



香港教育大學
The Education University
of Hong Kong

2024/25

Annual Report on Recurrent Funding for Knowledge Transfer



KNOWLEDGE
TRANSFER
SUB-OFFICE
知識轉移辦公室

Submitted to University Grants Committee



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1. EXECUTIVE SUMMARY

Knowledge transfer (KT) remains a fundamental pillar in the strategic development of the higher education sector, with the HKSAR Government’s continued prioritisation of innovation and technology (I&T) as a driver of economic and societal advancement. Aligning with government directives, local universities have been expanding KT initiatives by establishing incubators and accelerators, deepening industry partnerships and enhancing the commercialisation of research outcomes.

Guided by the “Education Futures” vision, EdUHK is at the forefront of integrating artificial intelligence (AI) into education, equipping learners to thrive in a rapidly evolving global landscape. Throughout 2024-25, EdUHK expanded the innovation ecosystem by launching targeted initiatives and forging cross-sector collaborations that extended the University’s research and expertise well beyond campus, driving societal advancement and sustainable progress.

The Knowledge Transfer Sub-office (KT Sub-office) continued to serve as a strategic innovation enabler of EdUHK, translating academic research into practical solutions with societal and commercial relevance. The University’s global presence was affirmed through the attainment of 43 invention awards across Geneva, San Francisco, Hong Kong, etc., showcasing our excellence in fields such as AI, neuroscience, and educational technology.

Concurrently, EdUHK reinforced the intellectual property (IP) strategy with a significant growth in US and China patent filings, reflecting a proactive approach to safeguarding and commercialising research outcomes. Entrepreneurship development also flourished, with the Centre for Entrepreneurship and Research (CEAR), EASE Fund, IP Venture Scheme and INVESTED Program collectively supporting student and alumni ventures through HK\$12.4 million in funding and incubation services as well as facilitating strategic partnerships.

This report encapsulates EdUHK’s KT achievements and strategic developments in 2024-25, underscoring our role as a catalyst for innovation, entrepreneurship, and societal transformation.



2. HIGHLIGHTS OF THE YEAR

EdUHK leverages the annual Earmarked Research Grant support from the University Grants Committee (UGC) to propel our efforts in translational research and KT initiatives. Adapting to local, national and global priorities while preserving our core commitment to educational excellence, the University concentrates on I&T development in key areas like AI, bioengineering, cognitive technologies, digital learning, machine learning, environmental sustainability and sports science. To amplify the influence of our interdisciplinary research, EdUHK actively expands the I&T capabilities by forging strategic partnerships with industry players and innovation hubs, investing in cutting-edge research facilities, fostering deep collaborations with other academic institutions, and pursuing substantial grant opportunities.

2.1 DRIVING INNOVATION

2.1.1 KNOWLEDGE TRANSFER SUB-OFFICE

The KT Sub-office is instrumental in bridging gaps between academic research and real-world applications, serving as a vibrant hub that propels knowledge exchange between the University and the broader community while ensuring the insights and discoveries made at EdUHK are effectively shared and utilised beyond campus borders.

Other than the foundational pillars of “Entrepreneurship Development”, “IP Development and Quality Assurance”, and “IP Promotion and Licensing”, the recent addition of the “Technology Acceleration” function further enriches EdUHK’s capacity to leverage technology for accelerated research and venture growth, ultimately driving societal advancement and innovation.

2.1.2 FUNDING SCHEMES

Through channelling both internal and external resources strategically, the KT Sub-office has built a comprehensive funding framework that supports KT initiatives across the University and plays a key role in bridging academic discovery and practical application. Internal funding schemes are designed to turn ideas into solutions that matter, empowering EdUHK researchers to pursue translational research and develop innovative, market-ready outcomes.

2.1.2.1 KT FUND

The annual KT Fund Scheme remains steadfast in backing researchers in the development of EdUHK-owned IPs and the implementation of KT activities. HK\$100,000 funding has been allocated to each of the 8 projects covering diverse fields this year, such as gerontology, audiology, international development, etc., as detailed in **Annex II**.

Aligning with the University’s strategic emphasis on I&T, the scope of KT activities has been broadened to include collaboration with industrial stakeholders and entrepreneurial ventures, and the KT Fund will serve as a preparatory platform for future Innovation and Technology Fund (ITF) applications starting 2025-26.



2.1.2.2 FUND FOR INNOVATION, TECHNOLOGY, AND SOCIAL-WELLBEING

The HKSAR Social Innovation and Entrepreneurship Development Fund (SIE Fund) provides HK\$1.6 million funding support for four social innovation projects listed in **Annex III** under the Fund for Innovation, Technology, and Social-wellbeing (FITS) Scheme. FITS empowers EdUHK researchers to devise enduring solutions to local social challenges in alignment with the Government's targeted poverty alleviation strategy. Researchers are encouraged to engage with industry and community collaborators to co-create innovative initiatives that translate proof of concept into sustainable and practical initiatives that effectively meet societal needs and opportunities.

2.1.2.3 KNOWLEDGE TRANSFER MATCHING GRANT SCHEME

Aligned with the University's unwavering commitment to nurturing a vibrant and resilient environment for I&T advancement, the Knowledge Transfer Matching Grant Scheme (KTMGS) continues to play a pivotal role in 2024-25 by facilitating greater access to competitive funding opportunities. Two projects supported under the Scheme are listed in **Annex IV**.

2.1.2.4 INNOVATION AND TECHNOLOGY FUND (ITF)

In a significant stride toward technological advancement, there has been a continuous two-fold increase in ITF applications in the past two years, with rising sponsorship from the industry. EdUHK secured HK\$6.87 million in ITF funding for four technology funding projects in the reporting period, with additional ITF-Research Talent Hub funding of over HK\$2.6M included. Two initiatives led by Dr FU Hong delve into cutting-edge developments in AI and biotechnology, while Prof CHOW Cheuk Fai Stephen leads two additional projects aimed at enhancing food safety and EdTech innovation. The projects outlined in **Annex V** not only reflect our unwavering commitment to pioneering research across diverse domains but also invite broader engagement with industry and academic partners.

2.1.3 INTELLECTUAL PROPERTY (IP) AND COMMERCIALISATION

2.1.3.1 INNOVATION LICENSING

EdUHK continues to expand the impact of its KT efforts beyond traditional educational boundaries. To facilitate the commercialisation of the University's IPs, 6 active patent licenses were granted to diverse fields including psychology, health sciences and EdTech, with an estimated value exceeding HK\$11.6 million.

2.1.3.2 PATENTS

The KT Sub-office strengthened its support for academic staff in protecting their inventions through patent applications, leading to a significant increase in U.S. patent filings. In 2024-25, a total of 18 patents were filed and 7 patents were granted, including two U.S. patents in the areas of image processing, as well as computer graphics and virtual reality. In addition, 3 U.S. provisional patents with impactful innovation in the fields of EdTech and bioscience were filed. Cumulatively, the University has now achieved 72 filed and 28 granted patents, reflecting ongoing advancement in building a strong and diverse intellectual property portfolio. A detailed list of patents filed and granted during the reporting period is provided in **Annex VI**.



2.1.3.3 TENDERS/CONTRACT RESEARCH AND CONSULTANCIES

Fostering a culture of knowledge exchange, EdUHK encourages staff to engage in collaborative initiatives with external partners and participate in KT activities supported by external funding sources as part of their professional responsibilities, such as tenders, contract research, and consultancy. During 2024-25, the University contributed to over 150 contract and collaborative research and consultancy projects with nearly HK\$190 million in income value.

2.2 FOSTERING ENTREPRENEURSHIP

From nurturing start-up development to building connections with investors and strategic partners, the Entrepreneurship Development Unit (EDuce) under the EdUHK KT Sub-office provides comprehensive support to EdUHK innovators. EDuce plays a pivotal role in guiding entrepreneurs through the commercialisation journey, transforming research and ideas into sustainable, market-ready ventures.

2.2.1 EDUHK SEED FUNDING PROGRAMME – EDUCATION+ AND SOCIAL ENTREPRENEURS (EASE) FUND SCHEME

Supported by the HKSAR Home and Youth Affairs Bureau (HYAB) and Youth Development Fund (YDF), the EASE Fund 2024-25 aims to ignite entrepreneurial ambition among EdUHK students and alumni. Over a 36-month incubation journey, 14 teams will be trained and selected through a comprehensive and rigorous screening and pitching process. These EASE Fund teams will receive HK\$8.4 million in seed funding (cash) and HK\$4 million in in-kind support, along with comprehensive entrepreneurial incubation services to help transform their ideas into viable ventures.



2.2.2 EDUHK SEED FUNDING PROGRAMME – IP VENTURE SCHEME



Launched in 2025, the IP Venture Scheme complements the EASE Fund by promoting the translation of EdUHK's research outcomes and knowledge into real-world applications that benefit society. The Scheme fosters collaboration among government officials, EdUHK academics, and the entrepreneurial community, creating synergy and meaningful partnerships. With support from the HYAB and YDF, the winner will receive HK\$600,000 to support the commercialisation of the University's intellectual property.



2.2.3 EDUHK CENTRE FOR ENTREPRENEURSHIP AND RESEARCH (CEAR)

Located at the Hong Kong Science Park (HKSTP), CEAR supports EdUHK students and faculty by nurturing entrepreneurial talent, incubating innovation projects and accelerating inventions toward commercial success. CEAR plays a vital role in transforming innovative ideas into impactful ventures, fostering practical innovation and generating tangible benefits for society.

The CEAR Opening Ceremony, held on 21 October 2024, marked a significant milestone in EdUHK's innovation journey. Currently, CEAR is incubating 5 start-ups (detailed in **Annex VII**); each of which has gone through the zero-to-one process and established clear business development goals, ranging from strategic partnerships and go-to-market strategies to upcoming research and development plans. In addition, CEAR offers professional sharing and training workshops to equip EdUHK start-up teams and students with essential knowledge and skills for market success.

2.2.4 INNOVATION AND ENTREPRENEURSHIP STUDENT TALENT DEVELOPMENT (INVESTED) PROGRAMME

In 2024-25, the INVESTED Programme continued to empower student participants to explore their aspirations and transform innovative ideas into tangible solutions. The one-year programme attracted 141 applications from across the University. Through a comprehensive suite of hands-on workshops, internships with start-up environments, participation in local and regional entrepreneurship competitions and other experiential learning opportunities, the Programme offers students a transformative educational journey that fosters creativity, problem-solving, and entrepreneurial thinking.

2.2.5 EDUHK INCUBATED START-UP ACHIEVEMENTS IN EXTERNAL COMPETITIONS

In addition to supporting start-up development, the KT Sub-office offers advisory and training services to equip start-up teams for participation in local and international entrepreneurial competitions. This support empowers EdUHK start-ups to access further funding and business opportunities by engaging prospective investors, collaborators and customers through real-world learning experiences. Key external recognitions and achievements are outlined in **Annex VIII**.

At the Hong Kong Techathon[†] 2025, EdUHK entrepreneurial teams once again secured the Gold award in the Digital Economy category. Co-organised by the HKSTP and 10 local universities, this international entrepreneurship challenge attracted over 1,800 participants, including non-local teams from the National University of Singapore, Singapore Management University, Nanyang Technological University, the Singapore University of Technology and Design, among others.



At the Hong Kong ICT Awards 2024, EdUHK teams earned remarkable recognition, receiving a Grand Award, 2 Gold Awards, and 2 Best Use of AI Awards. The Hong Kong ICT Awards recognise outstanding achievements in information and communications technology, fostering innovation and excellence among local talents and enterprises. These accolades highlight EdUHK's commitment to developing creative, tech-driven solutions that address both business and social needs.

2.2.6 COLLABORATIONS WITH MAJOR STAKEHOLDERS IN THE INCUBATION ECOSYSTEM

Since 2024, EdUHK has collaborated with Alibaba Entrepreneurs Fund (AEF), Hong Kong Productivity Council (HKPC) and PricewaterhouseCoopers (PwC) on various initiatives to foster a thriving start-up culture within the University.

In collaboration with AEF, the EdUHK start-up community participated in Venture Hour, a pitching session that offered start-up teams the opportunity to present their innovative projects and solutions to experienced investors. AEF provided valuable insights and strategic support during the event and has since become the business advisor to Innovative Music Zentre Ltd. (an EdUHK-initiated startup), demonstrating the lasting impact of such engagements.

In partnership with the SME ReachOut Team from HKPC, consultants provided the EdUHK start-up community with an overview of various government funding schemes and conducted 1-on-1 consultation sessions to support effective resource planning and allocation.

In collaboration with PwC, professional consultants have worked closely with the EdUHK start-up teams to accelerate their go-to-market strategies. PwC continues to support these teams by providing tailored business consultations and assisting in the development of strategic plans for company growth and sustainability.

Other collaborations include:

- Cyberport Greater Bay Area Young Entrepreneurship Programme (GBA YEP) 2024-25
- Cyberport Blockchain Security Summit 2025
- HKSTP Hong Kong Techathon+ 2025
- HKSTP City I&T Challenge
- Hang Seng X HKSTP X Wofoo Future Ecopreneur Programme
- Jockey Club Smart Teens Actions ASCEND Tech for Good Scheme
- Alibaba Entrepreneurs Fund JUMPSTARTER 2025
- WTIA The Asia Smart Innovation Awards 2025
- HKTDC Start-up Express 2025
- HKFYG Rosewood Foundation Entrepreneurship Award 2025
- HKFYG Global Youth Entrepreneurs Forum 2024



2.3 MAKING DIFFERENCES

2.3.1 CREATING IMPACT ON INDUSTRY & SOCIETY

Through interdisciplinary collaboration and outreach, the University continues to influence industry practices and contribute to societal development across various fields. This section showcases how strategic initiatives and partnerships have driven progress in innovation, education, and community well-being.

2.3.1.1 INAUGURATION OF UNIVERSITY RESEARCH FACILITIES

On 27 August 2024, EdUHK senior management and scholars from Hong Kong, Shenzhen, and Beijing gathered to witness the inauguration of the University Research Facility of Data Science and Artificial Intelligence (UDSAI) and the University Research Facility of Human Behavioural Neuroscience (UHBN). These two University Research Facilities (URF) are dedicated to advancing interdisciplinary research across diverse fields such as AI, early childhood education, linguistics, and neuroscience. UDSAI is equipped with high-performance computing infrastructure to support data-intensive research, while UHBN focuses on learning, memory, perception and emotional wellbeing, offering multimodal platforms for exploring neural and behavioural processes. To date, over 70 researchers have utilised the URFs, which are expected to catalyse high-impact, cross-disciplinary innovation and reinforce the University's leadership in education and research.



2.3.1.2 SPORTS ASSOCIATION FOR OLDER ADULTS IN HONG KONG, CHINA

Demonstrating a strong commitment to promoting “Active Ageing” in Hong Kong, the Sports Association for Older Adults in Hong Kong, China (SAOAHK) was officially launched on 27 July 2024. The Association advocates for physical and sports activities among older adults, aiming to enhance their well-being and overall quality of life. SAOAHK serves as a platform to connect sports professionals with older sports enthusiasts, facilitating the organisation of sports events and the delivery of sports-related services tailored to older adults. It also focuses on training senior talent and promoting research and knowledge exchange on physical activity and ageing, both within Hong Kong and in collaboration with regional and international partners.

With strong research backing, including a HK\$7.4 million grant from the RGC-Research Impact Fund, SAOAHK co-organised the Grand Finals of the Light Volleyball Competition for Older Adults on 26-27 July 2024. This initiative forms part of a larger project that includes a large-scale intervention study on older adults' participation in light volleyball, aimed at enhancing physical activity and well-being



among the ageing population. In addition to the competition, the project delivers a wide range of training programmes, experiential classes, and promotional matches across Hong Kong, Shenzhen and Nanchang, reaching over 4,300 beneficiaries to date.



2.3.1.3 CHINESE MARTIAL ARTS AND CULTURE CONFERENCE



To highlight the importance of preserving traditional Chinese culture and the role of martial arts in holistic education, EdUHK hosted the Chinese Martial Arts and Culture Conference from 29 to 30 April 2025. The conference featured martial arts performances, keynote speeches, panel discussions, research paper presentations and interactive workshops. It provides a dynamic cross-cultural platform for martial arts practitioners, educators and enthusiasts to examine how martial arts intersect with technology (e.g. motion capture, VR/AR training tools), film (e.g. cinematic representation) and education (e.g. curriculum development for schools).

2.3.1.4 NATIONAL SECURITY EDUCATION

To strengthen the public awareness of national security, EdUHK collaborated with the Eastern, Yau Tsim Mong, and Tai Po District Offices to organise a series of impactful competitions, seminars and recognition ceremonies in mid-April 2025. The activities aimed to engage youth through innovative formats that raise awareness of national security issues and foster a stronger sense of civic responsibility.

A notable highlight was the exhibition hosted by the KT Sub-office at the “2025 Tai Po District National Security Education Day Competition – Award Ceremony” on 14 April 2025. The exhibition showcased EdUHK’s award-winning projects from international competitions and drew over 500 teachers and students.





In addition, the National Security Legal Education Research Centre (NSLERC) and the Regional Crime Prevention Office of New Territories North (RCPO NTN) of the Hong Kong Police Force jointly organised a training seminar for national security education instructors for 200 participants (19 June 2025). To deepen the public's understanding of the constitutional order of the Hong Kong SAR and national security legislation, the seminar invited several legal and law enforcement experts to explore the relationship between the constitutional framework of the HKSAR and national security legislation, the specific provisions and implementation of the National Security Law, and the practice and promotion of national security education from multiple perspectives.

2.3.1.5 SDG LIVING LABORATORY @ TAI-PO

As part of the “SDG Living Laboratory @ Tai Po – Community Well-being” initiative, EdUHK hosted the **One-Day Student Experiential Programme 2025** on 29 March 2025. The event was officiated by distinguished guests from the HKSAR Government and welcomed elderly participants to experience university life firsthand. Activities included campus tours, seminars, and interactive workshops on sustainability, health, and STEM. The event concluded with a heartfelt graduation ceremony where elderly participants donned academic robes to celebrate their commitment to lifelong learning. Positioned as an annual event, future editions will introduce new elements, such as hearing health assessments and nutritional guidance, to further promote participants’ holistic well-being.



Launched in May 2024, the “SDG Living Laboratory @ Tai-po – Community Well-being” programme has served over 3,000 elderly residents in the Tai Po district through cognitive screening, health promotion workshops and light volleyball sessions. The initiative promotes healthy ageing while contributing to the advancement of the United Nations Sustainable Development Goals (SDGs). As a signature community project, it has fostered long-term partnerships with 12 district councillors, 9 Care Teams, and 5 community organisations, deepening its social impact by extending learning, wellness, and support services across the district.



2.3.1.6 EDUHK ON AI DEVELOPMENT

Through interdisciplinary collaboration, EdUHK is committed to advancing the transformative potential of AI in education and beyond with a strong emphasis on ethical and responsible use. By integrating cutting-edge AI methodologies into academic programmes and research initiatives, the University is nurturing a next generation of leaders equipped to harness AI for societal benefit. These efforts drive innovative research and real-world applications that align with global technological trends.

The Symposium on Data Science and Artificial Intelligence for Good 2025

On 19 March 2025, EdUHK hosted the Symposium on Data Science and Artificial Intelligence for Good 2025, bringing together experts, educators, and industry leaders to explore the intersection of AI, data science, and social impact. The event showcased the latest research findings and real-world applications, fostering meaningful dialogue on how emerging technologies can positively transform education, healthcare, sustainability, and more. A key milestone of the symposium was the soft launch of EdUHK's first High-Performance Computing (HPC) facility. This new infrastructure empowers faculty members, researchers, and students to conduct advanced, data-intensive studies across a wide range of disciplines, further strengthening the University's capacity for interdisciplinary innovation.



MoU Signing with Hong Kong Education City



In alignment with the 2024 Policy Address, EdUHK and Hong Kong Education City (EdCity) signed a Memorandum of Understanding to collaboratively advance AI and computational thinking, driving the digital transformation of education in Hong Kong. This strategic partnership aims to co-develop innovative teaching resources, professional development programmes, and community initiatives that empower educators and students to thrive in an increasingly digital world. By combining EdUHK's academic expertise with EdCity's technological platform, the partnership seeks to foster a culture of creativity, critical thinking, and problem-solving. It also aims to prepare undergraduate students for the evolving demands of an AI-driven society, while contributing to a more inclusive and future-ready educational ecosystem.



2.3.1.7 THIRD FORUM ON LEARNING INNOVATIONS AND EMERGING TECHNOLOGIES

In collaboration with Peking University and the UNESCO Institute for Information Technologies in Education (IITE), the EdUHK Global Institute for Emerging Technologies (GIET) co-hosted the Third Forum on Learning Innovations and Emerging Technologies on 18 February 2025. Supported by Tencent Holdings Ltd., the event, titled **Education Digital Intelligence Forum: Promoting Equitable Educational Development through Digital Intelligent Transformation**, brought together approximately 200 academic researchers, practitioners, and policymakers from Hong Kong, mainland China, South Korea, Singapore, and beyond. The forum featured distinguished speakers and dynamic panel discussions, highlighting the critical role of emerging technologies in promoting global education equity. Participants called for stronger cross-sector collaboration and strategic integration of digital tools to address persistent challenges related to infrastructure, access, and inclusion in education systems worldwide.



2.3.2 TRAINING PROFESSIONALS

EdUHK remains committed to advancing professional excellence by equipping educators and practitioners with research-informed, cutting-edge practices. Through dynamic collaborations and targeted training programmes, the University fosters a culture of lifelong learning and innovation, empowering professionals to confidently navigate and address the evolving needs of the education sector.

2.3.2.1 CONTINUING PROFESSIONAL DEVELOPMENT (CPD) COURSES

EdUHK actively promotes continuing professional development courses across the early childhood, primary, secondary, technical, and special education sectors through strategic collaborations with external partners. These partnerships support the delivery of a diverse range of self-funded courses and training programs that integrate innovative teaching pedagogies and the latest research



findings. By fostering strong connections and networks between EdUHK and schools, these CPD initiatives drive educational innovation and play a vital role in developing highly competent and effective educators.

2.3.3 STUDENT ENGAGEMENT

2.3.3.1 STUDENT INTERNSHIPS AND PLACEMENTS

The Student Affairs Office (SAO) offers future-facing career service programmes and platforms designed to unleash students' potential in career planning and provide comprehensive support to equip them with the most in-demand skills. These services support students in developing the skills and insights necessary for success in an evolving job market. Through partnership with local and international industry leaders and organisations, SAO Career Development Services also offers exclusive internship opportunities that allow students to gain diverse cultural and professional experiences.

2.3.3.2 ENTREPRENEURIAL EDUCATION AND SOCIAL INNOVATION CULTURE

This year, the Centre for Entrepreneurship and Innovation Education (CEIE), under the Academy for Applied Policy Studies and Education Futures, implemented strategic and organisational enhancements to transform innovative ideas into practical solutions that generate meaningful social impact.

2025 Student Fair – EdUHK Lunar New Year Fair

Co-organised by CEIE and the EdUHK Library, a two-day Fair was held from 25 to 26 January 2025, featuring 50 stalls operated by EdUHK students, alumni, as well as students and teachers of 14 primary, secondary, and special schools. The Fair aimed to integrate classroom learning with hands-on practice, nurturing participants' entrepreneurial and innovative mindset. A special emphasis was placed on cultivating corporate social responsibility. All stalls were required to align with the United Nations Sustainable Development Goals (SDGs), encouraging participants to consider how their initiatives could generate positive social impact while pursuing profitability. In addition to the market stalls, a live music area was also set up, offering a performance platform for students from 21 schools across various educational levels to showcase their artistic talents.



EdUHK SDGs Challenge 2025



To inspire students to develop innovative solutions aligned with the United Nations SDGs— specifically SDG 3 (Good Health and Well-being) and SDG 4 (Quality Education)—the EdUHK SDGs Challenge 2025 was held from 4 to 5 May 2025, organised by the Centre for Entrepreneurship and Innovation Education (CEIE). 8 student teams tackled pressing global issues through creative thinking and collaboration, presenting their

solutions to a distinguished judging panel comprising EdUHK academic staff and corporate representatives. The Challenge aimed to foster creativity, teamwork, and social innovation while raising awareness of global sustainability challenges and empowering students to become change-makers in their communities and beyond.

2.4 EMPOWERING KT MARKETING

2.4.1 LOCAL TRADE SHOWS

Throughout the reporting year, the KT Sub-office actively showcased the University’s pioneering knowledge transfer and entrepreneurial achievements at several major local trade exhibitions, bridging academic innovation with societal impact. These platforms significantly enhanced the visibility of EdUHK’s innovative solutions and facilitated strategic partnerships with industry leaders, investors, and fellow innovators, reinforcing the University’s role as a catalyst for knowledge exchange and entrepreneurship in Hong Kong and beyond.

From 11-13 December 2024, KTSO participated in the Learning & Teaching Expo (LTE) 2024, showcasing 6 cutting-edge education solutions and 7 start-ups. These innovations spanned areas such as AI and immersive education (music and language), integrated and STEAM learning facilities for early childhood education, and tools promoting well-being and mental development.

EdUHK’s continued presence at LTE has attracted over 16,500 attendees in previous years. In 2024 alone, KTSO engaged in exploratory discussions with 35 potential business collaborators, further strengthening the University’s industry ties. Other notable exhibitions during the year included NovaX Global Investmatch Carnival 2024, HKTDC Entrepreneur Day 2024, JUMPSTARTER 2025, InnoEx 2025, and HKTDC Hong Kong Electronics Fair (Spring Edition), demonstrating EdUHK’s active role in promoting innovation and entrepreneurship on both local and global stages.



2.4.2 INNOCARNIVAL 2024



EdUHK continues its active participation in the annual HKSAR ITC InnoTech Month flagship event, InnoCarnival 2024, held from 26 October to 3 November 2024. Under the theme “Innovative Learning through Technology: Cultivating Well-being and Creativity”, the KT Sub-office curated an engaging exhibition that showcased the University’s multidisciplinary strengths in EdTech, inclusive sports, healthcare, and heritage preservation.

Through interactive displays, the exhibition demonstrated how EdUHK’s technologies can seamlessly enhance everyday learning experiences while promoting community well-being, highlighting the University’s commitment to impactful, tech-enabled knowledge transfer.

2.4.3 MINI-EXHIBITIONS & DELEGATIONS

Throughout the reporting year, the University welcomed multiple delegations and hosted a diverse array of mini-exhibitions, presenting curated showcases of EdUHK’s research, innovation and KT achievements. These occasions served as valuable opportunities to foster dialogue, strengthen institutional partnerships and build collaborative momentum with external academic institutions, community stakeholders, and government representatives. Key engagements included:

- i. Visit of Prof SUN Dong, JP, Secretary for Innovation, Technology and Industry (10 July 2024)
 - ii. Shanghai-Hong Kong University Alliance Annual Meeting (17 October 2024)
 - iii. 2025 Tai Po District National Security Education Day (14 April 2025)
 - iv. Research Grants Council Visit (12 June 2025)
 - v. House of Innovation at the President’s Lodge (26-27 June 2025)
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2.4.4 INDUSTRY COLLABORATIONS

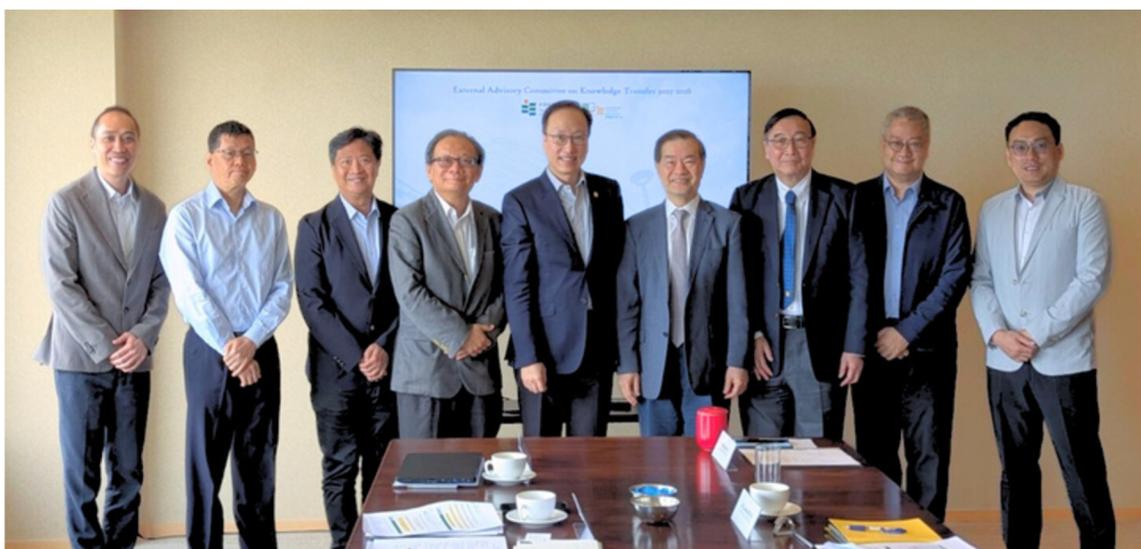
The KT Sub-office continues to strengthen ties with industry stakeholders through strategic engagements and targeted outreach initiatives. By organising pitching activities and thematic professional KT talks, the University actively showcases its research strengths and explores new avenues for collaboration. These efforts enhanced the visibility of EdUHK’s innovations and laid the foundation for future knowledge exchange and investment opportunities.

Under the RAISe+, CEAR and EASE Fund schemes, EdUHK innovations were presented to 3 Hong Kong-based venture capital firms, resulting in a forthcoming HK\$10 million cash sponsorship across two applications. Meanwhile, the newly initiated KT Professional Talk Series has fostered a culture of translational research, attracting over 600 participants across eight sessions. Looking ahead, the series will be expanded to include national and international speakers, as well as additional technology funding schemes, further strengthening EdUHK’s innovation ecosystem and fostering impactful industry-academic collaboration.



2.4.5 EXTERNAL ADVISORY COMMITTEE ON KNOWLEDGE TRANSFER

The formal establishment of the External Advisory Committee on Knowledge Transfer during the reporting year marks a strategic milestone in EdUHK's continued commitment to innovation and societal impact. Serving as a vital bridge between academia and industry, the Committee brings together senior executives with expertise in applied research, technology commercialisation and venture capital to offer strategic insights into emerging market trends and collaborative prospects. By fostering a dynamic platform for dialogue and networking, the Committee enables EdUHK to align its KT strategies with real-world industry needs. These endeavours have significantly bolstered the University's translational capabilities and expanded its influence across industry and community sectors, reinforcing EdUHK's position as a proactive partner in the Hong Kong innovation ecosystem.



2.4.6 ADVISORY GROUP ON ENTREPRENEURSHIP AND INDUSTRY ENGAGEMENT

The establishment of the Advisory Group on Entrepreneurship and Industry Engagement represents another strategic advancement in 2024-25, further strengthening EdUHK's ties between academia and industry. Comprising experts and leaders from a range of sectors, this newly formed advisory body has played a pivotal role in shaping the University's strategy on innovation, entrepreneurship, and industry collaboration. The Group's foundational work during the year has laid the groundwork for impactful future initiatives, including the development of industry-aligned curriculum frameworks, the identification of strategic partnership opportunities, and the creation of pathways for student engagement through internships, research collaborations, and entrepreneurial initiatives.



2.5 INTERNATIONAL INVENTION AWARDS AND ACHIEVEMENTS

The KT Sub-office actively participated in multiple international competitions and exhibitions throughout the reporting year, presenting 18 projects and garnering 43 international invention awards within the professional community. While EdUHK has long been recognised for innovations in its strengths in EdTech, this year’s awards also underscore the University’s significant advancements in areas such as AI, bio- and neuro-medical sciences, food safety, gaming, and healthcare. These achievements reflect EdUHK’s expanding capacity in interdisciplinary research and rising prominence on the global innovation stage.

2.5.1 INTERNATIONAL EXHIBITION OF INVENTIONS GENEVA (IEIG)

The IEIG, held from 9 to 13 April 2025, remains as one of the world’s premier platforms for showcasing pioneering innovations, attracting nearly 1,050 submissions from over 40 countries and regions. EdUHK presented seven projects across diverse fields, including AI, biomaterials, neuroscience, sports, and EdTech, and earned a total of 9 prestigious awards listed in **Annex IX**.



Among the standout achievements, Dr YEUNG Kin Chung Michael received a Gold Medal with Congratulations from the Jury and an International Special Merit Award for his invention “A Hybrid EEG-fNIRS Neurofeedback Application for Brain Training for Autistic Children”. Another award-winning innovation from the University Research Facility in Human Behavioural Neuroscience (UHBN) was the “Novel Biomaterials Used for Dendritic Cell Vaccine for Cancer Immunotherapy”, by Prof YUNG Kin Lam Ken, which also received a Gold Medal and an International Special Merit Award, further showcasing EdUHK’s growing impact in translational and interdisciplinary research.

2.5.2 SILICON VALLEY INTERNATIONAL INVENTION FESTIVAL (SVIIF)



EdUHK’s innovations shone at the SVIIF 2024 held from 26 to 28 July in San Francisco, securing a total of 7 prestigious awards. The accolades included 1 on-stage Special Award, 3 Gold Medals and 3 Silver Medals, underscoring the University’s growing international presence in innovation and applied research. A highlight of the Festival was the “Social Robot” invented by Prof YEUNG Siu Sze Susanna, which received the only special on-stage recognition awarded to a Hong Kong entry, marking a significant milestone in the field of robotic innovation for EdUHK and the region.



2.5.3 4TH ASIA EXHIBITION OF INNOVATIONS AND INVENTIONS HONG KONG (AEII)

As an extension of the IEIG, the AEII serves as a platform to foster international cooperation and showcase Asia's inventive spirit. Its 4th edition, held from 5 to 6 December 2024, featured 141 pioneering inventions and more than 11,800 attendees. EdUHK achieved notable success at the event, with Prof WU Shiu Sun Rudolf receiving a Gold Medal for his invention "Artificial Mussel: A Novel Device for Monitoring Heavy Metals and Radionuclides in Global Aquatic Environments," and Dr KAM Chi Shan Anna awarded a Gold Medal for her "Automatic Screening System for Mild Cognitive Impairment and Dementia with Auditory Tasks." These accolades further reflect the University's impact in environmental monitoring and health innovation on the international stage.



3. PERFORMANCE MEASUREMENT AND PERFORMANCE INDICATORS

To ensure the effectiveness and transparency of EdUHK's KT initiatives, performance indicators have been systematically implemented across faculties, research centres, and academic support units. These entities report annually on KT activities, providing data aligned with their respective strategic priorities.

In 2024-25, EdUHK expanded the performance indicator framework to reflect the increasing emphasis on innovation, entrepreneurship, and societal impact. Notable metrics include the number of KT activity participants, beneficiaries and collaboration partners, income from technology development funding, industry sponsorship and licensing, as well as the number of invention awards, etc. These indicators underscore the University's commitment to translating research into real-world applications and fostering a vibrant, impact-driven innovation ecosystem.



4. LOOKING AHEAD

With growing global recognition in innovation, EdUHK is charting a bold path forward under its visionary “Education Futures” agenda, aimed at nurturing future-ready talents, advancing impactful research, deepening stakeholder engagement, and expanding contributions at the local, regional and international levels.

In alignment with China’s Education Powerhouse Development Plan (2024-2035), EdUHK is committed to cultivating high-calibre, innovative talents and supporting the nation’s strategic scientific and technological advancement. The University’s KT endeavours will continue to be strategically guided to maximise synergies across the broader innovation ecosystem, ensuring EdUHK-led start-ups and spin-offs are well-positioned to secure development funding and sustain long-term viability. Strategic collaborations will be further strengthened with academic institutions and innovation hubs across Hong Kong, the Greater Bay Area, and beyond.

EdUHK also aspires to elevate its impact through interdisciplinary innovation, cultural exchange, and sustainable development. This is exemplified by the growth of entrepreneurial endeavours and major institutional developments, such as the inauguration of new research facilities and centres. Driven by a vibrant spirit of innovation and guided by a clear strategic blueprint, EdUHK will continue to push boundaries and contribute meaningfully to the advancement of education and society.



ANNEXES





ANNEXES

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Annex I

Impact Case History (i)

Project Title

Reducing Loneliness Among Older Adults

Principal Investigator / Project Leader

Prof CHOU Kee Lee

Project Summary

Loneliness among older adults in Hong Kong is a growing public health concern, exacerbated by social distancing measures during the COVID-19 pandemic. Approximately 45% of Hong Kong Chinese older adults report feeling lonely either sometimes or always. This isolation contributes to a range of negative outcomes, including poor psychological, physical, and cognitive health.

This project aimed to reduce loneliness through a community-based intervention that mobilised retirees and young people as trained volunteers. These volunteers delivered telephone-based behavioural activation and mindfulness interventions to older adults living in elderly households. The initiative not only addressed the emotional well-being of older adults but also built social capital by empowering volunteers and service providers.

Underpinning Research

The project was grounded in the Biopsychosocial (BPS) Pathways model of loneliness, which links psychological, social, and biological factors to health outcomes. A three-arm randomised controlled trial (RCT) was conducted to evaluate the effectiveness of two psychosocial interventions:

- A layperson-delivered, empathy-focused telephone programme.
- A wisdom-enhancing narrative therapy intervention.

These were compared against a standard telephone befriending intervention. The study involved 282 community-dwelling older adults who reported feelings of loneliness. Data collection occurred at baseline, four weeks, six months, and 12 months post-intervention.

The research also explored mediating factors such as wisdom and empathy received, and moderating factors including gender, age, financial status, self-rated health, and baseline assessments. These insights were used to refine the intervention and contribute to the theoretical development of the BPS model.

References to the Research

Chou, K. L. (2020-2021 One-off Collaborative Research Fund Covid-19 and Novel Infectious Diseases Research Exercise Project). Protecting older people from loneliness during the coronavirus (Covid-19) and other novel infectious disease pandemic.

Jiang, D., Tang, V. F. Y., Kahlon, M., Chow, E. O. W., Yeung, D. Y. L., Aubrey, R., & Chou, K. L. (2025). Effects of Wisdom-Enhancement Narrative-Therapy and Empathy-Focused interventions on loneliness over 4 weeks among older adults: A Randomized Controlled Trial. *The American Journal of Geriatric Psychiatry*, 33(1), 18-30.



Annex I

Impact Case History (i)

References to the Research (cont'd)

Kwok, J. Y. Y., Jiang, D., Yeung, D. Y. L., Choi, N. G., Ho, R. T. H., Warner, L. M., & Chou, K. L. (2024). Layperson-delivered telephone-based behavioral activation among low-income older adults during the COVID-19 pandemic: the HEAL-HOA randomized clinical trial. *JAMA Network Open*, 7(6), e2416767-e2416767.

Tang, V. F. Y., Jiang, D., Kwok, J. Y. Y., Qian, M., Yeung, D. Y. L., Chow, E. O. W., Choi, N. G., & Chou, K. L. (2024). Study protocol of a sequential, multiple assignment, randomised trial using an adaptive intervention to reduce loneliness among Chinese older adults in Hong Kong. *BMJ open*, 14(8), e087245.

Warner, L. M., Yeung, D. Y. L., Jiang, D., Choi, N. G., Ho, R. T. H., Kwok, J. Y. Y., & Chou, K. L. (2024). Effects of volunteering over six months on loneliness, social and mental health outcomes among older adults: The HEAL-HOA Dual Randomized Controlled Trial. *The American Journal of Geriatric Psychiatry*, 32(5), 598-610.

Yeung, D. Y. L., Jiang, D., Warner, L. M., Choi, N. G., Ho, R. T. H., Kwok, J. Y. Y., & Chou, K. L. (2025). The effects of volunteering on loneliness among lonely older adults: the HEAL-HOA dual randomised controlled trial. *The Lancet Healthy Longevity*, 6(1).

Details of Impact or Benefit

This project exemplifies how evidence-based, community-driven interventions can address complex social issues while fostering cross-generational solidarity and long-term well-being, with significant outcomes across multiple dimensions:

- **Volunteer Engagement:** 50 retirees and young people were recruited, trained, and mobilised as volunteers. This created a sustainable pool of community support and enhanced intergenerational engagement;
- **Direct Beneficiaries:** 250 older adults received the intervention, resulting in measurable improvements in reduced loneliness, lower depressive and anxiety symptoms, decreased stress, improved sleep quality and enhanced psychological well-being;
- **Scientific Contribution:** A research paper was published based on the data collected, contributing to the academic understanding of loneliness interventions and validating the BPS-Pathways model;
- **Commercialisation and Sustainability:** The project secured funding from sources such as the Community Investment and Inclusion Fund and IT-related grants to pursue further development and scaling of the intervention; and
- **Policy and Practice Influence:** The initiative demonstrated a scalable model for addressing loneliness among older adults, particularly during public health crises. It also equipped youth and elderly service providers with the tools to organise and train volunteers, reinforcing community resilience.



Annex I

Impact Case History (ii)

Project Title

Balance Bike: An Evidenced Solution for Better Postural Stability and Control in Children

Principal Investigator / Project Leader

Dr CHOW Chi Ching, Dr MOK Kam Ming, Dr SUN Fenghua

Project Summary

Cycling is a foundational movement skill, yet 9.7% of the global population (including approximately 65,000 primary and secondary school students in Hong Kong) do not know how to ride a bicycle. This gap in physical literacy is compounded by limited family support, financial constraints, and lack of expertise, making school-based programmes essential for early cycling education.

This project introduced a structured balance bike training programme aimed at improving postural stability, motor skills, and cycling confidence among primary school children. The intervention used pedal-less bicycles that help children learn to control their centre of mass (balance bikes) within a school setting to address the challenges of cycling proficiency and safety.

Underpinning Research

The project builds on prior research validating the effectiveness of balance bike training in adult non-cyclists. It explores the previously under-researched causal relationship between cycling performance, postural control, and training efficiency in children.

Key research components include:

- Postural Stability Assessment: Use of wearable inertial measurement units (IMUs) to quantify postural sway during upright stance and dynamic cycling scenarios;
- Motor Skill Development: Evaluation of improvements in sprinting, jumping, and grip strength as indicators of broader physical fitness; and
- Confidence and Engagement: Investigation into psychological readiness and motivation to engage in cycling activities.

The integration of sensor-based metrics and structured training protocols positions this research at the intersection of educational practice and applied sports science.

References to the Research

Chow, C.C.G., & Ha, C.W.S. (2024). Positive skill transfer in balance and speed control from balance bike to pedal bike in adults: A multiphase intervention study. *PLoS ONE*, 19(2), e0298142. <https://doi.org/10.1371/journal.pone.0298142>

Chow, C.C.G., Sun, F.H., & Mok, K.M. (2023-2024 General Research Fund Project). Balance Bike: An Evidenced Solution for Better Postural Stability and Control in Children.

Chow, C.C.G. (2023). An evidenced solution for learning to cycle independently in healthy adults [Abstract]. European College Sport Science (ECSS) Congress (ECSS Paris 2023) – Book of Abstract, 456. Retrieved from https://www.ecss.mobi/DATA/CONGRESSES/PARIS_2023/DOCUMENTS/BOA_Paris_2023_Web.pdf



Impact Case History (ii)

Details of Impact or Benefit

The intervention yielded significant benefits across multiple domains. Not only did it address a critical gap in children's physical development, but it also contributes to safer, more confident cycling practices, with long-term implications for public health, education, and mobility.

- **Cycling Proficiency:** Children demonstrated measurable improvements in balance bike handling and foundational cycling skills. The most notable gains were observed in the 10-metre sprint test, with progressive improvement across all assessment points;
- **Physical Fitness:** Enhanced performance in vertical jump and grip strength assessments indicated broader physical development beyond cycling-specific skills;
- **Postural Stability:** Preliminary IMU data suggest improvements in movement quality and balance, validating the use of sensor-based tools for real-world assessment;
- **Psychological Confidence:** Participants, especially those previously unable to ride a two-wheel pedal bike, reported essential factors for sustained physical activity, including increased confidence and willingness to engage in cycling activities; and
- **Scalability and Future Impact:** The success of the programme provides a strong foundation for scaling across schools and seeking further support through the KT Fund. The approach offers a replicable model for integrating physical literacy into school curricula.



Annex I

Impact Case History (iii)

Project Title

Preservation and Transmission of Chinese Traditional Culture in Academic, Policy and Community Domains

Principal Investigator / Project Leader

Prof LEUNG Bo Wah

Project Summary

The preservation and revitalisation of Chinese traditional culture, particularly Xiqu (Chinese opera) and Intangible Cultural Heritage (ICH), face challenges in contemporary education and public engagement. To address this, the EdUHK Xiqu and Intangible Cultural Heritage Centre (XICH) launched two major initiatives: “International Symposium on Xiqu and ICH Development 2025” and “Advancing Chinese Traditional Culture in Greater Bay Area Schools – Symposium for Cantonese Opera Teaching 2025”.

These events catalysed regional collaboration, transformed pedagogical practices, and established new models for cross-border knowledge exchange. The initiatives directly impacted educators, students, scholars, and cultural practitioners across the Greater Bay Area and internationally, advancing the integration of Cantonese opera into school curricula and strengthening cultural policy discourse.

Underpinning Research

The impact was underpinned by Prof LEUNG’s long-term research on cultural preservation, Cantonese education, and cross-cultural communication. His work explores how ICH, such as Xiqu, can be recontextualised within formal education and public discourse.

Three key strands of research collectively supported the development of practical strategies for embedding traditional arts into contemporary education systems and informed the project:

- Pedagogical Innovation in Traditional Arts Education: Investigated how performing arts can be integrated into school settings, addressing barriers to adoption and balancing heritage authenticity with curricular relevance;
- Cultural Policy and Regional Identity: Analysed how cultural policy frameworks in the Greater Bay Area promote cross-jurisdictional collaboration in heritage transmission, highlighting the role of educators and cultural mediators; and
- Digital Mediation of Intangible Heritage: Explored the use of digital tools to enhance multilingual and cross-regional access to traditional cultural forms, e.g. tablet apps, real-time interpretation, and e-learning platforms.



Annex I

Impact Case History (iii)

References to the Research

Leung, B. W. (2020 Quality Education Fund Project). Learning Cantonese Opera and Development of Cultural and Life Education.

Leung, B. W., Guan, T.*, & Ma, S. Y. (2025). In-service teacher training for Cantonese opera teaching in Hong Kong schools. *Music Education Research*. <https://doi.org/10.1080/14613808.2025.2539392>

梁寶華 (編) (2025): 《透過發展戲曲與非遺讓中華文化在全世界傳播 : 戲曲與非遺發展國際研討會2025論文集》, 香港教育大學戲曲與非遺傳承中心。

Details of Impact or Benefit

International Symposium on Xiqu and ICH Development 2025

- Attracted 79 paper submissions, 88 registered authors, and 22 observers from mainland China, Taiwan, America, Europe, and other regions;
- Promoted global awareness of EdUHK's efforts in ICH preservation, fostering future collaboration with international Xiqu and ICH inheritors;
- Proceedings, including five keynote articles and 73 presenter papers, were uploaded to the XICH website and widely downloaded; and
- Enhanced the visibility and accessibility of Chinese traditional performing arts through multilingual and hybrid platforms.

Symposium for Cantonese Opera Teaching in Greater Bay Area Schools

- Engaged educators in exploring Cantonese opera as a tool for values education, language learning, and cultural appreciation;
- Strengthened cross-border exchange among educators, promoting regional cohesion and mutual learning;
- Contributed directly to curriculum enrichment in at least 20 schools across the Greater Bay Area;
- Provided practical resources and strategies for classroom implementation;
- Advanced public legitimacy of Cantonese opera as a living heritage suitable for integration into modern schooling; and
- Proceedings are in final editing and will be disseminated shortly.

Ongoing Evaluation and Corroboration

- Plans are in place to track downloads and gather qualitative feedback from participants; and
- Questionnaires will be distributed to assess how presenters and attendees have developed professionally following the events.



Annex I

Impact Case History (iv)

Project Title

Greening Technical and Vocational Education and Training (TVET) across SEAMEO countries

Principal Investigator / Project Leader

Dr PAVLOVA Margarita

Project Summary

Across Southeast Asia, Technical and Vocational Education and Training (TVET) systems face challenges in adapting to the demands of green transition and sustainable development. Teachers and institutional leaders often lack the capacity, tools, and frameworks to integrate green skills into curricula and institutional practices. Recognising this gap, the UNEVOC Centre (Hong Kong) at EdUHK led a regional initiative to support SEAMEO VOCTECH in enhancing the greening of TVET across SEAMEO countries.

The project directly impacted Indonesia, Brunei, and Timor-Leste by equipping over 100 TVET practitioners, managers, and ministry representatives with the skills to develop institutional greening action plans and concept-based curricula for generic green skills. The initiative also collected baseline data from 11 ASEAN countries to inform policy recommendations, which will be presented at the SEAMEO Centres Policy Research Network (CPRN) Summit 2025. If adopted, these recommendations could influence TVET systems region-wide, affecting thousands of educators and millions of students.

Underpinning Research

This impact was underpinned by a research programme initiated in 2014, focusing on the green transition and its alignment with the Sustainable Development Goals (SDGs). Key research contributions include:

- Classification of green skills and their relevance across industry sectors;
- Identification of green innovation requirements and value-based behavioural change;
- Development of concept-based curricula tailored to green competencies;
- Models for capacity building among TVET educators and leaders; and
- Strategies for inclusive green transition and institutional change.

The research highlighted the importance of embedding sustainability into education systems and demonstrated how universities can act as catalysts for linking education, policy, and industry. It also emphasised the need for evidence-based policymaking and regional collaboration to support systemic change.

References to the Research

Pavlova, M. (2022 UNESCO Project). Capacity building for addressing SDGs through curriculum and pedagogy innovation in TVET.

Pavlova, M. (2022). Green economies, green values – Story for the times. In K. Kennedy, M. Pavlova & J. C. -K. Lee (Eds.). *Soft Skills and Hard Values: Meeting 21st Century Education Challenges* (pp.19-36). Routledge.



Annex I

Impact Case History (iv)

References to the Research (cont'd)

Pavlova, M., & Askerud, P. (2024) A Euro-Asian look at challenges to innovation and the Greening of Industries: Implications for TVET and strategic policy formulation, *Journal of Vocational Education & Training*, 76(2), 381–405, DOI: [10.1080/13636820.2023.2288055](https://doi.org/10.1080/13636820.2023.2288055)

Pavlova, M. (2025, in press) Green mindsets to combat climate change: Development of Curriculum to Foster Education Innovation for Climate Action. In S. Jagannathan, Sungsup Ra (Eds). *Fostering Human Capital and Talent for Climate Action*, Springer

Pavlova, M. (2025, in press) Education on Green Urban Development and Social Entrepreneurship as a Tool for Developing Life and Positive Values among Ethnic Minorities in Hong Kong. *International Review of Education – Journal of Lifelong learning*

Saral, A. T. & Pavlova, M. (2025). Green skills for refugees in Hong Kong. In J. Matthews & Q. Maire (Eds.). *Handbook of Refugee Education: Comparative perspectives, innovations and new directions* (pp.321 – 343). Edward Elgar Publishing Ltd.

Details of Impact or Benefit

The project achieved measurable impact through:

- **Capacity Building:** Face-to-face workshops improved the technical competencies of TVET leaders and educators in Indonesia, Brunei, and Timor-Leste. Pre- and post-training self-assessments showed significant gains in proficiency;
- **Policy Engagement:** Collaboration with high-level officials ensured strategic alignment and implementation:
 - Brunei: Dr Hj Mohd Zamri Hj Sabli, CEO of IBTE and Chairperson of SV Governing Board.
 - Indonesia: Dr Beny Bandanadjaja, Director of Academic Vocational Higher Education.
 - Timor-Leste: Mrs Isabel Fernades de Lima, Director of INDMO.
- **Institutional Implementation:** Ministries selected participants to ensure follow-through on greening action plans. Implementation outcomes will be evaluated in May 2026;
- **Regional Reach:** Baseline data from 1,290 valid responses across 11 ASEAN countries identified gaps in professional knowledge and practice. These findings informed policy briefs with potential to reshape TVET across the region; and
- **Strategic Alignment:** The project supports the SEAMEO research agenda on education for sustainable development and aligns with national strategies such as Indonesia's RPJPN 2025–2045, which prioritises green economy goals.

The project continues to generate interest and collaboration, with ongoing engagement with the ASEAN Secretariat and SEAMEO VOCTECH. Its long-term impact lies in fostering systemic change through evidence-based policy, regional cooperation, and the transfer of expertise from Hong Kong to Southeast Asia.



Annex I

Impact Case History (v)

Project Title

First Harvard-EdUHK-Stanford (HES) Joint Symposium on Emerging Technologies and Future Talents

Principal Investigator / Project Leader

Prof WANG Minjuan

Project Summary

The 3-day Symposium (8-10 May 2025), with key partners Stanford University, Harvard University, and iFLYTEK (a leading AI company), provides a dynamic platform for educators, researchers, and industry leaders to engage with the latest advancements in technology and their application in education by focusing on the in-depth integration of cutting-edge technologies such as AI, extended reality (XR), and machine learning in education, training, and talent cultivation.

References to the Research

Chu, X., Shen, S., Wang, M.J. et al. (2024). Experiences and insights from world-class universities on exploring norms for Generative AI applications: Text mining based on LDA topic model analysis. *Modern Distance Education*, 2024 (03): 38-47. (CSSCI Core)

Chu, X., Wang, M., Spector, J.M. et al. (2025). Enhancing the flipped classroom model with generative AI and Metaverse technologies: Insights from lag sequential and epistemic network analysis. *Education Technology Research and Development*.

Lang, Q., Wang, M. et al. (2025). Transforming education with Generative AI (GAI): Key insights and future prospects. in *IEEE Transactions on Learning Technologies*, 18, 230 – 242.

Li, X.F, Wang, M. et al. (2025). Navigating the textual maze: Enhancing textual analytical skills through an Innovative GAI prompt framework. *IEEE Transactions on Learning Technologies*, 18, 206-215.

Wang, M. and Lee, J. C-K. (2025). Editorial: Journey to the future: Extended reality and intelligence augmentation," in *IEEE Transactions on Learning Technologies*, 18, 53-55.

Details of Impact or Benefit

The Symposium featured pre-Symposium workshops designed for staff and students from K-12 and higher education to gain practice skills in writing, innovation, and entrepreneurial thinking, and a series of captivating keynote speeches delivered by renowned scholars and industry experts. Three innovative workshops were also arranged: Harvard-Stanford Innovative Education, Innovation and Entrepreneurship Education in the AI Era, and writing and publishing in high-impact journals, attracting nearly 400 participants. Additionally, the symposium featured thematic panel discussions between academia and industry, poster presentations, and showcases of achievements from researchers, developers, and designers worldwide, making a noticeable impact on news and social media.

The 7 parallel sessions held on the last day of the event, with 63 contributors presenting on the applications of AI and large language models in STEAM teaching from K-12 to higher education, the cultivation of creativity and future-oriented thinking, as well as the entrepreneurial ecosystem and



Annex I

Impact Case History (v)

Details of Impact or Benefit (cont'd)

talent strategies in the era of AI. Over 400 participants from primary and secondary schools, faculty and students from local and overseas universities, as well as professionals from related industries, came to EdUHK from Canada, the United States, the United Kingdom, Spain, Portugal, Singapore, Indonesia, Argentina, South Africa, Macao SAR, Mainland China, and locally to participate in this large-scale academic symposium.



Annex II

Approved KT Fund Projects 2024-25

| Project Investigator | Project Title |
|------------------------|---|
| Dr CHAN Wai Lan Winnie | Playing with Math in Everyday Life |
| Prof CHOU Kee Lee | Reducing Loneliness Among Older Adults |
| Dr LEE Ju Seong | Promoting Linguistic Equity in Under-resourced Regions |
| Dr MUNG Wai Yin Steve | Contactless Detection of Drink Sugar Concentration by Microwave Sensing Technology |
| Dr PAVLOVA Margarita | Greening Technical and Vocational Education and Training (TVET) across SEAMEO countries: Supporting Sustainable Development Goals (SDGs) via Knowledge Transfer from the EdUHK |
| Prof YAN Zi | Technology-driven Assessment Solutions for K-12 Schools in Hong Kong |
| Dr YUEN Chi Pun Kevin | Upgrading the Existing Prototype Software Version of Cantonese Pediatric Lexical Tone Dichotic Listening Test (Capeleto DLT) into A Clinical Version for Front-line Speech Therapists and Audiologists in Medical, Health and Educational Settings to Early Detect Young Children with Listening Difficulties |
| Dr YUNG Wai Ho Kevin | Developing an AI-enabled Personalized Adaptive Learning System for Hong Kong Secondary School Students: Catering to Learner Diversity |



Annex III & IV

Approved Fund for Innovation, Technology, and Social-wellbeing Projects (Aug 2024 - Jul 2026)

| Project Investigator | Project Title |
|-----------------------|--|
| Dr FU Hong | iVisionCare: AI Strabismus Diagnosis for Social Welfare |
| Dr KONG Siu Hang Eric | Wearable speech training device for children with Autistic Spectrum Disorder |
| Dr LEUNG Ka Man | Promoting Active Aging: Empowering Older Adults through the Train-the-Trainer Paradigm |
| Prof YEUNG Siu Sze | Development and implementation of storytelling activities delivered by social robots with personalization of attention span of child users |

Approved KTMGS Projects 2024-25

| Project Investigator | Project Title |
|------------------------|--|
| Dr MUNG Wai Yin Steve | Precise Millimeter-Wave Beamforming Radar System for Enhanced Traffic Management Speed Measurement |
| Prof YEUNG Chi Ho Bill | Physics-inspired Traffic-load Balancing via Smart Coordinated Navigation |



Annex V

Granted Innovation and Technology Fund Projects 2024-25*

| Project Investigator | Type of ITF Scheme | Project Title |
|--------------------------------|---|--|
| Prof CHOW Cheuk Fai Stephen | General Support Programme (GSP) | Innovative Learning through Technology: Nurturing Well-being and Creativity @InnoCarnival 2024 |
| | Public Sector Trial Scheme (PSTS) | Trial: Nano-Food Sensors for Determining Frozen Food Freshness |
| Dr FU Hong | Innovation and Technology Support Programme (ITSP) – Seed Project | AI-Powered Intelligent System for Dynamic Assessment of Hand Function |
| | Partnership Research Programme (PRP) | Development of AI-empowered System for Intelligent Strabismus Diagnosis |

Notes: *Additional four ITF Research Talent Hub (ITF-RTH) projects were granted in the 2024/25.



Annex VI

List of Patents 2024-25

Note: Entries with patents granted are highlighted

| Inventor List | Name of Patent | Serial Number of Patent | Country/Region | Date of Application / Grant |
|--|---|-------------------------------|----------------|-----------------------------|
| Dr KONG Siu Hang External Partners | Apparatus and method based on convolutional neural network for sound recognition on music learning | HK30103952 | Hong Kong | 07/2024 |
| Dr MUNG Wai Yin Steve Prof CHAN Che Hin Chetwyn Mr LIAO Jason Ken External Partners | Headrest with noise reduction function | HK30103954 | Hong Kong | 07/2024 |
| Prof YU Leung Ho Philip Ms WANG Chenlu External Partners | System and Method for predicting hepatocellular carcinoma recurrence risk of a patient after a surgery | CN202411387812.6 | China | 10/2024 |
| | | US18/907,615 | United States | 10/2024 |
| Dr CHENG Jinping External Partners | 一種基於紅樹林潮灘的泥丁養殖方法及其應用 | CN202411692388.6 | China | 11/2024 |
| Prof HUNG Keung | Digital Puppet for Generative Art | CN202422870865.5 | China | 11/2024 |
| Dr LIU Duo Dr XU Zhengye | System/method for classifying readability of Chinese content with readability formula by machine learning | HK32024100195.9 HK30117151 | Hong Kong | 11/2024 05/2025 |



Annex VI

List of Patents 2024-25

| Inventor List | Name of Patent | Serial Number of Patent | Country/Region | Date of Application / Grant |
|--|---|-------------------------------|----------------|-----------------------------|
| Prof SONG Yanjie Prof YU Leung Ho Philip Prof LEE Chi Kin John Mr WU Kaiyi Mr CAO Jiaxin | System and method for animating an avatar in a virtual world | US12,148,082 | United States | 11/2024 |
| Dr SUN Daner Prof CHOU Kee Lee Dr YANG Lan External Partners | A system and method for teaching mathematics through adaptive scaffolding support | HK32024099923.7 HK30117150 | Hong Kong | 11/2024 05/2025 |
| Dr ZOU Di (Former staff) External Partners | A Personalized Word Learning System Based on Deep Neural Network | HK42024099184.4 | Hong Kong | 11/2024 |
| Dr FU Hong Mr LUO Zijian Ms WANG Yanyue | An apparatus for evaluating the fine motor skill of a target user | US19/005,107 | United States | 12/2024 |
| Dr HU Xinyun Dr LEUNG Wai Man External Partners | 兒童創遊站 | ZL202330690747.4 | China | 12/2024 |
| Dr FU Hong External Partners | An eye-gaze tracking apparatus and a method of eye-gaze tracking | US12,189,844 | United States | 01/2025 |



Annex VI

List of Patents 2024-25

| Inventor List | Name of Patent | Serial Number of Patent | Country/Region | Date of Application / Grant |
|---|--|-------------------------|----------------|-----------------------------|
| Dr MUNG Wai Yin Steve Prof CHAN Che Hin Chetwyn External Partners | 控制噪聲的方法和系統 | CN202510062195.0 | China | 01/2025 |
| Dr MUNG Wai Yin Steve Mr LAI Chun Yin | A method and system of determining linearity of a power amplifier module in load pull measurements | US19/007,822 | United States | 01/2025 |
| Dr MUNG Wai Yin Steve Ms Sharon FOO Mr LAI Chun Yin Ms LO Yuen Wing | 一種智能保溫盤以及用於測量質量重量的設備 | CN202520586049.3 | China | 03/2025 |
| Dr KONG Siu Hang External Partners | Music learning system and method using AI-based pose analysis and emotion analysis | HK32025106041.6 | Hong Kong | 04/2025 |
| Prof WONG Ming Hung Dr LI Wai Chin Dr MAN Yu Bon External Partners | 一種氣霧栽培單元以及一種用於植物栽培和觀察的裝置 | HK32025105750.3 | Hong Kong | 04/2025 |
| | | CN202520649351.9 | China | 04/2025 |



Annex VI

List of Patents 2024-25

| Inventor List | Name of Patent | Serial Number of Patent | Country/Region | Date of Application / Grant |
|---|---|-------------------------|----------------|-----------------------------|
| Prof YU Leung Ho Philip Mr XIE Zhiwei | Method for fine-tuning a multimodal large language model to generate level-specific feedback in scene description tasks | US19/169,024 | United States | 04/2025 |
| Prof YU Leung Ho Philip Mr ZOU Zhiqiang Mr ZHANG Tianyu Mr XIE Zhiwei Miss ZHANG Jialin Kay | Computer-Implemented Method and System and Non-Transitory, Computer-Readable Medium for Automated Instructional Video Generation Using Stylized Digital Avatars | US19/251,713 | United States | 06/2025 |
| Dr YANG Yu Prof XU Guandong Mr YANG Qihao (Former Staff) | An intelligent tutoring system powered by LLM-based collaborative agents and its optimization method | HK32025109204.7 | Hong Kong | 06/2025 |
| | 一種由基於LLM協作式智能體驅動的智能輔導系統以及其優化方法 | CN202510880205.1 | China | 06/2025 |



Annex VII & VIII

Current Start-up Teams Being Incubated in CEAR

| Cohort | Start-up | Nature of Business |
|----------|-----------------------------|--------------------|
| Cohort 1 | Focus Tech Lab Limited | HealthTech |
| | Innovative Music Zentre Ltd | ArtTech |
| | SustainED Limited | EdTech |
| Cohort 2 | EduFuture Robotics Co Ltd | EdTech |
| | MetaAI Lab Limited | EdTech, HealthTech |

Highlighted External Achievements of EdUHK Start-ups 2024-25

| EdUHK Start-up | Nature of Business | External Achievement |
|------------------|--------------------|--|
| Oprint | GreenTech | <ul style="list-style-type: none"> Hang Seng x HKSTP x Wofoo Future Ecopreneur Program – Winning Team |
| Bridge AI | EdTech | <ul style="list-style-type: none"> Hong Kong ICT Award 2024 – Gold Award Hong Kong ICT Award 2024 – Best Use of AI Award |
| Edge Development | Education | <ul style="list-style-type: none"> Deignan Award for Responsible Entrepreneurship – Community Impact Award |



Annex VIII

Highlighted External Achievements of EdUHK Start-ups 2024-25

| EdUHK Start-up | Nature of Business | External Achievement |
|-------------------------|--------------------|---|
| Focus Tech | HealthTech | <ul style="list-style-type: none"> Techathon⁺ 2025 Gold Award (Local Open Group, Digital Economy Area) |
| Medi-TravelHK | FinTech | <ul style="list-style-type: none"> HSUHK Inter-University Innovation Project Competition 2025 – 1st runner up |
| Neurodissey Association | EdTech | <ul style="list-style-type: none"> Hong Kong ICT Award 2024 – Grand Award Hong Kong ICT Award 2024 – Gold Award Hong Kong ICT Award 2024 – Best of the Best: Best Use of AI 前海粵港澳台青年創新創業大賽2024 – 企業成長組 (銀獎) |
| ReCherish Beans | GreenTech | <ul style="list-style-type: none"> Hang Seng x HKSTP x Wofoo Future Ecopreneur Program – Winning Team |
| The Finder | FinTech | <ul style="list-style-type: none"> HSUHK Inter-University Innovation Project Competition 2025 – Champion |
| Treechat | GreenTech | <ul style="list-style-type: none"> Hang Seng x HKSTP x Wofoo Future Ecopreneur Program – Winning Team |
| Xinglin Yuan | HealthTech | <ul style="list-style-type: none"> Cyberport GBA YEP – Winning Team |



Annex IX

International Award-Winning Projects 2024-25

| 2025 | | |
|--|---|---|
| Project Title | Principal Investigator(s) | Award(s) |
| International Exhibition of Inventions Geneva 2025 | | |
| A Hybrid EEG-fNIRS Neurofeedback Application for Brain Training for Autistic Children | Dr YEUNG Kin Chung Michael | <ul style="list-style-type: none"> • Gold Medal with Jury Congratulations • International Special Merit Award |
| Novel Biomaterials Used for Dendritic Cell Vaccine for Cancer Immunotherapy | Prof YUNG Kin Lam Ken | <ul style="list-style-type: none"> • Gold Medal • International Special Merit Award |
| Automatic Multi-modal Deep Learning Analysis System | Prof YU Leung Ho Philip | <ul style="list-style-type: none"> • Silver Medal |
| Sign2V: Connecting Sign Language to the Verbal Sphere | Mr LO Wai Kin, Dr SO Chi Fuk Henry | <ul style="list-style-type: none"> • Silver Medal |
| YoChatGPT!: Unleashing the Power of Collaborative AI | Dr TING Sze Thou Fridolin | <ul style="list-style-type: none"> • Silver Medal |
| Integrated Nutrition Management System with Smart Panel and AI Platform for Sustainable Dietary Progress | Dr MUNG Wai Yin Steve | <ul style="list-style-type: none"> • Bronze Medal |
| Smart Vest for Improving Behavioral Performance of School-aged Children with Attention Deficit Hyperactivity Disorder (ADHD) | Dr FU Hong, Hong Kong Research Institute of Textiles and Apparel Limited | <ul style="list-style-type: none"> • Bronze Medal |



Annex IX

International Award-Winning Projects 2024-25

| 2024 | | |
|--|----------------------------|--|
| Project Title | Principal Investigator(s) | Award(s) |
| 4th Asia Exhibition of Innovations and Inventions | | |
| Automatic Screening System for Mild Cognitive Impairment and Dementia with Auditory Tasks | Dr KAM Chi Shan Anna | <ul style="list-style-type: none"> • Gold Medal |
| Artificial Mussel: A Novel Device for Monitoring Heavy Metals and Radionuclides in Global Aquatic Environments | Prof WU Shiu Sun Rudolf | <ul style="list-style-type: none"> • Gold Medal |
| I-well Home | Prof LEUNG Chi Hung | <ul style="list-style-type: none"> • Bronze Medal |
| Social Robot | Prof YEUNG Siu Sze Susanna | <ul style="list-style-type: none"> • Bronze Medal |
| QS Reimagine Education Awards 2024 | | |
| Scaling Up Quality Teaching and Learning in Cambodian Universities | Prof LIM Cher Ping | <ul style="list-style-type: none"> • Bronze Medal |



Annex IX

International Award-Winning Projects 2024-25

| 2024 (cont'd) | | |
|--|----------------------------|--|
| Project Title | Principal Investigator(s) | Award(s) |
| BRICS-Inventions 2024 | | |
| Automatic Screening System for Mild Cognitive Impairment and Dementia with Auditory Tasks | Dr KAM Chi Shan Anna | <ul style="list-style-type: none"> • Silver Medal |
| Digital Puppetry System: Connecting Young Generation and Cultural Heritage with Novel Technology | Prof HUNG Keung | <ul style="list-style-type: none"> • Silver Medal |
| I-well Home | Prof LEUNG Chi Hung | <ul style="list-style-type: none"> • Silver Medal |
| Social Robot | Prof YEUNG Siu Sze Susanna | <ul style="list-style-type: none"> • Silver Medal |
| International Invention Innovation Competition in Canada (iCAN) 2024 | | |
| Automatic Screening System for Mild Cognitive Impairment and Dementia with Auditory Tasks | Dr KAM Chi Shan Anna | <ul style="list-style-type: none"> • The Grand Prize • Gold Medal |
| I-well Home | Prof LEUNG Chi Hung | <ul style="list-style-type: none"> • Organizer's Choice Award • Gold Medal |
| Social Robot | Prof YEUNG Siu Sze Susanna | <ul style="list-style-type: none"> • Jury's Choice Award • Gold Medal |



Annex IX

International Award-Winning Projects 2024-25

| 2024 (cont'd) | | |
|--|--|---|
| Project Title | Principal Investigator(s) | Award(s) |
| International Invention Innovation Competition in Canada (iCAN) 2024 (cont'd) | | |
| Artificial Mussel: A Novel Device for Monitoring Heavy Metals and Radionuclides in Global Aquatic Environments | Prof WU Shiu Sun Rudolf | <ul style="list-style-type: none"> • Top 20 Best Invention Award • Gold Medal |
| Digital Puppetry System: Connecting Young Generation and Cultural Heritage with Novel Technology | Prof HUNG Keung | <ul style="list-style-type: none"> • Gold Medal • Special Award |
| A+Sleep: Personalized Acoustic Control Pillow | Dr MUNG Wai Yin Steve | <ul style="list-style-type: none"> • Silver Medal • Special Award |
| EdUAI: Personalized Math Learning | Mr WONG Chi On, Dr SO Chi Fuk | <ul style="list-style-type: none"> • Silver Medal • Special Award |
| Make-Play Station | Dr HU Xinyun, Dr LEUNG Wai Man Vivienne | <ul style="list-style-type: none"> • Silver Medal • Special Award |
| Portable Aeroponic Culture Unit | Prof WONG Ming Hung | <ul style="list-style-type: none"> • Silver Medal • Special Award |
| Silicon Valley International Invention Festival 2024 | | |
| Social Robot | Prof YEUNG Siu Sze Susanna | <ul style="list-style-type: none"> • Gold Medal • Special Award |
| Digital Puppetry System: Connecting Young Generation and Cultural Heritage with Novel Technology | Prof HUNG Keung | <ul style="list-style-type: none"> • Gold Medal |



Annex IX

International Award-Winning Projects 2024-25

| 2024 (cont'd) | | |
|---|---|----------------|
| Project Title | Principal Investigator(s) | Award(s) |
| Silicon Valley International Invention Festival 2024 (cont'd) | | |
| I-well Home | Prof LEUNG Chi Hung | • Gold Medal |
| Automatic Screening System for Mild Cognitive Impairment and Dementia with Auditory Tasks | Dr KAM Chi Shan Anna | • Silver Medal |
| Make-Play Station | Dr HU Xinyun, Dr LEUNG Wai Man Vivienne | • Silver Medal |
| Portable Aeroponic Culture Unit | Prof WONG Ming Hung | • Silver Medal |



Annex X

Summary of Performance Indicators

| Summary of Performance Indicators of Knowledge Transfer Activities | | | 2023-24 (1 Jul - 30 Jun) | 2024-25 (1 Jul - 30 Jun) |
|---|--|---|-----------------------------|-----------------------------|
| Research Partnerships & Consultative Solutions | | | | |
| 1 | Contract Research | Number of Projects | 42 | 54 |
| | | Income from Projects | \$80,320,149 | \$42,716,692 |
| | | Number of Key Partners | 124 | 92 |
| 2 | Collaborative Research Projects | Number of Projects | 41 | 54 |
| | | Income from Projects | \$29,850,826 | \$104,369,371 |
| | | Number of Key Partners | 208 | 224 |
| 3 | Consultancy | Number of Projects | 43 | 45 |
| | | Income from Projects | \$36,835,159 | \$42,593,654 |
| | | Number of Key Partners | 35 | 41 |
| Intellectual Properties & Licensing | | | | |
| 4 | Intellectual Properties | Number of Patents Filed | 20 | 18 |
| | | Number of Patents Granted | 9 | 7 |
| | | Number of International Invention Awards Received | 30 | 43 |
| 5 | IP Licensing | Number of Active Licences | 6 | 6 |
| | | Income Generated | \$222,220 | \$68,811 |
| Community Outreach & Engagements | | | | |
| 6 | Entrepreneurial Activities | Number of Entrepreneurial Activities | 87 | 80 |
| | | Number of Start-up Teams Supported | 47 | 21 |
| | | Number of Attendance by Students | 3,614 | 4,792 |
| | | Number of Attendance by Alumni | 121 | 122 |
| | | Number of Attendance by Staff | 23 | 153 |
| 7 | Social, Community and Cultural Engagement | Number of Activities | 25 | 25 |
| | | Number of Key Partners | 40 | 84 |
| 9 | Public Dissemination and Speeches | Number of Activities | 325 | 412 |
| | | Number of Key Partners | 1,061 | 610 |
| Total Income from Community Outreach & Engagement Activities | | | - | \$5,544,504 |
| Continuing Professional Development Courses | | | | |
| 8 | Continuing Professional Development (CPD) Courses | Number of CPD Courses | 72 | 95* |
| | | Income from CPD Courses | \$65,032,024 | \$603,729,243* |
| | | Number of Key Partners | 415 | 734* |
| | | Number of Student Contact Hours | 29,868 | 911,279* |
| Professional & Advisory Engagements | | | | |
| 10 | Staff Engaged as Professional Consultants or Members of External Advisory Bodies | Number of Staff Engaged | 148 | 159 |

Notes: *Including the taught postgraduate programmes for learners already in work.

Some performance indicators presented in this report are newly introduced. Direct comparison with past data may not be valid.

