

ROK-US Science & Tech Partnership on Critical Technologies Dialogue

VENUE: Ala Moana Hotel
Dates: November 9-10, 2022

DAY 1 AGENDA	
8:30 – 9:00	<p>Doors open for registration Breakfast <i>Plumeria Room, Ala Moana Hotel</i></p>
9:00 – 9:30	<p>Welcome and opening remarks</p> <ul style="list-style-type: none"> ● Dr. David Santoro, President and CEO, Pacific Forum ● Consul General Hong Seok-in, Consulate General of the Republic of Korea, Honolulu
GROUP PHOTO	
9:30 – 10:45	<p>Session 1: Overview of US-South Korea Tech Cooperation</p> <p>This session will provide the overview of the two-day workshop. It will outline the four central questions that will guide the reflection and the deliberation among participants throughout the workshop as they dive deeper into each specific topic. The session will also recap the salient points discussed in the three virtual sessions held in the lead-up to this workshop.</p> <ol style="list-style-type: none"> 1. What is the current state of the US-South Korea Science & Tech partnership on Critical Technologies? 2. What are the existing policy mechanisms in place that underpin cooperation? Where are gaps and frictions that may stifle collaboration? 3. How can the US and South Korea maximize the opportunities and minimize the challenges of the Fourth Industrial Revolution amid the fragmentation of global supply chains, deepening bifurcation of international technical standards, and geostrategic volatility? 4. How can the US and South Korea achieve policy alignment and synergy to spur deeper research and development collaboration on AI and robotics, semiconductors, and cybersecurity and 5G/6G? <p><i>Moderator & Speaker:</i> Mr. Mark Manantan, Director of Cybersecurity and Critical Technologies, Pacific Forum</p>
10:45 – 11:00	Morning break

11:00 – 12:30	<p>Session 2: Semiconductors</p> <p>In this session, speakers will probe the opportunities and challenges that underpin greater coordination between the US and South Korea on the research, design, and manufacturing of semiconductors amid calls to establish the "Fab 4" alliance. While policy mechanisms are unfolding to facilitate a US-ROK technological alliance on critical technologies such as semiconductors, commitments are still far from solid. In this session, speakers will analyze the feasibility of a stronger US-South Korea technological alliance on semiconductors – recognizing the complex web of interests at play between the US, South Korea, other regional players, and the semiconductor industry.</p> <p>Guiding questions:</p> <ul style="list-style-type: none"> ● What are potential gaps and frictions that could hamper collaboration on the research, design, and manufacturing of semiconductors from the viewpoint of the US and South Korea? How can Washington and Seoul close such gaps? ● What are the merits of "friend-shoring" in the context of the Fab 4 alliance? ● What are the potential implications of the Fab 4 alliance for American and South Korean semiconductor companies given their longstanding and complex interests in China? <p><i>Moderator:</i> Dr. Sungmin Cho, Asia-Pacific Center for Security Studies</p> <p><i>Speakers:</i></p> <ul style="list-style-type: none"> ● Dr. June Park, Princeton University ● Mr. Rob York, Director for Regional Affairs, Pacific Forum
12:30 – 1:30	LUNCH
1:30 – 3:00	<p>Session 3: Cybersecurity and 5G/6G</p> <p>This session will dissect the close relationship between 5G networks—and the development of its successor 6G—and cybersecurity from the viewpoint of cyber threat mitigation and cyber resilience. As the majority of 5G features are built around an all-software network, its deployment requires a physical overhaul, with upgrades like those in smartphone operating systems. Due to the cyber risks and vulnerabilities inherent in software, however, how to secure 5G networks is an ongoing challenge. In this session, speakers will grapple with the expansion of the threat surface as 5G/6G props up an ecosystem made of highly interlinked devices such</p>

	<p>as internet of things and other artificial intelligence-enabled technologies, challenging traditional notions of cybersecurity.</p> <p>Guiding questions:</p> <ul style="list-style-type: none"> • What are the potential implications of 5G/6G for the cyber threat landscape? • Given the ongoing deployment of 5G and the development of 6G, how can the US and South Korea upgrade their existing cyber cooperation to address the evolving nature of cyber-attacks against critical national infrastructure and the proliferation of malware and/or ransomware? • How can the US and South Korea cultivate a culture of trust among stakeholders in the public and the private sectors to improve threat information sharing and encourage greater cybersecurity investments? <p><i>Moderator:</i> Dr. Kristi Govella, University of Hawaii <i>Speakers:</i></p> <ul style="list-style-type: none"> • Dr. Lami Kim, US Army War College • Dr. John Park, Harvard Kennedy School's Belfer Center
3:00 – 3:15	Afternoon break
3:15 – 3:30	Wrap-up / End of Day 1
6:00 - 8:00	Dinner <i>Mariposa, Ala Moana Center</i>

DAY 2 AGENDA	
8:30–9:00	<p>Doors open for registration Breakfast <i>Plumeria Room, Ala Moana Hotel</i></p>
9:00–9:30	Day 1 Recap
9:30–11:00	<p>Session 4: AI and Robotics</p> <p>In this session, speakers will examine how the US and South Korea can leverage their comparative advantages to enhance public and private partnerships to promote collaboration in artificial intelligence (AI) and relatedly, robotics. The US and South Korea are confronted with a myriad of technical, policy, legal and operational challenges in these domains. For example, AI's lack of transparency may exacerbate existing social inequities, and Adversarial AI presents new risks and vulnerabilities.</p>

	<p>Guiding questions:</p> <ul style="list-style-type: none"> ● How can the US and South Korea foster the exchange of talent and technology to develop transparent and reliable AI-enabled technologies? ● What specific measures can the US and South Korea adopt to alleviate fears and anxiety among public and private sector stakeholders surrounding the development of autonomous weapons? ● How can the US and South Korea broaden their bilateral cooperation to support a multi-stakeholder and multilateral approach to AI standards and robotics? <p><i>Moderator:</i> Mr. Mark Manantan, Director of Cybersecurity and Critical Technologies, Pacific Forum</p> <p><i>Speakers:</i></p> <ul style="list-style-type: none"> ● Ms. Alexandra Seymour, Center for a New American Security ● Dr. Boyoung Kim, George Mason University
11:00—11:15	Morning break
11:15—11:45	Reflections and Next Steps
11:45–11:50	<p>Closing remarks/Wrap-up</p> <ul style="list-style-type: none"> ● Dr. Soyoung Kwon, George Mason University Korea
12:00	<p>End of Day 2/Lunch <i>Jade Dynasty Seafood Restaurant, Ala Moana Center</i></p>