

Policies for the digital transformation and integration of AI in TVET

BILT Bridging Event at the Global Digital TVET Transformation Summit 2025 (DOTS25)

Organized by UNESCO-UNEVOC and Universiti Tun Hussein Onn Malaysia

With the support of the German Federal Institute for Vocational Education and Training
and sponsored by the German Federal Ministry of Education and Research

28 – 30 May 2025
Impiana Hotel KLCC, Kuala Lumpur, Malaysia

Wednesday, 28 May 2025

Harnessing the transformation

9:00 – 17:00

All times are indicated in MYT

8:30 – 9:00	Arrival and registration
09:00 – 09:10 Main Hall <i>Streamed online</i>	Welcome remarks MC: Ms Iza Nurhidayah Ismail , Universiti Tun Hussein Onn Malaysia (UTHM), Malaysia Speakers: - Mr Badaruddin Ibrahim , Director, MyRIVET, Malaysia
09:10 – 09:35 Main Hall <i>Streamed online</i>	Keynote: Digital transformation in global TVET <i>This keynote will provide an overview of current global trends in the digital transformation of TVET, with a particular focus on the integration of artificial intelligence. It will examine the implications of these developments for policy frameworks, pedagogical approaches, and institutional capacity. The session will serve to establish a common understanding of the key issues and inform the subsequent panel discussion.</i>

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	MC: Ms Iza Nurhidayah Ismail, UTHM, Malaysia Speaker: Mr Yang Congkun, UNEVOC Centre Coordinator, Shenzhen Polytechnic University, China; on behalf of UNESCO Chair on Digitalization in TVET
9:35 – 10:35 Main Hall Streamed online	Panel discussion Digitalization and AI in TVET: harnessing the transformation <i>This panel discussion brings together policymakers and private sector voices to share insights and strategies for digital readiness in TVET. Contributions will focus on emerging policies, implementation experiences and collaborative models that advance digital innovation in the ASEAN region.</i> Moderator: Mr Lai Chee Sern, Deputy Director, MyRIVET, Malaysia Speakers: - Mr Danial Azizan Abdullah Henry, Country Head, Google for Education, Malaysia and Brunei - Mr Paryono, Deputy Director for Professional Affairs and Research Manager, SEAMEO VOTECTH, Brunei - Mr Hiromichi Katayama, Programme Specialist, UNESCO Jakarta, Indonesia - Ms Aida Mustapha, Deputy Vice Chancellor Research and Innovation, Universiti Malaysia Pahang Al-Sultan Abdullah (UMPSA), Malaysia - Mr Abdullah bin Abduraman, President, UTHM Student Representative Council, Malaysia
10:35 – 11:00	Tea and networking break
11:00 – 13:00 Main Hall Streamed online	Launching Ceremony of DOTS25 and BILT Bridging Event <i>This segment marks the official launch of the Global Digital TVET Transformation Summit 2025 (DOTS25) and the BILT Bridging Event. The programme includes cultural performances and opening speeches from institutional leaders and dignitaries, as well as formal proceedings such as the signing of a memorandum of understanding.</i> MCs: Ms Iza Nurhidayah Ismail and Mr Razif Kadimon, UTHM, Malaysia Speakers: - Mr Abdul Rasid Abdul Razzaq, Acting Vice-Chancellor, UTHM, Malaysia - Mr Friedrich Huebler, Head of UNESCO-UNEVOC

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	- Mr Michael Wiechert, Head of Division 'International Advisory Services/Cooperation with Partner Institutions', Federal Institute for Vocational Education and Training (BIBB), Germany - Mr Ibrahim Ahmad, Chairman of the Board of Directors, UTHM, Malaysia
13:00 – 14:00	Lunch break Time to network and to browse the poster gallery.

Exhibition space	BILT poster gallery and live demonstrations Throughout the event on 28 and 29 May, the BILT poster gallery and live demonstrations will be available inside and in front of the main hall. The BILT Poster Gallery showcases selected projects, research, policy initiatives and digital tools that contribute to the digital transformation and integration of AI in TVET. The contributions reflect diverse focus areas, including the development of digital skills, equitable access to technology, industry partnerships, and the use of education and labour market data to support informed decision-making. On-site participants can engage directly with presenters and explore applied solutions, while online participants are invited to browse the poster gallery via the event webpage.
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14:00 – 14:20	Towards a global TVET agenda: innovation and excellence in TVET
Main Hall	- Ms Katharina Engel, Project manager 'Excellence in VET', Federal Institute for Vocational Education and Training (BIBB), Germany - Mr Kenny Muscat, Programme Officer, Innovation and Excellence in TVET, UNESCO-UNEVOC
14:20 – 14:35	Impulse talk Digital TVET and AI framework for TVET educators
Main Hall	<i>This thematic introduction will outline key challenges, trends, and innovations in the integration of artificial intelligence and digital technologies in TVET provision. It will present the AI and Digital TVET Framework as a guiding structure for understanding these developments. Additionally, it will provide</i>

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	<i>context for the subsequent BILT poster sessions, identifying emerging themes, policy implications, and shifts in pedagogical practice.</i> - Mr Affero Ismail, Head of Digital Innovation Centre, UTHM, Malaysia
14:35 – 14:45	Transition break
14:45 – 15:30 Breakout Room 1	Poster gallery – Lightning talks I <i>During the gallery sessions, eight institutions will deliver brief lightning talks aligned with the event’s focus themes. These presentations aim to stimulate discussion and encourage participants to consider the applicability of innovative approaches within their respective TVET contexts.</i> AI-powered learning experiences: Enhancing the learning experience, customization of learning pathways, assessment and analysis as well as overall system efficiency. Moderator: Ms Cara Schmitt, BIBB, Germany Lightning talks: - Mr Robert Rouvouné, Quality Assurance Manager; Mr Allan Yona, Quality Assurance, Vanuatu Institute of Technology (VIT), Vanuatu - Ms Muktiarni, Lecturer, Universitas Pendidikan Indonesia (UPI), Indonesia
14:45 – 15:30 Breakout Room 2	Bridging the digital divide: Ensuring equitable access to digital and AI technology to provide high-quality TVET for all learners, including marginalized groups. Moderator: Ms Natalie Ax, BILT Project Manager, UNESCO-UNEVOC Lightning talks: - Ms Janine Murphy, Researcher, College of the North Atlantic, Newfoundland and Labrador (CNA), Canada - Mr Pablo Hernández Valerio, Teacher, National Institute of Apprenticeship (INA), Costa Rica
15:30 – 16:00	Tea and networking break

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16:00 – 16:45 Breakout Room 1	Poster gallery – Lightning talks II Developing digital skills & AI readiness: Identifying and integrating digital skills in TVET curricula, providing flexible and personalized lifelong learning opportunities, supporting training for TVET teachers and trainers to effectively integrate digital tools and AI. Moderator: Ms Cara Schmitt , BILT Project Officer, BIBB, Germany Lightning talks: - Ms Rakel Alonso, Mr Iñaki Telleria Olabarrieta, Member of the digital transformation team for TVET in the Basque Country, Tknika, Spain - Ms Maribel Illig, Managing Director, Chamber of Skilled Crafts Ostwestfalen-Lippe zu Bielefeld, Germany
16:00 – 16:45 Breakout Room 2	Strengthening partnerships with industry: Effective collaboration between TVET institutions, industry, and policymakers to align training with evolving skill demands and to enhance work-based learning. Moderator: Ms Natalie Ax , UNESCO-UNEVOC Lightning talks: - Ms Kelly Lima Teixeira, Manager of Programs and Educational Management of the National Department, National Commercial Training Service (SENAC), Brazil - Mr Munesh Chandra, Professor, Pandit Sunderlal Sharma Central Institute of Vocational Education (PSSCIVE), India
18:00	Networking Dinner at Revolving Restaurant, KL Tower

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Thursday, 29 May 2025 <i>Interregional policy dialogue</i> 9:00 – 17:30 All times are indicated in MYT	
8:30 – 9:00	Arrival
9:00 – 9:15 Main Hall <i>Streamed online</i>	Opening Moderator: Ms Aisyah M Rehan , Head of Global Cooperation Department, MyRIVET, Malaysia Speakers: - Mr Jailani Md Yunos, UTHM, Malaysia - Mr Michael Wiechert, Head of Division 'International Advisory Services/Cooperation with Partner Institutions', BIBB, Germany
09:15 – 10:45 Main Hall <i>Streamed online</i>	Policy dialogue Towards a global TVET agenda for digital and AI readiness and joint action <i>This high-level panel will convene representatives from multilateral organizations and policy makers to discuss strategies for strengthening digital and AI readiness in TVET systems. The session will explore opportunities for interregional collaboration, examine existing frameworks, and identify areas for coordinated policy action.</i> Moderator: Mr Friedrich Huebler , UNESCO-UNEVOC Panellists: - Mr Nicholas Ouma, Senior Youth Advisor, African Union Commission - Mr Laksasak Yangsaman, Policy and Planning Analyst, Office of the Vocational Education Commission (OVEC), Thailand; Chair of the ASEAN TVET Council - Mr Kertney Thompson, Chief Executive Officer, St. Kitts-Nevis TVET Council Secretariat, Ministry of Education, Saint Kitts and Nevis; Chair of the Caribbean Association of National Training Authorities (CANTA)
10:45 – 11:30	Tea and networking break

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11:30 – 13:00	Roundtable discussions Policies and partnerships for digital and AI readiness <i>The following sessions aim to deepen the exchange on the themes introduced during the panel discussion. Their objective is to collect additional perspectives from impulse speakers and participants and to allow for thematic discussion with policy dialogue partners.</i>
Breakout Room 1	Policy frameworks: enablers and inhibitors in the digital age Moderators: Mr Paryono , Deputy Director for Professional Affairs and Research Manager, SEAMEO VOTECTH; Mr Tee Tze Kiong , Head of Research, Innovation and Consultancy Department, MyRIVET, Malaysia
11:30 – 13:00	Industry partnerships for scalable and sustainable digital TVET Moderators: Mr Joseph Palaniappan , Executive Chairman, ASEAN Future Workforce Council; Mr Sasitharan Nagapan , Associate Professor, Faculty of Civil Engineering and Built Environment, UTHM, Malaysia
Breakout Room 2	
13:00 – 14:00	Lunch break
14:00 – 14:30	A global view on skills Moderator: Mr Kenny Muscat , UNESCO-UNEVOC UNESCO's Global Skills Tracker live demonstration - Mr Hiromichi Katayama, Programme Specialist, UNESCO Jakarta Harnessing generative AI for a new logic in global skills recognition - Ms Hannah Manogaran, Researcher, Oman College of Health Sciences, Oman - Mr James Keevy, CEO, JET Education Services, South Africa
Main Hall	
14:30 – 15:45	Collaborative session: Exploring pathways for digital transformation in TVET for the construction sector <i>This session will convene some members of the BILT Expert Group and conference participants to share insights, test emerging ideas, and co-develop directions for future work on digital transformation in vocational education, with a focus on the building and construction sector. Emphasizing practical implications for policy, pedagogy, and workforce development, the session will be shaped dynamically by the contributions of</i>
Main Hall	

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	<i>participants, drawing from global experiences and regional case studies, including findings from the forthcoming UNESCO report.</i> Moderators: - Ms Eve Price, Portfolio Manager, ConCOVE, New Zealand; Expert Group Lead - Mr Adetunji Adeniran, Registrar and Secretary to Council, Council of Registered Builders of Nigeria (CORBON), Nigeria; Expert Group Co-Lead - Mr Matteo Sgarzi, Head of Mission International Relations, Centre for Studies and Research on Qualifications (Céreq), France; Expert Group Co-Lead
15:45 – 16:00 Main Hall	Closing Moderator: Ms Katharina Engel, BIBB, Germany Speakers: - Ms Rabiah Ahmad, UTHM, Malaysia - Mr Friedrich Huebler, UNESCO-UNEVOC
16:00 – 16:30	Tea and networking break
16:15 – 17:45 Main Hall	UNEVOC Network meeting (closed meeting) Moderator: UNESCO-UNEVOC

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Friday, 30 May 2025 <i>Insights into TVET practice</i> 9:00 – 16:30 All times are indicated in MYT	
8:30 – 9:30	Drive to Community College Selayang
9:45 – 10:30	Introduction to study visits <i>This introductory session will provide an overview of the Malaysian TVET system and the ASEAN Qualifications Reference Framework. It is intended to set the scene for the study visits by offering background on national and regional structures for TVET delivery and recognition. The session will support a better understanding of institutional contexts and prepare participants for meaningful engagement with teachers, trainers and students during the site visits.</i>
10:30 – 12:00	Study Visit to Kolej Komuniti Selayang (Community College Selayang) <i>Community College Selayang delivers TVET training at both certificate and diploma levels, as well as short courses for lifelong learning. Community College Selayang is implementing inclusive education to deliver higher education to people with hearing and/or speech impairment by offering a Basic Culinary Certificate. During the study visit, participants will be able to experience new technologies in TVET such as AI and VR/AR tools.</i>
12:00 – 15:00	Lunch break
15:00 – 16:30	Cultural Visit to Craft Museum and Craft Complex, Kuala Lumpur <i>A cultural visit to the Craft Museum and Craft Complex in Kuala Lumpur offers a glimpse into Malaysia's rich artistic traditions. Participants can observe demonstrations of intricate crafts like batik painting and weaving, gaining insight into the specialized skills involved. This firsthand experience connects directly to the TVET agenda by showcasing vocational expertise and the potential for heritage crafts to inspire practical training and entrepreneurial ventures.</i>

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