

SCIENCE & TECHNOLOGY DIPLOMATIC CIRCLE (S&TDC) BRIEFING SESSION

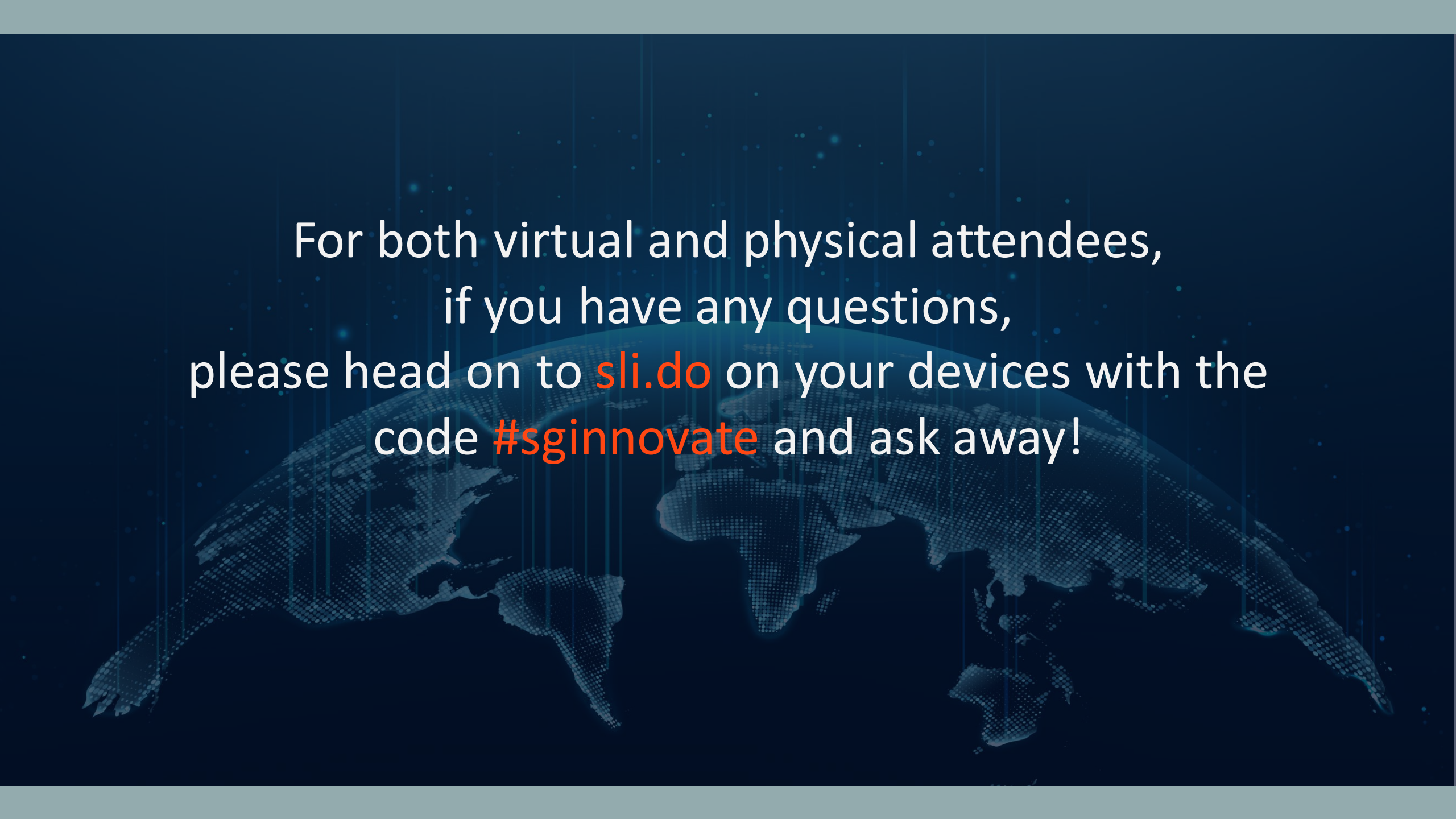
By Invitation

4 March 2021 | 3:00pm – 4:00pm (Singapore Time / UTC +8)

32 Carpenter Street, Singapore 059911

Presented By:



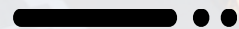


For both virtual and physical attendees,
if you have any questions,
please head on to sli.do on your devices with the
code [#sginnovate](#) and ask away!

An aerial view of Singapore's skyline at sunset, with the city lights beginning to glow against the orange and yellow sky. The Marina Bay Sands hotel is prominent in the foreground, and the city extends to the horizon.

BUILDING DEEP TECH INNOVATIONS *A SINGAPORE PERSPECTIVE*

Briefing Session to the Science & Technology Diplomatic Circle
4 March 2021



SzeKi Sim

Executive Director of Community & Brand

SGInnovate



What is 'Deep Tech'

Why is it critical we build new
Deep Tech companies?



We define Deep Tech as having a highly-technical foundation, often borne out of science and research

A dark blue world map is visible in the background of the slide.

Deep Tech is needed
given the challenges we face now —
— ..

Food

Water

Health

Security

Education



Singapore's **Deep Tech** Economy

Investment Money in Singapore



Singapore's Fixed Asset Investments

S\$17.2 billion

2020

SGInnovate's Investments

S\$50 million

2017-2020

Catalysed Funding Rounds

S\$700 million

2017-2020



Research, Innovation & Enterprise Funding in Singapore

S\$13.5 billion

2006 - 2010

S\$16 billion

2011 - 2015

S\$19 billion

2016 - 2020

S\$25 billion

2021 - 2025

Engineering and Science Talent

...



9,066

Health Science, Medical,
Engineering, Information
Technology, Physical and
Mathematical Sciences
graduates in **2009**



12,053

Health Science, Medical,
Engineering, Information
Technology, Physical and
Mathematical Sciences
graduates in **2019**



**The enabling environment to build
Deep Tech innovation is available**



But it continues to be
a complex endeavour.

Why?

More ingredients are needed



Deep Tech
specific
funding



Domain
Talent



Different
Mindset



Shortened time
to Market

The background features a large, faint watermark of the SGInnovate logo. The logo consists of a stylized 'S' and 'G' formed by several parallel diagonal lines in shades of red and grey. Below the logo, the word 'SGINNOVATE' is written in a light grey, sans-serif font.

At SGInnovate,
we pull these
ingredients together



Our Mission:

Help scientists build Deep Tech startups

Our Purpose:

The world has hard problems to solve,
and hard-tech answers are needed.

We help entrepreneurial scientists who want
to solve hard problems build companies.

SGINNOVATE BOARD

CHAIRMAN



Ms Yong Ying-I
Permanent Secretary,
Ministry of
Communications and
Information



Mr Png Cheong Boon
CEO,
Enterprise Singapore



Mr Jean-Luc Butel
Global Healthcare Advisor



Mr Foo Jixun
Managing Partner,
GGV Capital



Mr Jeremy Kranz
SVP & Head,
Technology Growth,
Government of Singapore Investment
Corporation



Professor Low Teck Seng
CEO,
National Research Foundation,
Prime Minister's Office,
Singapore



Dr Robert JT Morris
Chief Technology
Strategist, Ministry of
Health Office for
Healthcare
Transformation, and
Professor, School of
Medicine, National
University of Singapore

OUR LEADERSHIP



Dr Lim Jui
Chief Executive Officer



Mr Pang Heng Soon
Chief Operating Officer
(COO)



Ms SzeKi Sim
Executive Director,
Community & Brand

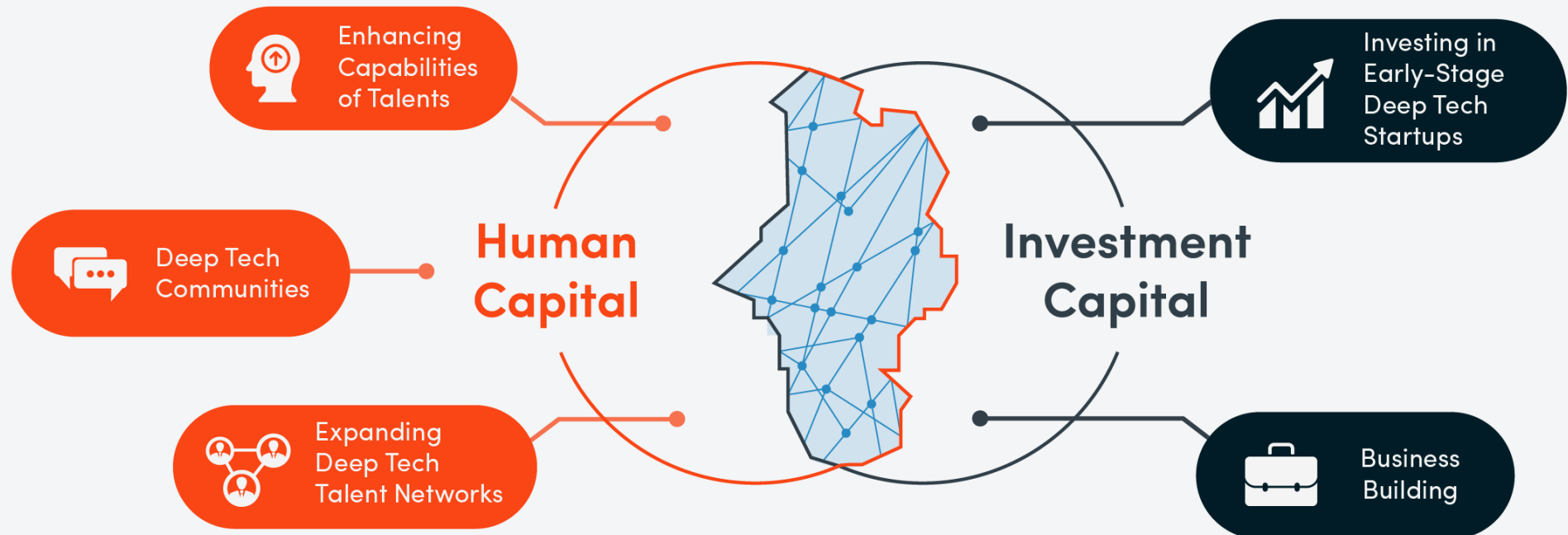


Mr Tong Hsien-Hui
Executive Director,
Investments

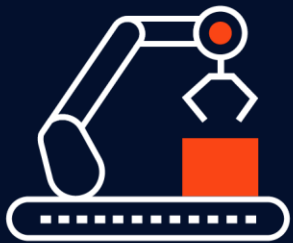


Ms Juliana Lim
Executive Director,
Talent Networking

DEEP TECH NEXUS STRATEGY



OUR FOCUS AREAS



**Advanced
Manufacturing**



AgriFoodTech



AI



Autonomous Tech



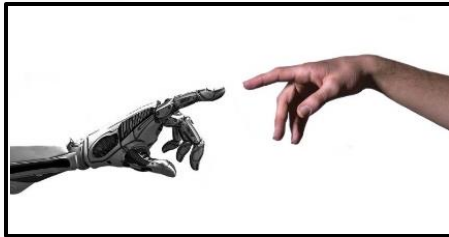
MedTech



Quantum

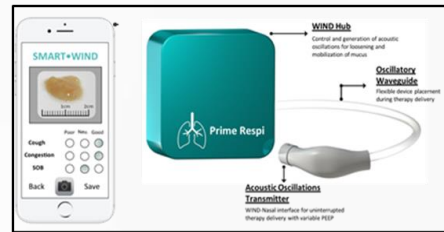
Some teams we are working with

AiTacnology



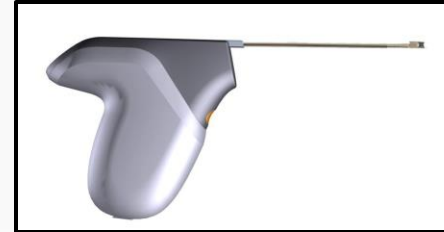
Ultra-sensitive AI-enabled electronic skin that will give robots a human-like sense of touch.

WIND



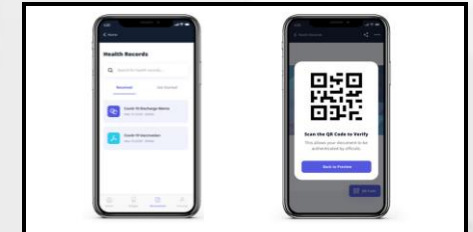
A MedTech device that uses acoustic vibrations delivered through the nose to automate treatment for patients suffering from chronic mucus issues.

CLIKX



Minimally invasive point and click device to treat “glue-ear” using local anaesthetic.

Digital Health Passport



The DHP is the first blockchain-powered solution to issue secure, tamper-proof digital COVID-19 medical records at scale.



AI-powered health analytics ecosystem



Knowledge worker automation solutions



Computational protein design platform for F&B applications



AI and computational modelling solutions for better stroke prediction



Digital identity solutions for financial inclusion



Autonomous delivery robots



Precision oncology with liquid biopsy tech



Trade services for complete supply chain solution



Quantum key distribution for secure communication

BUILDING DEEP TECH COMMUNITIES

Helping to grow Singapore's Deep Tech economy through **knowledge-sharing conversations and collaborations** among startups and corporates, researchers and venture builders, government and international partners

The topics are curated with **strong alignment to the RIE2025 strategy and future economy** mandate

LARGEST AND FASTEST-GROWING DEEP TECH COMMUNITY IN SINGAPORE

3,500+

PhD Experts in AI, Medtech, Quantum Technologies, and more

600+

Deep Tech Events

60,000+

Community Event Attendees since 2016

100+

Partners



DEEP TECH FOR GOOD

Global Initiative Committed to Harnessing
Science and Technology to Improve the Human
Condition



Signature Events



Leaders Conversations



Innovation Challenges



DEEP TECH SUMMIT

8 December 2020
Tuesday

9 December 2020
Wednesday

10 December 2020
Thursday

FIRING UP THE QUANTUM FUTURE
Online Event
8 December 2020 | 11:00am – 12:00pm (Singapore Time / UTC +8)
Presented by SFF x SWITCH 2020

DEEP TECH SUMMIT
at SFF x SWITCH 2020

DRIVING DIGITAL SOLUTIONS IN MANUFACTURING
Online Event
10 December 2020 | 10:00am – 11:00am (Singapore Time / UTC +8)
Presented by SFF x SWITCH 2020, Singtel, FutureNow
In Conjunction with SFF x SWITCH 2020

“Deep Tech Summit really brings the ecosystem together, brings opportunities together, and most importantly, brings the network together.”



Bicky Bhangu, Rolls-Royce
Speaker at Deep Tech Summit

“It is a very exciting agenda at Deep Tech Summit. It also underscores the ability that Singapore has to draw in a lot of exciting people. And I’m very happy that one of your partners is Norway.”



Ambassador Anita, Norway
Partner of Deep Tech Summit

“Deep Tech Summit is a very interesting event to me. It marries scientific exploration and breakthrough with delivery of technology to enhance people’s lives. So that’s something that resonates very well with what we do, blockchain, because blockchain lowers the barriers to bring value to people.”



Joseph Lubin
Speaker at Deep Tech Summit

Encouraging Top Technical Talents to Consider Deep Tech Startups

TO GREAT STARTUPS NOTCH TALENT

— . . .

INFINITY SERIES

A Deep Tech Immersion Programme that places motivated students in vital roles within technical teams and curates a meaningful development journey for them, in areas such as software development, data analytics, data engineering and UI / UX design, etc.

SUMMATION PROGRAMME

An apprenticeship programme that places top talent into high-potential Deep Tech projects in the fields of Artificial Intelligence, Cybersecurity, IoT, Robotics, and Quantum Computing.

POWER X

A Deep Tech Traineeship Programme that equips individuals with the expertise to embark on a new career in Deep Tech. The programme stays true to Singapore's focus on upskilling talent to contribute in high-demand roles.

TALENT MARKETPLACE

SGInnovate is continuously seeking out the best Deep Tech talent, creating a marketplace where talent and startups can connect fruitfully.

NEW FRONTIER

Deep Tech Opportunities and Jobs

More Exciting Opportunities and Jobs

Grace Chia,
CEO, BeeX Autonomous Systems



“ One’s mindset is the most important as technical skills can be trained. When you work in the technology space, there are no right answers so you have to be able to deal with uncertainty and failure.”



Assoc Prof Ang Wei Tech,
Rehabilitation Research
Institute of Singapore, NTU

“ Embrace things that are beyond what you have learnt. Embrace lifelong learning. Multi-disciplinary is the key to ride the wave.”



“ Deep Tech remains a bright spot with a promising future. It will be the engine to power future industry growth. The sector’s growth translates into exciting career opportunities for Singaporeans.”

Mr S. Iswaran
Minister for Communications and Information



1700+

Attendees

200+

Jobs & Apprenticeship
Opportunities

36

Speakers

30

Exhibitors

10

Segments



SAVE-THE-DATE

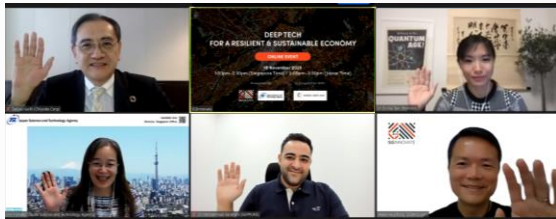
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APRIL 2021

How SGIinnovate and S&TDC may collaborate

SELECTED PARTNERSHIPS

Content & Event Series Partners



Investments

- Deal flow of Deep Tech startups
- Investment into Singapore's Deep Tech startups

Community

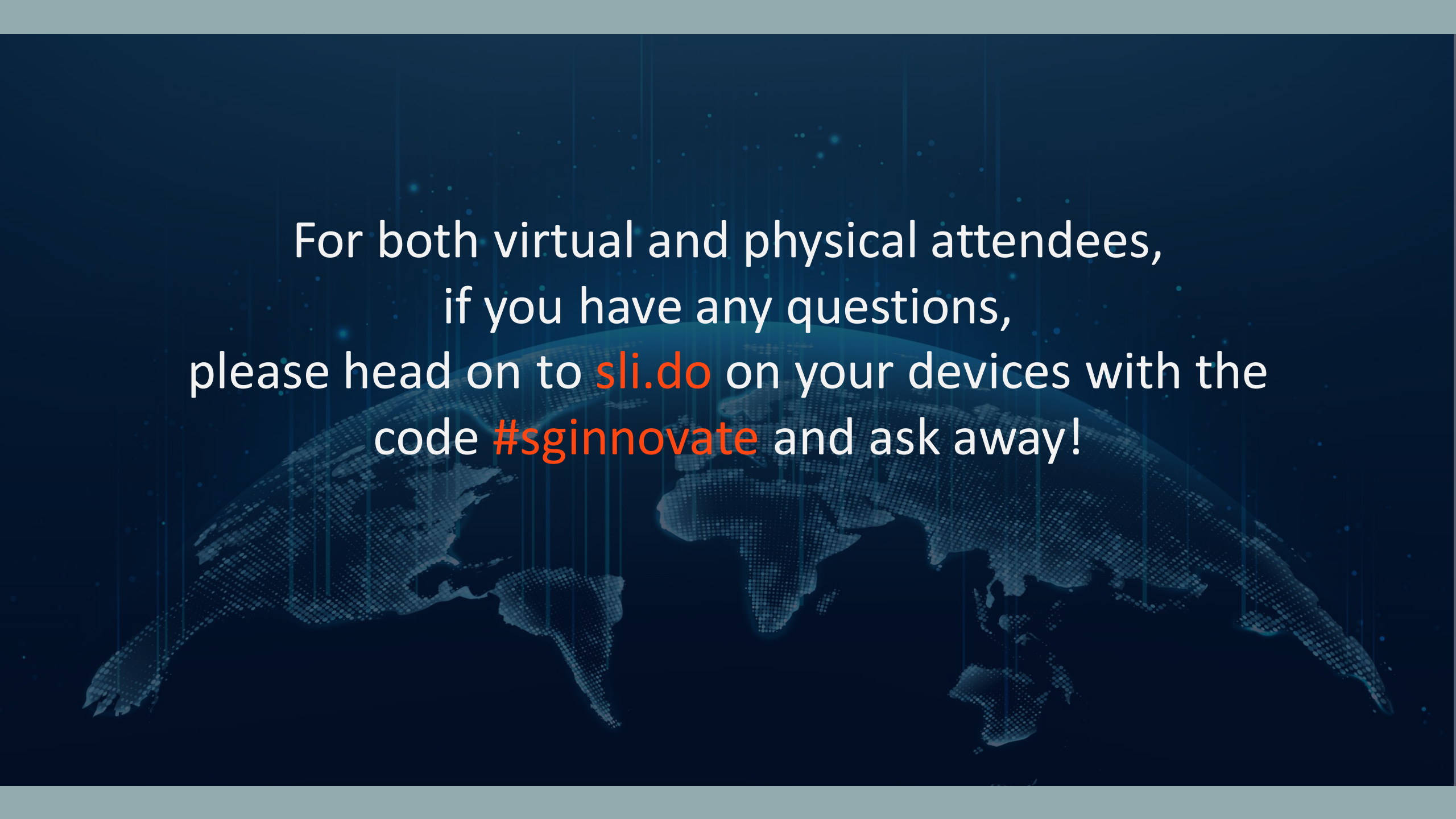
- Deep Tech knowledge sharing (events, interviews)
- Open Innovation initiative: Corporate roundtables, Reverse pitches

Talent

- Students from overseas universities to participate in SGInnovate's talent programmes



Building Deep Tech Startups From Singapore,
For The World.



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code [#sginnovate](https://twitter.com/sginnovate) and ask away!