

REGIONAL HIGHER EDUCATION FORUM



Higher Education of the Future: Leading Digital and Green Transformations through Collaboration

10-12 May 2023, Knowledge Exchange Center, Bangkok, Thailand

PROGRAM

DAY 1: WEDNESDAY, 10 MAY 2023

Time	Agenda	Speaker / Presenter / Panelist / Facilitator
8:30-9:00	Registration	
9:00–9:20	Welcome Remarks	Anouj Mehta Country Director, Thailand Resident Mission, Asian Development Bank (ADB)
		Dr. Kitipong Promwong President, Office of National Higher Education Science Research and Innovation Policy Council (NXPO) Thailand
		Dr. Kanyawim Kirtikara Senior Vice President for Research and Innovation King Mongkut's University of Technology Thonburi (KMUTT)
	Group photo	
9:20–10:00	Keynote Messages	
	Keynote 1 How can higher education support digital transformation and how does digital transformation change higher education?	Ms. Stephanie King Chung Hung Director General, Information Technology Department, ADB
	Keynote 2 How can higher education contribute to green transition?	Prof. Elias Towe Engineering Professor, Carnegie Mellon University; and Founder of next generation solar energy and scientist in energy transitions and education/research

Time	Agenda	Speaker / Presenter / Panelist / Facilitator	
10:00 - 10:10	COFFEE/TEA BREAK		
10:10–11:10	Opening Panel: Discussion	Facilitator: Ayako Inagaki	
	about the Keynote	Senior Director, Human and Social Development, Sectors Group, ADB	
	Panel Members:	Panel members:	
	 Multi-lateral 	Ms. Rafaelita Aldaba	
	Development Bank • Government	Undersecretary, Department of Trade and Industry, Philippines	
	Government Private Sector	Ms. Stephanie King Chung Hung	
	University	Director General, Information Technology Department, ADB	
		Prof. Elias Towe	
		Engineering Professor, Carnegie Mellon University	
		Lerwen Liu	
		Associate Professor, NTU Entrepreneurship Academy (NTUpreneur)	
11:10–11:30	Q&A with Participants	Facilitator: Ayako Inagaki	
11:30–12:00	Announcement for mechanics	Vinh Ngo	
	of group presentation	Social Sector Officer, Viet Nam Resident Mission, ADB	
		Mechanics for Country Group Presentation:	
		Topic: Higher Education's role in Digital Transformation and Green Transition in the Context of Each Developing Member Country, each country group will present for 8	
		minutes each.	
		Walk through country presentation template	
12:00–13:30	NETWORKING LUNCH and GUIDED TOUR OF KX Center		
13:30–14:30	Session 1: Building Research	Facilitator: Lynnette Perez	
	Ecosystem	Principal Education Specialist, Southeast Asia Department, ADB	
	Government Policies for	De Ma Ouethia Basa Bautista	
	Quality Research	Dr. Ma. Cynthia Rose Bautista Second Congressional Committee on Education Reform of the Philippines, Advisory	
	(Autonomy and	Council (Higher Education)	
	Financing Mechanisms) • Public–Private	Council (Flighter Education)	
	Partnership in	Dr. Kitipong Promwong	
	Research	President, NXPO	
	Collaborative and		
	Interdisciplinary	Andrew Khaw	
		Regional Director, Government Affairs, Samsung Asia	

Time	Agenda	Speaker / Presenter / Panelist / Facilitator
	Research in Digital Transformation and Green Transition	Prof. Elias Towe Carnegie Mellon University, Founder of next generation solar energy and scientist in energy transitions and education/research, Role of higher education
14:30–14:50	Q&A	Facilitator: Lynnette Perez
14:50–15:30	Session 2: Good Examples of Start-Up Incubation and University-Industry Cooperation in Digital Transformation and Green Transition Startup Nurturing Program, Startup Incubator Commercialization of Research Output Work-Based Training and Work Immersion Small and Medium-Sized Enterprises Support	Facilitator: Shanti Jagannathan Principal Education Specialist concurrently Officer-in-Charge of Education Sector Group Sustainable Development and Climate Change Department, ADB Dr. Kitiya Vongkamjan Aurand Associate Professor Biotechnology Department, Faculty of Agro-Industry, Kasetsart University Rohan McDougall Director, Commercialization, Curtin University Dr. Supachai Vongbunyong Deputy Director for Academic Affairs, Institute of Fleld RoBOtics (FIBO) Lerwen Liu Associate Professor, NTU Entrepreneurship Academy (NTUpreneur)
15:30–16:00	Q&A with participants	Facilitator: Shanti Jagannathan
16:00–16:15	COFFEE/TEA BREAK	
16:15–16:50	Open Reflection from Participants by Country	ADB Country focals will facilitate. Country Group Breakout Session discussion
16:50–17:00	Day 1 Wrap-Up and Feedback	Reminders for Day 2
17:00–18:30	Networking and Socials	Venue: KX Center

DAY 2: THURSDAY, 11 MAY 2023

Time	Agenda	Speaker / Presenter / Panelist / Facilitator
8:15-8:30	Registration	
8:30–8:45	Day 2 Keynote: Digital transformation, digital industry for higher education	Dr. Joseph Hage ((Virtual) Senior Digital Transformation Adviser, Global Consultant Topic of presentation: "Evaluating and Implementing Emerging Technologies to Improve the Quality of Learning and Student Outcomes in Higher Education."
8:45–9:35	Session 3: New Teaching and Learning Methodologies and Student Support Online higher education Micro credentials, Digital Badges Student Support (Career Guidance), Financial Support for Equity Using Digital Transformation for New Ways of Learning Prepare for the future of jobs, job demand from the job market. Use technology to do teaching and research.	Facilitator: Jian (Jeffrey) Xu Senior Education Specialist Sustainable Development and Climate Change Department, ADB Dr. Paulina Pannen Chairman, Board of Trustees, Terbuka University And former Director, Indonesia Cyber Education Institute Dr. Bundit Thipakorn Senior Vice President for Academic Affairs, KMUTT Dr. Shang Gao Asia Pacific Regional Director, AWS (Education) Prof. Elias Towe Engineering Professor, Carnegie Mellon University
9:35-9:55	Q&A	Facilitator: Jian (Jeffrey) Xu
9:55-10:15	COFFEE/TEA BREAK	
10:15–10:45	Session 4 (3 groups) Collaborative Curriculum Development in DT and GT Parallel session 4.1: Computer Science	Parallel sessions Parallel session 4.1 Facilitator: Jian (Jeffrey) Xu Senior Education Specialist Sustainable Development and Climate Change Department, ADB Dr. Sohel Rahman Bangladesh University of Engineering and Technology Dr. Marong Phadoongsidhi Assistant to the President for Property and Finance, KMUTT

Time	Agenda	Speaker / Presenter / Panelist / Facilitator
	Parallel session 4.2:	Parallel session 4.2 Facilitator: Jukka Tulivuori
	Climate Technology	Social Sector Specialist, Sustainable Development and Climate Change Department, ADB
		Dr. Shabbir Gheewala Professor, Joint Graduate School of Energy and Environment (JGSEE), KMUTT
		Lerwen Liu Associate Professor, NTU Entrepreneurship Academy (NTUpreneur)
	Parallel session 4.3: DT and GT Practices in Private Universities	Parallel session 4.3 Facilitator: Thi Thanh Van Nguyen Senior Investment Officer, Private Sector Operations Department
		Dr. Nguyen Trung Kien
		Vice President HUTECH
		Senior lecturer and professor of mechanics of CIRTech Institute of the University
		Dr. Ly Thien Trang Vice President
		Ho Chi Minh City University of Economics and Finances (UEF)
10:45–11:00	Q&A	Facilitators
11:00–11:50	Session 5: Transformative	Facilitator: Meekyung Shin
	Partnerships in Higher	Education Specialist
	Education for Innovation and	Sustainable Development and Climate Change Department, ADB
	Internationalization	
	 Government policy support 	Ms. Bui Thanh Hang
	 University Networks and Partnerships 	Officer in charge, International Cooperation, National Agency for Technology Entrepreneurship and Commercialization Development (NATEC)
	Qualification Recognition	Dr. Shaun Wellbourne-Wood Dean (ASEAN), Curtin University
		Dr. Reynaldo Vea President and CEO, Mapua University, Philippines
		Prof. Ha Wei
		Associate Professor/ Associate Dean, Graduate School of Education and Institute of Economics of Education, Peking University, UIL
11:50–12:10	Q&A	Facilitator: Meekyung Shin

Time	Agenda	Speaker / Presenter / Panelist / Facilitator	
12:10-13:30	NETWORKING LUNCH		
13:30–14:30	Group Discussion (to prepare for Group Presentation) Country Challenges and Strategy	Grouping by country	
14:30–15:00	WORKING BREAK		
15:00–16:30	Group Presentation Topic: Higher Education's role in Digital Transformation and Green Transition in the Context of each Developing Member Country	Facilitator: Fook Yen Chong Senior Social Sector Specialist (Skills Development) Southeast Asia Department, ADB 8 mins for each country presentation	
16:30–16:50	Policy guidance on the group presentations	ADB Country Focals	
16:50–17:00	Day 2 Wrap-Up and Feedback	Reminders for Day 3: Field Visits	

DAY 3: FRIDAY, 12 MAY 2023

Time	Agenda	Speaker / Presenter / Panelist / Facilitator
8:00	Assemble at Hotel Lobby	ADB to record attendance
8:00-9:00	Travel to KMUTT Bangkhunthien Campus	
9:00-9:05	Welcome Remarks [BRI 224]	Dr. Chawin Chantharasenawong Vice President for Internationalization, KMUTT
9:05-9:20	Overview of KMUTT Bangkhunthien Campus (KMUTT Science Technology & Education Park) [BRI 224]	Dr. Sansanalak Rachdawong Director of the National Biopharmaceutical Facility, KMUTT
9:20-10:00	KMUTT Bangkhunthien Campus - Living Lab for Sustainability: Highlights & Success Cases + International Collaboration (3F + 1P) [BRI 224]	 3F (Food, Feed, and Bio fuel) Dr. Annop Nopharatana 1P (Bio Pharma+ Microbiome) Dr. Sansanalak Rachdawong Renewable Energy and Environment Dr. Annop Nopharatana Community and Resource Management and Conservation Ecology (Community Resource Management + Royal Project Foundation and Kings Recommended Project Supporting Center + Conservation Ecology Group) Mr. Surain Thapanangkul
10:00-11:15	Breakout session for site visit (4 parallel groups)	 Group 1 Algae Biotechnology (AGB) Clean Energy System Integration (CESi) Remediation Laboratory (RMT) Group 2 National Biopharmaceutical Facility (NBF) Biopharmaceutical Characterization Laboratory (BPCL) Bioprocess Research and Innovation Center (BRIC) Group 3 Clean Energy System Solar Cells Testing Center (CSSC) Food Pilot Plant Facility @BRI Group 4 (School of Bioresources and Technology) Lipid Laboratory (LIPID) Yeast Innovation Enzyme Technology (ENZ) Pilot Plant for Fresh Cut Produce

8

Time	Agenda	Speaker / Presenter / Panelist / Facilitator	
11:15-12:00	Travel to KMUTT Main Campus (Bangmod)		
12:00-13:00	LUNCH		
13:00-13:15	Introduction to KMUTT Bangmod Campus & • Site visit program	 KMUTT4life: Micro-credentials¹ SDG policy: Carbon Neutrality 2040² OBE in practice: Institute of Field Robotics³ 	
13:15-14:00	Breakout session for site visit 1	Group 1, 3 - KMUTT4life Group 2 - OBE in practice Group 4 - SDG policy	
14:00-14:15	Switch groups / Transit time		
14:15-15:00	Breakout session for site visit 2	Group 2, 4 - KMUTT4life Group 1 - OBE in practice Group 3 - SDG policy	
15:00-15:15	COFFEE BREAK		
15:15-16:00	Brief reflections on field visits overall program & Final Feedback Survey	DMCs to share	
16:00-16:10	Closing Remarks	Shanti Jagannathan Principal Education Specialist concurrently Officer-in-Charge of Education Sector Group Sustainable Development and Climate Change Department, ADB Dr. Bundit Thipakorn Senior Vice President for Academic Affairs, KMUTT	
16:10-17:00	OO Travel by bus from KMUTT Bangmod campus to Hotel/ Airport		
	END of 3-day Regional Higher Education Forum		

¹ KMUTT4life: Micro-credentials: is a new business model to offer a flexible, bite-sized, and targeted approach to learning which can be customized to suit the needs of learners and for life-long learning. It is also used to transform education at KMUTT.

² SDG policy: Carbon Neutrality 2040: To be a smart and sustainable university and meet the energy and climate challenge by 2040 which are related to SDG 3, SDG 6, SDG 7, SDG 9, SDG 11, SDG 12, SDG 13, SDG 14, SDG 15 and SDG 17, KMUTT actively works on energy reduction, implementation of energy efficient appliances, renewable energy usage, climate change, and green area expansion. KMUTT's Pathway to Carbon Neutrality by 2040 will be shown together with research and innovation themes and other support to industry and society.

Outcome-based education (OBE) has been implemented to ensure quality of education offered at KMUTT. FIBO has adopted a full scale of OBE in their program. They offer a holistic approach to help students develop the knowledge and skills of robotics and automation at the undergraduate level and how to create an ecosystem to help the students develop desirable competences.