

# Singapore Startup Ecosystem

## Singapore's rankings in global indices and economic data

**1st**

- World Economic Forum's Competitiveness Index, 2019<sup>61</sup>
- World Bank's Human Capital Index, 2018
- Investment environment in Legatum Prosperity Index, 2020<sup>62</sup>

**2nd**

- World Bank's Doing Business Ranking, 2020<sup>63</sup>
- IMD World Digital Competitiveness Ranking, 2019
- Bloomberg Innovation Index, 2021<sup>64</sup>

**3rd**

Foreign direct investment, net inflows (BoP, current USD)<sup>65</sup>

**8th**

Global Innovation Index, 2020<sup>66</sup>

**9th**

Human Development Index, 2019<sup>67</sup>



<https://openknowledge.worldbank.org/handle/10986/35328>

<sup>61</sup> Schwab, Klaus. "The Global Competitiveness Report 2019". World Economic Forum, October 8, 2019. [http://www3.weforum.org/docs/WEF\\_TheGlobalCompetitivenessReport2019.pdf](http://www3.weforum.org/docs/WEF_TheGlobalCompetitivenessReport2019.pdf)

<sup>62</sup> Legatum Prosperity Index. Singapore ranks first in terms of investment environment, market access and infrastructure, health, education. Legatum Institute, 2020, accessed March 12, 2021. [https://prosperitysite.s3-accelerate.amazonaws.com/6915/8634/9288/The\\_Legatum\\_Prosperty\\_Index\\_2019\\_Overview.pdf](https://prosperitysite.s3-accelerate.amazonaws.com/6915/8634/9288/The_Legatum_Prosperty_Index_2019_Overview.pdf) Please note that the 2020 data is already available where Singapore scales up to the 15th overall position: <https://www.prosperity.com/rankings?pinned=SGP&filter=>

<sup>63</sup> Doing Business 2020: "Comparing Business Regulation in 190 Economies". World Bank Open Knowledge Repository World Bank, 2020, accessed March 12, 2021. <https://openknowledge.worldbank.org/bitstream/handle/10986/32436/9781464814402.pdf?sequence=24&isAllowed=y>

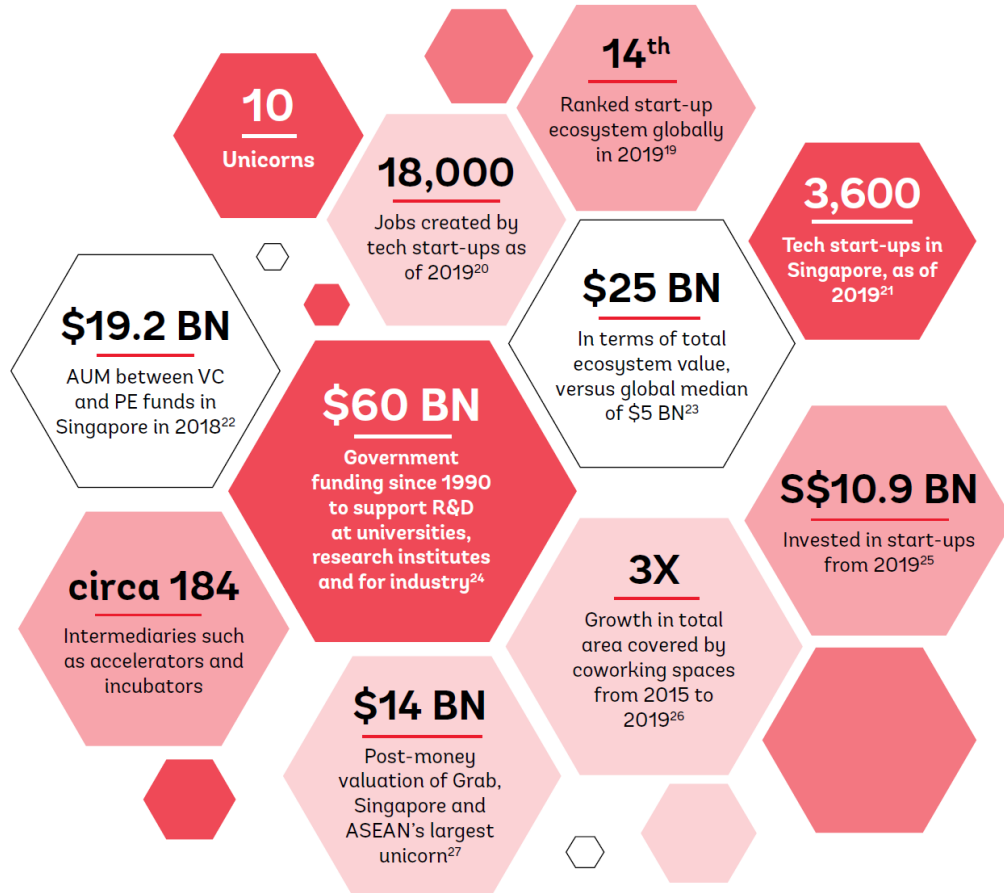
<sup>64</sup> Michelle Jamrisko, Wei Lu, and Alexandre Tang. "Bloomberg Innovation Index", February 3, 2021. <https://www.bloomberg.com/news/articles/2021-02-03/south-korea-leads-world-in-innovation-u-s-drops-out-of-top-10>

<sup>65</sup> World Bank Data, 2020.

<sup>66</sup> "Global Innovation Index 2020" Cornell University, INSEAD and WIPO, September, 2020. Table A: 10 best-ranked economies by income group. [https://www.wipo.int/edocs/pubdocs/en/wipo\\_pub\\_gii\\_2020.pdf](https://www.wipo.int/edocs/pubdocs/en/wipo_pub_gii_2020.pdf)

<sup>67</sup> Pedro Conceição. "Beyond Incomes, Beyond averages, Beyond Today". 2019 Human Development Index Ranking United Nations Development Programme, December 9, 2019. <http://hdr.undp.org/sites/default/files/hdr2019.pdf>

## Singapore's start-up ecosystem by the numbers



<https://openknowledge.worldbank.org/handle/10986/35328>

<sup>19</sup> Start-up Genome. "Global Start-up Ecosystem Report, 2019", May 2019. <https://startupgenome.com/reports/global-startup-ecosystem-report-2019>

<sup>20</sup> Singapore Department of Statistics, 2019. <https://www.singstat.gov.sg/>

<sup>21</sup> Singapore Department of Statistics, 2019. <https://www.singstat.gov.sg/>

<sup>22</sup> Preqin. "Markets in Focus: Private Equity and Venture Capital in Southeast Asia". Preqin, September 3, 2019. <https://www.preqin.com/insights/research/reports/preqin-markets-in-focus-private-equity-venture-capital-in-southeast-asia>

<sup>23</sup> Start-up Genome. "Global Start-up Ecosystem Report, 2019", May, 2019. <https://startupgenome.com/reports/global-startup-ecosystem-report-2019>

<sup>24</sup> Preqin. "Markets in Focus: Private Equity and Venture Capital in Southeast Asia". Preqin, September 3, 2019. <https://www.preqin.com/insights/research/reports/preqin-markets-in-focus-private-equity-venture-capital-in-southeast-asia>

<sup>25</sup> Enterprise Singapore. <https://www.enterprisesg.gov.sg/>

<sup>26</sup> Tay, Vivienne. "Coworking spaces in Singapore tripled since 2015 to 3.7m sq ft: Colliers". The Business Times, September 17, 2019. <https://www.businesstimes.com.sg/real-estate/coworking-spaces-in-singapore-tripled-since-2015-to-37m-sq-ft-colliers>

<sup>27</sup> Preqin. "Markets in Focus: Private Equity and Venture Capital in Southeast Asia". Preqin, September 3, 2019. <https://www.preqin.com/insights/research/reports/preqin-markets-in-focus-private-equity-venture-capital-in-southeast-asia>

## Highlights of Singapore's deep tech activity to date

**\$570 MN**

Expected to be attracted in private investment by Start-up SG Equity Scheme in next decade<sup>94</sup>

**26**

Deep tech companies in SGInnovate portfolio

**\$2.6 BN**

Invested in deep tech start-ups since 2010<sup>101</sup>



**\$300 MN**

Start-up SG Equity funding for deep tech start-ups<sup>95</sup>

**35,000**

Research scientists and engineers as of 2017<sup>96</sup>

**\$64 MN**

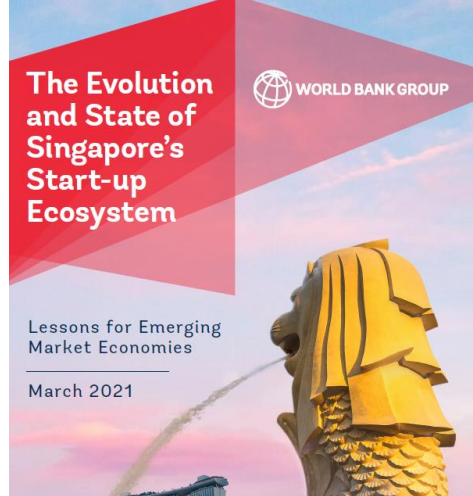
Invested by Seeds Capital in agri-tech start-ups in 2019<sup>97</sup>

**30X**

Increase in deep tech investments between 2010 and 2019<sup>98</sup>

**7171**

Patents granted to Singapore inventors from 2011 to 2016<sup>99</sup>



Lessons for Emerging Market Economies

March 2021

<https://openknowledge.worldbank.org/handle/10986/35328>

<sup>94</sup> Cordon, Miguel. "Singapore sets aside additional \$215m for deep-tech start-ups". Technasia, February 18, 2020. <https://www.technasia.com/singapore-allots-additional-215m-investments-deeptech/>

<sup>95</sup> Enterprise Singapore. "Enhancements to Start-up SG Equity". Start-up SG Equity. Ministry of Trade and Industry, August 20, 2020. <https://www.enterprisesg.gov.sg/-/media/esg/files/media-centre/media-releases/2020/aug-2020/esg-enhances-startup-sg-founder-programme-to-groom-new-startups-to-seed-next-lap-of-innovation-in-singapore.pdf?la=en>

<sup>96</sup> Ibid.

<sup>97</sup> Ibid.

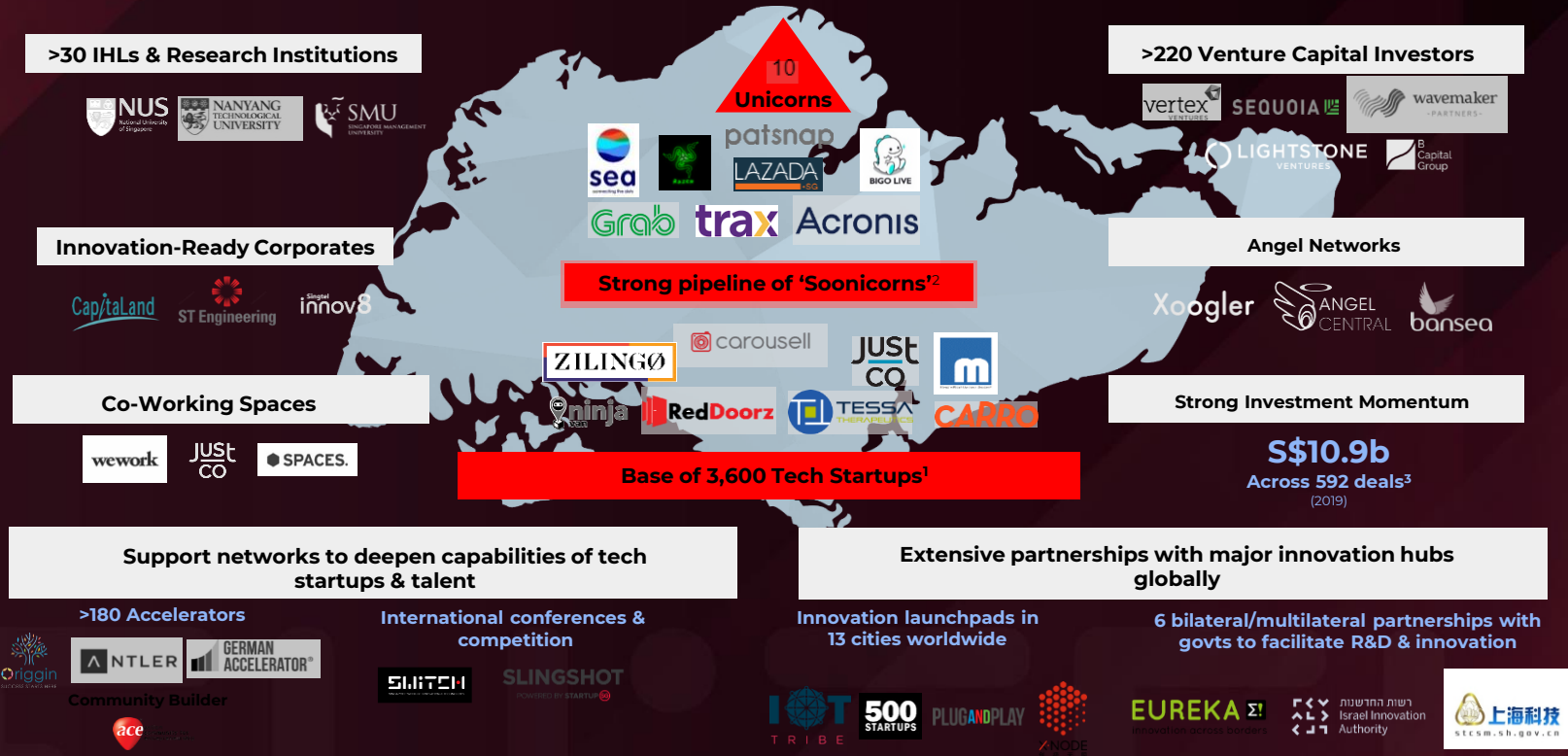
<sup>98</sup> Hseien-Hui. "How to Spot Deep Tech Winners in Singapore". Prequin, June 23, 2020. <https://www.prequin.com/insights/research/blogs/how-to-spot-deep-tech-winners-in-singapore>

<sup>99</sup> Ibid.

<sup>100</sup> SGInnovate. "Deep Tech Investments: Realising the Potential". SGInnovate Insights, September 2, 2019. [https://cdn2.hubspot.net/hubfs/3032335/investments/deep-tech-investments-realising-the-potential.pdf?hstc=113141851.1f641905044c63b124f7c7a7c4033d59.1567654249666.1567654249666.1567654249666.1567654249666.1&hssc=113141851.2.1567654249666](https://cdn2.hubspot.net/hubfs/3032335/investments/deep-tech-investments-realising-the-potential.pdf?hstc=113141851.1f641905044c63b124f7c7a7c4033d59.1567654249666.1567654249666.1567654249666.1&hssc=113141851.2.1567654249666)

<sup>101</sup> Hseien-Hui. "How to Spot Deep Tech Winners in Singapore". Prequin, June 23, 2020. <https://www.prequin.com/insights/research/blogs/how-to-spot-deep-tech-winners-in-singapore>. Prequin defines deep tech as artificial intelligence, blockchain, meditech, healthtech, fintech, deep learning, and machine learning in their estimate.

# Singapore's Startup Ecosystem At A Glance



<sup>1</sup>Source: DOS 2019

<sup>2</sup>'Soonicorn'<sup>2</sup> are valued over a few hundred millions. Data from Traxn.

<sup>3</sup>Estimates by ESG.



## Current Plans

**Innovation** remains an important driver to sustain Singapore's long-term **competitiveness** and is also critical to Singapore's efforts to adapt and succeed in the post COVID-19 world.





**SINGAPORE WEEK OF  
INNOVATION & TECHNOLOGY**

# Our SWITCH 2020 impact

**70000+** viewership  
**600+** speakers  
**SGD 8.5million** total value to community  
**200+** content sessions  
**3500+** startups



## Physical Event 2018

SWITCH Attendees: **6,000+**  
**Foreign Attendees: 16%**  
**Local Attendees: 84% (5000+)**



## Physical Event 2019

SWITCH Attendees: **7,900+**  
**Foreign Attendees: 17%**  
**Local Attendees: 83% (6,500+)**



## Digital Event 2020

SWITCH Attendees: **15,000+**  
**Foreign Attendees: 27%**  
**Local Attendees: 73% (10,900+)**



# SWITCH 2020: People and Talent

## Key Partners & Sponsors (among over 50+ sponsors and partners):

Shell, L'Oréal, Cargill, ENGIE, UNDP, DHL, Microsoft, Google, AWS, Deloitte, Facebook, Bain, Temasek, IEEE, EDB, SGInnovate, A\*STAR, PwC, DIT

## Key Thought Leaders/Mentors (among over 600+ global leaders):

### SWITCH Connect

### SWITCH Global

### Masterclasses

### SLINGSHOT



**Tim Draper**  
Founding Partner  
Draper Associates



**Dr Youngcho Chi**  
President and  
Chief Innovation Officer  
Hyundai Motor Group



**Andrea Della Mattea**  
APAC President  
Microsoft



**Cindy Hook**  
Chief Executive Officer  
Deloitte Asia Pacific



**Dibyo Haldar**  
Director, Small Business  
Programs Asia Pacific, Facebook



**Stephanie Davis**  
Vice President  
Google Southeast Asia



**James Ang**  
Chief Partnership Officer  
Dropbox



**Nadia Fonny**  
Vice President  
Gobi Ventures

# SWITCH 2021

The Global Gateway for Innovation in Asia



# The Global Gateway for Innovation in Asia

**SWITCH**  
SINGAPORE WEEK OF  
INNOVATION & TECHNOLOGY | 8-12  
NOV  
2021

Emerging from a year of huge global disruption, SWITCH 2021 will enable conversations on leveraging innovation to rebuild sustainably across industries and communities, address persistent global challenges, and advance towards a stronger and inclusive future together.



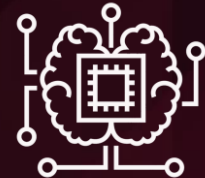
## Year-Long Innovation Journey

Longer-term engagements with partners and attendees to drive innovation outcomes



## Catalyzing Innovation among Global Ecosystems

Building ecosystem linkages to foster collaboration and transformation



## Vanguard & Emergent Innovation

Highlighting emerging innovation & technologies to address real-world issues

# Leading Tech Festival for the Global-Asia Innovation Ecosystem

**SWITCH**  
SINGAPORE WEEK OF  
INNOVATION & TECHNOLOGY | 8-12  
NOV  
2021

Stay tuned at [www.switchsg.org](http://www.switchsg.org)



## Conferences

- SWITCH Beyond
- SWITCH Global

Bringing together global Business Leaders, Thought Leaders and Innovation experts to discuss the latest trends and developments in the key sectors of Deep Tech.

## Showcase

A showcase of Innovation Solutions across Industry Sectors & Technologies, coupled with Networking Opportunities.

## SLINGSHOT

Asia's leading startup competition and Startup SG's marquee startup competition designed to attract international startups and provide early exposure to the Singapore and Asian ecosystem.

## Roundtables

Facilitated industry discussions among top leaders and SWITCH speakers to identify emerging trends and opportunities across industries.

## Year Long Events

Year-long events and activities in the lead-up to November and into 2022, including deal-making sessions throughout the year for investors and growth startups ready for investment.



# SWITCH Beyond

## Content Focus: Sectoral & Technology Innovation

1. Enabling conversations in key sectors & technology domains
2. Leveraging innovation to address global issues

### Day 1

#### Transforming Industries

Topics include:

- Smart Cities & IoT
- Mobility
- Waste to Resource
- Clean Energy
- Advanced Materials

### Day 2

#### Impacting Lives

Topics include:

- Digital Economy
- Blockchain
- Health & Wellness
- Food & Agriculture Tech

### Day 3

#### Envisioning the Future

Topics include:

- AI, Robotics & Advanced Automation
- Emerging Tech: Quantum, Nanotech
- Tech Ethics & Predictions

#### Horizontals



**Sustainability**  
Combating scarcity and  
climate change



**Tech for Good**  
Making positive impact through  
innovation & tech

# SWITCH Global

## Content Focus: Market & Capabilities Expansion

1. Enabling Opportunities for Singapore & Global Innovation Ecosystems
2. Further Internationalization Outcomes For Start-ups & Companies



Access to  
42 cities & over  
10 Regions

### Day 1

### Day 2

### Day 3

#### Market Access

#### Market Access

#### Market Access

Mornings



Americas

Afternoons



Asia, Oceania, Middle East, China

Evenings



Europe, Africa

#### Masterclasses

#### Masterclasses

#### Masterclasses

- Tech-Up
- Fundraising
- Expand to Asia

- Tech-Up
- Fundraising
- Expand to Asia

- Tech-Up
- Fundraising
- Expand to Asia



# SWITCH 2021

*The Year-Long Innovation Movement*



# SWITCH is a Year-Long, Always-On Platform...

The screenshot displays the SWITCH platform's conference page. At the top, there is a navigation bar with icons for Home, Conference, Showcase, Network, and Rooms. Below this, the 'Conference' section is highlighted with a 'Featured' tag. Two featured sessions are shown:

- Entrepreneurship Exposure Series (EES) Session 2: Get into the minds of investors!**  
Date: 24 Aug, 19:00 - 20:30  
Description: EES Session 2: Get into the minds of investors!
- Deep Tech for Good: In Practice**  
Date: 26 Aug, 16:00 - 17:00  
Description: Deep Tech has the potential to ensure a sustainable, liveable future for our planet in the face of grand environmental and...

Each session card includes a 'Join Session' button and a 'More info' link. A 'My Schedule' section at the bottom allows users to filter by 'Conference' or 'Meetings'.

The screenshot displays the SWITCH platform's main page for the Singapore Week of Innovation and Technology (SWITCH). At the top, there is a navigation bar with icons for Home, Conference, Showcase, Network, and Rooms. Below this, the 'SWITCH' logo is prominently displayed, followed by the text 'Singapore Week of Innovation and Technology (SWITCH)' and the dates '04 Aug, 21 - 12 Nov, 21'. Social media icons for Facebook, Twitter, LinkedIn, and Instagram are visible. A large banner at the bottom features the SWITCH logo and the text '8-12 NOV 2021' and 'YOUR GLOBAL GATEWAY TO INNOVATION IN ASIA'.

# ...with Thought Leadership sessions Throughout the Year...



Home



Conference



Showcase



Network



Rooms



## Sessions



Wed 04, Aug

Tue 10, Aug

Tue 17, Aug

Wed 18, Aug

Thu 19, Aug

Tue 24, Aug

16:00

Thu 16:00 - 1 session

DEEP TECH FOR GOOD:  
**IN PRACTICE**

Online Event!

26 August 2021 | 4:00pm – 5:00pm (Singapore Time / UTC +8)

Presented By:

In Support Of:



Conference



Showcase



Network



Rooms



Wed 14:25 - 1 session

SG INNOVATION  
COMMUNITY DAY 2021

**KEYNOTE PANEL:  
THE ROAD TO STARTUP  
SUCCESS IN SINGAPORE**

04 Aug, 14:25 - 15:06

SWITCH Beyond

Keynote Panel: The Road to Startup Success in Singapore

Watch Session

More info

Speakers: Jeffrey Tang, Aarav Jain, Dawn Tan

15:05

Wed 15:05 - 1 session

SG INNOVATION  
COMMUNITY DAY 2021

**CORPORATE LEADERSHIP FOR  
SUSTAINABLE DEVELOPMENT**

04 Aug, 15:05 - 15:50

SWITCH Beyond

Corporate Leadership for Sustainable Development

Learn from corporate leaders' sustainable development strategies! The force of sustainability is one to be reckoned with – from businesses turning to more sustainable methods, to consumers being more...

Watch Session

Join Session

Speakers: Deepak Subramanian, Jai Thangpal, Foo Peng Er, Sim Bao Ai

# ...covering Topics Across Industry Sectors...

The screenshot shows the top navigation bar with icons for Home, Conference, Showcase, Network, and Rooms. Below the navigation, there are two session cards for Wednesday, August 4th.

**15:50 - 1 session**

**A LOOK INTO AGRIFOOD INVESTMENTS**

04 Aug, 15:50 - 16:20

SWITCH Beyond

A Look into Agrifood Investments

Watch Session

More info

**16:20**

**Wed 16:20 - 1 session**

**INNOVATION OPPORTUNITIES FOR CORPORATES & STARTUPS IN SINGAPORE**

04 Aug, 16:20 - 16:50

SWITCH Beyond

Innovation Opportunities for Corporate & Startups in Singapore

How does an innovation-led growth strategy benefit you and how do you go about it? To thrive and succeed in a post-COVID environment, companies, especially small and medium enterprises (SMEs) a...

Watch Session

The screenshot shows the top navigation bar with icons for Home, Conference, Showcase, Network, and Rooms. Below the navigation, there is a session card for Thursday, August 17th.

**09:00**

**Yesterday 09:00 - 1 session**

**UNCOVERING THE BIOTECH INVESTMENT BOOM**

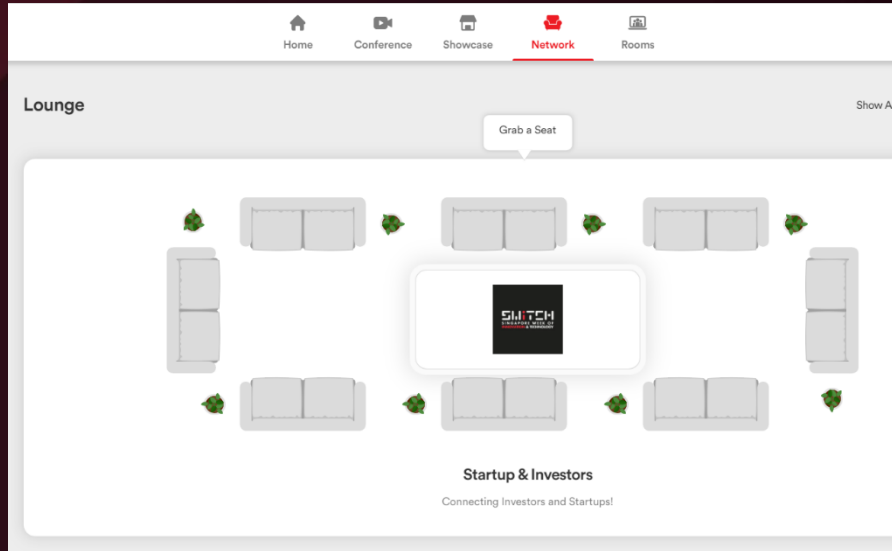
17 Aug, 09:00 - 10:00

Uncovering BioTech Investment Boom

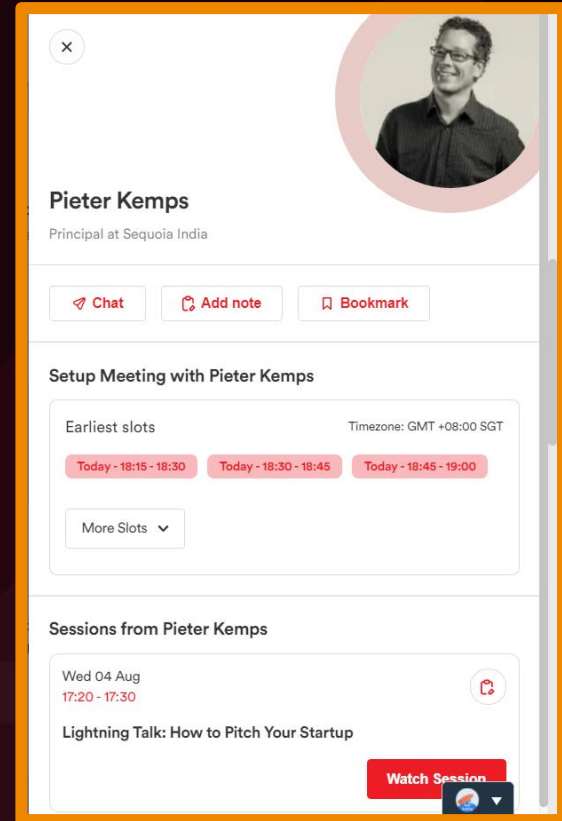
Biotech as an investment is quite rightly seen as risky because large amounts of capital need to be expended to progress programmes through clinical trials and data readouts, which are highly uncertain...

Watch Session

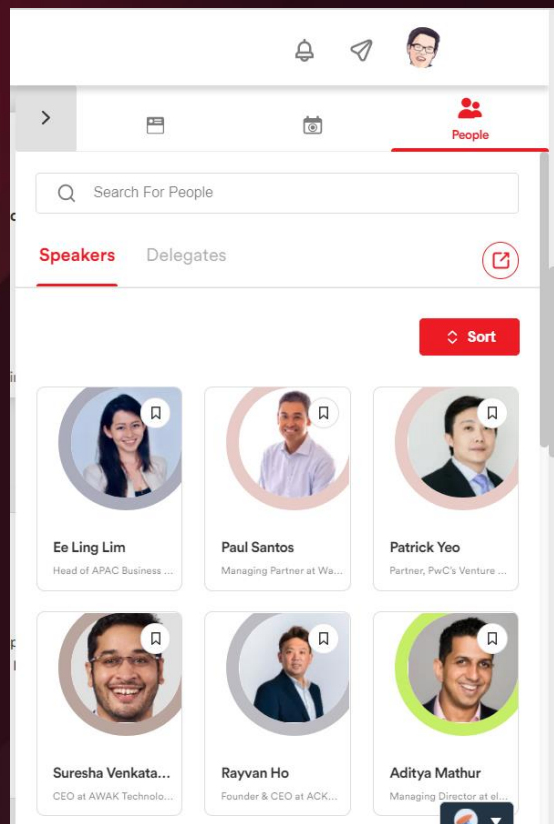
...and enabling global innovation communities to connect...



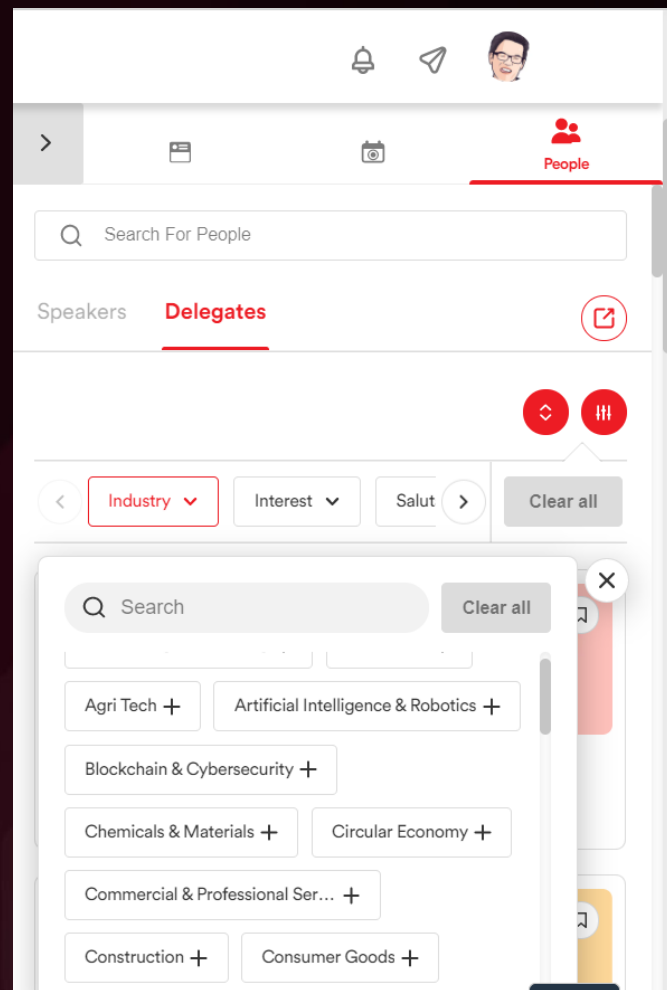
...24 hours a day, 7 days a week...







...connecting  
Global Leaders,  
Investors &  
Startups.





# SWITCH 2021

*Sponsorships & Exhibitions*



# Why Sponsor or Exhibit?

- **Gain access to new markets** – connect directly with more than 30 foreign trade/tech agencies, and potential in-market partners [SWITCH Global Conference Channel sessions]
- **Discover new know-how** from Masterclasses on tech, fundraising & expansion into Asia [SWITCH Global Conference Channel sessions]
- **Connect with Global Startups, Researchers/Labs, Companies** to collaborate on new products/solutions [Year-Long SWITCH Platform]
- **Get notified of New Leads whole-year-round**, without being present at your exhibition booth [Year-Long SWITCH Platform]
- **Gain new industry insights** from Global CEOs, Unicorn Founders and Leading Industry Researchers SWITCH Beyond Conference Channel sessions]

**SWITCH**  
SINGAPORE WEEK OF  
INNOVATION & TECHNOLOGY | 8-12  
NOV  
2021



**Be Part of the Conversation**  
[www.switchsg.org](http://www.switchsg.org)