



APEC Closing the Digital Skills Gap Forum

JULY 15 - 16 2019 | SINGAPORE

Unilever Training Campus, Four Acres Singapore, 18 Nepal Park Singapore

FINAL

SUNDAY	14 July Arrival
18:00	Pre-Session Dinner – Long Beach @ Dempsey , 25 Dempsey Road Left turn to Dempsey via Holland Rd (before Peirce Rd) Singapore 249670
MONDAY	15 July 2019 Day 1
8:30 – 9:00	Registration and Arrival
9:00-9:10	Welcome Remarks <ul style="list-style-type: none"> Mr. Christopher Watson, Senior Advisor for APEC Affairs, International Labor Affairs Bureau, U.S. Department of Labor, <i>APEC Closing the Digital Skills Gap Forum Project Overseer</i> Prof. Dong Sun PARK, Lead Shepherd, APEC Human Resources Development Working Group
9:10 – 9:20	Participant Introductions
9:20 – 10:30	<p>Where have we been and where are we going? Presenting, finalizing, and beginning to implement a collaborative vision and roadmap for collective action in APEC to support efforts to upskill and reskill at scale</p> <p><i>Description: In 2018, experts from Project DARE identified a collaborative vision and eight elements of a Closing the Digital Skills Gap Roadmap. Forum Co-Chairs will present the vision and the roadmap. Forum participants are invited to comment and help refine the roadmap over the two day Forum, as well as identify accompanying metrics. Each session at the Forum will focus on one of the eight roadmap elements. In an effort to initiate a set of metrics, Wiley conducted a Digital Skills Gap Survey. Results of the survey will also be shared in this session.</i></p> <ul style="list-style-type: none"> Mr. Andrew Tein, Chief of Staff to the CEO, Vice-President of Global Government Affairs, Wiley, <i>APEC Closing the Digital Skills Gap Forum Co-Chair</i>; Ms. CJ Hwu, Director, Government Affairs, Asia Pacific, Wiley Dr. L. Isabel Cárdenas-Navia, Vice-President, Programs, The Business-Higher Education Forum (BHEF), <i>APEC Closing the Digital Skills Gap Forum Co-Chair</i> <p><i>Moderated by:</i></p> <ul style="list-style-type: none"> Ms. Patricia Wu, Managing Director, C&M International; Ms. Katherine Nunner, Consultant, C&M International, <i>APEC Closing the Digital Skills Gap Forum Secretariat</i>
10:30 – 10:40	<p>Roadmap Element #1: Set and pursue an ambitious APEC target to close the digital skills gap by 2025</p> <p><i>Description: Project DARE identified the need for political commitment and coordinated action across the highest levels of government, employers, and academia to close the digital skills gap. 51 percent of respondents to the Digital Skills Gap Survey indicated that current levels of coordination to close the digital skills gap at the highest levels of government, employers, and academia are weak or very weak. Chile, as 2019 APEC host has identified digital society as one of its themes. President Sebastián Piñera declared that for its APEC host year, “we will champion... people-centred development, in which the digital society equips our citizens with the right tools and skills to ensure they can participate to their full potential in this new economy...” In this session, representatives from Chile will outline these goals and how APEC can catalyze the roadmap elements towards closing the digital skills gap by 2025.</i></p>



	<ul style="list-style-type: none"> • Mr. Juan Eduardo CARMACH, Advisor, People Servicio Nacional de Capacitación y Empleo (National Training and Employment Service (Chile)
10:40 – 10:45	Group Photo
10:45 – 11:15	Coffee / Tea Break
11:15 – 12:30	<p>Roadmap Element #6: Share digital skills supply / demand data and insights to build understanding and</p> <p>Roadmap Element #4: Share how demand in digital skills are evolving in real time</p> <p><i><u>Description:</u> Project DARE called for improving understanding of the digital skills needs landscape, how that landscape is shifting, and implications for policy (Roadmap Element #6). In response, LinkedIn is championing a study in support of the Forum to examine digital skills demand / supply data to be shared in this session. 75 percent of respondents in the <u>Digital Skills Gap Survey</u> characterize the skills match between employers' needs and job seekers' talents for digital job placements as a very significant mismatch or mismatched. Academia also called to be kept abreast of the fast changing digital skills in demand by employers (Roadmap Element #4). At least 45 percent of respondents in the <u>Digital Skills Gap Survey</u> indicated that they do not update job requirements every year. This session will seek to understand if we appreciate the landscape of digital supply / demand data in order to make informed policy for employers, economies, and academia. And if not, what is inhibiting our understanding?</i></p> <p><i><u>Moderated by:</u></i></p> <ul style="list-style-type: none"> • Dr. L. Isabel Cárdenas-Navia, Vice-President, Programs, The Business-Higher Education Forum (BHEF), <i>APEC Closing the Digital Skills Gap Forum Co-Chair</i> <p><i><u>Discussants:</u></i></p> <ul style="list-style-type: none"> • Mr. Olivier Legrand, Asia Pacific Managing Director, LinkedIn • Ms. Lydia Cheng, Associate Director, Learning Design Solutions, Wiley • Mr. Ma Leju, Head of International Government Affairs, DiDi
12:30 – 14:10	Lunch
14:10 – 15:30	<p>Roadmap Element #3: Share government statistical methodologies that can help close the digital skills gap</p> <p><i><u>Description:</u> Project DARE identified the need for government statistics to help close the digital skills gap. 41 percent of respondents to the <u>Digital Skills Gap Survey</u> ranked their government's understanding of the digital skills landscape as weak or very weak. This session will share best practices from how governments are tracking the data needed to prepare the workforce for the future of digital skills jobs. What statistical methodologies should governments employ?</i></p> <p><i><u>Moderated by:</u></i></p> <ul style="list-style-type: none"> • Mr. Christopher Watson, Senior Advisor for APEC Affairs, International Labor Affairs Bureau, U.S. Department of Labor, <i>APEC Closing the Digital Skills Gap Forum Project Overseer</i> <p><i><u>Discussants:</u></i></p> <ul style="list-style-type: none"> • Ms. Layla O'Kane, Senior Research Analyst, Burning Glass Technologies • Mr. Harry Edmund Moroz, Economist, World Bank Malaysia • Mr. Michael Lau, Director, New South Wales (NSW) Department of Industry, Australia • Mr. Tran Ngoc Ahn, Director, Vietnam Initiative, Indiana University; Advisor to the Prime Minister of Vietnam • Dr. Gog Soon Joo, Chief Futurist and Chief Research Officer, SkillsFuture Singapore
15:30 – 16:00	Coffee / Tea Break



16:00 – 17:00	Day 1 Conclusion
17:00	Welcome Reception <u>Opening Remarks</u> <ul style="list-style-type: none"> Mr. Ng Cher Pong Chief Executive, SkillsFuture Singapore Deputy Secretary (SkillsFuture), Ministry of Education

TUESDAY	16 July Day 2
8:30 – 9:00	Networking coffee/Tea
9:00 – 9:15	Summary and Day 2 Welcome
9:15 – 10:30	<p>Roadmap Element #5: Share innovative models and high impact investments in digital upskilling and reskilling</p> <p><i>Description:</i> Project DARE identified the need to share innovative models and high impact investments in digital upskilling and reskilling. The Philippines is piloting an ambitious model to train 30,000 workers over three years led by the Analytics Association of the Philippines (AAP), which was also one of the first models to implement the Recommended APEC Data Science & Analytics Competencies. This session will highlight the work in the Philippines and other innovative models in high impact investments in digital upskilling and reskilling.</p> <p><i>Discussants (Part 1):</i></p> <ul style="list-style-type: none"> Dr. Eugene Rex Jalao, Associate Professor, University of the Philippines Dilliman Dr. Enrico Paringit, Executive Director, Department of Science and Technology (DOST); Philippine Council for Industry, Energy, and Emerging Technology Research and Development (PCIEERD) Mr. Allan de Venecia, CEO and Founder, moocs.ph <p><i>Discussants (Part 2):</i></p> <ul style="list-style-type: none"> Mr. Chris Gray, Vice President, Education APAC, Wiley Mr. Juan Eduardo Carmach, Advisor, People Servicio Nacional de Capacitación y Empleo (National Training and Employment Service (Chile) Ms. Ashley Woods, Brand Marketing Manager, APAC, Google <p><i>Moderated by:</i></p> <ul style="list-style-type: none"> Mr. Sherwin Pelayo, Board and Co-Founder, Analytics Association of the Philippines (AAP)
10:30 – 11:20	<p>Roadmap Element #2: Capacity building, networks, and tools to support/increase digitally enabled faculty</p> <p><i>Description:</i> Project DARE acknowledged that one of the barriers to digital skills development is that teachers and faculty are not empowered to incorporate Data Science and Analytics (DSA) into classrooms, including at elementary and secondary levels. 62 percent Digital Skills Gap Survey respondents indicated that faculty and teachers are not enabled to incorporate DSA into classrooms. This session will feature Hong Kong University Science and Technology School of Business and Management (HKUST) who under leadership of Dr. Kar Yan Tam, have leveraged the Recommended APEC Data Science & Analytics Competencies to inform curriculum in data science and technology, including a full undergraduate degree track. Is an understanding of existing capacity building networks and tools needed? Is what exists fit for purpose? This session will delve into how APEC can support building capacity for faculty.</p>



	<p><u>Moderated by:</u></p> <ul style="list-style-type: none"> • Dr. Kar Yan Tam, Dean and Chair Professor of the School of Business and Management, Hong Kong University of Science and Technology <p><u>Discussants:</u></p> <ul style="list-style-type: none"> • Mr. Jeff Goss, Associate Vice Provost, SE Asia Programs, Arizona State University • Professor Lim Sun Sun, Professor and Head of Humanities, Arts and Social Sciences, Singapore University of Technology and Design and Nominated Member of Parliament • Mr. Damian Haas, Regional Director, Oracle Academy, JAPAC • Dr. Lieven Demeester, Director, Centre for Teaching Excellence, Singapore Management University
11:20 – 11:35	Coffee / Tea Break
11:35 – 12:05	<p>Roadmap Element #7: APEC Compendium of digital skills definitions to promote increased coordination</p> <p><u>Description:</u> Project DARE identified the need for clear signals among employers, job seekers and academia for efficient job placement and reduced skills mismatch. A compendium of digital skills definitions might reduce the signaling “noise” and “skills mismatch”. Such a compendium could also allow academia to better understand the digital skills in demand. This session will discuss the inputs needed to begin to develop the APEC Compendium.</p> <p><u>Moderated by:</u></p> <ul style="list-style-type: none"> • Mr. Andrew Tein, Chief of Staff to the CEO, Vice-President of Global Government Affairs, Wiley, APEC Closing the Digital Skills Gap Forum Co-Chair <p><u>Discussants:</u></p> <ul style="list-style-type: none"> • Dr. Ethel Agnes P Valenzuela, Director, Southeast Asian Ministers of Education Organization (SEAMEO) Secretariat • Dr. Lim Lai Cheng, Executive Director, SMU Academy, Singapore Management University • Ms. Debbie Hughes, Senior Advisor, Entangled Solutions
12:05 – 13:05	Lunch
13:05 – 14:00	<p>Roadmap Element #8: Share insights /approaches to equipping workers to ethically work with data</p> <p><u>Description:</u> According the <i>Digital Skills Gap Survey</i>, 69 percent of respondents state that they are not confident that today’s workers are equipped to ethically work with data. How do we ensure workers are not only skilled in their ability to work with data – but also skilled in their ability to work ethically with data? As AI and algorithms become more pervasive, we need workers who think about the broader implications of an algorithm, address bias, and are able to spot false data. The objective is to discuss and identify ways in which APEC can uniquely support efforts to equip workers to ethically work with data. What specific APEC deliverables can help equip workers to ethically work with data? (e.g. Principles, report, study)</p> <p><u>Moderated by:</u></p> <ul style="list-style-type: none"> • Mr. Christopher Watson, Senior Advisor for APEC Affairs, International Labor Affairs Bureau, U.S. Department of Labor, APEC Closing the Digital Skills Gap Forum Project Overseer <p><u>Discussants:</u></p> <ul style="list-style-type: none"> • Dr. Sintia TEDDY ANG, Director, Strategic & Synergetic Programmes, AI Singapore • Dr. Meri Rosich, Chief Data Officer, VP / Head of Data Science APAC, Visa • Mr. Raju Chellam, Vice President, New Technologies, Fusionex



14:00 – 15:00	Concluding Session: Reviewing / Updates to Roadmap, Finalizing Roadmap for Submission to HRDWG
15:30 – 18:15	OPTIONAL: Tour of Nanyang Technological University, Singapore (NTU Singapore) (shuttle provided from 4 Acres and back to Mandarin Orchard)

Figure 1 – Closing the Digital Skills Gap Roadmap

