIS teachers, students and parents as of November 2022.

97.9%[70]
User Request Resolution Rate
For the 4th- Generation NEIS as of November 2023.

- **Upgrade & Usage Status**

In response to evolving education policies, the Ministry of Education and KERIS launched the fully revamped 4th-generation NEIS on June 2023, serving 17 Metropolitan and Provincial Offices of Education and approximately 12,000 schools nationwide.

- **Validation & Certification**
  NEIS is a legally mandated national education administration system used by all K-12 schools nationwide, validating its reliability through mandatory adoption and long-term operation.
- **Users**

- Educational Institutions
  Kindergartens (approx. 8,900), elementary, middle, and high schools (approx. 12,000), and higher education institutions (~400).
- Educational Authorities
  MOE, all 17 Metropolitan and Provincial Offices of Education, and 177 District Offices of Education.
- End Users
  Approximately 600,000 teachers and staff and 5.58 million students and parents nationwide.

67 KERIS Internal administrative and user survey data (NEIS)
68 KERIS Internal administrative and user survey data (NEIS)
69 KERIS Internal administrative and user survey data (NEIS) (November, 2022)
70 KERIS Internal administrative and user survey data (NEIS) (November, 2022)

- **Equity, inclusion, and safeguards**

  NEIS ensures equitable and inclusive education administration through compulsory nationwide use, while applying strict legal and technical safeguards to protect sensitive student and administrative data.

Use in Educational Settings

Digital Education Administration Services Anytime, Anywhere-The 4th-generation NEIS platform enables parents to easily access and manage school-information related to their children through PCs and mobile devices, without the need to visit schools in person. Teachers also input exam results, track academic progress, and prepare official transcripts using the system. It reduces administrative workloads and allows for more quality instructional time.

One ID for Seamless Digital Education Services-The Education Digital One Pass is an integrated authentication service that allows teachers and students to access a wide range of education-related public and private platforms with a single ID. Based on personnel and academic records stored in NEIS, users can utilize services without repeatedly updating personal information. In addition, real-time data linkage enables the provision of personalized services across public and private sectors. The service has also continued to expand its scope of use, having been adopted by 147 public and private educational information services.

Policy & Institutional Foundations

- **Legal Basis**

  - Framework Act on Education

    Provides the fundamental principles for the digitization of educational administration and assigns responsibility to the national and local governments to promote efficient management of educational information.

  - Elementary and Secondary Education Act

    Establishes the legal basis for the management of academic records, attendance, assessments, and overall school activities, enabling schools and education authorities to process and manage educational data electronically.

  - Regulation on the Operation and Management of the Educational Administration Information System

    Specifies the governance structure, operational responsibilities, and roles of relevant institutions, including the Ministry of Education, all Metropolitan and Provincial Offices of Education, and KERIS.

- **Governance Structure**

  - MOE

    Policies, standards, data governance.

  - KERIS

    System architecture, development, cybersecurity, nationwide operation.

  - Provincial Offices

    Local implementation & support.

  - Schools

    Data entry, validation, and daily operation.

- **Maintenance Cost**

  $20 million USD for annual maintenance and management.

Operation & Implementation

- **Operating Bodies**

  MOE, KERIS (operation entrusted to KERIS) and all 17 Metropolitan and Provincial Offices of Education.

- **Technical Features**

  - web-based Architecture

    Operates on a centralized, web-based client/server architecture that enables integrated data management and efficient information sharing across schools and education authorities via standard web browsers.

Sustainability & Scalability

- By leveraging AI and big data analytics, NEIS is evolving into a sustainable, data-driven education platform.
- Predictive analysis enables early identification of at-risk students and supports timely interventions to improve learning outcomes.
- AI-based services enhance administrative efficiency and enable more personalized user experiences.
- Through evidence-based insights derived from large-scale data, NEIS also strengthens data-driven education policymaking and supports the long-term scalability of national education systems.

Visuals / Screenshots

Access & Demo Information https://www.neis.go.kr/

Public *Administration Systems*

Korea Education and Research Information Service (KERIS)
Established in 1999 under the Ministry of Education, KERIS is a public agency that leads South Korea's digital transformation in education by developing and operating major education information systems, and managing major national digital learning platforms, such as NEIS, K-Edufine, RISS, and digital learning services.

K-edufine

A nationwide integrated administrative and financial system, combining education finance and administrative functions into a single platform. K-Edufine is used by the Ministry of Education and education authorities nationwide, including over 12,000 elementary and secondary schools, to enhance the efficiency and transparency of education finance and administrative operations. K-12

Main Features

- **Comprehensive Digital Finance and Administration**
  This platform supports end-to-end electronic processing of education finance and administrative tasks across 66 operational subsystems in eight functional areas, including task management, financial accounting, and school accounting.
- **Local Subsidy Management**
  The full lifecycle of private local subsidy programs across Metropolitan and Provincial Offices of Education is digitized, enhancing efficiency and transparency in subsidy administration for private recipients.
- **Smart School Banking**
  The automatic transfer of school-related payments from parents' bank accounts to school accounts via mobile devices is enabled.
- **Card Management and Financial Integration**
  Centralized management of corporate card transactions for expenditure processing, issuance, and cancellation, while digitalizing supporting documents through enhanced integration with external financial institutions is enabled.
- **User Support and Information Services**
  Regular K-Edufine newsletters aligned with operational cycles, delivering FAQs, system updates, major enhancements, and accounting policy updates are provided.

Educational Evidence & Validation

Enhances financial and administrative efficiency while strengthening the transparency and soundness of local education finance.

- **Korea Education and Research Information Service (KERIS). (2026). Digital education white paper in Korea 2025.**
- **Used by approximately 810,000 teachers and administrative staff (~90%) across more than 20,000 educational administrative institutions (~100%) in Korea for financial management and official document processing.**
- **Recorded a 96.9% SLM evaluation score for system monitoring and infrastructure operation.**
- **2024-2025** Awarded the Grand Prize for two consecutive years in the National Representative Brand – Public System category.
- **2022** K-Edufine supported the adoption of electronic expenditure systems by 85.1% of educational administrative institutions, improving transparency and efficiency in public finance.
- **Equity & Inclusion**
  Improves system accessibility for information-vulnerable users, such as by distributing dedicated manuals for employees with visual impairments, thereby enhancing overall system usability.

Institutional Foundations & Implementation

Legal Basis / Institutional Requirements	The Local Finance Act, the Framework Act on Education, and the Elementary and Secondary Education Act
Governance Structure	MOE (Policy & Standards) – KERIS (System Development & Operation) – Provincial offices (Local Execution & Service delivery)
Budget	- Not publicly disclosed - Development Cost: USD 82 million - Budget Managed: Approx. USD 68 billion annually
System Architecture	Centralized national education administrative and financial management platform with web-based access for schools and education offices.
SW/HW Requirements	Web-based platform accessible via standard PCs/laptops, compatible with major browsers (IE, Chrome, Firefox, etc.) and managed through centrally secured servers.
Security & Data Protection	Designated as a Critical National Information and Communications Infrastructure (CNICI), with annual vulnerability assessments and comprehensive security measures in place.

Access & Demo Information https://www.keris.or.kr/eng/main.do

Public *Statistics & Data Systems*

Korean Educational Development Institute (KEDI) A leading education policy research institute with 53 years of history, playing a central role in advancing education in South Korea through comprehensive, data-driven research and the development of future-oriented education policy solutions.

KESS

KESS is a national public online portal providing government-approved education statistics across all education levels, from early childhood to lifelong and international education, supporting evidence-based planning and evaluation for policymakers, education authorities, schools, researchers, and the public.

K-12 HigherEd Lifelong

Main Features

- **Production and Dissemination of Official Education Statistics**
  - Compiles, processes, and curates nationally approved education datasets, including Basic Education Statistics, Graduate Employment Statistics (Higher Education Institutions), Lifelong Education Statistics, and the Survey on Lifelong Learning.
  - Disseminates all official statistics through a centralized, public-facing portal.
- **Evidence Support for Policy and Research**
  - Provides core evidence for policy design, implementation, and evaluation by education authorities and schools.
  - Serves as a reliable source for academic research and public analysis.
- **Data Access and Analytical Tools:**
  Enables users to search key indicators, such as students, teachers, schools, education finance, and employment outcomes, and explore results through tables and charts. Allows data export in standard formats, including Excel.
- **Publications and Knowledge Products:**
  Provides a range of online publications, including Education Statistical Yearbooks, analytical data collections, summaries of education statistics, and OECD education indicators, through the National Center for Education Statistics (NCES) of KEDI.

Educational & Administrative Impact

Strengthens evidence-based education decision-making at national, regional, and school levels by providing transparent access to comparable data that supports policy design, evaluation, resource allocation, and educational planning.

- **Reduction of Regional Disparities and Improved Resource Allocation**
  Identification of regional gaps in staffing, facilities, and finance through disaggregated statistics, informing targeted support, teacher placement, and school construction or expansion decisions.
- **Support for Local and School-Level Planning**
  Setting of realistic goals and indicators on demographics, staffing, and facilities for mid-term plans and school development strategies by local education offices and schools.
- **Validation & Certification**
  - International Cooperation

  The National Center for Education Statistics (NCES) serves as the primary liaison for international educational data exchange, contributing to global standards through:

  · Participation in the OECD Indicators of Education Systems (INES) Program.

  · Publication of the Korean edition of OECD's 'Education at a Glance'.

  · Collaboration with the UNESCO Institute for Statistics (UIS) and supporting the UN's Sustainable Development Goal 4 (SDG 4 - Education 2030).

Use in Educational Settings

· **School management and mid- to long-term planning**
- Forecasts class and facility needs (e.g., projected class counts, classroom/special-room demand, facility investment scale).
- Strengthens school plans using validated statistics and demographic trends.

· **Evaluation and reporting**
- Aligns with evaluation indicators (e.g., students per class, progression outcomes, employment rates, budget size).
- References KESS as an external, credible source in submissions and school operation reports.

· **Curriculum and program improvement**
- Uses student composition, population trends, and participation data to refine after-school programs, clubs, career activities, and lifelong-learning linkages.

· **Targeted support for disadvantaged students and education welfare**
- Identifies underserved areas and calibrate the scale and mix of education-welfare initiatives and learning support interventions.

· **Communication with parents and communities**
- Presents objective trends (enrollment, admissions/employment outcomes, regional/national context) in briefings and newsletters using KESS as a transparent reference.

Policy & Institutional Foundations

- **Legal Basis**

- Statistics Act and National Statistics System

Official education statistics are produced, approved, quality-assured, and published under the Statistics Act, with oversight by Statistics Korea.

- Education Legislation

Core education laws (e.g., Framework Act on Education; Lifelong Education Act) define public responsibilities for monitoring education conditions and producing and publishing statistics.

- Survey-specific regulations

The Ministry of Education's survey regulations specify the purpose, scope, indicators, methodologies, validation, and dissemination of each dataset.

- **Governance Structure**

- MOE

Policy direction, operational scope, quality standards.

- Statistics Korea

Official statics approval, quality assurance under the Statistics Act.

- KEDI & National Education Statistics Center

KESS operation, survey implementation, data standardization, validation (logical checks, time-series checks, cross-database consistency checks), dissemination.

- Provincial Offices & Schools & Lifelong Education Institutions

Data Submission.

Implementation & Localization

- **Institutional Requirements**

- Legal Basis for Education Statistics

Recognize education statistics as official national statistics under the statistics law, with approval and quality oversight by the national statistics office.

- Mandate Clarification

Define the Ministry of Education's authority and accountability as the official producer of education statistics, including the power to integrate administrative and survey data.

- Specialized Organizational Unit

Establish a dedicated statistics/research unit within the Ministry of Education or an intermediary body comparable to KEDI's NCES.

- **Operational Requirements**

- Stable Funding

Provide consistent resources for system development, maintenance, cybersecurity, capacity building, and school-level reporting support.

- Multidisciplinary Capacity

Secure expertise in statistics, education policy, and IT to support sustainable planning, data collection, validation, analysis, and dissemination.

- Low-Connectivity Adaptation

Implement offline-first data entry with periodic synchronization when internet access is limited.

- **Technical Requirements**

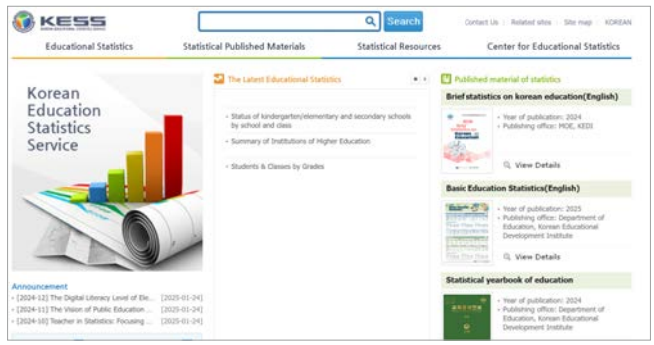
- System Architecture

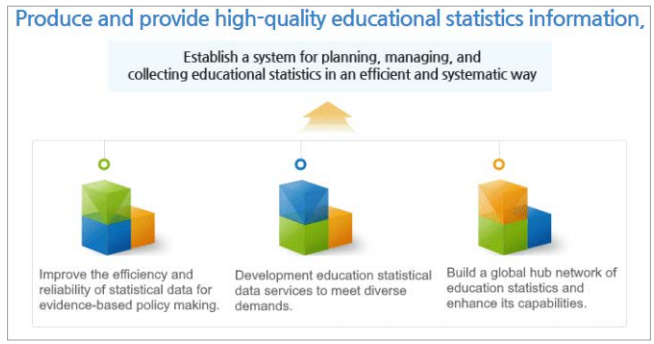
A school-level EMIS capturing core administrative data (schools, students, teachers, finance departments), with standardized codes and classifications to ensure interoperability and comparability.

- Security & Data Protection

Compliance with privacy and security requirements, with public access limited to aggregated statistics and controlled access to approved microdata.

Visuals / Screenshots





Access & Demo Information kess.kedi.re.kr

Public *Procurement*

The-K Korean Teachers' Credit Union South Korea's only welfare institution for education professionals, established in 1971, serving approximately 920,000 members through high-benefit mutual aid schemes and lifelong welfare programs tailored to the life cycle of education professionals nationwide.

S2B

School e-Procurement Platform, a government-designated information processing system exclusively for educational institutions, facilitating procurement by enabling schools to request goods, services, or construction works, gather supplier quotations, and finalize contracts efficiently. K-12

Main Features

- **Single-Supplier Contracting**
  Allows schools to request quotations through immediate or submission requests.

  - Immediate requests
    Checking supplier information and negotiate directly to finalize contracts.

  - Submission requests
    Collecting quotations from one or more suppliers to determine contract amounts.

- **Two-Supplier Contracting**
  Enables submission and review of quotations from two or more suppliers, finalizing contract amounts in accordance with the Local Contract Act and operational guidelines.

- **Competitive Bidding**
  Supports multiple suppliers submitting bids, with contract amounts determined under the same Act.

- **Transparent Contract Management**
  Publishes all procurement processes, including notices, bid/quotation results, and finalized contracts for public access.

Educational Evidence & Validation

Strengthens schools' administrative efficiency and integrity by streamlining procurement, reducing contractual burdens, and ensuring regulatory compliance.

- **Maintains agreements with all 17 Metropolitan and Provincial Offices of Education and 14 Education Support Offices in South Korea to promote active use of S2B.**
- **Approximately 17,000 educational institutions and related organizations participate in the system, with 910,000 procurement cases recorded as of 2022.**
- **Equity & Inclusion**
  Ensures equitable access to the platform for all educational institutions, supporting fair participation in procurement and contracting through a standardized, easy-to-use public platform.

Institutional Foundations & Implementation

Legal Basis / Institutional Requirements	Local Contract Act
Governance Structure	The-K Korean Teachers' Credit Union (Platform operation & management) – Provincial & Regional offices (School adoption support & collaboration)
Budget	- Not publicly disclosed - Recent Investment: Approx. USD 15 million allocated for the system redevelopment (RFP, 2025). - Market Size: Approx. USD 750 million annually.
System Architecture	Centralized national electronic procurement platform for educational institutions, accessible to both schools and suppliers through a cloud-based architecture.
SW/HW Requirements	Web- based platform accessible via standard PCs/laptops and centrally managed secure servers.
Security & Data Protection	ISMS-P–compliant infrastructure with role-based access, secure transactions, encrypted communications, and continuous security improvements.

Access & Demo Information https://www.s2b.kr/S2BNCustomer/S2B/index.jsp

3

Lessons: South Korea-LAC Strategic Partnership

MAPPING SOUTH KOREAN EDTECH SOLUTIONS FOR AI AND DIGITAL TRANSFORMATION IN EDUCATION

3. Lessons: South Korea-LAC Strategic Partnership

Digital transformation in education has reached a point where structural choices matter more than technological availability. Across diverse national contexts, the central challenge is no longer whether to adopt digital tools, but how to integrate them within coherent systems that ensure equity, scalability, and institutional sustainability.

South Korea's experience is particularly instructive in this regard. Its trajectory illustrates how centralized policy coordination, phased system-wide deployment, and sustained engagement with private-sector innovation can collectively shape a nationally coherent digital education ecosystem. The insights derived from this mapping exercise, therefore, extend beyond technology selection; they concern governance design, sequencing strategy, and long-term institutional capacity.

The key findings below synthesize the structural lessons emerging from this analysis and outline their implications for advancing digital transformation across the LAC region.

Strategic Alignment Between National Policy Coordination and Private Innovation

South Korea's experience demonstrates that digital transformation in education is most effective when anchored in coherent national coordination while leveraging the dynamism of private-sector innovation. The South Korean Ministry of Education maintains centralized oversight over curriculum standards, teacher preparation, textbook policy, and fiscal allocation, creating institutional coherence across the system. This governance structure enabled the development of a nationwide education information infrastructure (e.g., NEIS) that supports data-driven administration and standardized service delivery. In parallel, the publicly mandated EBS platform has ensured broad access to high-quality educational content, reinforcing universal provision within the public system.

At the same time, rapid advances in AI-based tutoring, adaptive learning platforms, formative assessment automation, and teacher workload reduction tools have largely originated from the private sector. These innovations have flourished, not in isolation, but within a policy environment that sets standards, safeguards data governance, and aligns market incentives with public objectives.

The Digital Sprout initiative, implemented by the Korea Foundation for the Advancement of Science and Creativity (KOFAC), exemplifies this hybrid model. Public financing establishes strategic priorities and scale, while private providers design and deliver programs in emerging digital and AI competencies. This arrangement has enabled flexible adaptation to technological change while simultaneously strengthening the domestic EdTech ecosystem and expanding the digital talent pipeline.

The implication is that digital transformation is not a choice between public provision and market solutions. Conversely, it depends on the institutional capacity to coordinate public leadership with private innovation under a coherent national framework.

AI Integration Begins with Teacher Capacity

AI is rapidly becoming a standard component of digital learning systems. In South Korea, generative AI tools have deeply entered the daily workflows of teachers, and are used for lesson planning, automated feedback and assessment. However, the effectiveness of these tools is not determined by the technological advancements themselves, but by how well teachers can integrate them into a purposeful pedagogy. Without sufficient teacher capacities and institutional support, new technologies risk widening learning gaps instead of closing them.

South Korea's approach has been to position teacher digital competencies as a national policy priority. A coherent framework coordinates continuous professional development across public and accredited private providers, ensuring access, quality, and consistency.

Public institutions such as KERIS operate national platforms (e.g., Edunet) that provide curriculum aligned digital resources and structured training pathways. At the same time, accredited private platforms (e.g., Teacherville) deliver scalable, peer-driven professional development that disseminates updated pedagogical practice across the system. Critically, this dual-track model is not a market-versus-public binary; it is a coordinated ecosystem in which accreditation standards, curriculum alignment, and institutional financing maintain a common standard.

Sustainable AI integration requires embedding teacher professional development into the core design of digital transformation strategies. Investments in infrastructure and platforms should be matched by institutional mechanisms that ensure continuous training, pedagogical adaptation, and system-wide capacity building.

The Engagement Imperative: How Platform Design Determines Learning Outcomes

The mapping and technical review revealed a consistent pattern: the distinguishing strength of competitive AI-enabled learning platforms does not lie primarily in algorithmic sophistication or content generation capacity, but in their ability to structurally sustain learner engagement. While early EdTech models relied on gamification and repetitive quizzes, more recent AI-driven systems have evolved toward integrated engagement architectures that combine formative feedback loops, real-time difficulty adjustment through learning analytics, visualized learning pathways, structured retry mechanisms, multimodal content, and project-based activities. Instead of being discrete, individual features, these elements are components of a coherent system oriented toward sustained cognitive participation.

This evolution is not incidental. A growing body of research cautions that uncritical reliance on AI tools may lead to the outsourcing of learning, where short-term task completion improves but critical thinking, problem-solving capacity, and long-term retention may weaken(UNESCO, 2023; Kasneci et al., 2023). The increasing investment in engagement-centered design suggests a recognition that AI-powered personalization translates into meaningful learning gains only when the architecture actively promotes cognitive effort and iterative practice, rather than substituting for it. The measure of a platform's effectiveness is not what the AI does for the learner, but what it enables the learner to do.

For policymakers, this insight has practical implications. Evaluation frameworks should move beyond feature comparison or algorithmic benchmarks and assess whether solutions embed mechanisms that strengthen learner agency, self-regulation, and sustained participation within the realities of classroom implementation. This consideration is particularly relevant in the LAC region, where high dropout rates and persistent foundational learning gaps remain systemic challenges across multiple countries. While these challenges are shaped by diverse socioeconomic factors, discontinuity in learner engagement is widely recognized as a contributing

dimension. Solutions intentionally designed to sustain participation and learning continuity may therefore contribute to improving retention and foundational outcomes.

Ultimately, technological sophistication alone will not be the sole determining factor for the effectiveness of AI integration. Instead, this factor will be determined by measurable influence on learner behavior, persistence, and academic progression.

Human-Centered Design; Trust, Equity, and AI Literacy

The accelerating pace of AI innovation makes comprehensive ex ante risk control increasingly unrealistic. Rather than attempting to regulate each emerging application, education systems face a more fundamental design challenge: how to embed trust, equity, and ethical clarity into the core architecture of digital transformation.

Data governance, defined limits on data use, algorithmic transparency, accessibility, and protections against misuse are not peripheral safeguards. It also determines whether technological adoption strengthens institutional legitimacy or weakens it. In digital education, trust and transparency function directly as system infrastructure; without them, scale becomes fragile and reform unsustainable.

South Korea's recent policy trajectory illustrates a shift toward this human-centered orientation. From 2025, social and emotional learning (SEL) has been integrated nationwide across all schools, strengthening learner well-being, civic responsibility, and the capacity for responsible participation in increasingly digital societies. At the same time, AI literacy has conventionally been framed as operational proficiency; however, it has more recently and notably been framed as the capacity to critically evaluate, responsibly apply, and understand the societal implications of AI. This signals a transition from tool-centered reform to governance-centered integration.

For education systems in the LAC region, the implication is strategic: safety, equity, and AI literacy must be embedded as foundational design conditions from the earliest stages of digital reform. When these elements shape the architecture of transformation, technology enhances resilience and inclusion. When they are treated as secondary adjustments, digital expansion risks undermining both trust and equity.

Data Governance and AI Platform Architecture Determine Educational Sovereignty

AI systems derive their capability and value from data. Learning data, enabling personalized instruction, early warning systems, and evidence-based policymaking constitutes a strategic national asset. However, AI adoption in the absence of clearly defined parameters for data collection, permissible use, ownership, and accountability is not sustainable in the long term. South Korea's experience developing AIDT offers a clear lesson in this regard: data governance cannot be retrofitted after deployment. It must precede technology adoption as a foundational policy commitment, not follow it.

In this context, platform choice is not solely a matter of procuring a solution. It is an architectural decision that shapes data flows, interoperability standards, and the broader structure of the education technology ecosystem. The tech giants such as Google and Microsoft have rapidly expanded their presence in education, bundling AI-powered lesson planning and content generation to automated quizzes, feedback systems, and personalized tutoring within LMS platforms and integrated platform offerings. While these bundled offerings can reduce initial costs and lower implementation barriers, national-level dependence on a limited number of external platforms may, over time, constrain data sovereignty, interoperability standards, long-term cost structures, and the growth of domestic EdTech ecosystems. The central issue is, therefore, shifted from the basic perspective of whether external platforms are used, to a more comprehensive perspective of whether the state retains the capacity to define standards, govern data, and coordinate system integration on its own terms .

Analysis conducted through this mapping and technical review indicates that AI-enabled education systems have reached a stage where functions traditionally managed separately can be integrated within a unified national architecture. MIS, LMS, CMS, digital textbooks, learning analytics, and AI-driven personalized support can increasingly operate within a coherent platform framework. Moreover, advances in cloud infrastructure and modular system design make it possible to deploy and scale such architectures more rapidly and cost-effectively than earlier large-scale System Integration (SI) models. The binding constraint is, therefore, no longer technological feasibility, but leadership, governance clarity, institutional coordination, and sustained implementation capacity.

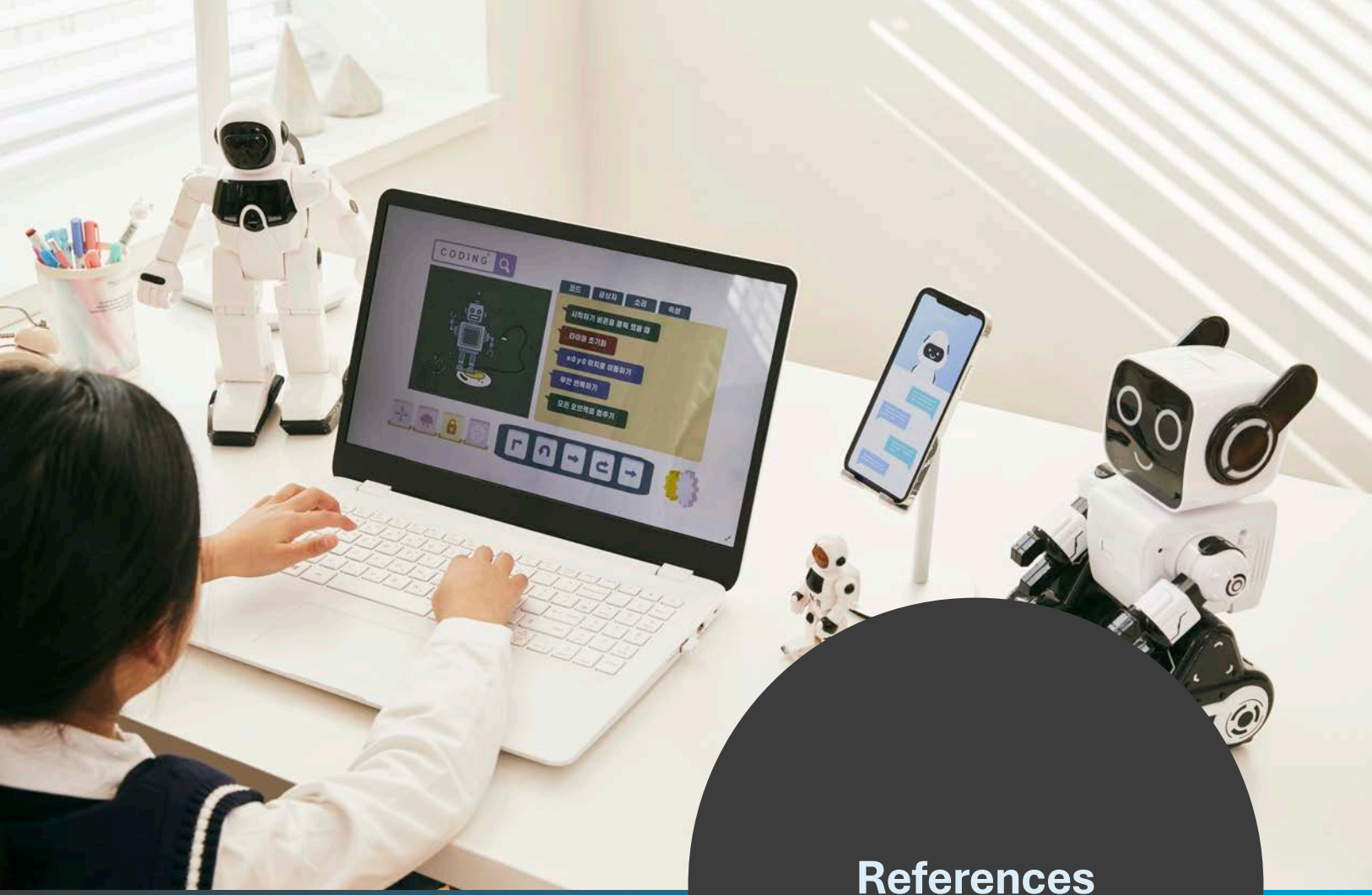
The implication is clear. AI adoption in education is not a question of which tools to procure; it is a question of how to design national platform architecture, grounded in data governance, that preserves educational autonomy and sustains domestic ecosystem development. Even where external solutions are utilized, establishing national standards for data, interoperability, and accountability first, and designing external partnerships within that framework, represents the more sustainable long-term path.

Digital transformation in education is ultimately a question of system design. This mapping applies the IDB's DTE Framework to structure South Korea's public and private capabilities and align them with the policy and institutional contexts of Peru and Honduras. It examines how they can be sequenced, governed, and sustained within coherent national systems, rather than simply documenting existing solutions.

These findings highlight five structural dimensions: coordinated public leadership with private innovation; AI integration grounded in teacher capacity; engagement-centered platform design; human-centered governance built on trust and equity; and data governance as the foundation of educational sovereignty. Across these dimensions, the central lesson is consistent. Technology alone does not transform systems. Institutional alignment, sequencing, and long-term governance capacity do.

Therefore, future cooperation should focus not on isolated procurement decisions, but on institutional pathway design, sequenced proof-of-concept pilots, sustained policy dialogue, alignment with professional development systems, and early establishment of data standards. In digital transformation, sequencing matters more than speed, and institutional coherence matters more than technological sophistication.

This report does not offer a model to replicate. It offers a structure for judgment. Its value lies in the solutions it presents, as well as clarifying the conditions under which digital transformation can be scaled, governed, and sustained.



References

MAPPING SOUTH KOREAN EDTECH SOLUTIONS FOR AI AND DIGITAL TRANSFORMATION IN EDUCATION

References

- **Arias Ortiz, E., Bos, M. S., Chen Peraza, J., Giambruno, C., Levin, V., Oubiña, V., Pineda, J. A., & Zoido, P. (2024). Learning can't wait:** *Lessons for Latin America and the Caribbean from PISA 2022. Inter-American Development Bank & World Bank.*
  https://doi.org/10.18235/0005671
- **Arias Ortiz, E., Castro, N., Forero, T., Gambi, G., Giambruno, C., Perez-Alfaro, M., & Rodríguez Segura, D. (2025). AI and education:** Building the future through digital transformation. Inter-American Development Bank.
  https://doi.org/10.18235/0013500
- **Arias Ortiz, E., Giambruno, C., & Karsaclian, S. (2026). The state of education in Latin America and the Caribbean 2026**: *A geospatial perspective. Inter-American Development Bank.*
  https://doi.org/10.18235/0013911
- **Della Nina Gambi, G., Forero Pabón, T., Soto Sira, V. G., Keuylian, M. L., & Ruiz García, M. J. (2025).** *An approach to teachers digital competency in Latin America. Inter-American Development Bank.*
  http://dx.doi.org/10.18235/0013638
- **Kasneci, E., Sessler, K., Küchemann, S., Bannert, M., Dementieva, D., Fischer, F., Gasser, U., Groh, G., Günnemann, S., Hüllermeier, E., Krusche, S., Kutyniok, G., Michaeli, T., Nerdel, C., Pfeffer, J., Poquet, O., Sailer, M., Schmidt, A., Seidel, T., & Kasneci, G. (2023).** *ChatGPT for good? On opportunities and challenges of large language models for education. Learning and Individual Differences, 103, 102274.*
  https://doi.org/10.1016/j.lindif.2023.102274
- **Korea Digital Education Frontiers Association (KEFA). (2025).** *2025 EdTech supply status analysis report.*
  https://www.kefa.or.kr
- **Korea Education and Research Information Service (KERIS). (2021).** *K-Edu ICT in education: Policy guidelines and history.*
  https://www.keris.or.kr/main/ad/pblcte/selectPblcteRMInfo.do?mi=1139&pblcteSeq=13466
- **Korea Education and Research Information Service (KERIS). (2023).** *Digital education white paper in Korea 2022.*
  https://www.keris.or.kr/main/na/ntt/selectNttInfo.do?mi=1244&nttSn=40506&bbsId=1104
- **Korea Education and Research Information Service (KERIS). (2025).** *Digital education white paper in Korea 2024.*
  https://www.keris.or.kr/main/na/ntt/selectNttInfo.do?mi=1244&nttSn=42253&bbsId=1104
- **Korea Education and Research Information Service (KERIS). (2026).** *Digital education white paper in Korea 2025.*
  https://www.keris.or.kr/main/na/ntt/selectNttInfo.do?mi=1244&nttSn=43556&bbsId=1104
- **Ministry of Education, Republic of Korea (ROKMOE). (2023).** *2023 digital education innovation plan.*
- **Ministry of Education, Republic of Korea (ROKMOE). (2024).** *Upgrade digital infrastructure in elementary and secondary schools plan.*
- **Ministry of Education, Republic of Korea (ROKMOE). (2025).** *AI for all: Strategy for cultivating artificial intelligence talent.*
- **National IT Industry Promotion Agency (NIPA). (2025).** *2024 report on the survey of the e-learning industry.*
  https://www.spri.kr/posts/view/23880
- **Organisation for Economic Co-operation and Development (OECD). (2023).** *Education at a glance 2023: OECD indicators.* OECD Publishing.
  https://doi.org/10.1787/e13bef63-en
- **Prado de Almeida, A. L., Gamberini, C., Della Nina Gambi, G., Silva Costa, L. R. da, & Giambruno, C. (2026).** *Digital learning cost calculator. Technical guidelines and reference parameters.* **Inter-American Development Bank.**
  https://doi.org/10.18235/0014019
- **UNESCO. (2023).** *Guidance for generative AI in education and research.*
  https://doi.org/10.54675/EWZM9535

Annex 1. Methodology

MAPPING SOUTH KOREAN EDTECH SOLUTIONS FOR AI AND DIGITAL TRANSFORMATION IN EDUCATION

Annex 1. Methodology

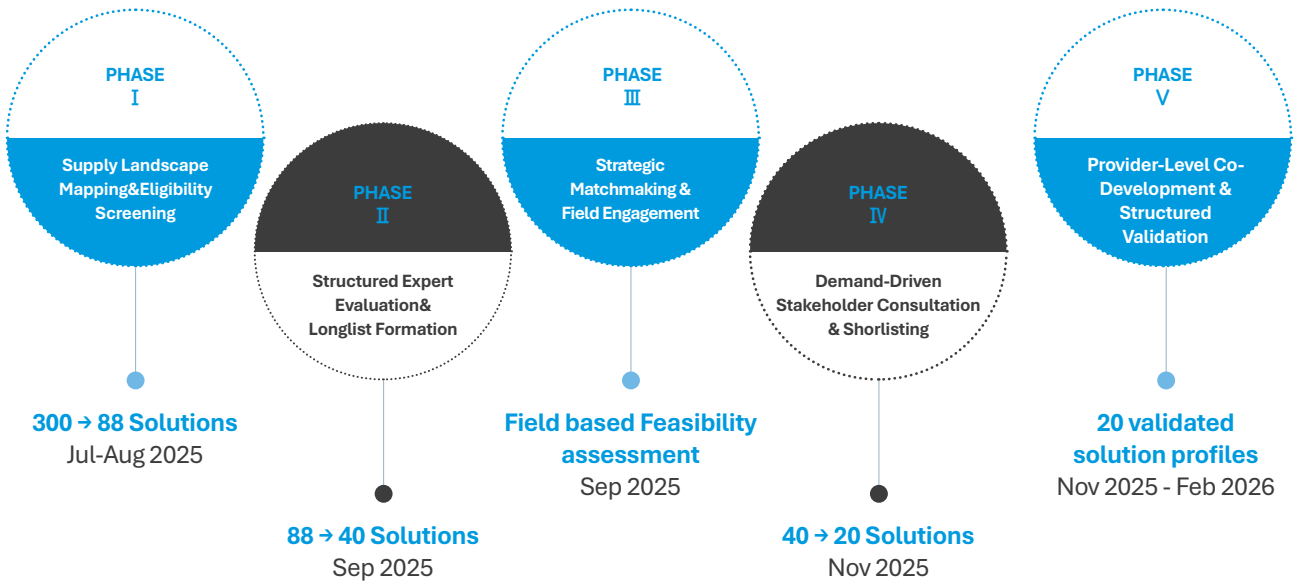
A1. Methodological Architecture

Conducted between 10 July 2025 and 27 February 2026 under the IDB regional initiative "From Korea to LAC: Promoting Sustainable Digital Transformation in Education" (RG-T4578-P005), this assignment was designed as a structured, multi-phase consultancy process combining systematic analytical screening with demand-driven prioritization and provider-level co-development. Rather than producing a static inventory of available solutions, the consultancy was commissioned to generate policy-relevant, implementation-oriented intelligence aligned with the institutional reform contexts of LAC education systems.

Three design principles guided the methodological architecture. First, analytical rigor was maintained through explicit eligibility criteria, structured evaluation frameworks, and independent expert review at each screening stage. Second, demand-driven alignment ensured that shortlisting decisions were informed by country-level reform priorities and stakeholder consultation rather than supply-side characteristics alone. Third, provider-level engagement moved beyond secondary desk review to include direct consultation, iterative profile development, and evidence substantiation, generating findings grounded in operational rather than descriptive knowledge.

These principles were operationalized across five interrelated phases, organized within two overarching layers. The Analytical Layer (Phases I-III) covered supply landscape mapping, expert evaluation, and field-level strategic matchmaking. The Consultancy Layer (Phases IV-V) covered demand-driven stakeholder shortlisting and structured provider co-development. The phases and their respective outputs are summarized in Figure A1.

Figure A1. Multi-Phase Methodological Framework



A2. Phase I - Supply Landscape Mapping and Eligibility Screening

An initial pool of approximately 300 South Korean public and private EdTech solutions was compiled from official public and private sources[71]. Explicit eligibility boundaries were applied from the outset, requiring that all solutions be of South Korean origin and developed and manufactured within South Korea. Only information verified by vendors or available through publicly accessible channels was accepted.

A structured desk review was then conducted to harmonize entries, remove duplicates, and apply indicative eligibility filters against five assessment dimensions: educational effectiveness, scalability and track record, relevance to LAC contexts, technical quality and interoperability, and safety, equity, and inclusion. Solutions were subsequently classified according to the five enabling conditions of the IDB's DTE framework.

Table A1. DTE Framework pillars and sub-categories used for solution classification

DTE pillar	Sub-categories
Digital devices	Personal devices, Classroom devices, Management & maintenance
Meaningful connectivity	Network providers, Network infrastructure, Cloud & data services, Security & filtering
Teachers' digital & pedagogical competencies	Professional development content, Collaboration & networking platforms, Competency management systems
Digital resources, platforms & content	Foundational learning, Digital & AI competencies, Arts/SEL/life skills, Information portals & platforms, Tools (LMS, authoring, quiz etc.)
Governance	Administration systems, Statistics & data systems, Procurement

This screening process yielded 88 solutions meeting interim inclusion thresholds and forming the basis for subsequent expert evaluation.

71 Sources and data collection (Approx. 300-solution pool). Private sources included S2B (School e-Procurement System) 2025 contract data; ministry-backed program lists, 2024-2025 (e.g., Edzip, Saessak, SoftLab, K-EdTech Excellence Award); 2024 EdTech Korea Fair exhibitors; AIDT-verified developers (2024); and KEFA's AI Courseware Registry (2025) etc. Public sources included the Korea Education and Research Information Service (KERIS), EBS, the Korea Educational Development Institute (KEDI), the Korea Foundation for the Advancement of Science and Creativity (KOFAC), and metropolitan/provincial offices of education etc.

A3. Phase II - Structured Expert Evaluation and Longlist Formation

The 88 screened solutions were submitted to a structured two-round expert evaluation process conducted by a three-member Expert Review Panel convened under this consultancy.

In the first round, each panel member independently scored all 88 solutions against five evaluation criteria; educational effectiveness, scalability and track record, relevance to LAC contexts, technical quality and interoperability, and safety, equity and inclusion, using a three-point scale (1 = basic compliance, 2 = moderate strength, 3 = strong demonstrated performance). Independent scoring was applied to preserve evaluator objectivity, with individual assessments subsequently aggregated into composite totals for comparative analysis across solutions.

In the second round, the panel reviewed aggregated results through deliberative discussion, weighing composite scores alongside contextual considerations including ecosystem function, coverage across DTE framework pillars, and strategic differentiation among solution categories. This stage ensured that final inclusion decisions reflected analytical judgment rather than mechanical aggregation alone.

The process yielded a longlist of 40 South Korean EdTech solutions, forming the analytical basis for subsequent stakeholder consultations and country-level matchmaking. The evaluation criteria are detailed in Table A1.

• Table A2. The evaluation criteria

Criterion	Operational definition	Examples of acceptable evidence
Educational effectiveness	**Demonstrated, measurable learning/ teaching impact**	Impact evaluations; standardized assessment effect sizes; validated pre post with benchmarks; peer-reviewed studies; government/POE outcome reports; K-EdTech awards certifications; LearnPlatform/ESSA evidence reviews; Softlab validated studies
Scalability & track record	**Proven scale and sustained adoption, incl. KR public-sector track record**	S2B contract records; national deployments; program designation (e.g., KERIS/POE); teacher satisfaction/ renewal evidence; multi-country deployments, partner network; recognized awards/certifications
Relevance to LAC contexts	**Fit to DTE priorities and typical LAC operating conditions**	Offline/low-bandwidth mode with stated floor; Spanish UI/content; low-spec device support; alignment to national curriculum/assessments; rural/SEN use cases
Technical quality & interoperability	**Reliable, secure, interoperable, and admin/ teacher-friendly in real use**	Status/incident logs; monthly release notes; ≤30-min school onboarding; CSV bulk import + API/SSO (Google/Microsoft or SAML/OIDC); RBAC/admin console; help center with response-time SLA; SUS ≥68 (≥80 strong); EdTech (LTI 1.3, OneRoster); Ed-Fi alignment; Project Unicorn certification; ISO/IEC 27001/27701 or national equivalent; recent pentest/ security report; ISTE Seal.
Safety, equity & inclusion	**Protects children/data; accessible, inclusive, ethical use**	Child-safeguarding policy; privacy notice & DPA; data-minimization; WCAG 2.1 AA/ UDL features; safety filters; AI use/bias disclosure; Common Sense Privacy evaluation; iKeepSafe (COPPA/FERPA/CSCC); 1EdTech TrustEd Apps – Data Privacy; low/no-cost access options

A4. Phase III – Strategic Matchmaking & Field Engagement

Following longlist formation, the consultancy team conducted strategic matchmaking engagements in September 2025, coinciding with the Korea EdTech Fair. This phase constituted a structured, field-based assessment designed to establish direct supply-demand interfaces between Korean EdTech providers and the reform needs of LAC education systems.

Engagements were conducted with four providers; Elice (18 September), CT Corp. (19 September), Enuma (20 September), Tebahsoft Inc. (20 September). Sessions covered each solution's educational rationale, effectiveness evidence, and deployment experience, before turning to implementation feasibility, contextual adaptability, and alignment with LAC country reform priorities. Findings from these interactions were carried forward into subsequent shortlisting deliberations, ensuring that provider-level intelligence gathered through direct engagement was embedded in the analytical screening process.

A5. Phase IV - Demand-Driven Stakeholder Consultation and Shortlisting

Building on the longlist and field engagement findings, a demand-driven shortlisting process was conducted in November 2025 to identify 20 solutions for in-depth profiling and strategic recommendation. Drawing on the DTE readiness assessments and country priority dimensions established in the Interim Report, written consultations were conducted with IDB and representatives from Peru and Honduras to gather structured feedback on the longlist. Final selection was determined through deliberative review integrating stakeholder input with the research team's analytical judgment, with decisions reflecting each solution's alignment with country reform priorities, institutional feasibility, and functional complementarity across the proposed reform architecture.

A6. Phase V – Structured Provider-Level Co-Development and Validation

Building on the longlist and field engagement findings, a demand-driven shortlisting process was conducted in November 2025 to identify 20 solutions for in-depth profiling and strategic recommendation. Drawing on the DTE readiness assessments and country priority dimensions established in the Interim Report, written consultations were conducted with IDB and representatives from Peru and Honduras to gather structured feedback on the longlist. Final selection was determined through deliberative review integrating stakeholder input with the research team's analytical judgment, with decisions reflecting each solution's alignment with country reform priorities, institutional feasibility, and functional complementarity across the proposed reform architecture.

> A6.1 Standardized Written Submission

Each provider completed a standardized profile template specifying six documentation requirements: organizational overview; alignment with IDB DTE enabling conditions; evidence of educational effectiveness and deployment experience; technical specifications and interoperability capacity; relevance to LAC contexts; and proposed reform function within Peru and/or Honduras. Providers were responsible for preparing initial submissions, establishing self-reported documentation as the baseline for subsequent verification and refinement.

> A6.2 Structured On-Site Consultation

The consultancy team conducted on-site consultations with each provider following submission review. A total of 19 sessions were held (one provider having two solutions reviewed within a single session), each averaging approximately 120 minutes and documented through audio recording and written minutes[72]. Consultations examined submitted claims, verified supporting evidence, and surfaced operational and institutional constraints not fully captured in written documentation. They further served as a structured dialogue to assess realistic integration pathways within the governance, infrastructure, and reform contexts of Peru and Honduras.

> A6.3 Iterative Refinement, Revision, and Quality Assurance

Profile development followed an iterative rather than linear process, reflecting the co-development orientation of this phase. Providers revised submissions across successive cycles in response to consultancy feedback, with supporting documentation for effectiveness and deployment claims drawn from publicly available data, third-party sources, and provider-supplied materials. Content development remained provider-led throughout, preserving institutional ownership, while the consultancy team provided analytical guidance on scope, evidence standards, and portfolio-wide consistency. Completed profiles were subject to consultancy-level review prior to final consolidation, ensuring analytical accuracy and methodological coherence across the portfolio.

A7. Quality Assurance and Methodological Considerations

Following the completion of provider-level validation, the Expert Review Panel convened a formal deliberation session to review all 20 validated profiles and develop strategic recommendations for Peru and Honduras. Deliberations assessed each solution's alignment with country-specific reform priorities and DTE framework pillars, ensuring that final recommendations reflected structured panel judgment applied consistently across the full portfolio. Subsequent editorial review ensured consistency in terminology, analytical framing, and presentation standards across the full report.

The findings presented in this report are intended to support policy dialogue, ecosystem-level reform design, and strategic partnership exploration between LAC governments and South Korean EdTech providers. The solution portfolio serves as an analytical reference to inform strategic planning and implementation sequencing. It does not constitute a procurement endorsement or formal certification of individual providers. Final adoption and procurement decisions remain the responsibility of the relevant national authorities.

72 Two consultations (KERIS, NEOPIA) were conducted remotely via video conference due to provider scheduling constraints.