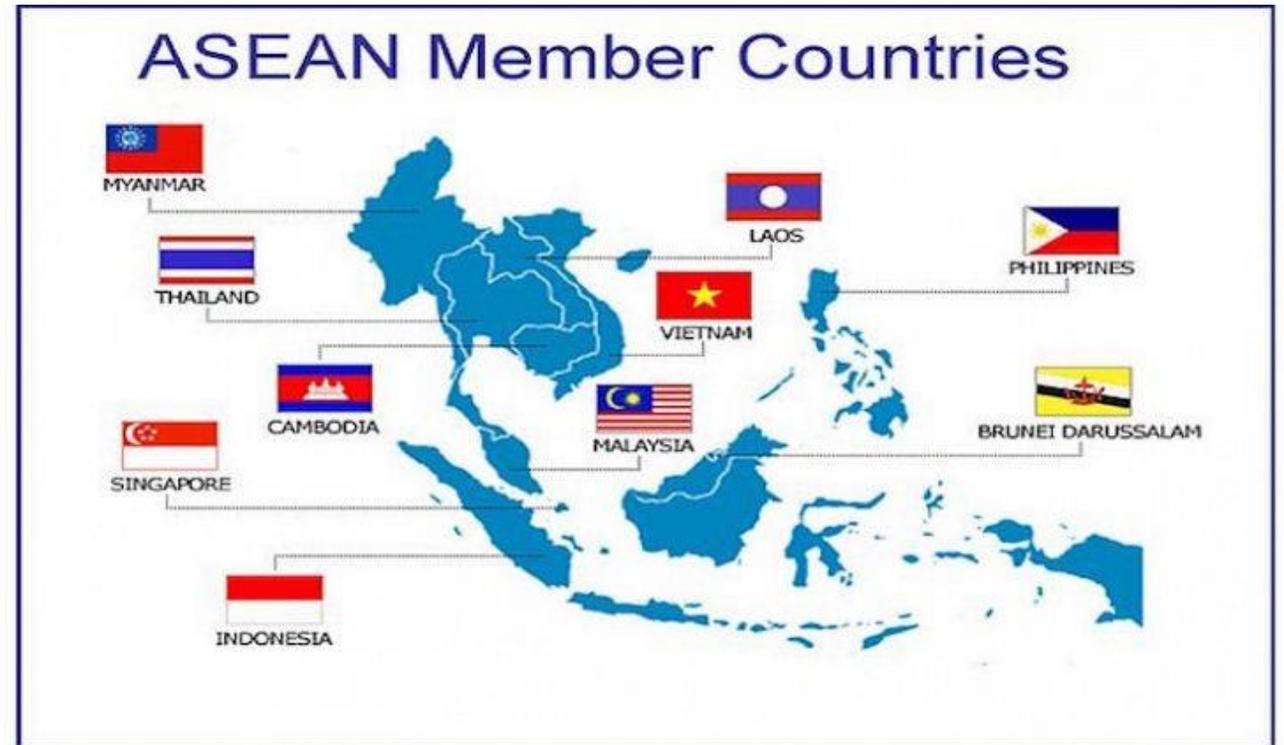


Roundtable by the Smart Cities Network (SCN)

What Innovations for Smart Healthcare and Smart Education?

*Moderated by
Tay Kok Chin, Lead for SCN
Chairman, SG100 Foundation*



Source: <http://www.worldatlas.com/articles/asean-countries.html>

Synopsis of Roundtable

In November 2014, the Singapore government launched the Smart Nation initiative. The areas of focus include healthcare, living, mobility and services. Earlier this year, the Committee for the Future Economy (now renamed as Future Economy Council) released the report with 7 recommendations. The goal is to develop future generations of Singaporeans to prepare the country for the future economy based on our Smart Nation goal.

*In this segment, we will invite relevant **participants to share the various possible innovations that can be developed for Smart Healthcare and Smart Education.***

The summary from the Smart Cities Roundtable in July 2017 will be shared.

By participating in this Roundtable, you will gain insights on possible business opportunities and get to know the key stakeholders of the Smart Cities ecosystem in Singapore.

The Smart Cities Network (SCN)

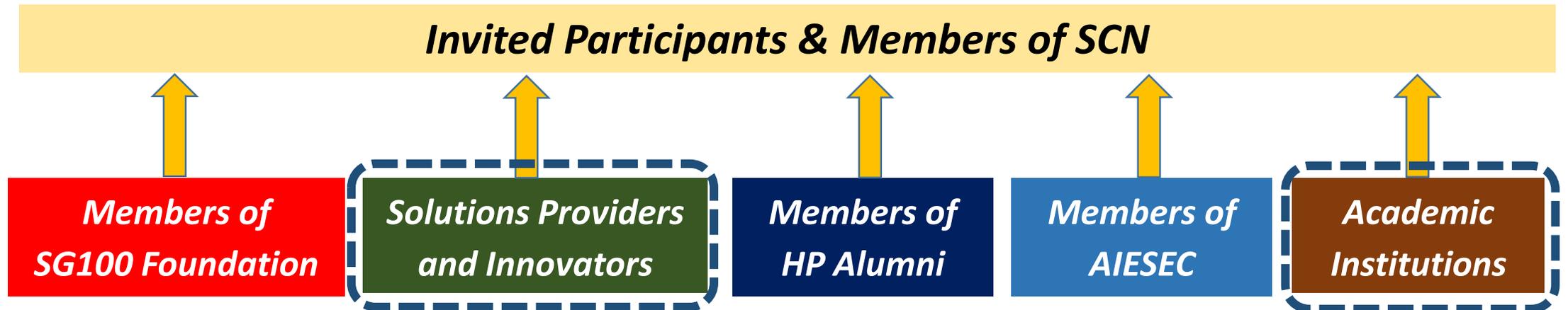
– An Initiative led by the SG100 Foundation Chairman

Events and Projects organized by the SCN Team

*Learning Journeys / Dialogues / **Roundtables** / Seminars / Conferences / etc*

- Action Plan Workshops*

Invite to Collaborate on “Smart Projects” for Singapore and ASEAN



The Smart Cities Roundtable on 27th July 2017

Eric Loh from G Element

Jason Tan from HPE

Annie Ng from SMU

Tan Jack Thian from SingHealth



Objectives of SCN

- 1) Level up understanding of Smart Nation and Smart Cities - Summary and Recommendations from the Roundtable will be shared**
- 2) Identify Innovations for Smart Cities – Healthcare & Education**
- 3) Seek Business Opportunities for Inclusive Smart Cities**

Organised by the Smart Cities Network (SCN)

With participants from the UK Department of International Trade (DIT) and Stakeholders from SG and UK

The ASEAN Market

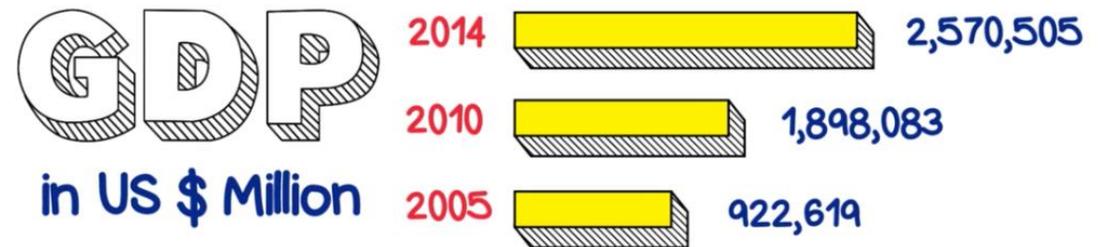
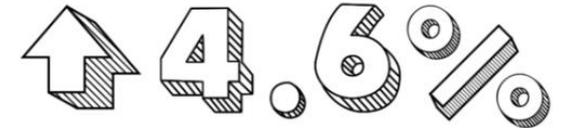
ASEAN is a huge market with a population of 622 million in 2014



ASEAN is a huge market

ASEAN Economic Growth

The combined GDP of ASEAN in 2014 is US \$ 2.6 trillion



Source: <http://www.aseanstats.org/acss-committee/>

ASEAN INTERNET USE, POPULATION DATA - JUNE 2017

<u>ASIA</u>	Population (2017 Est.)	Internet Users 30- Jun- 17	Penetration (% Population)
Indonesia	263,510,146	132,700,000	50.40%
Vietnam	95,414,640	64,000,000	67.10%
Philippines	103,796,832	57,607,242	55.50%
Thailand	68,297,547	57,000,000	83.50%
Malaysia	31,164,177	24,554,255	78.80%
Myanmar	54,836,483	13,747,506	25.10%
Singapore	5,784,538	4,699,204	81.20%
Cambodia	16,076,370	4,115,551	25.60%
Laos	7,037,521	1,539,106	21.90%
Brunei Darussalam	434,448	325,836	75.00%
Total	646,352,702	360,288,700	

Extracted from: <http://www.internetworldstats.com/stats3.htm#asia>

Example Project in ASEAN

SMART CITY INNOVATION FOR VIETNAM

An impactful initiative brought to you by



Australian Government

And powered by



Source: https://docs.wixstatic.com/uqd/587674_fe52c12eb6f74551b12e1c132975482c.pdf

Smarter Healthcare ; Smarter Education

Smarter Healthcare

The steering committee for making HCMC a Smart City has stated implementing electronic medical records system for smarter healthcare system.

Example solution:

- IoT-aware, smart architecture for automatic monitoring and tracking of patients, personnel and biomedical devices within hospitals and medical institutes.
- Solution that might prevent further widespread of rampant disease/influenza within the country

Smarter Education

As Vietnam's economic growth picks up, the corresponding need would be to upgrade its workforce and educate more students to prepare them for a knowledge economy. Compulsory education system is less strictly enforced from the secondary school level onwards and solutions are needed to reduce the non consumption of education.

Example solution:

- To create a more student-centred approach to learning that is intrinsically motivating. Implementing online learning or mobile learning systems
- Smart Campus solutions to enhance the learning experience at school

Notes

The literacy rate of people aged 15-24 years was 98% in 2015, however only one third of Vietnamese youth continued their education beyond the lower secondary level. As much as quarter of youth left school before completing their education and majority of them were below lower secondary school.

- OECD report: Key issues affecting youth in Vietnam

Typical Focus Areas for Smart Nation and Smart Cities in ASEAN



**AFFORDABLE HOUSING
FOR INTERNAL IMMIGRANTS**



**REDUCE TRAFFIC
SMARTER CAR PARKS**



WASTE MANAGEMENT



GREEN TREES, PUBLIC SPACES



**ENVIRONMENTAL PLANNING
ECOTOURISM**



**SUPPLY PURE WATER
TO PEOPLE**



POWER AND ENERGY USAGE



**HIGH TECH AGRICULTURE
IOT FARMING**



E-GOVERNMENT



PUBLIC SECURITY



HEALTHCARE

SG



EDUCATION

SMU

Source: https://docs.wixstatic.com/ugd/587674_fe52c12eb6f74551b12e1c132975482c.pdf

Roundtable Framework
by Christopher Warren (PwC)
Slides

Thank You

Contact Details

TAY Kok-Chin (KC)

kokchin@gmail.com

+65 9822 4345