

# SINGAPORE DEFENCE TECHNOLOGY SUMMIT

26-28 June 2019



## PROLIFERATION OF TECHNOLOGY AND ITS IMPLICATIONS ON DEFENCE, SECURITY AND SOCIETY

*Keynote Address by*

**Mr Teo Chee Hean**

Senior Minister and Coordinating Minister for National Security, Singapore

*Welcome Address by*

**Dr Ng Eng Hen**

Minister for Defence, Singapore

The advent of new technology has increased the complexity of the global defence and security landscape. The Defence Science and Technology Agency will be hosting the **Singapore Defence Technology Summit (Tech Summit) 2019** to expand on insights gained from the 2018 inaugural summit with the theme “Impact of the 4th Industrial Revolution on Defence and Security”.

For Tech Summit 2019, we will examine domains such as artificial intelligence, sensors and drones pioneered by the military but rapidly adopted for commercial use, and discuss how these developments will impact defence, security and society. We will also explore how breakthroughs in neuroengineering and space will shape our future, and more.

Attendees include:

- Defence technology policy makers
- National Armament Directors and Chief Technology Officers
- Government Chief Technology Officers
- Chief Executive Officers and Chief Technology Officers from the industry
- Thought leaders from academia and think tanks.

# P R O G R A M M E

Wednesday 26 June 2019

- 1800hrs **Networking Cocktail and Opening Dinner**  
**Welcome Address** by **Dr Ng Eng Hen**, Minister for Defence, Singapore

Thursday 27 June 2019

- 0900hrs **Opening Remarks**

- 0910hrs **Keynote Address** by **Mr Teo Chee Hean**, Senior Minister and Coordinating Minister for National Security, Singapore

- 0930hrs **Conversation with CEOs**

*Moderator:* **Prof Alberto Sangiovanni-Vincentelli**, The Edgar L. and Harold H. Buttner Chair, Department of EECS, University of California, Berkeley

*Speakers:*

- **Ms Leanne Caret**, Executive Vice President, The Boeing Company, President and CEO, Boeing Defense, Space & Security
- **Mr Vincent Chong**, President and CEO, ST Engineering
- **Mr Dirk Hoke**, CEO, Airbus Defence and Space

- 1030hrs **Tea Break**

- 1100hrs **Panel Discussion - Will Artificial Intelligence Make Soldiers Smarter?**

*Moderator:* **Dr Brian Pierce**, Office Director, Information Innovation Office, Defense Advanced Research Projects Agency, US Department of Defense

*Speakers:*

- **Dr Yaniv Altshuler**, Co-Founder and CEO, Endor
- **Dr Joel Brynielsson**, Research Director, Swedish Defence Research Agency
- **Mr Amir Husain**, Founder and CEO, SparkCognition

- 1230hrs **Lunch**

- 1400hrs **Panel Discussion - Can Smart and Secure Co-Exist?**

*Moderator:* **Mr Bill Chang**, Country Chief Officer, Singapore and CEO, Group Enterprise, Singapore Telecommunications Ltd

*Speakers:*

- **GEN (Ret.) Keith Alexander**, Founder, Chairman and Co-CEO, IronNet Cybersecurity
- **Dr Vivian Chan**, Co-Founder and CEO, Sparrho
- **Dr Chen Ning**, Chairman and CEO, Shenzhen Intellifusion Technologies Co., Ltd
- **Mr Tim Hwang**, Director, Harvard-MIT Ethics and Governance of AI Initiative
- **Mr Siim Sikkut**, Chief Information Officer, Government of Estonia

- 1530hrs **Tea Break**

- 1600hrs **Panel Discussions (Concurrent) - The Good and Bad of Drones**

*Moderator:* **Ms Ngiam Le Na**, Deputy Chief Executive (Operations), Defence Science and Technology Agency

*Speakers:*

- **Prof Dario Floreano**, Director of Laboratory of Intelligent Systems, Swiss Federal Institute of Technology Lausanne and Director, Swiss National Center of Competence in Robotics
- **Mr Florian Guillermet**, Executive Director, Single European Sky ATM Research Joint Undertaking
- **Mr Adam Welsh**, Head of Public Policy, APAC, DJI

OR

### Will Small Outdo Big in Space?

*Moderator:* **Prof Sir Martin Sweeting**, Founder and Group Executive Chairman, Surrey Satellite Technology Ltd

*Speakers:*

- **Dr Liao Shengkai**, Senior Engineer, University of Science and Technology of China
- **Mr Robbie Schingler**, Co-Founder and Chief Strategy Officer, Planet
- **Mr Lionel Suchet**, Chief Operating Officer, France's Centre National d'Etudes Spatiales
- **Mr Yonatan Winetraub**, Co-Founder, Spacell

OR

### The Brain as the Next Frontier

*Moderator:* **Dr Anthony Tether**, Former Director, Defense Advanced Research Projects Agency, US Department of Defense

*Speakers:*

- **Prof Alexander Kaplan**, Head of Laboratory and Professor, Moscow State University
- **Honorable Zachary J. Lemnios**, Vice President, Government Programmes, IBM
- **Dr Geoffrey Ling**, Professor of Neurology, Johns Hopkins University
- **Dr Shinji Nishimoto**, Senior Researcher, Japan's National Institute of Information and Communications Technology
- **Dr Eunsoo Shim**, Senior Vice President, Samsung Electronics

1730hrs End of Panel Discussions

1830hrs **Networking Cocktail and Dinner at MONTI At Fullerton Pavilion**

## Friday 28 June 2019

0900hrs

### One-on-One Dialogue

*Moderator:* **BG Gaurav Keerthi**, Assistant Chief Executive, Cyber Security Agency of Singapore

*Speaker:*

- **Dr Steven H. Walker**, Director, Defense Advanced Research Projects Agency, US Department of Defense

0930hrs

### Panel Discussion - Are Agile Defence Establishments Possible?

*Moderator:* **Ms Gayle Chan**, Director Digital Hub, Defence Science and Technology Agency

*Speakers:*

- **Dr Emmanuel Chiva**, Director, French Defense Innovation Agency
- **Dr Hirokazu Hokazono**, Deputy Commissioner and Chief Defense Scientist, Acquisition, Technology & Logistics Agency, Japan Ministry of Defense
- **Dr Hong Won-Pyo**, President and CEO, Samsung SDS
- **Mr Chris Lynch**, Former Director and Founder, Defense Digital Service, US Department of Defense
- **Dr Will Roper**, Assistant Secretary of the Air Force for Acquisition, Technology and Logistics, US Department of Defense

1100hrs Tea Break

1130hrs

### Summary Plenary

*Moderator:* **Prof Daniel Hastings**, Head, Aeronautics and Astronautics Department, Massachusetts Institute of Technology

*Speakers:*

- **Dr Eric D. Evans**, Director, Lincoln Laboratory, Massachusetts Institute of Technology
- **Mr Lim Chuan Poh**, Chairman, Singapore Food Agency
- **BG (Res.) Prof Jacob Nagel**, Visiting Professor, Technion-Israel Institute of Technology
- **Prof Alex Zelinsky, AO**, Vice-Chancellor and President, University of Newcastle

1300hrs

Lunch

1430hrs

### Technology Visits

- Defence Science and Technology Agency
- DSO National Laboratories
- Singapore Armed Forces' Sites
- Agency for Science, Technology and Research's FusionWorld
- Maritime and Port Authority of Singapore's Port Operations Control Centre and Living Lab
- ST Engineering's Smart Solutions
- Thales' Digital Identity and Security Solutions



✉ [techsummit@dsta.gov.sg](mailto:techsummit@dsta.gov.sg)

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**Conference Venue: Shangri-La Hotel, Singapore**

*Information correct at time of print.*