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PARALLEL SESSION 1.5 INNOSPHERE SHOWCASE

03 December 2025
1:45 – 3:15pm

11th ADB International Education and Skills Forum
Applying a Fresh Lens to Unlock the Power of Human Capital

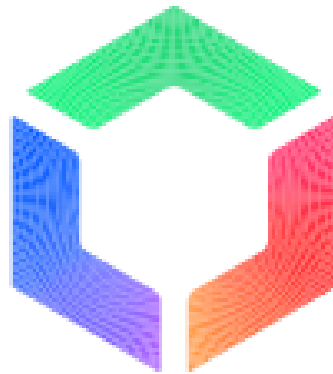




11th ADB International Education and Skills Forum

Applying a Fresh Lens to Unlock the Power of Human Capital

3-5 December 2025 | Metro Manila, Philippines



BAIDU AI CLOUD



11th ADB International Education and Skills Forum
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How New Quality Productive Forces Drive Education Industry



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New Quality Productive Forces Drive the new Paradigm of Integration between industry and education

The large model empowers the intelligent tutoring and scientific research base, and joins the school to build a leading AI Industry-University-Research (IUR) platform

Achievements

The 15th Five-Year Plan

Teaching Achievement Award

Double-Qualified Teacher Team Construction

Top Journal Papers Published

Co-construction of the College of Outstanding Engineers

Integration Between Industry and Education Training Base Construction

Co-creation of talent training programs

High-level Professional Clusters Construction

Intelligent Tutoring Material Library Construction

Ministry of Education Class A list competition

Enterprise horizontal issues

Integration Between Industry and Education Innovative Platform Construction

AI Talent Cultivation

AI General Course

New Vocational Certification

AI+X Professional Core courses

Vocational skills certification

Industrial-Level Training Cases

Internship and employment recommendation

AI Intelligent Application

Taught Assistant

Admissions Assistant

System Q&A Assistant

Employment Assistant

School Knowledge RAG Data Base

AI4S Research Innovation

Subjects Model Training

Open-Source Model Research

Model Application Development

Agent Application Development

Scientific research project support

Scientific Research Foundation

Open-Source Model

Baidu ERNIE

DeepSeek

Llama

Multi -mode Models

Educational Specific-Domain Model

Intelligent base for universities

Model Management

Model Training

Model Service

Data management and notation

Model Application

Infrastructure

Intelligent Computing Center

Storage

Network

Security



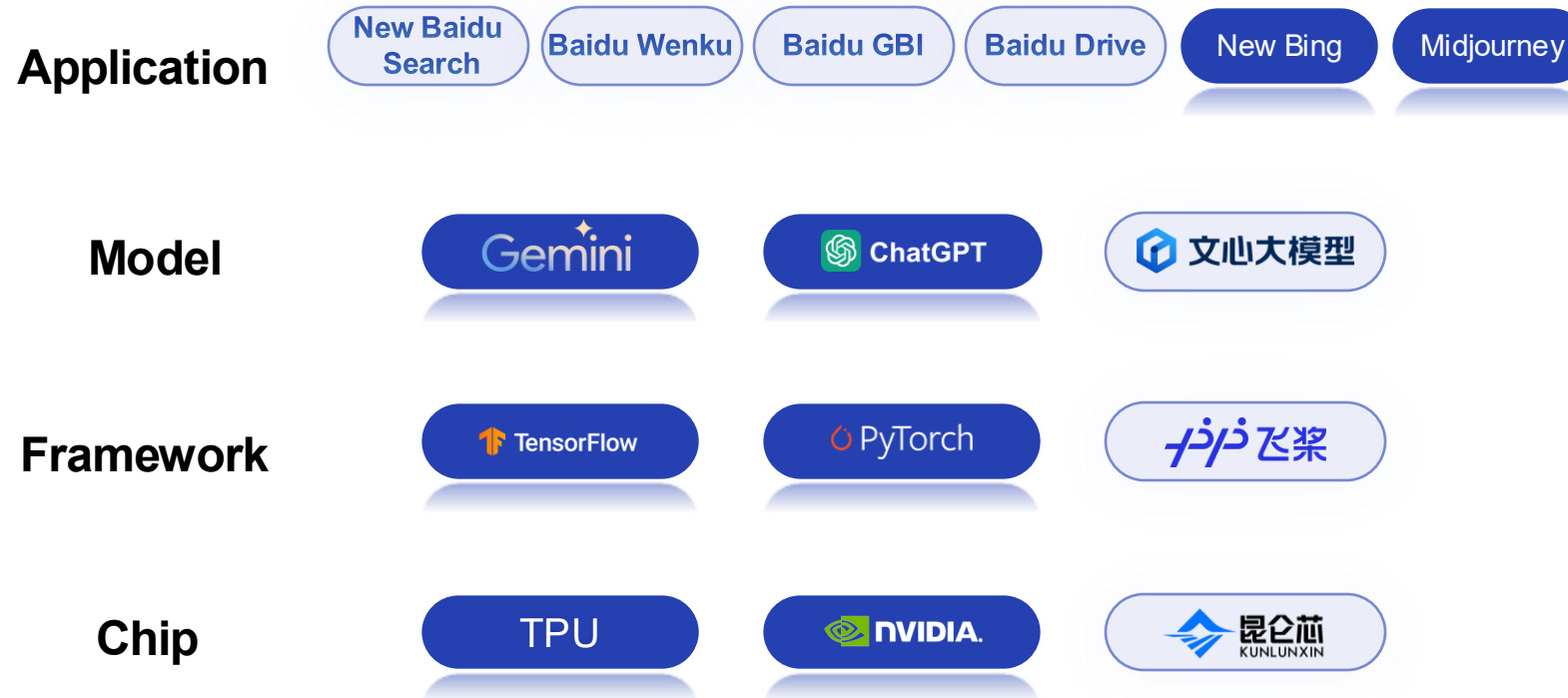
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Full Stack Deployment in AI Leading at Each Level





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Contact information

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zhangli56@baidu.com

Thank you for your listening



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华大BGI



Eason, ZOU GUANHUA

Senior Education Specialist

Mr. Guanhua Zou serves as Senior Education Specialist at the International Affairs Department of BGI College, where he leads partnership and market development initiatives across the Asia-Pacific region. In his role as Regional Representative for International Cooperation, he is responsible for developing, negotiating, and managing collaborative programs with overseas universities and research institutions — including joint education programs, credit recognition, research partnerships, and short-term academic exchanges.

He oversees the full lifecycle of partnership implementation, ensuring the seamless execution of joint programs through coordinated management of recruitment, curriculum alignment, faculty engagement, student services, and quality assurance. He also facilitates cross-departmental coordination within BGI College, aligning academic, research, and student-affairs resources to support the success of international initiatives.





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Introducing BGI Group and BGI College

Eason, ZOU GUANHUA
Senior Education Specialist
zouguanhua@genomics.cn

Three Scientific Projects Dominated the 20th Century

Major technological changes have triggered major changes in the economic structure and profoundly changed human production and life.

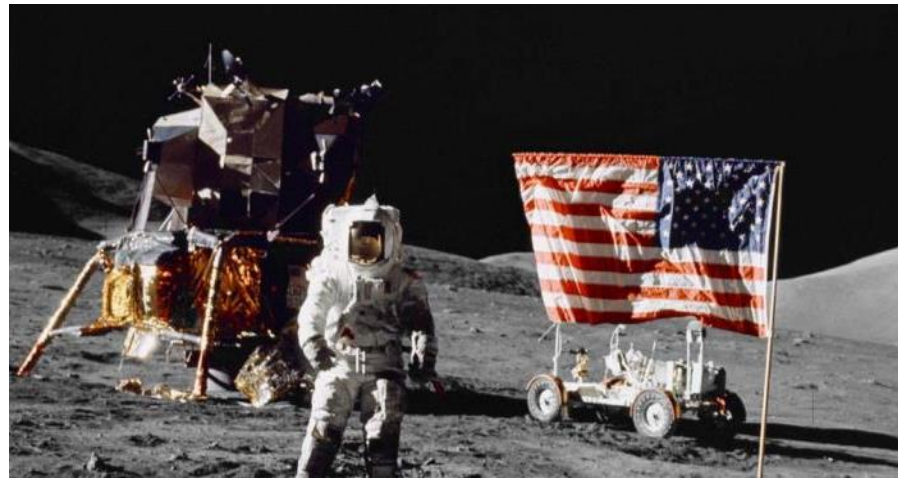
Manhattan Project



nuclear power

tax revenue USD **\$10.22** billion
employed **475,000** people
GDP contribution **\$60** billion
(2018)

Apollo program

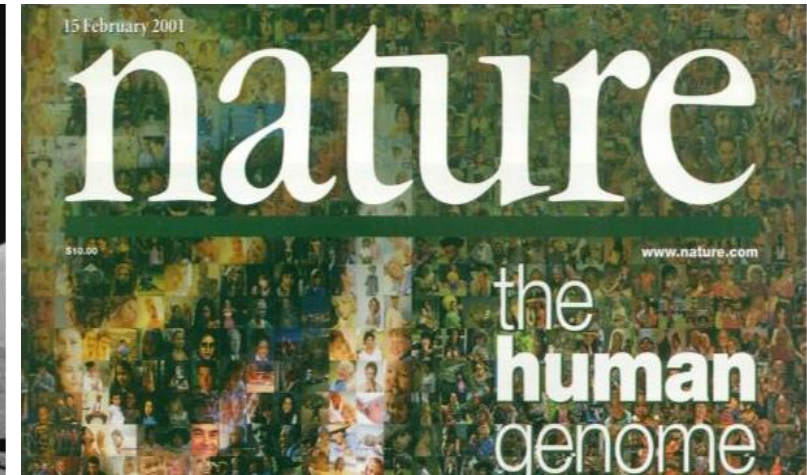


150 papers in 《Science》

1000 technologies

Sewing machines, radio equipment,
ships, aircraft, weather forecasting and
storm warning systems, communications
equipment, medical equipment(CT&MRI)

Human Genome Project, HGP



Biotechnology Industry

USD **\$525.8** billion

Genome Technology Industry

USD **\$10.22** billion

(2020) Compound growth rate
15.4% in the next 5 yrs

History of BGI

BGI was founded in 1999 in order to participate in the Human Genome Project. This work inspired us to become a world-leading life science organization



Prof. YANG HuanMing academician
BGI co-founder

The International Human Genome Sequencing Consortium at the 5th Strategic Meeting, August 31, 1999, Hinxton, UK

Overview of BGI Group



BGI headquarters, Shenzhen, China

QUICK FACTS:



1999
BGI founded



10,000+
BGI Group has more than 10,000 employees worldwide.



100+
Services and solutions are available in 100+ countries and regions.



Shenzhen
Headquartered in Shenzhen



1,015
Scientific papers published in the world's leading journals *Cell*, *Nature*, *New England Journal of Medicine*, *Science*, and their sub-journals.



5,800+
SCI publications



2,948
Patents obtained
(Data update by Sept 29, 2025)

BGI Group Structure

研究院 BGI Research :
BGI Total 5,455, SCI 4,763, GCNNS 806,
Total Citation 380,222



教育中心 BGI College :
Total students 3,780, Collaborating
Universities 84, PhD retention rate 59%



GIGA Science :
IF 11.8



华大基因 BGI Genomics :
医学服务、科技服务
Precision Medical Services,
Scientific Technological Services



华大智造 MGI :
先进制造业
Advanced
Manufacturing

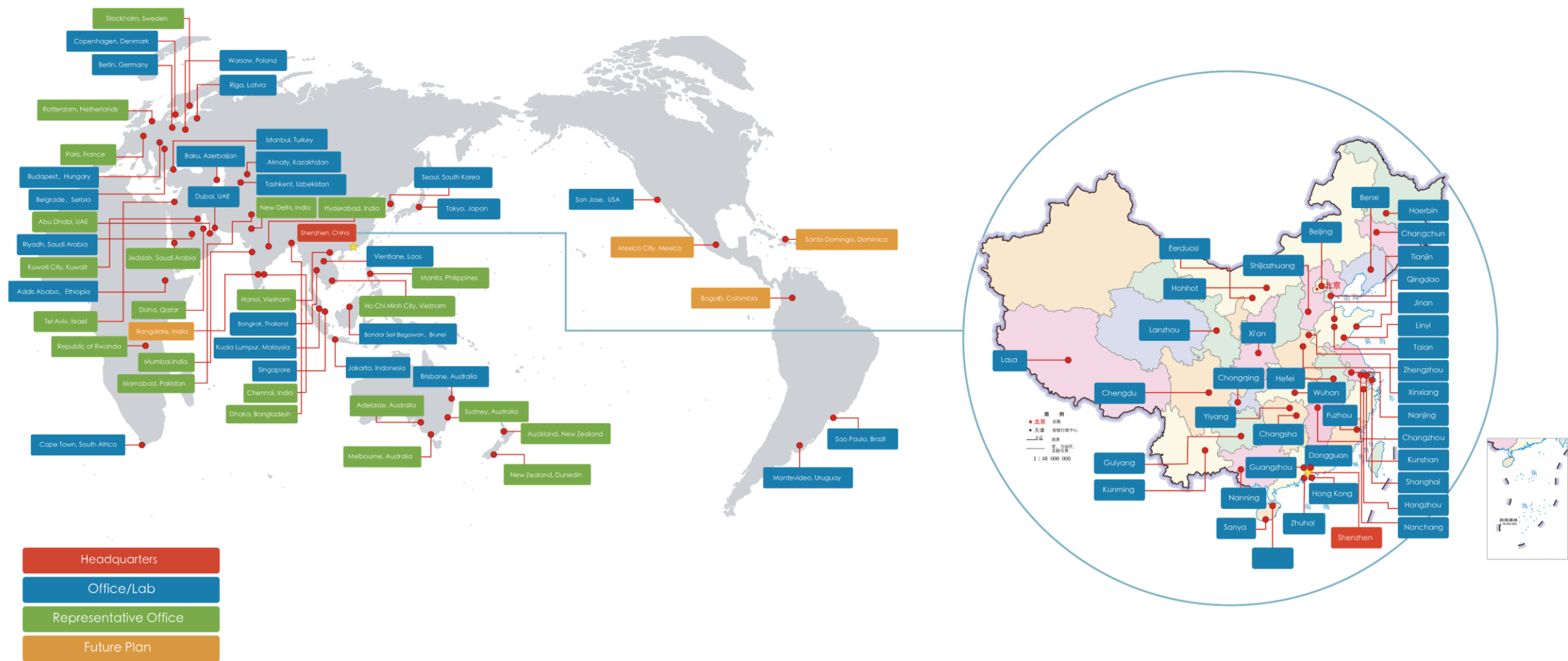


华大万物 BGI Bioverse :
生物智造，未来农业
Bio Manufacturing
Future Agriculture



大健康 :
华大营养 BGI Nutri、华大细胞 BGI Cell、
华大鉴正 FGI、华大电商 BGI E-commerce、
华大运动 SGI

Global Presence in Over 100 Countries and Regions



Ranking of BGI Group

3-5 December 2025 | Metro Manila, Philippines

BGI has **topped the Asia Pacific** life science corporate institution ranking table for the tenth year running.

nature index

[Home](#) [News](#) [Current Index](#) [Research leaders](#) [Supplements](#) [Author gender ratio](#) [Client services](#) [About](#)

[Home](#) > [Research Leaders](#) > [2025 Research Leaders](#) > Leading corporate institutions in biological sciences

2025 Research Leaders: Leading corporate institutions in biological sciences

The 2025 Research Leaders are based on Nature Index data from 1 January 2024 to 31 December 2024.

Table criteria

Region/country	Sector	Subject/journals
Asia Pacific	Corporate	Biological sciences
Generate		

[Request a badge](#) [Export CSV](#)

Position	Institution	Share 2023	Share 2024	Count 2024	Change in Adjusted Share 2023–2024
1	BGI, China	8.30	15.17	63	58.7% ↑

<https://www.nature.com/nature-index/research-leaders/2025/institution/corporate/biological-sciences/global>

Education and Skills Forum

Human Capital



BGI **ranked fourth among global** life science corporate institutions, which is an improvement over the preceding year's eight-place result.

nature index

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[Home](#) > [Research Leaders](#) > [2025 Research Leaders](#) > Leading corporate institutions in biological sciences

2025 Research Leaders: Leading corporate institutions in biological sciences

The 2025 Research Leaders are based on Nature Index data from 1 January 2024 to 31 December 2024.

Table criteria

Region/country	Sector	Subject/journals
Global	Corporate	Biological sciences
Generate		

[Request a badge](#) [Export CSV](#)

Position	Institution	Share 2023	Share 2024	Count 2024	Change in Adjusted Share 2023–2024
1	Roche, Switzerland	24.67	39.12	105	37.7% ↑
2	AstraZeneca, United Kingdom (UK)	19.52	16.85	66	-25.1% ↓
3	Novartis, Switzerland	20.42	16.25	68	-30.9% ↓
4	BGI, China	8.30	15.17	63	58.7% ↑
5	Regeneron Pharmaceuticals, United States of America (USA)	12.34	13.32	28	-6.3% ↓
6	Johnson & Johnson, United States of America (USA)	6.20	12.89	43	80.5% ↑
7	Alphabet, United States of America (USA)	11.50	11.29	32	-14.8% ↓
8	Amgen, United States of America (USA)	9.00	8.69	32	-16.2% ↓
9	Microsoft, United States of America (USA)	2.16	7.44	23	199.4% ↑
10	Sanofi, France	5.16	6.75	25	13.7% ↑

Why Does BGI Engage in Education?

- **Legacy and Passion:**
Carrying forward our vision and history.
- **Adapting to Changes:**
Meeting the needs of evolving times.
- **Innovation Force**
Young forces, backbone talents, future leaders



Technology

Talent

Industry

Nation

Mankind

Why Can BGI Provide Education?

Big Projects

Leading **13** science initiatives and collaborating with **300+** global institutions.

Global Recognition:

Ranked **1st** in Asia-Pacific for **10** years and **4th** globally (**Nature Index 2025**)

Proven Excellence

Published **4,438** SCI papers with over **530,000** citations, including **591** CNNs papers.

Innovative Achievements

Gained **2,138** patents, including **489** international patents, **311** standards formulated, and **500+** awards.

Lifelong Education: An Incubator for Talent Development (Ages 6–99)



6-18 Years Old

**Science Education for Primary
and Secondary Schools**

Inspiring curiosity and
planting the seeds of
scientific literacy.



18-22 Years Old

**Joint Undergraduate
Programs**

Partnership with UCAS and over **60+** universities worldwide
Established a graduate joint training model led by BGI.



22-27 Years Old

**Joint Graduate
Programs**



18-99 Years Old

**Professional Training
Science Popularization**

Certification Training
Specialized Training
Customized Training



Driving disciplines, talent, and development through projects.





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华大BGI

华大教育
BGI·College

ADB



/BGI Group



@TheBgiGroup



/BGI Group

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Media Contact: media@genomics.cn

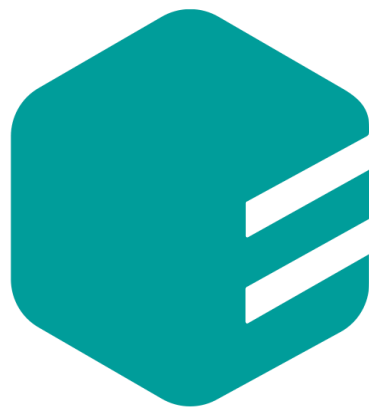
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eduten



Jussi-Pekka (JP) Järvinen

Head of National Projects, Eduten

As Eduten's Head of National Projects, Jussi-Pekka Järvinen (M.Ed.) works with governments to deploy its evidence-driven learning platform nationally. A leading expert in education's digital transformation, he guides institutions through technological change. Specializing in teacher training and emerging tech like AI, Jussi-Pekka connects innovation with practical needs to build scalable, future-ready learning environments.



eduten

#1

Teaching and
Learning Platform.
From Finland.

**We help solve the
global learning
crisis in math.**



Eduten provides the benefits of Finland's education system to any classroom in the world.



Personalized,
Stress-free Learning



Smart
Screen Time



**Finland
Math**



Build Teacher's
Pedagogical and
Subject Skills



Deep Understanding
and Creative Problem
Solving



Learning Analytics
for Classroom,
School and National
Levels



Fully Localized and
Curriculum-Aligned

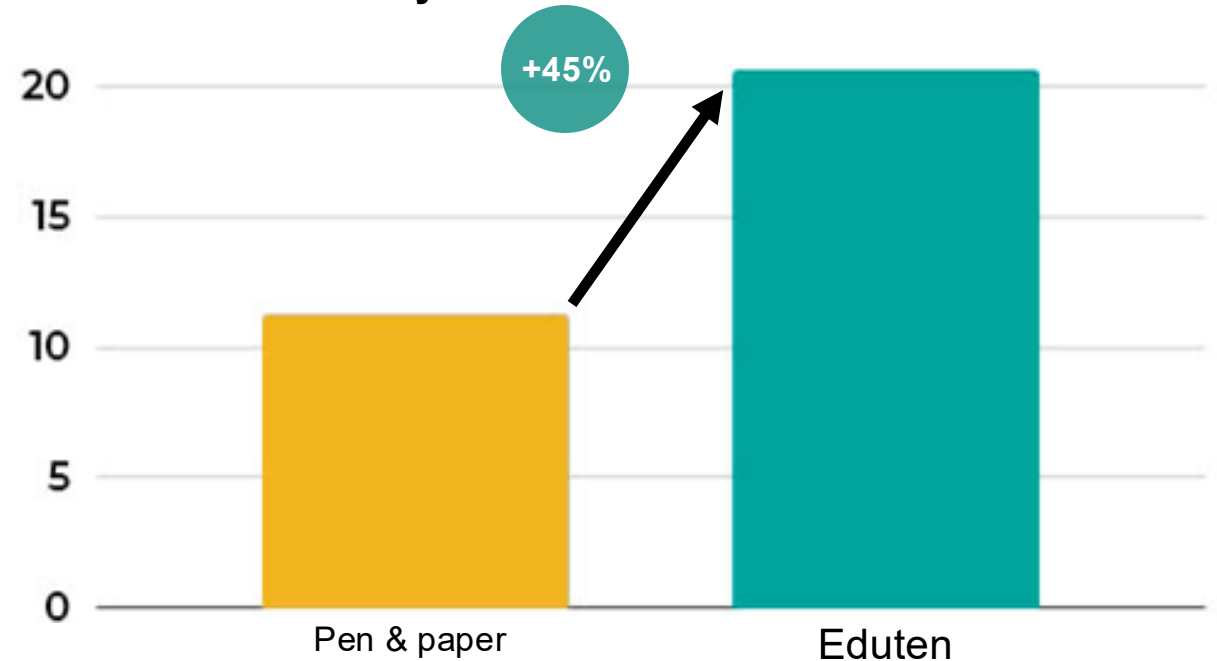
Eduten is all about proven impact on learning outcomes

Eduten is a spin-off of University of Turku, Finland, a [globally ranked top 1% university](#), based on more than **18 years of research**. 100+ peer reviewed publications prove it's **large impact on learning results**, long term motivation and teacher wellbeing.

Eduten has been awarded by **UNESCO** and **UNICEF**.

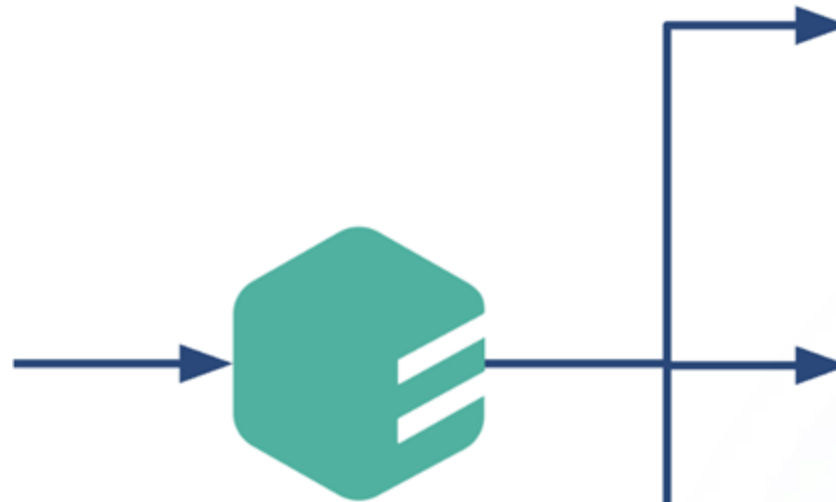


Mathematics fluency



**UNIVERSITY
OF TURKU**
Centre for Learning Analytics

Class-Leading Learning Analytics



For the Student:
Unlocking
Every Student's
Learning Potential

For the Teacher:
More Time for
Impactful Teaching

For the School Leader:
Elevating School
Performance with Data

For the Government:
Driving National Strategy
with Live Data



HEAD OF NATIONAL PROJECTS

Jussi-Pekka Järvinen

jp@eduten.com

+358 40 821 5207

Come see us at the Innosphere!



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FabLab
Shinagawa



COCRE HUB



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Grapho Game[®]

Reading is winning



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ADB

GraphoGame®

Reading is winning

Evidence-based literacy app in 17 languages





Jesper Ryynänen

Co-founder, GraphoGame

Jesper is focused on democratising access to world class early literacy education by distributing free-to-download gamified literacy apps on behalf of governments, foundations, and corporate social responsibility programmes.

GraphoGame's many language versions have been downloaded 10 million times and have over 500,000 monthly users.



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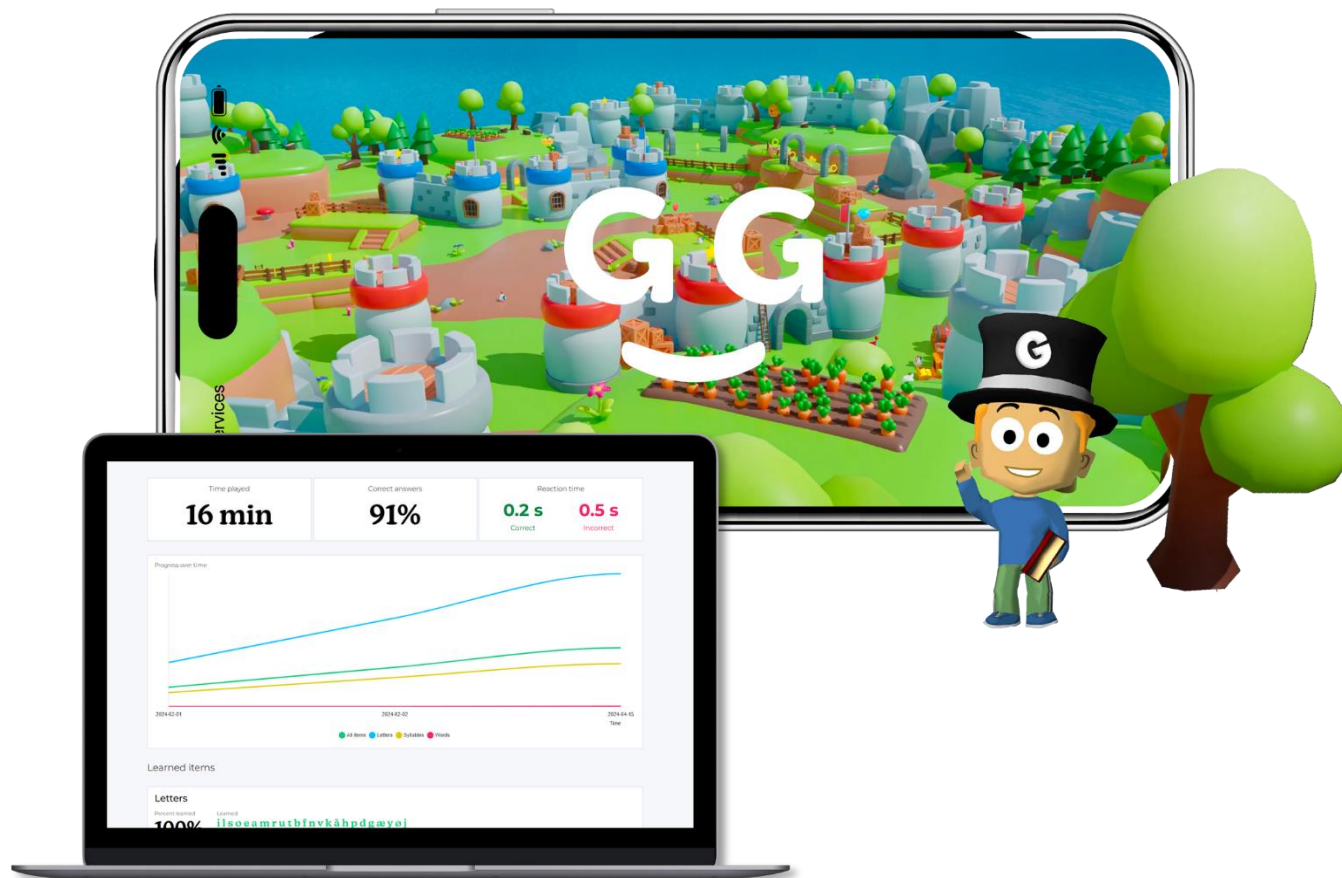
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4 QUALITY
EDUCATION



17 PARTNERSHIPS
FOR THE GOALS



✓ Learn letters, syllables and words. **15 mins a day**

✓ Suitable for **kindergarten, primary school** and older students

✓ Teachers get **data-driven insights**

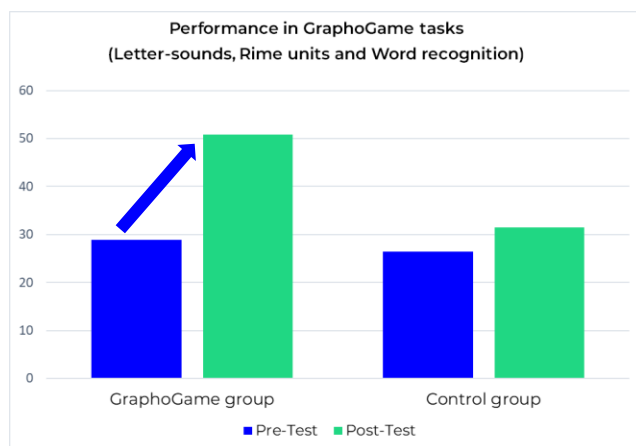


11th ADB International Education and Skills Summit

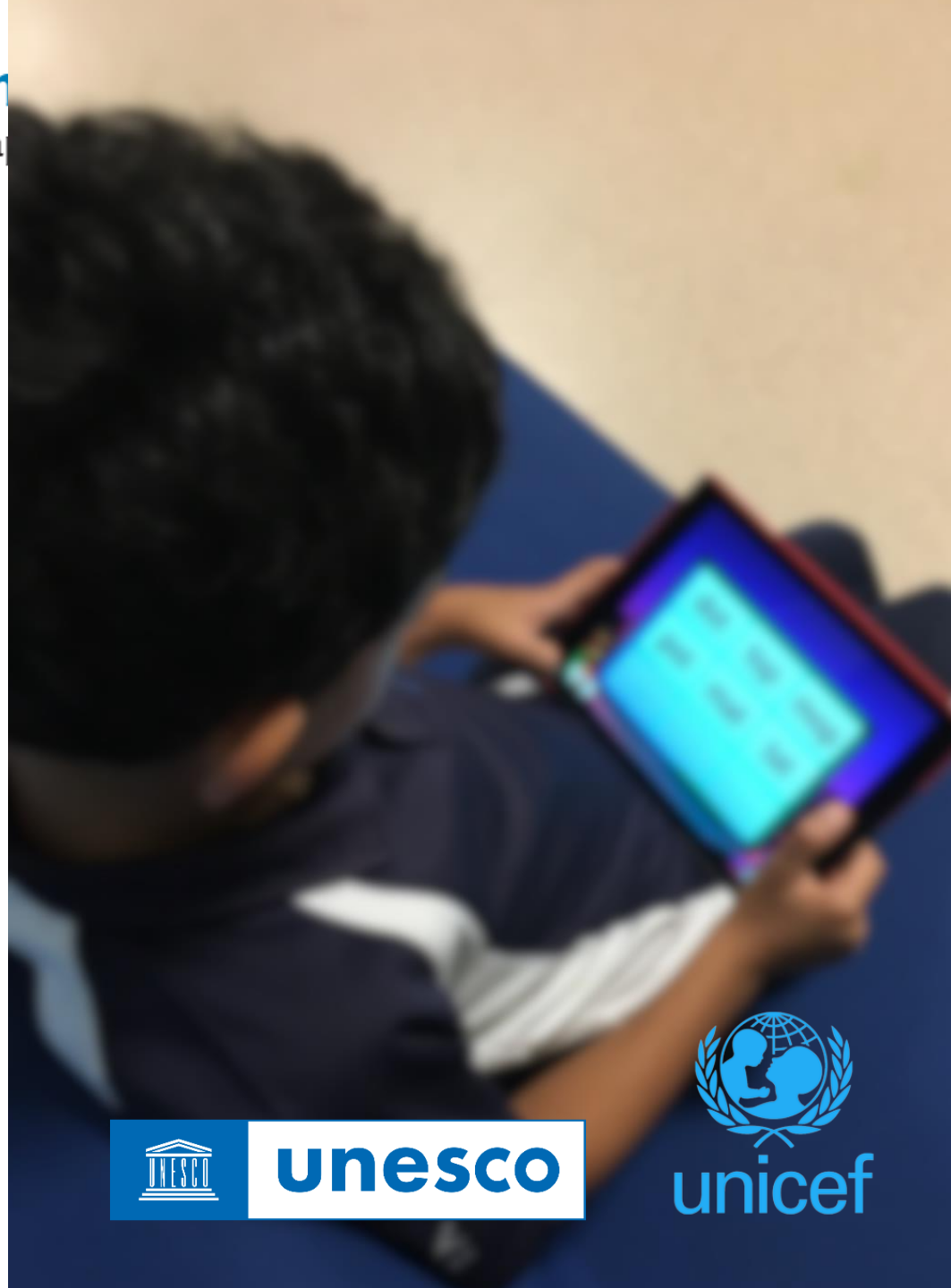
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- ✓ Proven **75% increase in performance**
- ✓ 300 peer-reviewed publications. **Certified by EduEvidence, World Bank, UNICEF & UNESCO**



Patel, P., Torppa, M., Aro, M., Richardson, U., & Lyytinen, H. (2018). GraphoLearn India: The effectiveness of a computer-assisted reading intervention in supporting struggling readers of English. *Frontiers in Psychology*, 9, 1045





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- ✓ COVID relief project in Latin America
- ✓ Launched app as a free-to-download resource in **Argentina, Colombia, Guatemala, Panama, Peru, Venezuela**





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- ✓ Developed and launched Brazilian Portuguese literacy app **on behalf of Brazilian govt**
- ✓ **Free download** for all residents of Brazil funded by the Brazilian government
- ✓ **Number 1 in trending apps** in Google Play and **top 5** in iOS App Store

2.5M

downloads

4.5

average star rating on
app stores

100+

published news articles



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Jesper Ryynänen
Co-founder

jesper@graphogame.com



GraphoGame®

Reading is winning



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 **iFLYTEK** | **iFLYEDU**



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Make a better world with AI

iFLYTEK

2025.12.03



Dave Xiao

iFlytek Southeast Education BG Manager

Serving as the Education Business Manager for Southeast Asia and an expert in Educational Information and Communication Technology (ICT), has accumulated over a decade of profound expertise in the dynamic markets of Southeast Asia, particularly across Indonesia, Malaysia, and Singapore. Dedicated to research on artificial intelligence technology and its applications in education, he employs AI technologies to develop adaptive language learning systems, automated exam grading solutions, AI-driven educational platforms, and smart display products tailored for countries such as those within ASEAN.



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Leading AI and Speech Public Listed Company in the Asia-Pacific Region



1999



2011



2024

- ◆ Founded in 1999, listed on Shenzhen Stock Exchange in 2008 (stock code: 002230)
- ◆ **Leader in China's intelligent voice market** with over 60% share in key segments
- ◆ Internationally advanced AI technologies: **intelligent voice, computer vision, NLP, cognitive intelligence**
- ◆ National AI leader: **established China's only national cognitive intelligence lab and speech/language research center**
- ◆ **Chairs China Voice Industry Alliance and AI Innovation Alliance of CAS**
- ◆ Won 2023 **National Science and Technology Progress Award** for multilingual intelligent voice



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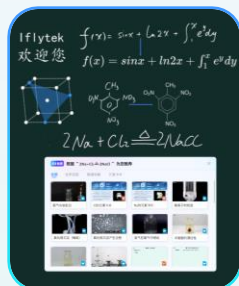
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Spark Smart Blackboard: Learn with AI ,Grow with You



Size: 65, 76, 86, 98 inches

Multi-modal Understanding



Natural Interaction



OCR Evaluation and Search



Virtual Teaching Assistant



Smart Recording And Sharing



15:27 Sunday
31 August



Sylvia

Logout

Class is ongoing

Switch

End



AI Chat



E-Book



AI Board

SPARK

Hi, I'm y

Click to start



- Home
- Slides
- E-Book
- AI board
- Analysis
- Rec...
- ...
- End
- >>

Spark Smart Blackboard has the following functions



WLAN



Windows



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Chinese Smart Teaching System

Powered by iFLYTEK's dedicated AI model for Chinese education, it provides core features—smart lesson prep, interactive classes, personalized assignments, and an AI Chinese companion—for teachers, students, and administrators. These form an integrated smart teaching solution countries, spanning instruction, learning, testing, evaluation, and management.



- English
- ภาษาไทย
- Bahasa Indonesia
- Bahasa Melayu
- မြန်မာစာ
- Tiếng Việt
- Wikang Filipino
- ພາສາລາວ





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SPARK Serves Thousands of Industries

Education

SPARK Assistant
for Teacher

Digital
Infrastructure for
Edu

Tailored
Teaching

Health Care

Clinical Decision
Support System

Post-Diagnosis
Management

Evidence-based
Prescribing

Finance

Intelligent
Customer
Services

Smart Risk
Management

Ticket
Generation

Automobile

Voice Assistant

Intelligent Cockpit

AI-powered
Interaction

Smart City

Urban Super Brain

Smart Government

Smart Court

Carrier

5G + AI
Innovative
Applications

5G New Calling
with AI Real-
time
Transcription

Heavy Industry

iFlyCode

Company
Knowledge
Library

Supply & Demand
Matching

Office

Communication
Assistant

Discourse
Structuring

One-Click Article
Generation

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Whatsapp: +60163505065



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Khan Academy Philippines

Member of the Khan Academy Network



DENISE FABELLA

EXECUTIVE DIRECTOR

As the Executive Director of Khan Academy Philippines, Denise oversees the strategic direction and management of the organization. Drawing on her background in technology, nonprofit management, and program delivery, she is committed to advancing Philippine education with innovative tools and programming. Denise holds a bachelor's degree in media, culture, and communication from New York University and a master's degree in learning design, innovation, and technology from the Harvard Graduate School of Education.



Khan Academy Philippines delivers a **free, localized, world-class** education technology to **empower Filipinos everywhere.**

2.7M

Total Filipino learners
on Khan Academy

21,400+

Teachers in public
schools trained

660,400+

Students rostered

17
Regions

Reach nationwide
(missing BARMM)

*National scale made possible through strong partnership
with the **Department of Education***

Explore

Q

Search

Khan Academy

Khanmigo

Donate

denise

MATH: PHILIPPINES	SCIENCE: PHILIPPINES	MATH: U.S. GRADES	ECONOMICS	READING & LANGUAGE ARTS	
1st grade (MATATAG - beta)	3rd grade Science (MATATAG)*	<div>NEW</div> Pre-K through grade 2 (Khan Kids)	Macroeconomics	Up to 2nd grade (Khan Kids)	
2nd grade (MATATAG - beta)	4th grade Science (MATATAG)*	<div>NEW</div> Early math review	AP®/College Macroeconomics	2nd grade	
3rd grade (MATATAG)*	5th grade Science (MATATAG)*	<div>NEW</div> 2nd grade	Microeconomics	3rd grade	
4th grade: foundations	6th grade Science (MELCS)*	<div>NEW</div> 3rd grade	AP®/College Microeconomics	4th grade	
4th grade (MELCS)	7th grade Science (MATATAG)*	<div>NEW</div> 4th grade	See all Economics	5th grade	
4th grade (MATATAG)	8th grade Science (MATATAG)*	<div>NEW</div> 5th grade	SCIENCE	6th grade reading and vocab <div>NEW</div>	
5th grade (MELCS)	9th grade Science (MELCS)*	<div>NEW</div> 6th grade		7th grade reading and vocab <div>NEW</div>	
5th grade (MATATAG - beta)	10th grade Science (MELCS)*	<div>NEW</div> 7th grade		8th grade reading and vocab <div>NEW</div>	
6th grade (MELCS)*	SHS Disaster readiness and risk reduction* <div>NEW</div>	<div>NEW</div> 8th grade		9th grade reading and vocab <div>NEW</div>	
6th grade (MATATAG)	SHS Earth and Life Science* <div>NEW</div>	MATH: GET READY COURSES		10th grade reading and vocab <div>NEW</div>	
7th grade: foundations (MATATAG)*	SHS Earth Science* <div>NEW</div>	Get ready for 3rd grade	High school biology	Grammar	
7th grade (MATATAG - beta)	SHS Physical Science* <div>NEW</div>	Get ready for 4th grade	High school chemistry	See all Reading & Language Arts	
8th grade (MELCS - beta)	SHS Biology 1* <div>NEW</div>	Get ready for 5th grade	High school physics	LIFE SKILLS	
8th grade (MATATAG - beta)	SHS Biology 2* <div>NEW</div>	Get ready for 6th grade	Hands-on science activities <div>NEW</div>		AI for education
9th grade (MELCS - beta)	SHS General Chemistry <div>NEW</div>	Get ready for 7th grade	Teacher resources (NGSS) <div>NEW</div>		Khanmigo for students <div>NEW</div>
9th grade (MATATAG)*	SHS General Chemistry 2* <div>NEW</div>	Get ready for 8th grade	AP®/College Biology		Social & emotional learning (Khan Kids)
10th grade (MELCS - beta)	SHS General Physics 1* <div>NEW</div>	Get ready for Algebra 1	AP®/College Chemistry		Financial literacy
10th grade (MATATAG)*	SHS General Physics 2* <div>NEW</div>	Get ready for Geometry	AP®/College Environmental Science	Internet safety	
SHS General Math (MELCS)*	SHS General Chemistry 1* <div>NEW</div>	Get ready for Algebra 2	AP®/College Physics 1	Social media literacy	
SHS Statistics and Probability (MELCS)*	SHS General Chemistry 2* <div>NEW</div>	Get ready for Precalculus	See all Science	Growth mindset	
SHS Pre-Calculus (MELCS)*	SHS General Physics 1* <div>NEW</div>	Get ready for AP® Calculus	COMPUTING	Careers	
SHS Basic Calculus (MELCS)*	SHS General Physics 2* <div>NEW</div>	Get ready for AP® Statistics	Intro to CS - Python	Personal finance	
ALS K to 12 Math <div>NEW</div>	TESDA: PHILIPPINES	MATH: U.S. HIGH SCHOOL & COLLEGE	Computer programming	College admissions	
PISA PHILIPPINES	TESDA Information Management* <div>NEW</div>	Algebra 1	AP®/College Computer Science Principles	See all Life Skills	
About the PISA practice program		Geometry	Computers and the Internet	PARTNER CONTENT	
PISA 2025 Science Supplement*		Algebra 2	Pixar in a Box	Ancient Art <div>NEW</div>	
PISA 2025 Math Supplement*		Integrated math 1	See all Computing	Asian Art	
PISA 2025 English Supplement*		Integrated math 2	ARTS & HUMANITIES	Biodiversity	
PISA Past Practice Tests*		Integrated math 3			
		Algebra basics			

Localized and Aligned Local Curriculum

Published courses aligned with DepEd curriculum:

- Math: Grades 1 to 12
- ALS K to 12
- Science: Grades 3 to 12
- English: Grades 2-10
- PISA PH: Practice tests with permission from OECD

Technical and Vocational Education and Training courses to supplement TESDA initiatives:

- Information Management
- Critical Thinking with Metacognition
- Computational Thinking
- FLEMMS Review

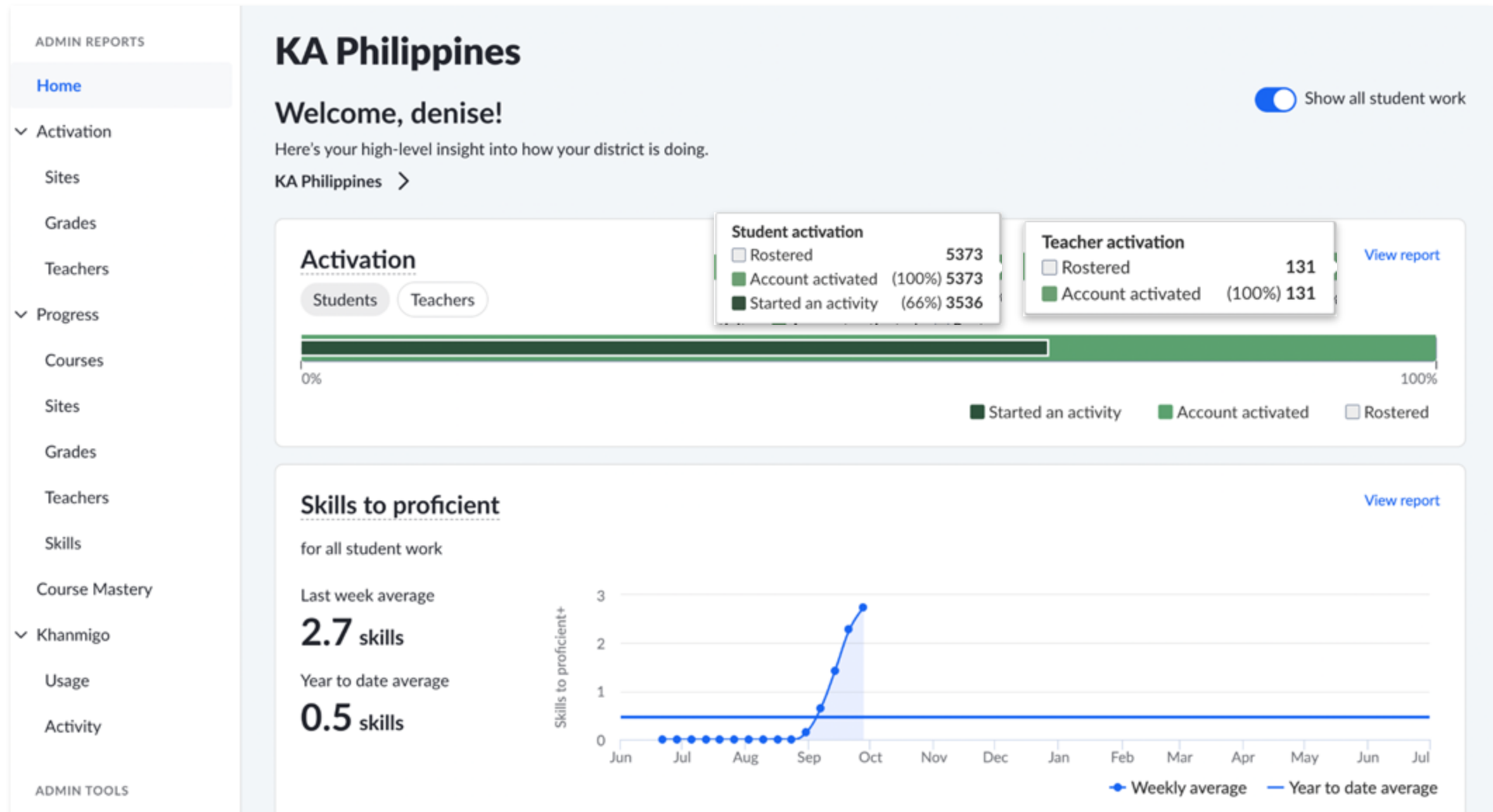
COMING:

- Strengthened SHS Math, Science, English Courses
- SHS Intro to Maritime Studies Course
- Other Life Skills relevant to the Philippines
- Adult Literacy Course (looking for sponsor)

Separate App:

- Khan Academy Kids App for Pre-K to Gr 2

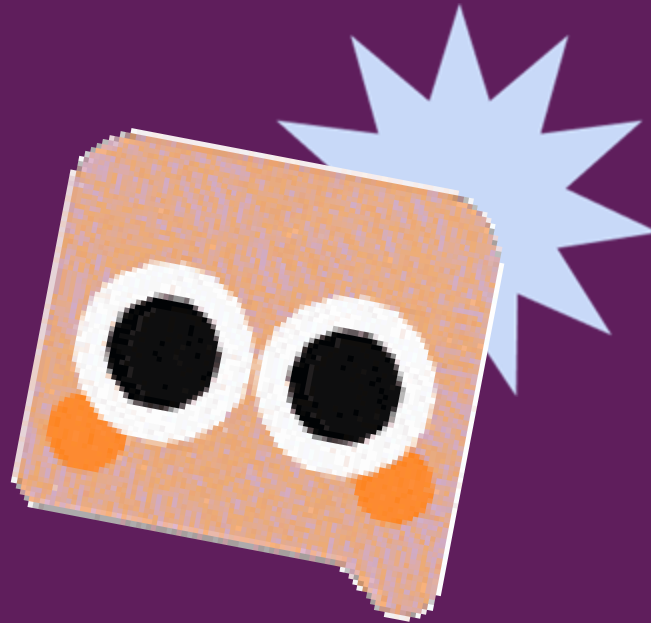
Real-Time Data for Better Decisions



Khanmigo, Khan Academy's AI-powered guide

Tutor for learners.

- Get step-by-step math without giving answers
- Practice sets targeted to their mastery levels
- See guided explanations for difficult concepts
- Builds a growth mindset



Assistant for teachers.

- Prepare DepEd lesson plans in minutes
- Analyze student performance
- Generate quizzes instantly
- Save time on admin tasks



See It Firsthand at Our Booth

Explore:

- Khanmigo AI tools for teachers
- Philippine-aligned course mastery pathways for students
- Real-time dashboards for education leaders

Together, let's equip Filipino learners and educators for a smarter, more future-ready nation.



Maraming salamat!

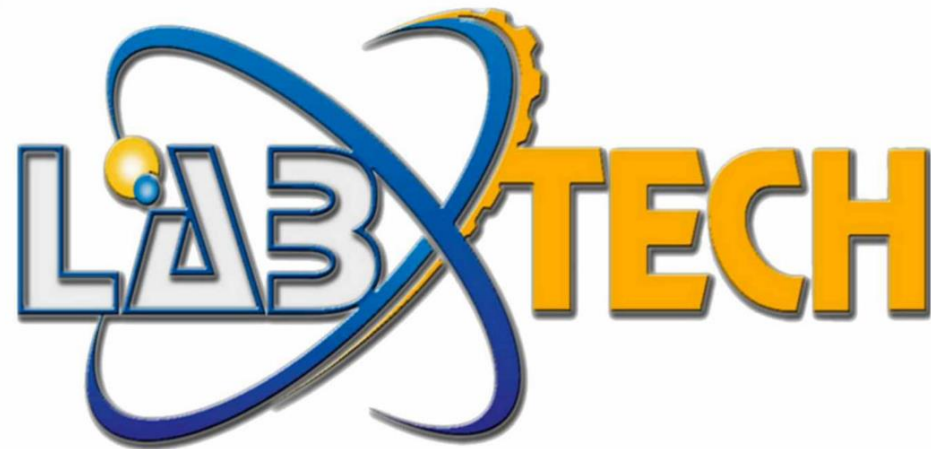
Inquiries: denise@khanacademyphilippines.org



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Knowledge Engineering

www.labtech.org

ISO 9001



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Advancing Sustainable Education through Digital Innovation and Green Technologies

Empowering Future-Ready Skills with Labtech's Cutting-Edge Training in Electric Vehicles, Renewable Energy, and Industry 4.0/5.0

Labtech A Pioneer in TVET Transformation

Personalized Learning with Artificial Intelligence

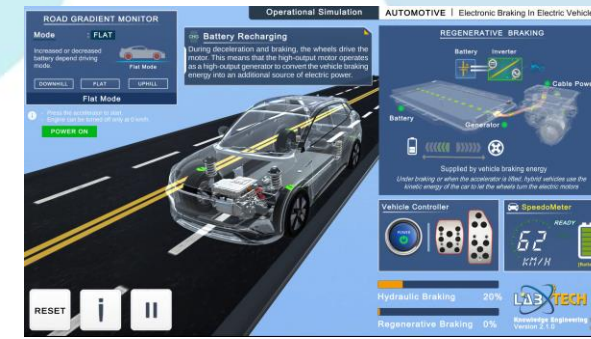
Digital Twin Technology in Education

Micro-Credentialed Learning Pathways

Bridging Global Skill Gaps



INNOSPHERE EXHIBITOR BOOTH 7



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batam@labtech.org

www.labtech.org

Focus on Quality Education and Clean Energy

Promoting Innovation and Climate Action

Training for a Sustainable Future



INNOSPHERE EXHIBITOR BOOTH 7



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matific



Matific: Reimagining Math Learning for Every Child

Deployed in your language and aligned to your curriculum



Craig Shotland

CEO

An innovative technology leader in the education and software industry, with a proven track record of driving technological advancements and leading high-performing teams.

Craig successfully founded & scaled Australia's largest eCommerce agency exiting that business to a public company. He led Rokt (Australia's third most valuable non-public company) across JAPAC.

At Matific Craig focuses on developing an AI-driven platform that enhances user experiences and improves learning outcomes.



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At Matific, our vision is to **provide every child in every country with a mathematical experience of the highest possible quality.**





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What is Matific?

The world's best maths activities for children aged 4 - 15

- ✓ K to grade 9 Mathematics
- ✓ Millions of users 50+ languages & 70+ countries
- ✓ Personalised and adaptive (AI/ML)
- ✓ Sold to governments, districts, schools and parents
- ✓ Aligned to over 200+ curriculum & textbooks
- ✓ Works on Web, iOS & Android (and offline)
- ✓ Intuitive reporting and deep insights





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What does **Matific** do?

Builds strong mathematical foundations

Our pedagogical principles were developed by world-renowned experts in maths and childhood education:

- ✓ Conceptual Understanding
- ✓ Critical Thinking
- ✓ Meaningful Context
- ✓ Personalised Learning
- ✓ Intrinsic Engagement

Efficacy studies of Matific have shown “students on an average improved by **34%***”.

* Research Evaluation: Matific Mathematics Learning Resource. Associate Professor Catherine Attard, Western Sydney University.





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Students **Love Matific**

We are serious about making math engaging

K-9 Curriculum Aligned Mathematics

Students explore math concepts through pedagogically rigorous activities that make learning joyful.

Delivering the right activity at the right time

Our adaptive ML algorithm delivers activities in the Zone of Proximal Development aligned to the teachers needs.

Motivating Progress

Rewards, avatars, humour and other gamification elements supplement the intrinsic motivation of learning.

Their Language, Their Curriculum

Available in 50+ languages, across devices, even offline.

Mapped to over 600+ curriculum and textbooks





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Educators Love Matific

Making teachers rockstars

Teachers are at the heart of Matific

Teachers can set topics, easily assign activities and differentiate to target class goals or individuals.

Leveraging AI to simplify administration for educators

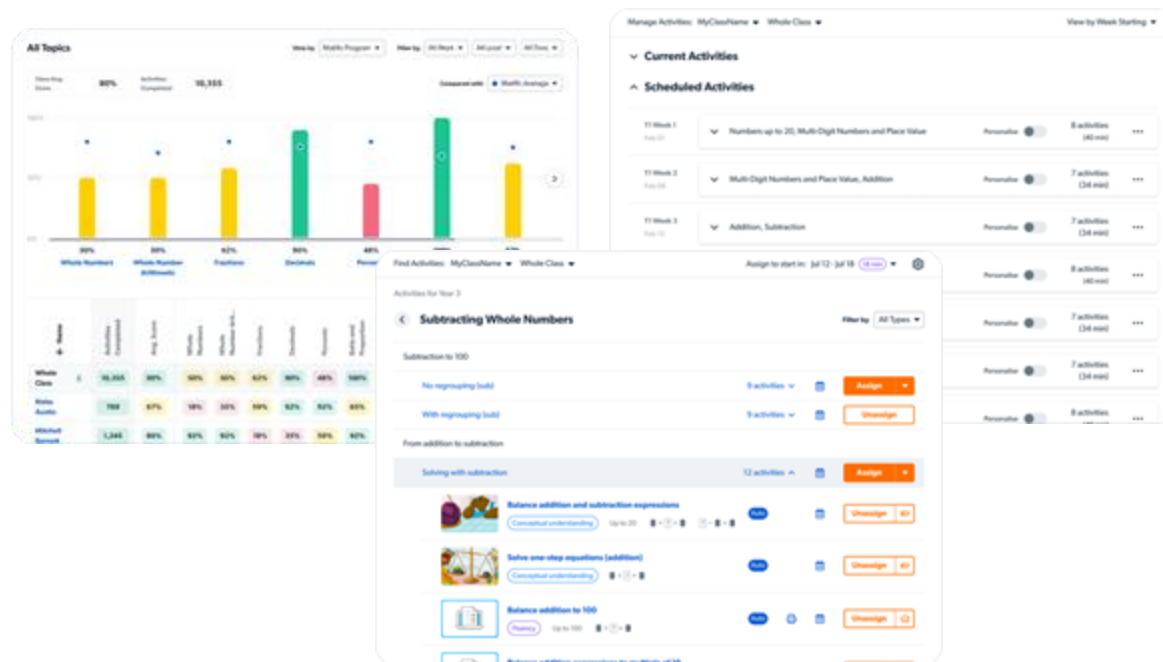
AI that empowers teachers to focus on inspiring minds, not managing tasks.

Real-Time Insights

Rich dashboards highlight student progress, mastery, and areas for intervention.

Easy Integration

Seamlessly fits into school systems, with single sign-on, LMS support, and curriculum mapping.





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The Matific Difference

We are serious about making math engaging



Add whole numbers (number line)

In this episode, learners use a number line model to find the missing addend in order to make a given total.

[Play Now](#)

We teach critical thinking and a true understanding of math



Add and subtract integers (negative numbers)

Solve real-life problems involving addition and subtraction of numbers in the range -100 to 100.

[Play Now](#)



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Evidence & Impact

Case Study Matific in São Paulo, Brazil

Ongoing partnership with **São Paulo's State's Department of Education** to enhance math teaching and learning across the state. The large scale-project continues to deliver Matific to **1,823,860 Students**, 35,470 Teachers, 61,084 Classes & 4,541 Schools.

For the first time in a decade, **state-wide SARESP assessments showed staggering improvements** in maths scores for all grades, ranging from **45% in Year 2 to 13.8% in Year 6 and 9.1% for Year 9.**

Math scores also increased from **2.92 to 3.79 out of 5 (29.8%).**
In addition:

- 99%+ of students activated
- 88%+ of students login each month
- 177,750,000+ activities completed
- Teacher post-training satisfaction exceeded 90%





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Evidence of Impact - Validated. Proven. Trusted.



+34% improvement in maths results in just one term (Australia)



"3 months of extra learning" in one school year (U.S.)



87% reduction in maths failure rates after one year (Brazil)



Large effect sizes (0.33–0.76 SD) Matific users achieved significantly higher gains (Uruguay)



89% of teachers recommend Matific citing higher engagement and clarity (U.S.)



77% of teachers report clearer lessons and stronger real-life connections (Uruguay)



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Matific with UNICEF

★ *Member of* ★



UNICEF-led initiative to curate
evidence-backed EdTech solutions

learningcabinet.org

Matific has been accepted into the **UNICEF-led Learning Cabinet**, a global platform recognizing trusted EdTech tools that demonstrate strong potential to positively impact learning, particularly in low-resource settings.

We're also partnering with **UNICEF's Global Learning Hub – Blue Unicorn Portfolio** in **Egypt** and **Ghana** as an evidence-backed EdTech solution. Discussions are underway to expand this collaboration within these countries and beyond.



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Matific's Partners



Matific works with governments, school groups, NGOs and other enterprises around the globe to deliver exceptional learning experiences.



Global Impact, Local Focus

AI-powered, localized, adaptive learning across Asia and the Pacific

www.matific.com

Transforming education is in your hands



Scan to connect

Matific is ready to collaborate with ministries, schools, and
partners to deliver equitable, joyful, and
future-ready learning experiences
— anytime, anywhere



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MAXHUB



Jayson Alviar

Activ8 Diversified Technology Inc. General Manager

Activ8's General Manager oversees the company's overall operations, drives strategic growth initiatives, and leads efforts to strengthen its position as a leading provider of ICT, security, and smart technology solutions in the Philippines.



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MAXHUB

WHO WE ARE

MAXHUB focuses on developing innovative interaction technologies and smart applications **optimized for education, conferencing, digital signage, and hospitality.**

2025 AWARDS

- MICROSOFT AI INNOVATION AWARD
CES 2025
- BEST OF SHOW AWARD
ISE 2025





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Market Coverage

MAXHUB

7

Global Subsidiaries
(with Customer
Experience Centers)

140+

Countries Covered

46

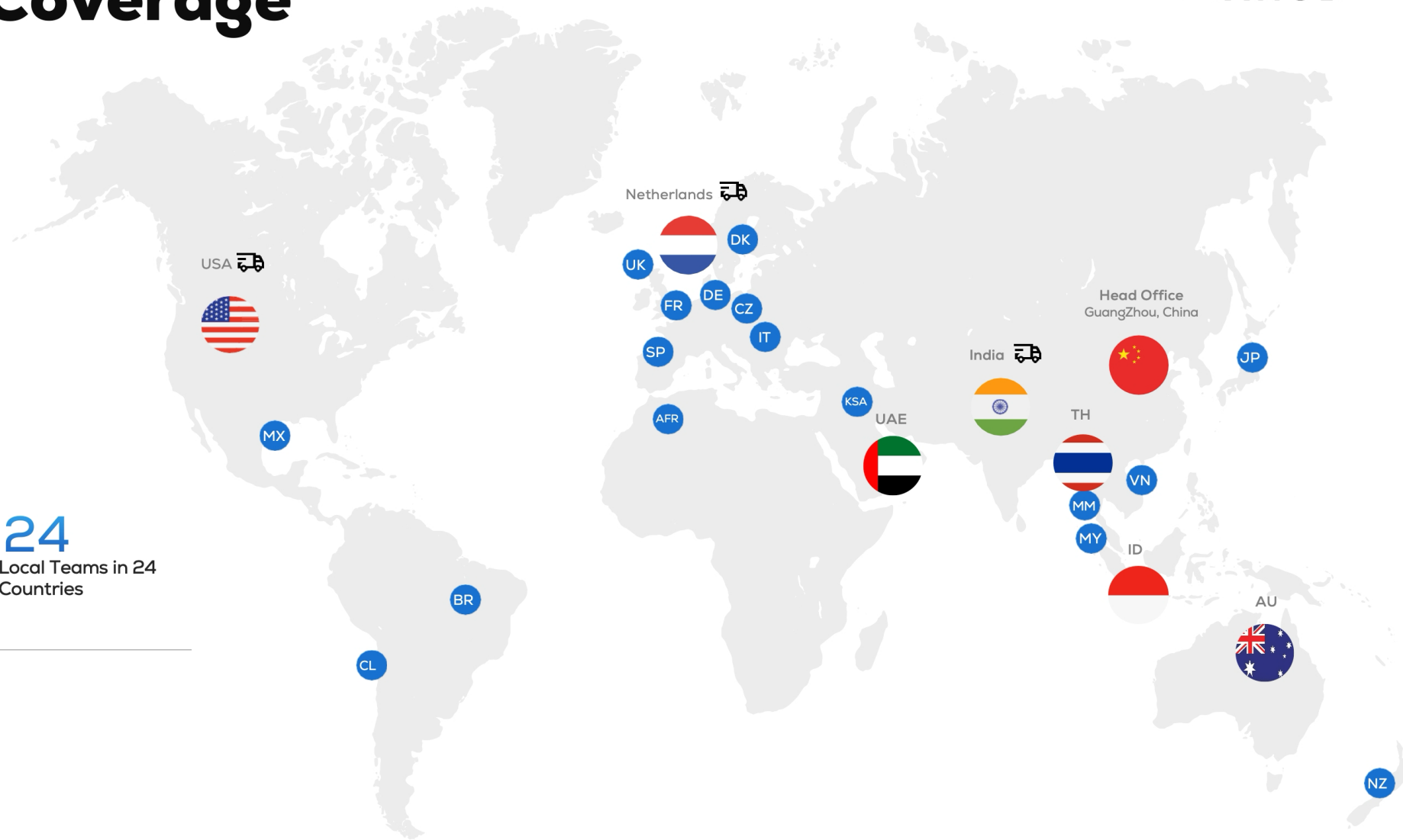
Service Partners
Worldwide

24

Local Teams in 24
Countries

● Local Team

🚚 Warehouse





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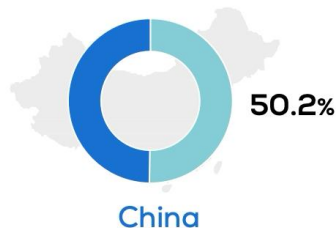
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IFP Leader in Education Market

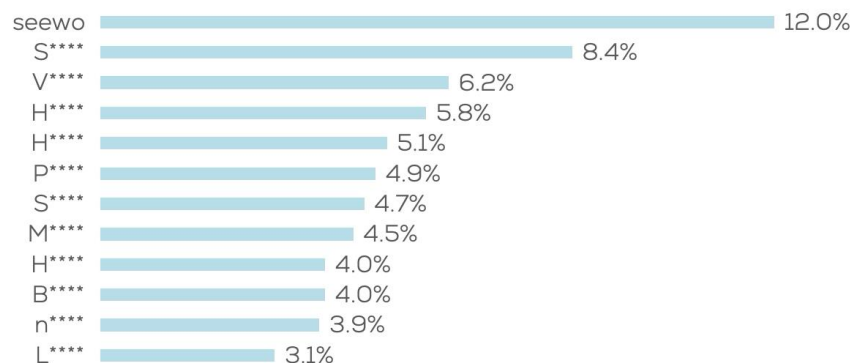
Over 16 years of focus on education, we have entered 3 million classrooms, has 8 million Teachers using our solutions.

Global: TOP 1 in IFPD education industry (By Volume)

China: TOP 1 for 13 consecutive years in IFPD education industry (2012-2024)



Global IFPD/IWB Brand Shares By Volume (education)



*Data as of Q1 2025





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MAXHUB Education Solution

Build a highly integrated smart campus with MAXHUB Education Solutions

















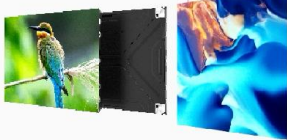
















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MAXHUB Education Solution

Hardware Solutions				Software Solutions		
In-class Teaching						
	E3 Series IFP 65"/75"/86"	U4 Series IFP 65"/75"/86"	Smart Blackboard 86"	MAXHUB EDU OS	MAXHUB Connect	
Digital Classroom						
	Capturing System V3	Portable Capturing System	Document Camera	AV Peripherals & Accessories	MAXHUB EasiClass	MAXHUB Caster
Digital Campus						
	LED All In One	Smart Podium	Digital Display	Indoor /Outdoor LED	MAXHUB Note	MAXHUB Pivot
Application Scenarios						
	Multimedia Classroom	Hybrid Smart Classroom	Tutorial Classroom	Lecture Hall	Pinconow	MAXHUB Pivot
						
						



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Education Development Trends

Countries across the regions are supporting the development of **education digitalization** in their policies



ASEAN Digital Education Exchange Event

- Education officials from the Education Ministers and Embassies of the 9 ASEAN countries
- Venue: Beijing Economic Development Zone School, and the MAXHUB Smart Classroom Showroom.
- Live classroom: MAHXUB Smart Classroom Solution B8610 + Capture System



Thailand Ministry of Higher Education Dialogue

- Thailand's Ministry of Higher Education, Foreign Affairs Office and CVTE work together to promote the digital future of education and contribute to the balanced development of global education.



China-ASEAN Higher Education Forum

- CVTE participate in the China-ASEAN (Malaysia) Higher Education Forum in Malaysia to share the advancing digital transformation of education in ASEAN countries
- Exploring the AI Advancement in Education

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Edmond JIA

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Whatsapp & Phone: +65 81318739

Jayson Alviar

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Viber & Phone: +63 917-523-7982





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MOUNT
SAINT VINCENT
UNIVERSITY

MERGE **EDU**



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Augmented Reality in a Cube

Teaching and Learning at Your Fingertips



&

MERGEEDU



GERALD TEMBREVILLA, PHD

ASSISTANT PROFESSOR, MSVU, Halifax, Canada



For 5+ years, Gerald has integrated Merge Edu into Teacher Education. He publishes and presents internationally on STEM, tech integration, and experiential learning, and is Co-Editor-in-Chief of JRSMTE.

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Merge EDU: AR in a Cube

Anytime, Anywhere, at Your Fingertips: How Does It Work?





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Merge EDU: AR in a Cube



Hands-on Augmented Reality for Education

Merge EDU engages students in STEM & Science with digital 3D objects and simulations they can touch, hold and interact with.

Try Merge EDU

[Trial Sign Up](#)

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Buy Merge EDU

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Research, Case Studies and More

Insightful articles, academic research, news, and press.

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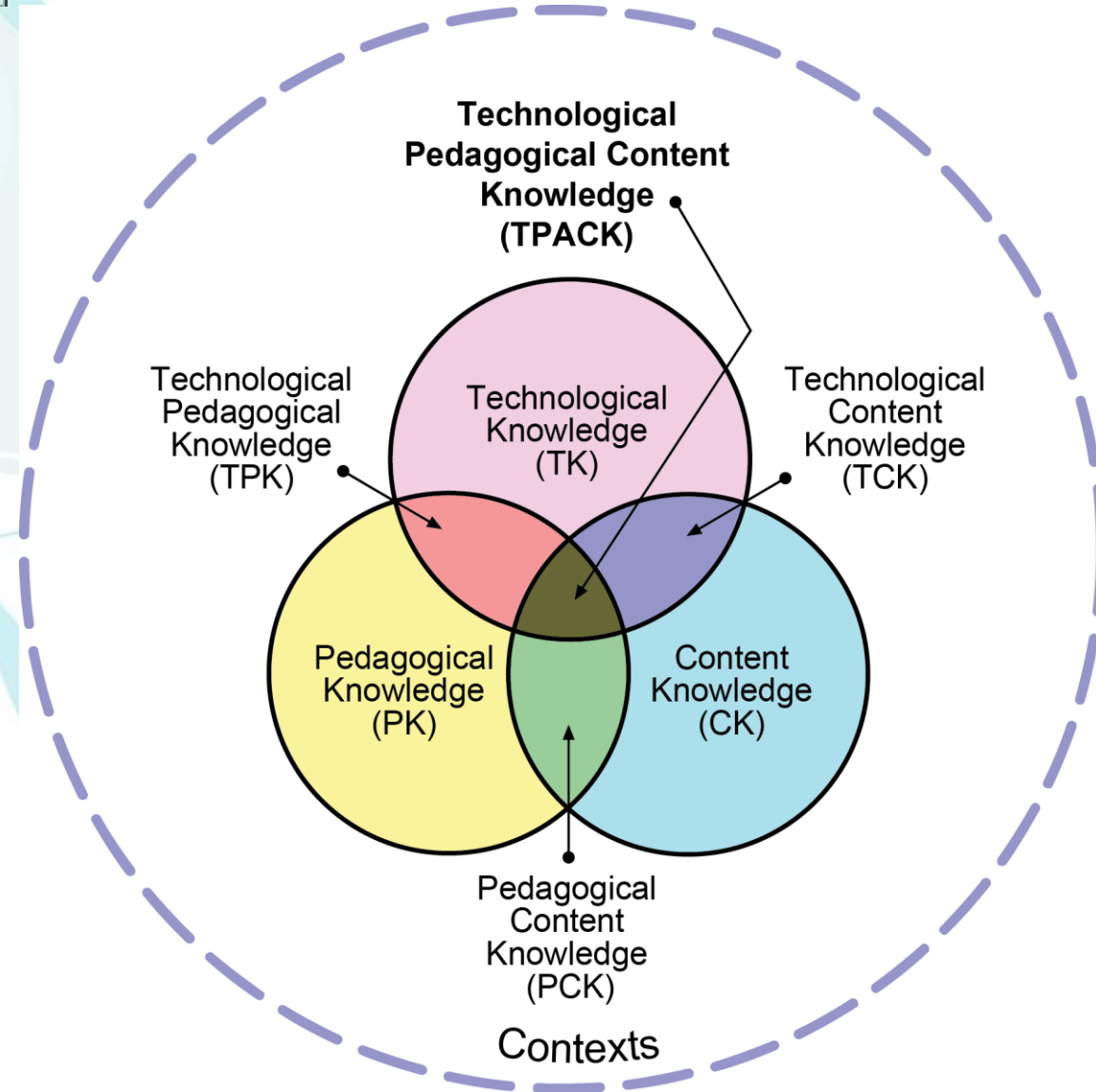
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TPACK & Teacher Empowerment

Placing technology where it matters most – in the hands of teachers
(Behar & Mishra, 2018; Tembrevilla, 2020; Tembrevilla et al., 2025).



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A closer look: Policy and Systems Lens

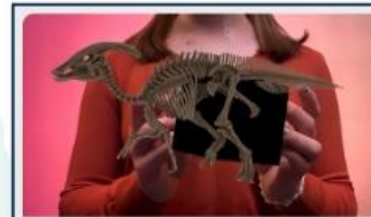
For Policymakers and Education Leaders

Merge EDU:
Reimagining Education through AR&VR

From novelty to scalable, inquiry-based learning

Advances EDI, 21st century skills in K-12 & TVET

Links learning to workforce pathways in STEM and beyond



ARTICLES

Exploring Prehistoric Life with
Merge Object Viewer



ARTICLES

How Augmented Reality Helps
Prepare Students for Medical
Careers



RESEARCH

Bringing Ancient Egypt to Life
with XR: Transforming
Museum Experiences



COMMUNITY

How Merge EDU is Helping
Transform Classrooms into
Dynamic Learning
Environments around the
Globe



RESEARCH

Unlocking 21st-Century Skills
with AR in Science Education



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A closer look: Educator & Learner Lens

For Teacher Educators and Practitioners

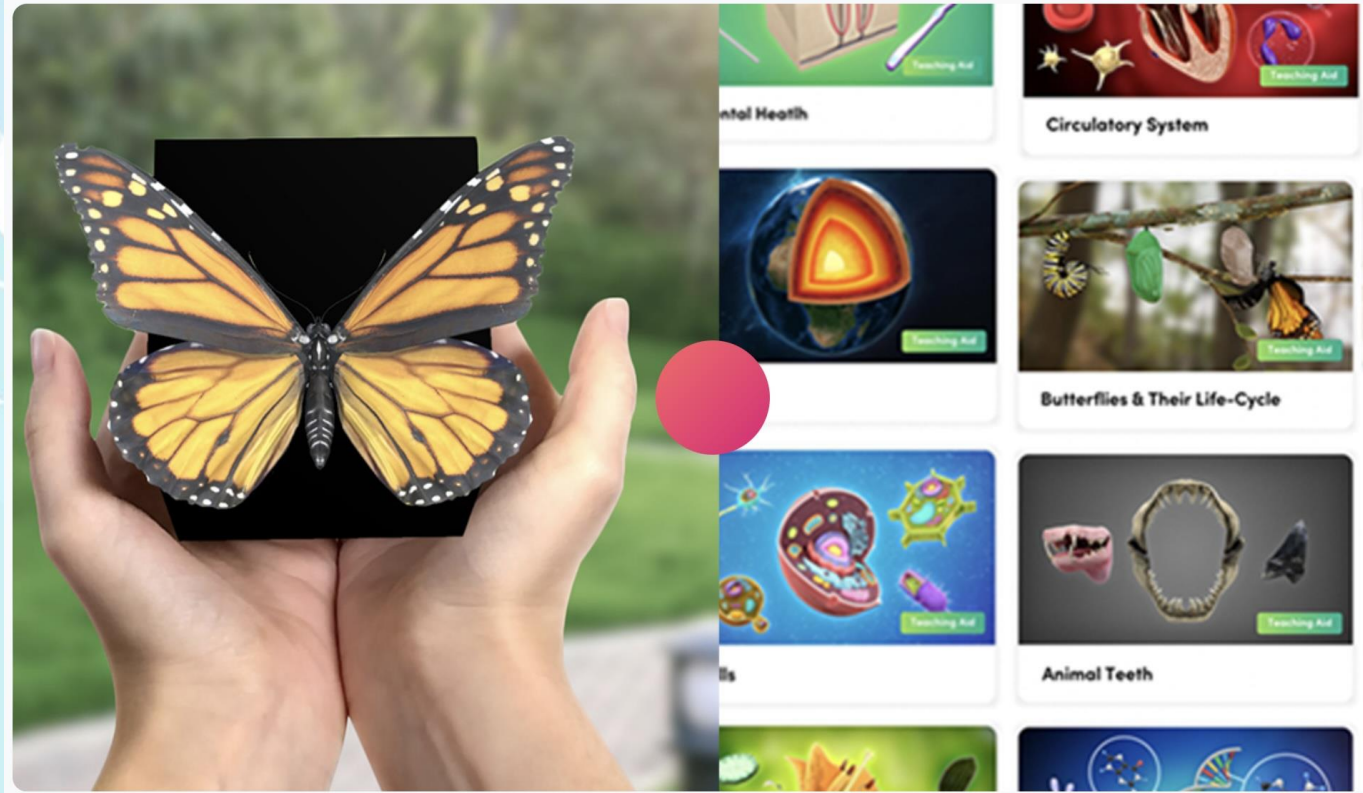
Merge EDU:

Transforming Teaching & Learning

Turn abstract concepts into interactive, hands-on

Students don't just see – they explore, inquire...

Move beyond textbooks – inspire creativity, critical thinking...





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A closer look: Innovation-Partnership Lens

For EdTech Innovators and Industry Partners

Merge EDU: Bridging Innovation, Pedagogy, & Impact



**3D Tactile
Learning**



**At Home &
School**



**Curriculum
Aligned**



**Multi Sensory
Instruction**



**Spatial
Development**



**Accelerate
Understanding**



**Focused
Engagement**

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Contact information



gerald.tembrevilla@msvu.ca

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[Trial Sign Up](#)

<https://dashboard.mergeedu.com/signup>

[Help Center](#)

<https://support.mergeedu.com/hc/en-us>

[Submit a request](#)

<https://support.mergeedu.com/hc/en-us/requests/new>



@MergeVR



@mergeedu, @mergevr



<https://www.youtube.com/mergevr>



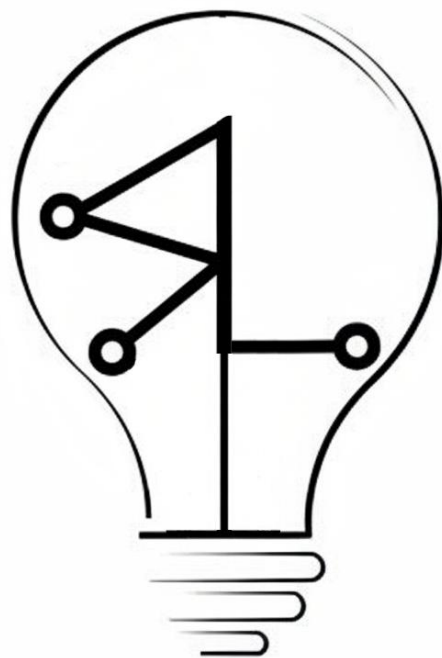
@merge



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Closing the Skills Gap

Make Learning Fast and Effective for Anyone



Leon Carlo Valencia

CEO & Co-Founder of ReaLearn

Leon's passion for revolutionizing human learning stems from his personal journey of transforming himself from an average student into a passionate, effective learner. This experience now drives his mission to “make learning fast and effective for anyone.”



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The Problem



- 27 yo CS grad of a prestigious university
- living at home feeling like a parasite
- paralyzed by anxiety after ½ year of job hunting
- since graduation...
 - sent 500 tailored applications
 - willing to work for free but can't get internship
- catch-22: 'entry-level' jobs demand skills from 3-5 years of experience she can't get
- "I did everything I was supposed to, so I'm left wondering what I'm missing. Now, it feels like the system is what's missing."

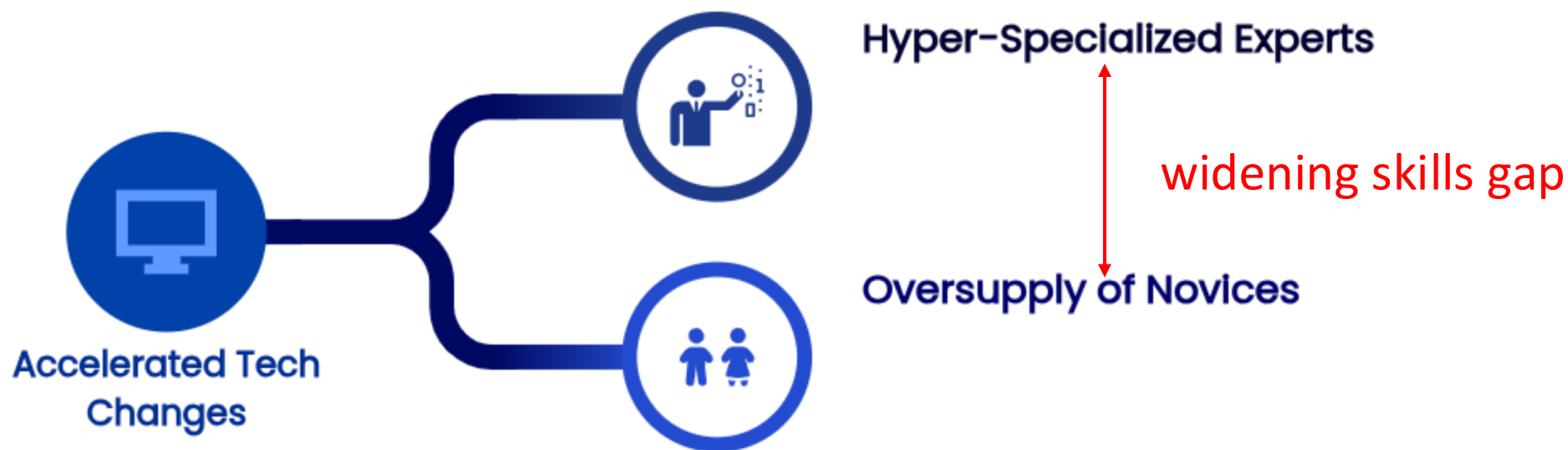


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The Problem



“Skills gaps in the labour market were seen as the biggest barrier to organisation transformation by nearly two-thirds of respondents globally...”

- *The Future of Jobs Report 2025* by **The World Economic Forum**

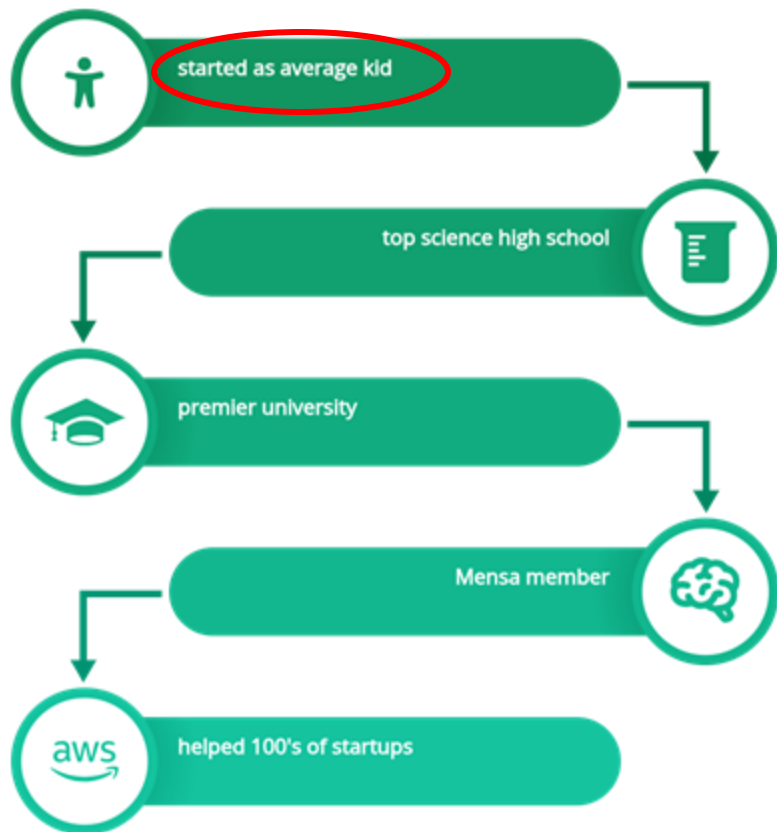


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Our Obsession



- found out from the learning sciences that I learned ***how to learn*** when I was young
 - trained people smarter than me
- left AWS to work on this full-time
 - build a system that can help people learn the right way at scale

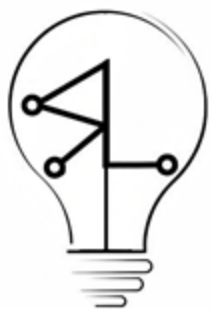


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Insight



- For 8 months before leaving my day job...
 - did nothing but listen
 - interviewed dozens of founders & executives
- I found that the real problem isn't lack of experience among juniors...
 - technology is now evolving too fast
 - requisite skills keep changing
 - the workforce needs a system to learn fast



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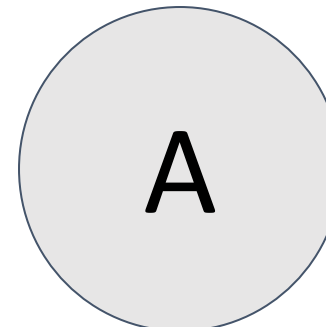
The Team



**Learning Science
Expert**



**Expert
Knowledge
Integrator**



**Expert
Technology
Builder**

part time for now

70 years collective experience in technology building and thought leadership

Skills gap is a systems issue & as systems builders, we couldn't look away!

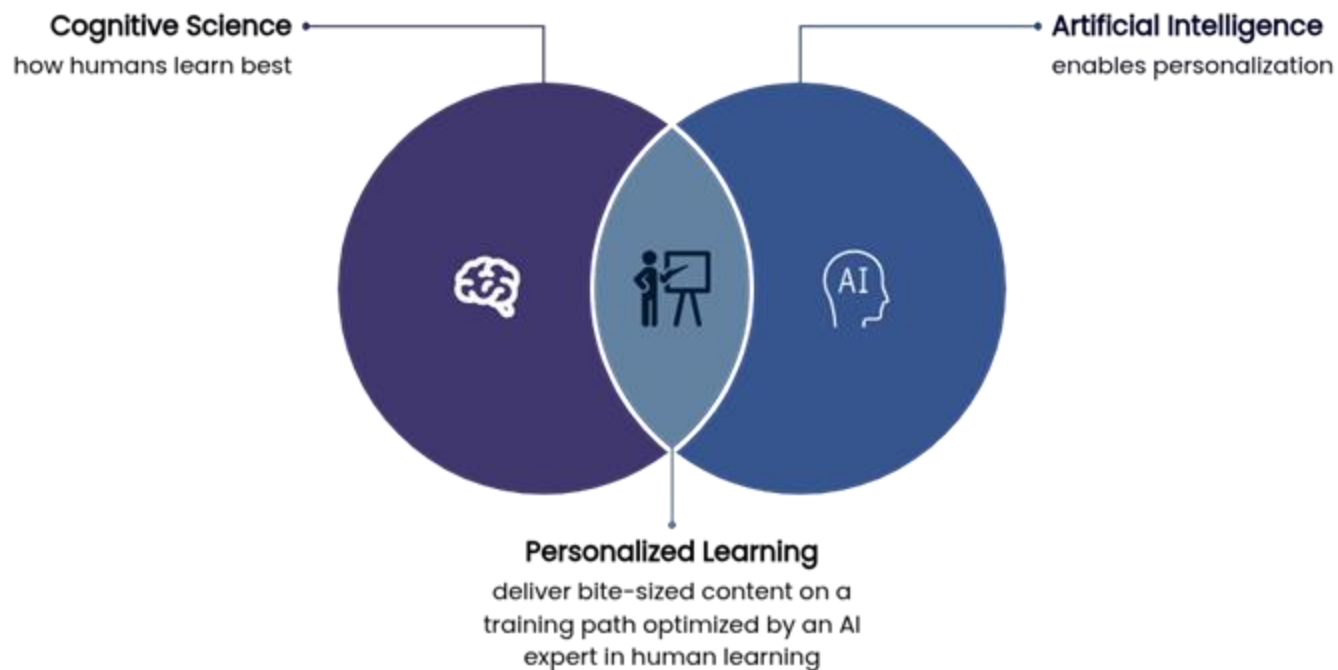


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The Solution



Turn novices into effective experts at the fraction of the time it takes for a series of specialization courses.



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Validation



- Initial learners using our system show...
 - better learning outcomes
 - faster learning results
- early traction...
 - 3 startups to close deals once the learning materials **they need** become available

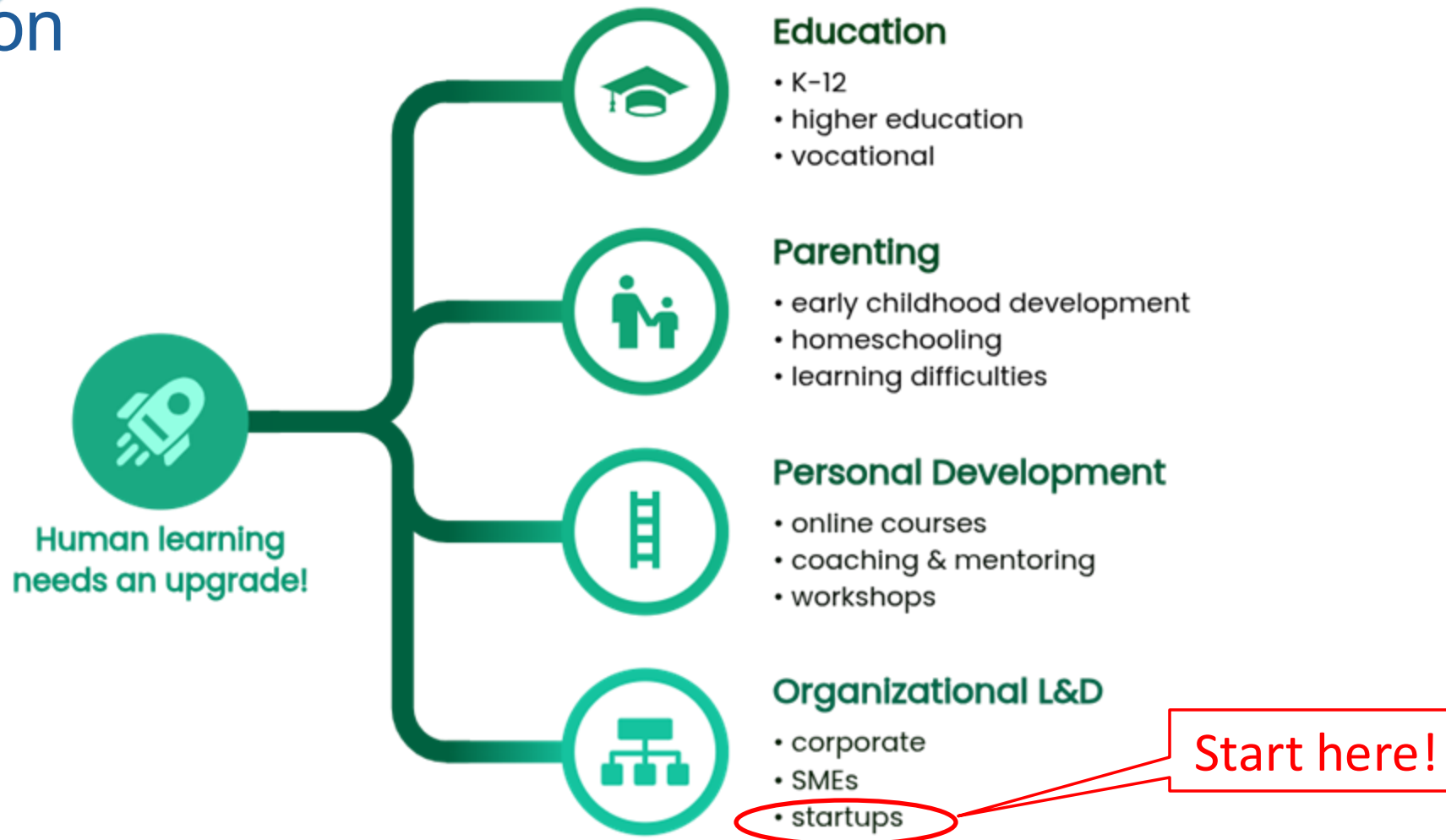


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The Vision



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Ask



realearn.to



/in/engrlynx/



leon@realearn.to

To achieve the vision, we are seeking:

- clients who want to build the **future of learning** with us
- partners to onboard **learning content** on our platform



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Seabery[∞]

AUGMENTED TRAINING
TECHNOLOGY



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TRANSFORMING WELDING EDUCATION WITH SOLDAMATIC AUGMENTED REALITY

Efficiency, Safety, and Sustainability





HIDAYAT W.H. MERCADO

Seabery Soluciones S.L.
ASEAN & OCEANIA Regional Manager

With more than 30 years of experience, currently holds the position of Regional Manager for ASEAN and Oceania at Seabery Soluciones S.L., based in Jakarta, Indonesia. He emphasizes the implementation of advanced AR welding simulators. His broad expertise encompasses project management across various initiatives, particularly centered on simulator technology. He has demonstrated consistent success in multinational corporations, overseeing a diverse array of projects.



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Global Welding Skills Gap & Challenges

AR & The Welder Shortage



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Why Welders are Essential



Strong demand for certified welders, critical for key Industries, global and local.



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Barriers for New Generations





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Challenge	Description
High Costs	Expensive materials, consumables, and electricity are wasted.
Inefficiency	Rigid training pace, slow skill development, hard to detect errors.
Physical Risks	High potential for burns and injuries; exposure to toxic fumes.
Environmental	Creates significant CO2 emissions and waste.





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“The most PROBLEMATIC WERE SECURITY INCIDENTS. Students **burn** or **injury** themselves while welding.

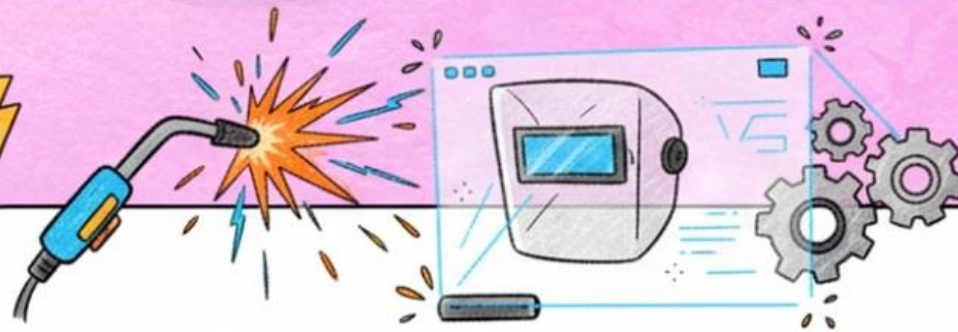


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3



Training with AR

A technological solution






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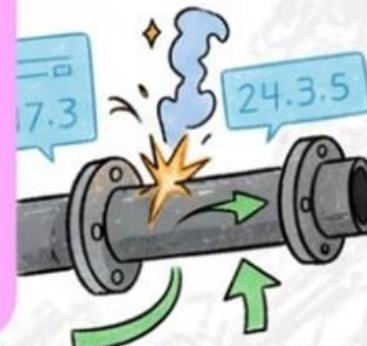
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Augmented Reality (AR)

Overlays digital information like instructions and real-time feedback onto the real world.





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Augmented Training

Use Real Tools

Trainees use real welding torches and masks.



Get Digital Guides

Receive digital guidance in real-time inside the mask.

Instant Feedback

Get data-driven analysis of every movement.

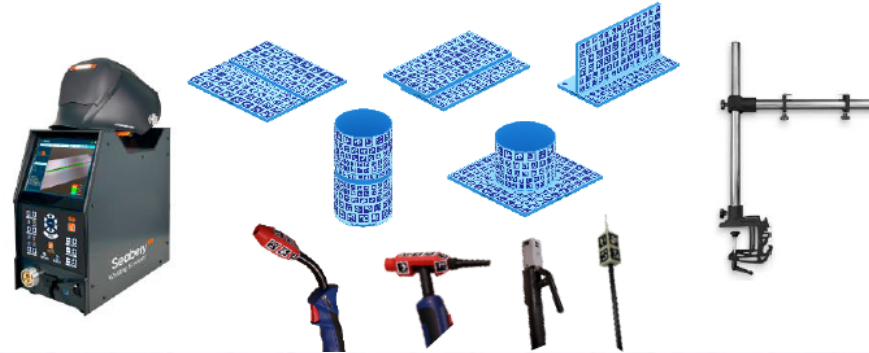


Practice Limitlessly

Practice without consuming materials or energy.

Build Muscle Memory

Develop authentic skills and confidence.





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TRADITIONAL METHOD



AR METHOD

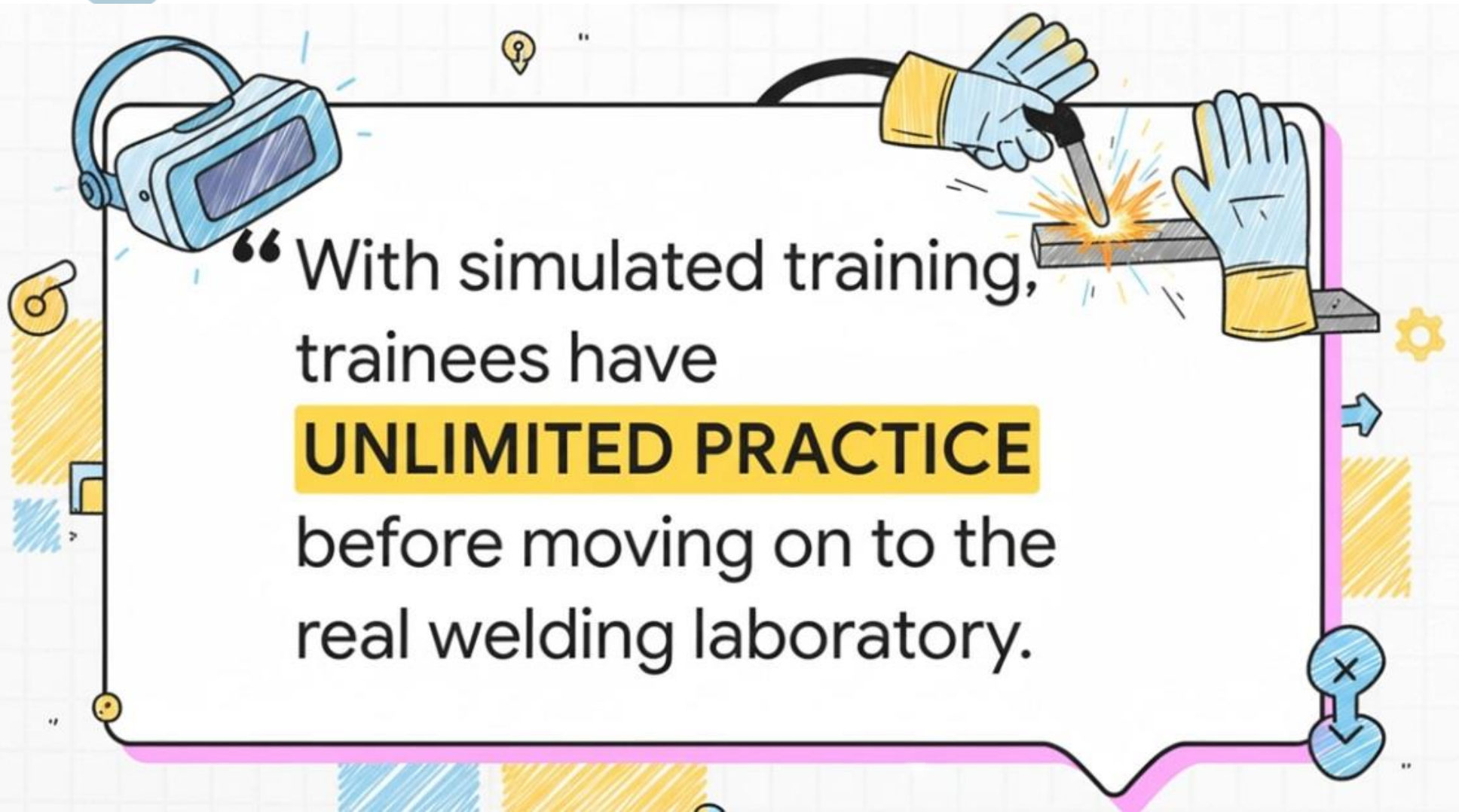




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From Concept to Global Use

Worldwide Innovation



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Training Content – DVS MEDIA



- Languages:
- ARAB (AR)
 - CHINESE (ZH)
 - ENGLISH (EN)
 - FRENCH (FR)
 - GERMAN (DE)
 - PORTUGUESE (PT)
 - ROMANIAN (RO)
 - RUSSIAN (RU)
 - SERBIAN (SR)



Training Content – AWS

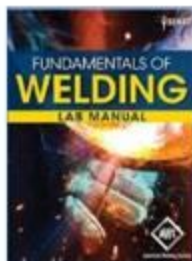


American Welding Society

Officially validated.
Practice, Coupons & New Theory Book.

Languages:

- ENGLISH (EN)
- SPANISH (ES)



Training Content – CESOL



Languages:

- ENGLISH (EN)
- SPANISH (ES)



Training Content – TWI

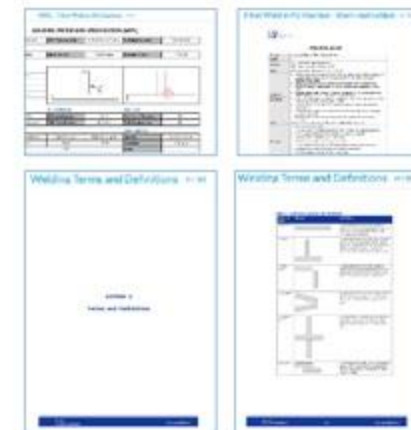


4 Courses:

- MMA Process.
- MAG Process
- MAG Process (Flux Cored)
- TIG Process

Languages:

- ENGLISH (EN)





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Global Adoption

- **Germany:** 2,000+ simulators installed
- **Australia:** 500+ devices deployed
- **Asia:** Strategic partnerships in Korea, Japan, China
- **Global Reach:** Used in over 80 countries

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06421880

Contact information



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Skillveri[®]



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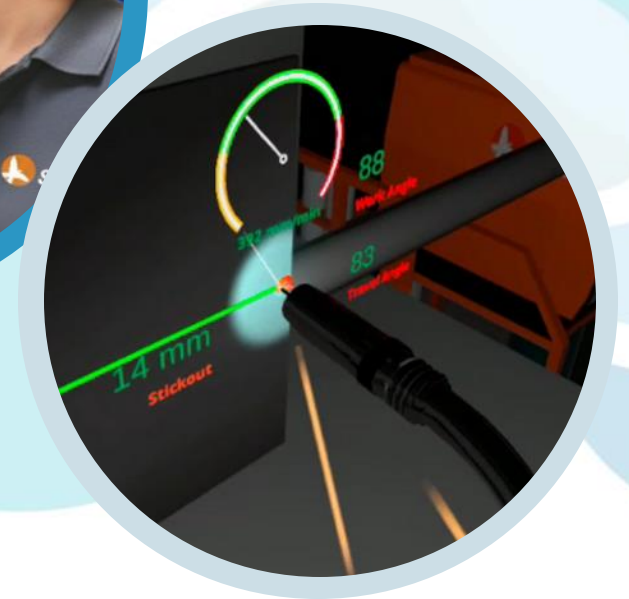
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ADB



Skillver[®]

VR & MR Simulators For TVET & Skills





Sowparnika K



Manager – Outreach & Communications

Sowparnika is a communications professional with a focus on startups and innovation.

She has been involved with Skillveri from its inception, shaping communications and customer engagement. Her understanding of how the products empower TVET and the skilling ecosystem has strengthened her work on bridging business, technology, & society.

Over the course of a decade, including time at IIT Madras, India's top startup incubator, she has crafted narratives for deeptech ventures centred around innovation & impact.



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Our journey so far

Multi-skill Simulation Platform
on **MR & XR**

700+ Installations with **250+**
Customers Worldwide

Used in **100+** Schools
across USA & Canada

World's most used Spray
Painting Simulators

India's most used Welding Simulators





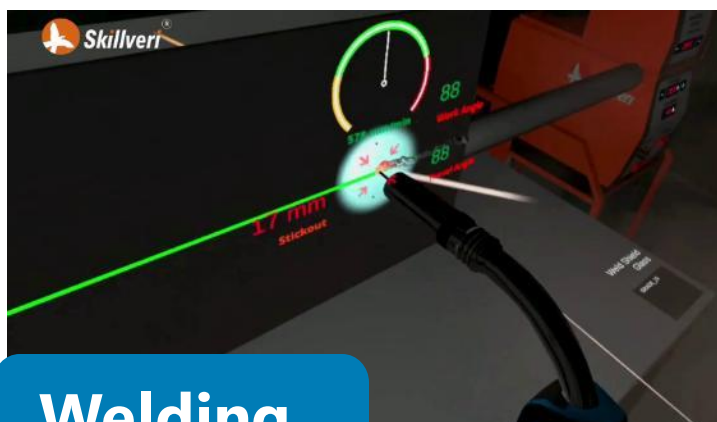
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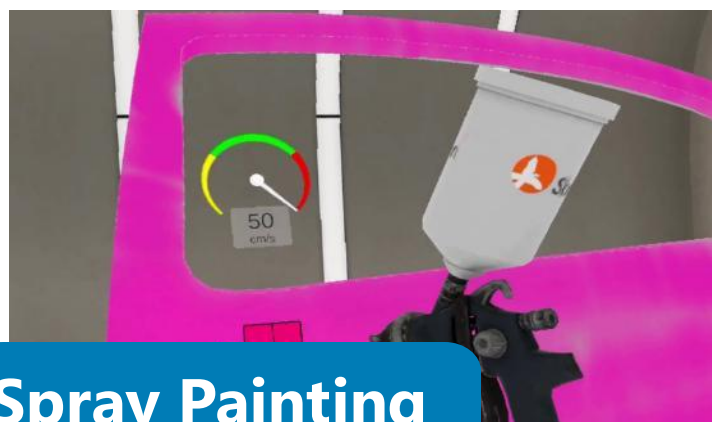
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One Platform - Multiple Skills



Welding



Spray Painting



HVAC



Solar Installation



CNC Operation



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Trusted by Global Industry Leaders



automobile, railway, heavy machinery
and other industries



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The Skillveri secret sauce

First and only simulator so far to adopt **Mixed Reality** for Skill Training
State of the art MR - Mixed Reality that blends real and virtual worlds





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Our key strengths

Unmatched realism with industry grade torches

Latest, constantly updated tech

Learning for all levels – from fundamentals to industry

Precise evaluation, actionable analytics





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Portable, Scalable, Flexible

- Easy to set up & use
- Fits in a backpack
- Take the training to the students





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Built in India, Used by the world.



USA



Kenya



Brazil

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sales@skillveri.com



www.skillveri.com



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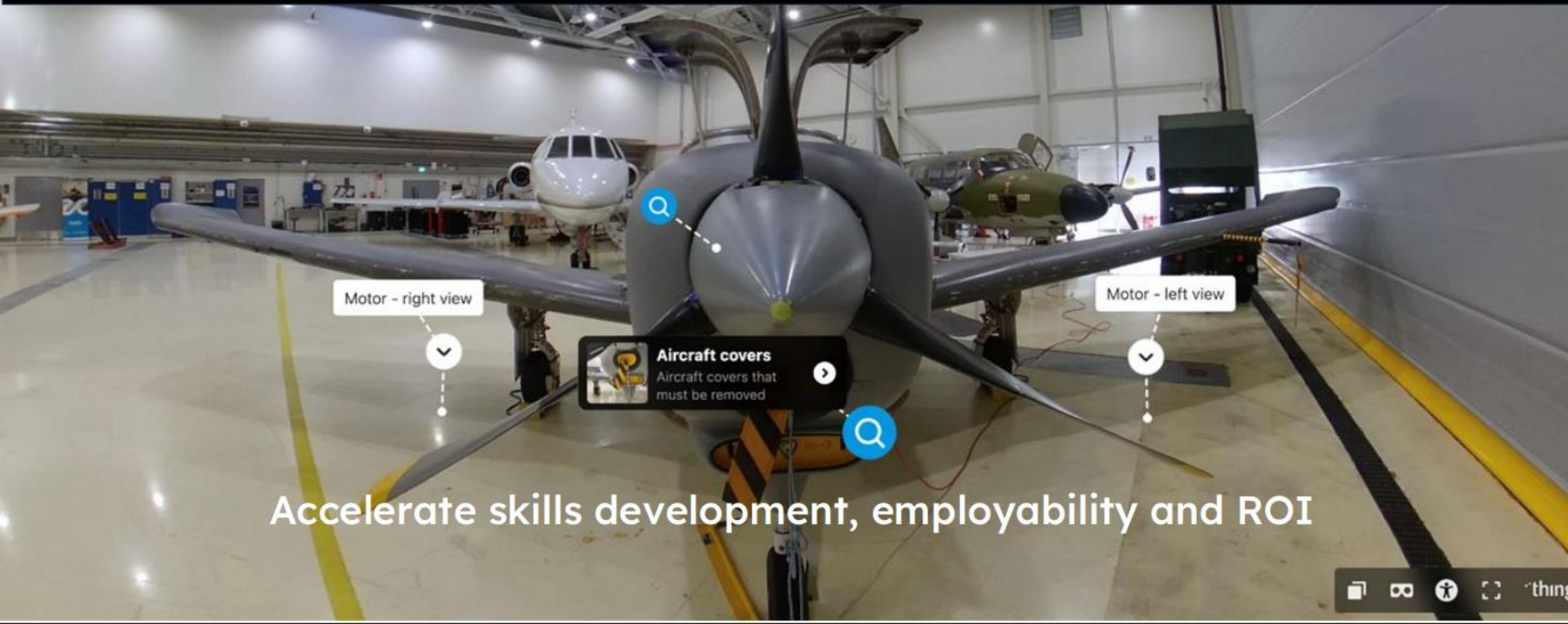
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• ✨ thinglink. ✨ •

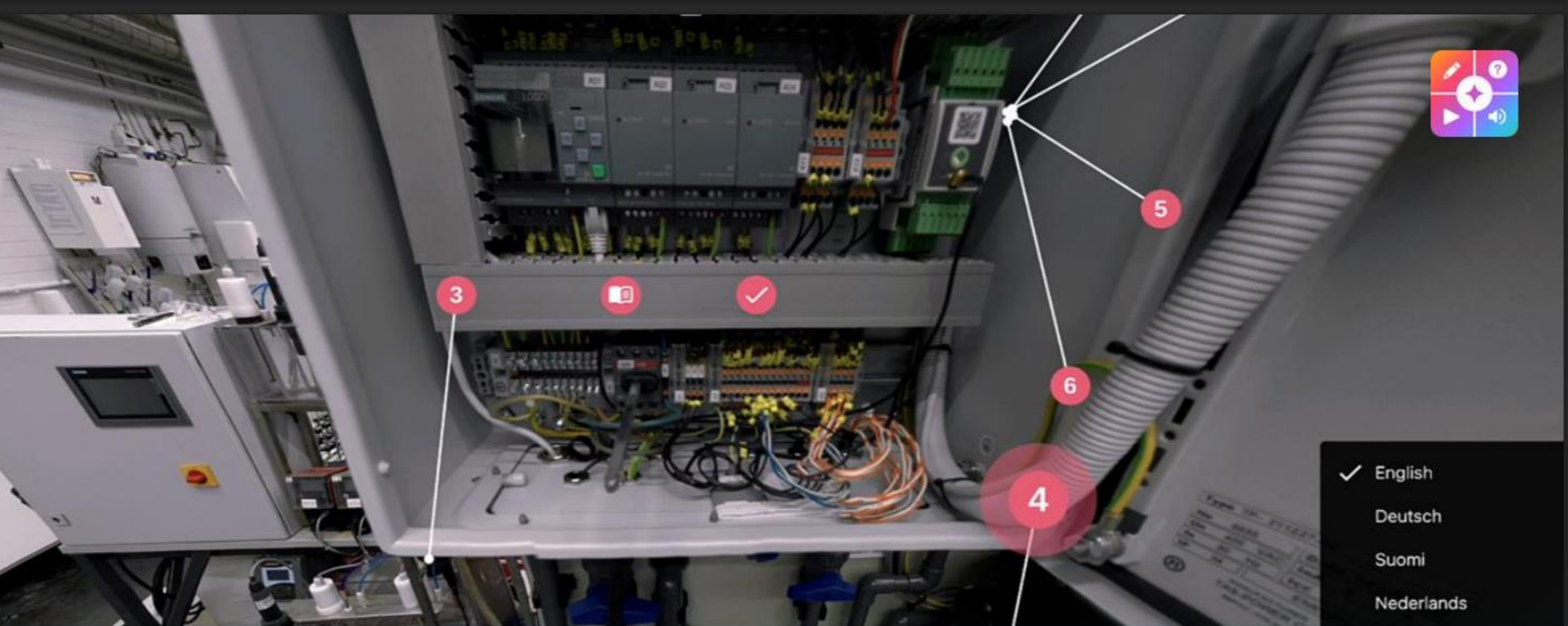
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Digital Learning for the Real World



Accelerate skills development, employability and ROI



Easily create visual learning assets in any language

VOCATIONAL EDUCATION

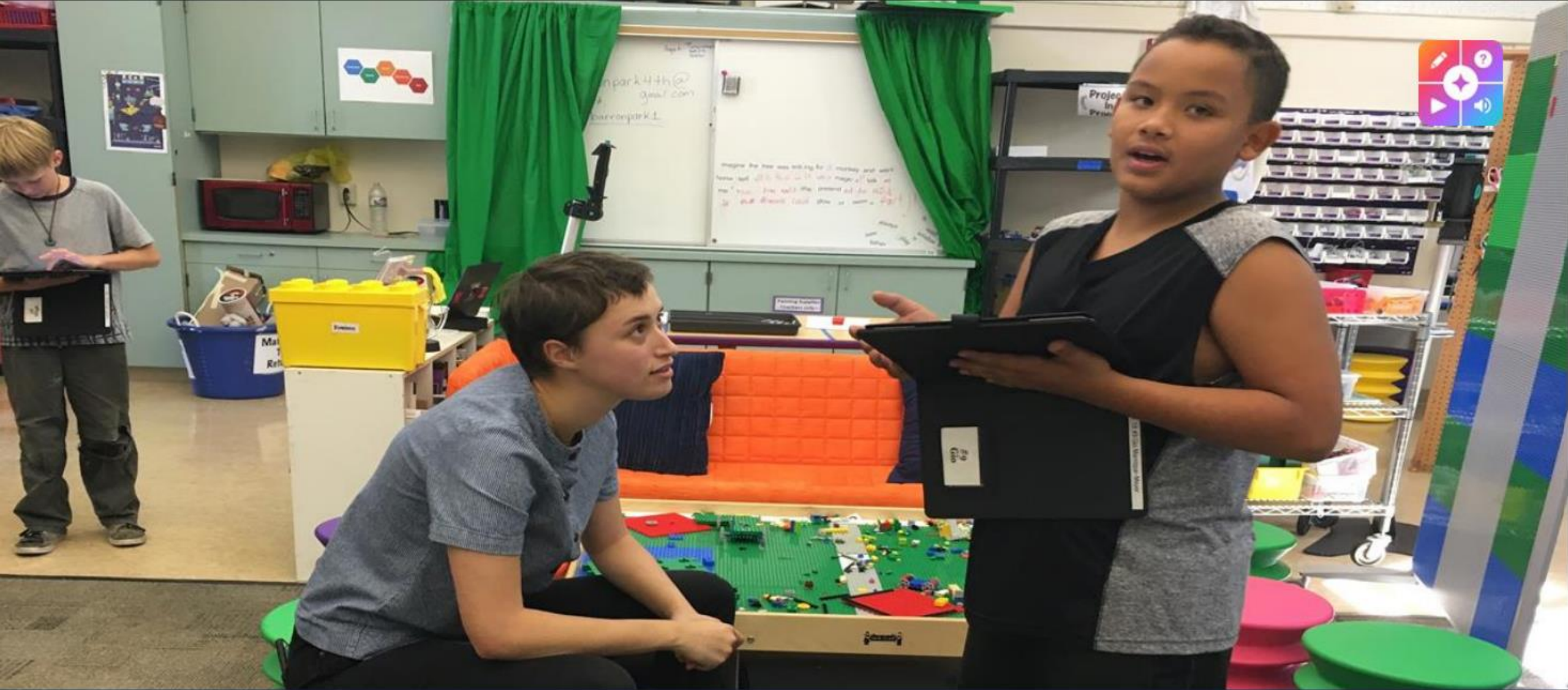
中文 (繁體)

Italiano



Help learn fast in complex technical environments

VOCATIONAL EDUCATION



Student-friendly XR creation



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The Digital Pivot: Leveraging STEM education to Transform Curricula and Cultivate Tomorrow's Innovators.



research.vex.com



Andy Lee

VEX Robotics- President (IFI HK)

Andy Lee is the President of Innovation First International (Hong Kong) Limited. Innovation First is also the parent company of VEX Robotics, an industry leading developer of STEM educational robotics and computer science solutions.

andy_lee@vexrobotics.com



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The Challenge & The Opportunity

Today's educators need tools and training to build 21st century skills, AI literacy, complex problem solving skills and foster resilience in our students.



Our Solution: The VEX K-Career Continuum



VEX 123

Coding Starts Early

Ages 4+



VEX GO

STEM Starts Early

Ages 8+



VEX AIM

Real World Coding

Ages 8+



VEX IQ

Applied STEM Learning

Ages 11+



VEX EXP

Real World STEM for Classrooms

Ages 14+



VEX V5

Real World STEM for Competition

Ages 14+



VEX CTE

Workforce Readiness

Ages 14+



VEX AIR

STEM Skills Take Flight

Ages 14+

VEX CODE VR

Virtual Robot Coding

Ages 8+



From K to Career, VEX has STEM Solutions for All Ages

Computational
Thinking

Design Thinking

Problem based
Learning
Mechatronics

Physical
computing
AI Vision Sensor

Problem Based
Learning Advanced
Mechatronics

Career and
Technical

VEX 123 VEX GO VEX IQ (2nd generation) VEX AIM VEX EXP VEX VS VEX CTE



CLASSROOM

Ages 4+



CLASSROOM

Ages 8+



CLASSROOM &
COMPETITION

Ages 11+



CLASSROOM



CLASSROOM



COMPETITION

Ages 14+



CAREER

Programming Education Pedagogy

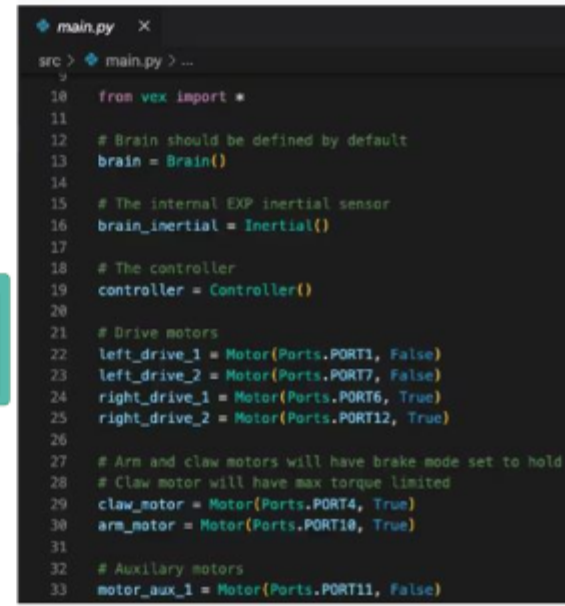
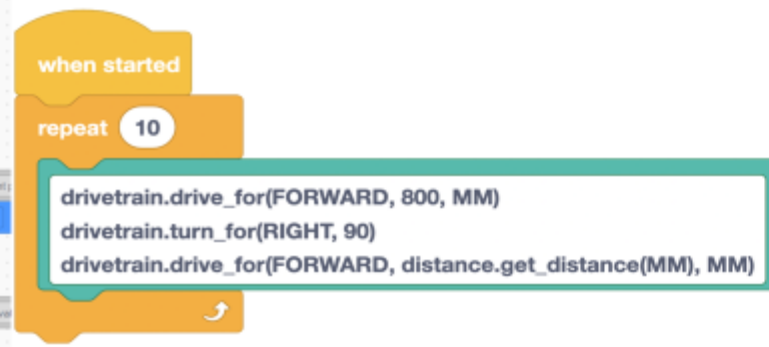
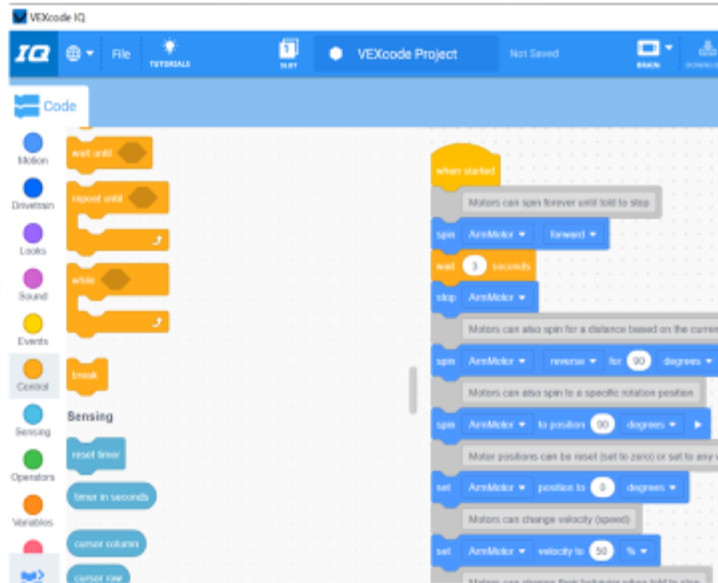
TACTILE

BLOCKS

SWITCH

TEXT

VS CODE Extension

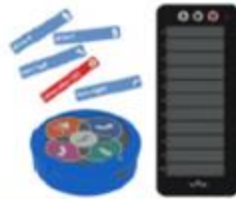


Research-based STEM Curriculum

A Thorough K-12 Educational Robotics Pedagogy



VEX 123



VEX 123 STEM Labs

VEX GO



VEX GO STEM Labs

VEX IQ



VEX IQ STEM Labs

VEX CODE



Computer Science
Courses

VEX EXP



VEX EXP STEM Labs

VEX V5



VEX V5 STEM Labs

VEX CTE
WORKCELL

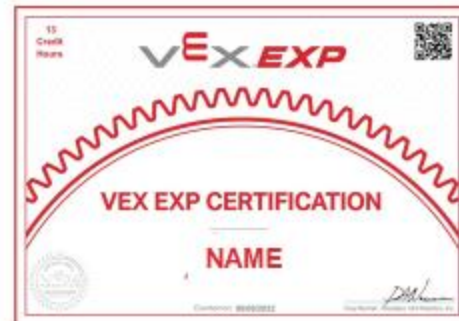
VEX CTE
Workcell



VEX – Professional Development

VEX
Continuum
- PD

Platform Specific Educator Certifications



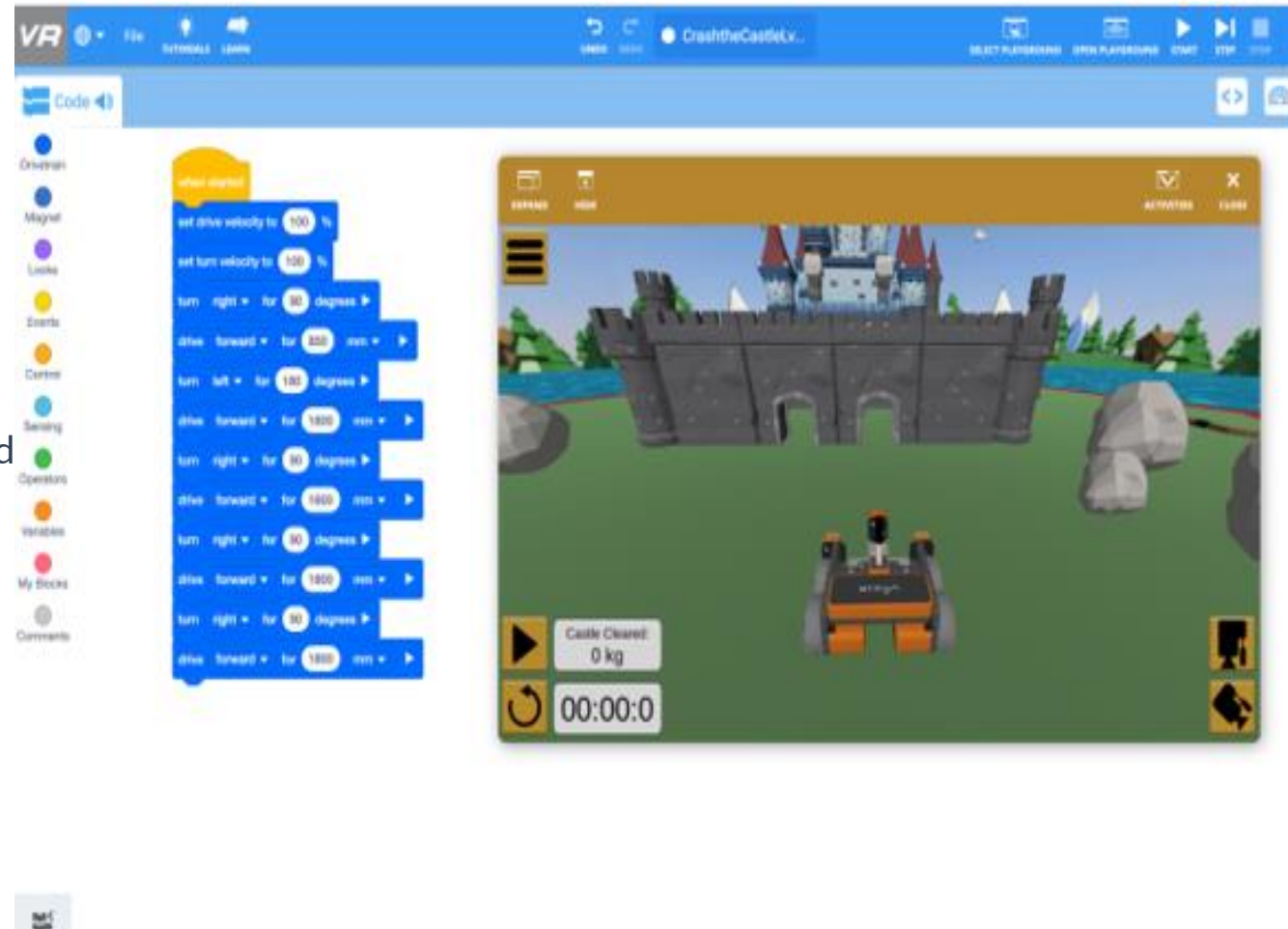
VEX also offers customized PD workshops for partners/educators!

The Gateway: VEXcode VR for K-12

Accessible, Resilient Learning

VEXcode VR is an innovative, free, browser-based Virtual Robotics platform that makes coding accessible to everyone, everywhere, on any device. It's the perfect solution for:

- ✓ **Building Resilience:** Seamlessly switch between in-class and remote learning during any crisis.
- ✓ **Equitable Access:** No hardware, download, login or software installs required, just a web browser.
- ✓ **Risk-Free Exploration:** Students master Computational Thinking (CT) fundamentals before touching a physical robot.



Scaling Skills: TVET & Higher Education



CS Fundamentals

VEXcode VR's blocks and text based programming modes allow students to understand CS fundamentals without having to master syntax. All is an easy to use dynamic, visual environment.



TVET & Automation

Vocational students can simulate and program complex automated systems, like sorting lines or robotic arms, learning industrial logic for advanced manufacturing. Preparing them for Industry..



Hardware Prototyping

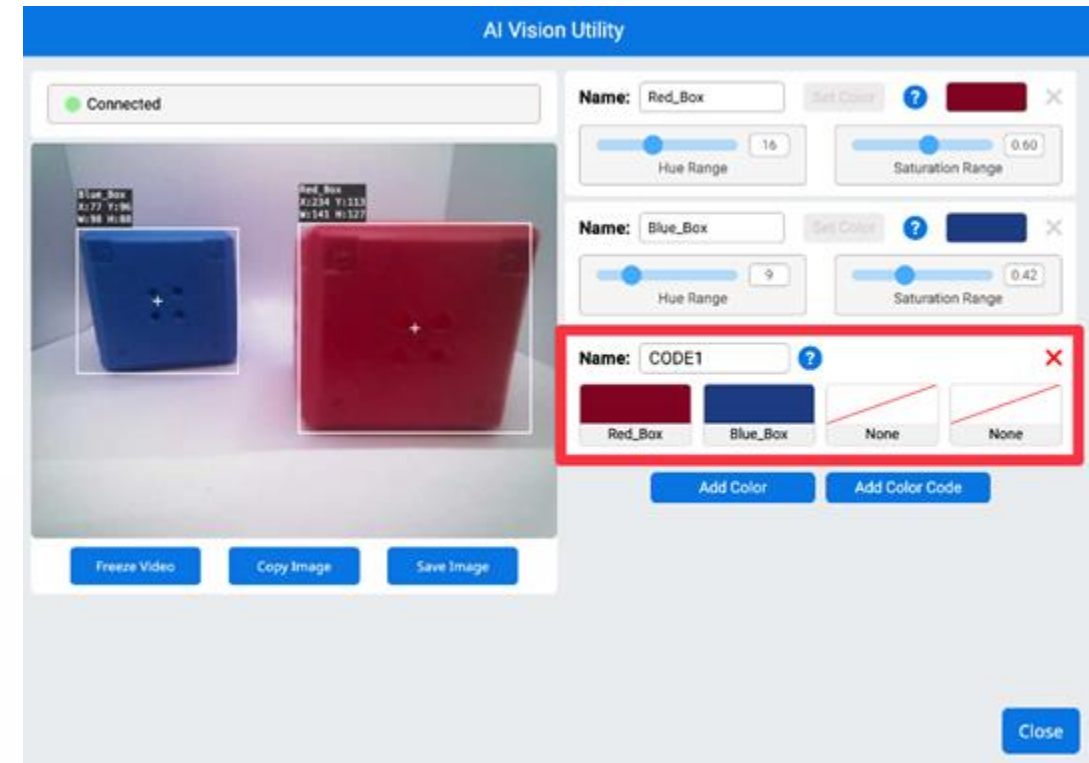
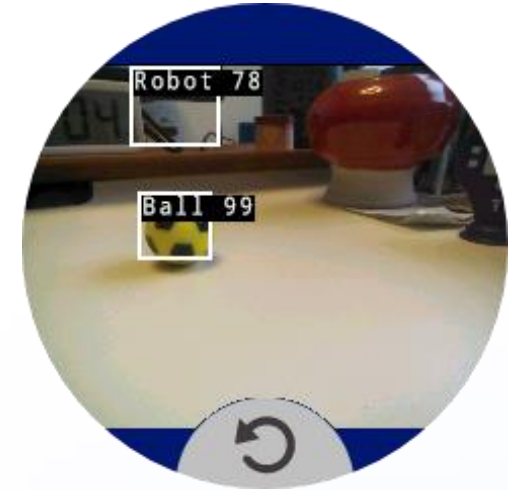
Students prototype their robotic solutions, troubleshoot and iterate, drive and code it. Testing prototypes helps students refine their build and solution.

From Virtual to Physical: Sensors & Data

Making Data Tangible with a AI Vision Sensor

Students can take their virtual skills and apply them to physical robots. This is where learning transforms.

Using a suite of powerful sensors (vision, distance, optical, rotation, GPS), students don't just write code—they collect, analyze, and act on real-world data, turning their robot into a true problem-solving tool.



Exploring AI & Machine Vision

Demystifying Artificial Intelligence

The VEX AI Vision Sensor makes advanced AI and machine learning concepts accessible to K-12 and TVET students. Instead of just reading about AI, students actively participate in

- ✓ Training the robot to recognize and track objects.
- ✓ Coding autonomous "seek and retrieve" missions.
- ✓ Explore the fundamentals of machine vision and decision-making.
- ✓ Build a direct bridge to AI-driven industrial applications.



Designed for All: UDL-Powered Curriculum



**Center for
Applied
Special
Technology**

Our VEX curriculum is built on UDL principles to ensure every student has a pathway to success, regardless of their learning style or background.

UDL is a framework to improve and optimize teaching and learning for all people based on scientific insights into how humans learn.

VEX Hotspot



Weak internet? No problem!

Access our free Virtual Robot software and free online educator and student resources OFFLINE with the VEX Hotspot.

All you need is a device (computer/ tablet) and electricity.

Access our web-based materials online or offline. We empower teachers with a wealth of free resources designed for differentiation. Our standards-aligned STEM Lab curriculum and self-paced Educator Certification PD give teachers the tools and confidence to personalize learning for every student. Access our Virtual Robot programming environment for free! Even if you don't have internet. No download, no login , no password

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INNOSPHERE SPEED DATING

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Instructions

1. All Participants have been assigned a small group (numbered from 1-17). If you have not received a number, please approach anyone from the organizing team.
2. For the speed dating part of this session, we will proceed to the ADB Main Lobby to visit the Innosphere booths and try the experiences.
3. Before exiting the venue, please look for your groupmates and proceed to the lobby together.
4. Once in the lobby, your group will choose an Innosphere booth to visit. This will be on a first-come, first-serve basis (e.g. if a group arrives at Booth 1 first, then other groups will have to choose another booth).



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Instructions

5. From 2:20 – 2:50pm, your group will visit three (3) exhibitor spaces for 7mins each (5 mins. demonstration and 2 mins. Q&A)

- Feel free to scan QR codes on each of the booths you'll be visiting to earn more points and badges!

6. The moderator will signal with a bell if time is up and it's now time to move to the next booth of your choice.

7. We will head back to the Innovation Hub for reflection, debriefing, and insights.

8. Each groups will be provided materials so you can synthesize insights and discuss how the demonstrated solutions could be adapted across educational levels and contexts.

**Since you attended
Parallel Session 1.5,
you are entitled points
for your attendance
and participation.**

Scan this QR code!

**GOAL: Attend a parallel session on
Day 1 afternoon (1.1, 1.2, 1.3, 1.4 or 1.5)**

4 points

A large black and white QR code is centered within a dark blue rounded rectangle. The rectangle also contains the goal text and point value above the QR code.