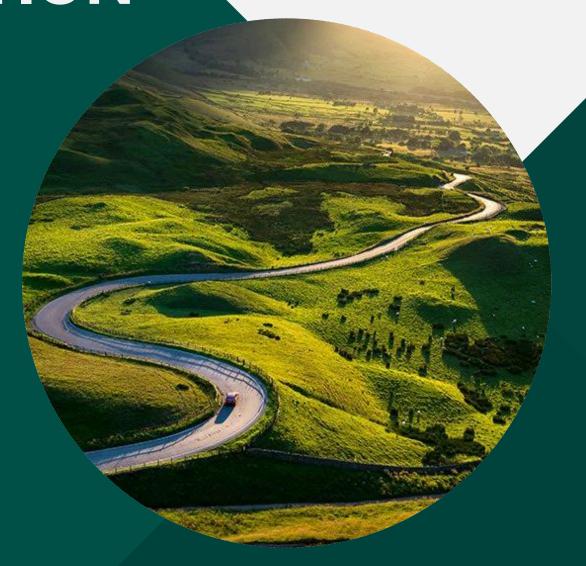


HUMAN RESOURCE ORGANISATIONAL DEVELOPMENT (HROD) ROUNDTABLE

14 NOV 2019 DR KOH TAT SUAN origin PRESENTATION ROADMAP

- Case study of global best practices Singapore's workforce development journey
- Case study of global best practices CET Master Plans and SkillsFuture
- 3. iR 4.0, Future of Work & Talent Management
- 4. Promotion of lifelong learning and setting up of learning neighbourhoods



Part 1:

Case study of global best practices – Singapore's workforce development journey



origin Scope of Part 1

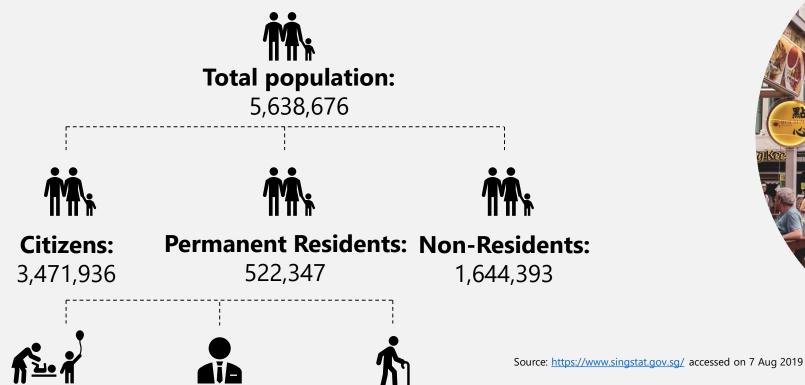
- 1. Where we are now
- 2. How did we get here
 - a) Learning to Survive
 - b) Learning to Stay Ahead
 - c) Learning to Compete
 - d) Learning for Life
 - e) Learning for a New World
- 3. Learning points



PART 1, Section 1:

Where we are now

Demographic Profile





Below 20 y/o: 20%

20 - 64y/o:

66%

65 y/o and above:

14%



Median age:

Education Profile



Overall literacy for 15 and above:

97.3%

Male literacy: 98.9%

Female literacy:

95.9%



Overall residents ≥ 25 y/o with postsecondary qualifications: 54.9%

Male residents:

Female residents:



Overall mean years of schooling: 11.1

Male years of schooling: 11.6

Female years of schooling: 10.6



Polytechnics: 25,805

Universities: 18,537



Source: https://www.singstat.gov.sg/ accessed on 7 Aug 2019

Workforce Profile



Industry Sector Breakdown



Total labour force:

3,657,600 2.7% unemployment

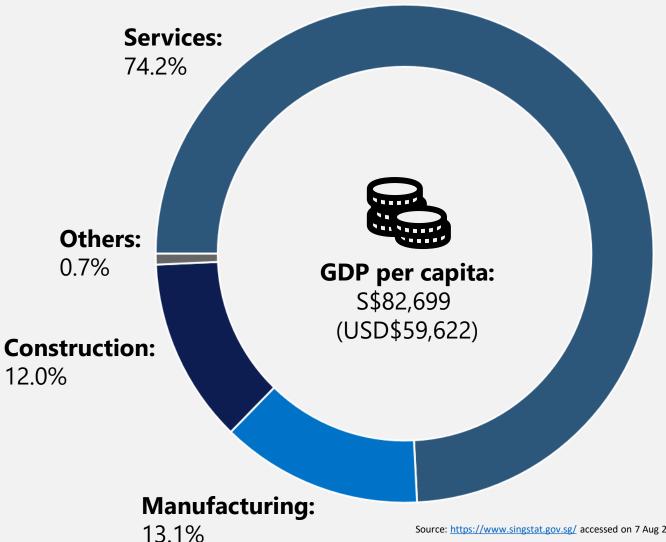


Total resident labour force:

2,269,700 3.9% unemployment



Total labour force participation:



Source: https://www.singstat.gov.sg/ accessed on 7 Aug 2019

PART 1, Section 2a:

Learning to Survive

"Learning to Survive" – From 60s to early 70s

1963 – 1965

Being a state within the Malaysia Federation



Granted the status of a selfgoverning state by the British

1965

A fully independent and sovereign nation

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"Learning to Survive" – From 60s to early 70s

2 IMMEDIATE ECONOMIC TASKS

1

RESTRUCTURING THE ECONOMY

Expansion of international trade because

- (1) Entrepot trade was being eroded
- (2) On-going Konfrontasi with Indonesia affected trade volume
- (3) Withdrawal of British troops impacted local employment and loss of British military expenditure



2

ALLEVIATE HIGH UNEMPLOYMENT RATES

- Due to rapid population increase, estimated 46,000 (10% of labour force) unemployed in 1959
- Post-war babies set to enter the labour market, predicted some 84,000 jobs are needed

"Learning to Survive" From 60s to early 70s

SINGAPORE'S ECONOMIC GOVERNANCE: CONCEPTS

2 KEY **POLICY**



Strategic Pragmatism

Having a vision and mastery strategy for development, & practical intelligence to pragmatically and innovatively make it happen



Developmental state model

Overwhelming policy focus on stimulating economic growth, often through the actions of developmental agencies



Dr Goh Keng Swee, who initiated the setting up of the **Economic Development Board**

"Learning to Survive" – 3 GOVERNMENT From 60s to early 70s POLICY MEASURES

1

ADOPTING AN INDUSTRIALISATION PROGRAM



Adopting the recommendations of a 1961 United Nations study for an industrialization program by:

- (1) Re-orienting from import substitution to export promotion
- (2) Introduce new incentives to attract foreign investments
- (3) Provide economic incentives to private sector

- (4) Government involved by direct participation through public enterprises:
 - a. Statutory Boards and
 - b. State and semi-state companies
- (5) Set up government organs to meet job creation targets and industrial drive.

EDB was such example:

- (1) Attracting electronics companies from US, Europe and Japan to implement low skills/low wage manufacturing and oil refineries companies, Shell and Esso
- (2) One-stop approach to deal with MNCs and provide incentives such as cheap rents, tax breaks and cheap energy supplies

"Learning to Survive" – 3 GOVERNMENT From 60s to early 70s POLICY MEASURES



ADOPTING A COORDINATED MULTI-STAKEHOLDER APPROACH



Passing the Employment Act of 1968 & amending the Industrial Relations Act of 1960 to ensure:

- 1. An orderly labor force and
- 2. Restrain increase in wage costs

 Obtaining full cooperation of trade
 unions with a tripartite arrangement
 to bring a period of industrial peace.

Foreign investment, particularly from MNCs increased rapidly.

They brought in capital and technical know-how and also an enlarged export market.

As a result, manufacturing sector grew rapidly at an annual rate of 18.7% during 1966 – 73.

The National Industrial Council was established in 1968 comprising the MOE, MOF, MOL to coordinate the growing demand for craft and technical skills

The National Productivity Board was established in 1972 to operate on the tripartite basis to look into the total productivity factor

"Learning to Survive" – 3 GOVERNMENT From 60s to early 70s POLICY MEASURES

3

Government restructured the education system to emphasise technical and vocational education to increase supply of workers to align with the adoption of the industrialization program.

To quickly expand accessibility to primary education for all Singaporeans

RESTRUCTURING THE EDUCATIONAL SYSTEM

- 1. To create a young labor force with basic education to support the labor-intensive factories.
- 2. For the secondary education, all boys and some girls were expected to study technical as well as academic subjects in the early years from 1969 onwards



Another important organ was set up - The Adult Education Board in 1960 to promote adult education.

Its functions also included preparing those who failed their PSLE (14 years old) to take up vocational training in industrial and commercial sectors.

PART 1, Section 2b:

Learning to Stay Ahead

"Learning to Stay Ahead" – From mid 70s to early 80s

CHANGING FROM A
LABOUR INTENSIVE TO
A CAPITAL INTENSIVE
ECONOMY

origin

1

2

3

4

THE ECONOMIC SCENE CHANGED VASTLY

By 1980, after two decades of intensive expansion of the manufacturing sector, attracting low skills / low wage manufacturing to meet high unemployment rate, its GDP contribution rose from 12% in 1960 to 28% in 1980

FROM UNEMPLOYMENT TO LABOUR SHORTAGES

Previous fears about unemployment turned into fears about labour shortages with the expansion of the manufacturing sector. This prompted a decisive move in 1979 to raise income through increased productivity

MOVING LOW WAGE & SKILL JOBS OUT

Capital intensive and high skilled employment was encouraged while the MNCs were induced to move low wage and skill jobs out of Singapore.

Due to strong competition in SEA countries it is timely for the strategy change

UPGRADING TO HIGHER-TECH INDUSTRIES

Singapore began to upgrade to higher-tech industries in the 1980s such as wafer fabrication to transition to a capital intensive economy.

Hence, shifting from a thirdtier labor intensive industrialising country to a second-tier capital intensive economy.

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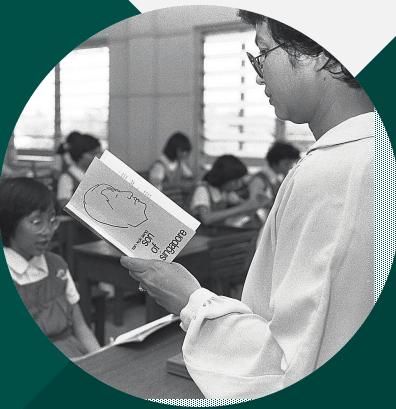
"Learning to Stay Ahead" – From mid 70s to early 80s

Shifted the focus from a survival-driven education system to an efficiency-driven one, focusing on upgrading and providing quality education

Setting up Industrial Training Board (ITB) in 1973 to meet changing demands for jobs in manufacturing

Setting up Council on Professional and Technical Education (CPTE) in 1979. Set quotas for Universities and Polytechnics to meet demands for different kinds of workers, such as technicians and engineers

REVISITING THE EDUCATION SYSTEM



"Learning to Stay Ahead"

– From mid 70s to early
80s

A MORE FLEXIBLE PRE-EMPLOYMENT EDUCATION SYSTEM

1

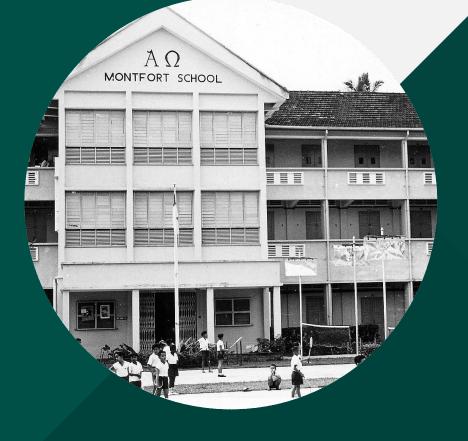
The New Education System (NES) address diverse abilities to prevent talent wastage by reducing attrition

2

Academic streaming was introduced at both primary and secondary levels in 1980

3

The NES provided more post-secondary vocational courses for those less academically-inclined and channelled them to supply the technical workers demand



"Learning to Stay Ahead" - From mid 70s to early 80s

SUPPORT FOR ADULT WORKERS IN THE WORKFORCE

1

To deal with the poor quality of education and training of the 60s' due to low educational levels, the Skills Development Fund was introduced in 1979 to provide financial incentives to employers to send their workers for training.

2

The Vocational and Industrial Training Board (VITB) was set up in 1979 as a single national authority for training skilled labour, merging ITB and AEB as one entity.

3

The VITB adopted a total approach to vocational training for workers, not just at job-entry but throughout their working life – institution-based courses, industry-based apprenticeships, and continuing education



PART 1, Section 2c:

Learning to Compete

"Learning to Compete" – From mid 80s to early 2000

ADVOCACY OF LIFELONG LEARNING FOR WORKERS TO STAY RELEVANT & RESILIENT



The 1985 economic crisis
The 1997 Asian financial crisis
The rise of the Asian market as competitors

An acute need to focus on knowledge and capital intensive high-tech industries

Singapore could no longer rely on low-skilled but moderately waged jobs, previously in manufacturing



A different type of worker was necessary to generate value

The worker needed to create or acquire and apply knowledge flexibly and innovatively

The advocacy of lifelong learning assumed a national importance

The Lifelong Learning Endowment Fund Act was passed in July 2002

"Learning to Compete" – From mid 80s to early 2000

THE ACTIVE ROLE OF Origin VOCATIONAL AND TECHNICAL TRAINING

RESTRUCTURING THE VITB TO FORM ITE

The Institute of Technical
Education (ITE) was the product
of the restructuring of the VITB in
1992

The VITB itself was formed in 1979

APPENTICESHIP PROGRAMS & DIPLOMAS

The programs were meant to boost skilled trades

ITE also provided diplomas in vocational education for skilled technicians and workers

SETTING UP OF CERTIFIED ON-THE-JOB (OJT) CENTRES

OJT was introduced by ITE as a system to improve the quality of the workforce

In 1994, the certificate for OJT in companies was introduced

ITE also established centres to encourage the implementation of the OJT systems by companies

"Learning to Compete" – From mid 80s to early 2000

FOCUS ON PRODUCTIVITY

1

Merged the National Productivity Board (NPB) and Singapore Institute of Standards and Industrial Research (SISIR) to form the Singapore Productivity and Standards Board in April 1996

Combined under one roof the soft skills of productivity under the NPB and the technical skills under the SISIR

SPSB launched its FAST FORWARD video-based open learning programme to assist mid-career workers



"Learning to Compete" – From mid 80s to early 2000

INDUSTRY 21 (I21) INITIATIVE

EDB launched the Industry 21 initiative in 1998 to lead in the knowledge-driven economy

Anticipated that I21 will contribute 40% of our annual GDP and create 20,000 to 25,000 jobs every year over ten years

3 I21 enable Singapore to be a leading competence centre for knowledge-driven activities and to strengthen Singapore as a hub for company HQs and product charters







"Learning to Compete" – From mid 80s to early 2000

MANPOWER 21 PLAN

The Ministry of Manpower was established in 1998, and the Manpower 21 plan was commissioned and finished by 1999

The Manpower 21 Plan was launched on 31 Aug 1999 to drive Singapore as a 'talent capital' to prepare for the new economy. The Plan is to develop local talent pool with right skills, know-how and mindsets to create new products and markets

While the PET system prepare young Singaporeans with a broad-based foundation to learn new skills, they will need new skills when they join the workforce for their working life.

A key component of the Manpower 21
Plan was the launch of the National Skills
Recognition System on 5 Sept 2000 to
enable workers to acquire new skills and
upgrade to prepare for structural
unemployment due to corporate
restructuring and shifts in the economy

PART 1, Section 2d:

Learning for Life

orıgın

"Learning for Life" – From mid 2000 to early 2010

DEALING WITH ECONOMIC RECESSION AND GLOBAL AND LOCAL EVENTS

1

RESTRUCTURING THE ECONOMY

Economic recession due to a series of events:

2001 11 Sep terrorist attacks in US

2002 terrorist attacks in Bali

2003 Acute Respiratory Syndrome (SARS) outbreak

2008 Global Financial Crisis



2

ALLEVIATE HIGH UNEMPLOYMENT RATES

Contributed to the shrinking job market

An increase in retrenchment

"Learning for Life" – From mid 2000 to early 2010

WORKING TOWARDS AN INNOVATION DRIVEN ECONOMY

Singapore Productivity and Standards Board





- To signify the shift towards an innovation-driven economy
- To promote creativity and raising the productivity of workforce to sustain growth



origin "Learning for Life" – From mid 2000 to early 2010

PUSH FOR LIFELONG LEARNING IN A BIGGER WAY FOR WORKFORCE DEVELOPMENT

Setting up VIDA on 1 Sep 2003

> National Skills Standards

Industry relevant skills

Modular blended learning



"Learning for Life" – From mid 2000 to early 2010

FIRST CET MASTERPLAN TO PREPARE WORKERS FOR THE FUTURE

origin

LAUNCHING OF THE FIRST NATIONAL CET MASTERPLAN IN 2008

The Masterplan was a 10-year blueprint for CET development with the following aims:

To drive the manpower and education ministries

To provide more funds for the Lifelong Learning Endowment Fund

To offer more courses for more industries to train workers each year

THE SETTING UP OF THE INSTITUTE FOR ADULT LEARNING (IAL)

The IAL was set up in 2008, and was responsible for 2 areas:

Developing trainer capability to deliver curriculum based upon the WSQ CET frameworks

Conducting applied research into adult training for enhanced training quality and effectiveness

PART 1, Section 2e:

Learning for a New World

"Learning for a New World" – From mid 2010 to present

GLOBAL EVENTS AND CHALLENGES

THE INDUSTRIAL REVOLUTION 4.0

Job displacements, involuntary unemployment, altering the nature of work

TRADE FRICTION BETWEEN CHINA & US

The rising tide of trade protectionism and trade friction between the US and China is hurting Singapore's economy

COMPETITION WITH LOW-COST PRODUCERS

Competition has intensified, affecting the manufacturing sector

Competition is coming from internal and external sources

2nd CET MASTERPLAN 2020 TO DRIVE LIFELONG LEARNING

LAUNCHING OF THE 2nd
NATIONAL CET MASTERPLAN
AND SKILLSFUTURE
INITIATIVE IN 2014

The government formulated the 2nd CET Masterplan 2020 to drive the next wave of lifelong learning to strengthen human capital

"Learning for a New World" – From mid 2010 to present

THE SKILLSFUTURE INITIATIVE

Introduced in 2014 to provide lifelong learning and skills development opportunities.

Anticipate a rise of emerging and new growth industries that will cause disruption to businesses and job skills for new jobs

INTRODUCED SECTORIAL MANPOWER STRATEGIES

The Sectorial
Manpower Strategies
(SMS) were drafted in
conjunction with key
stakeholders to codevelop medium-term
manpower and skills
plans for each key
sector to support
industry growth and
productivity efforts.

"Learning for a New World" – From mid 2010 to present

INDUSTRY TRANSFORMATION MAPS (ITM)

origin

THE INDUSTRY TRANSFORMATION MAPS

The ITMs were rolled out to help 23 key sectors to ride the wave of digital disruptions

The ITMs were developed by the Committee on the Future Economy (CFE), whose members were government ministers, the private sector, and the labour movement



2

PURPOSE OF THE ITM

The ITMs guide economic restructuring in four key pillars:

Innovation

Productivity

Job design and upskilling

Internationalisation

PART 1, Section 3:

Learning points

TABLE DISCUSSION: (5 MINS)

At your table, please discuss and share among yourselves what your observations are so far on Singapore's approach in economic strategies and workforce development?



LEARNING POINT 1: TIMELY STRATEGIC REVIEWS

Singapore conducted timely strategic reviews and formulated an overall economic direction on jobs creation and employment training needs

These were responsive to changing economic conditions and global trends and adopted strategic pragmatism and a developmental state model

The government adopted the 1961 United Nations study proposing an industrialisation export program to meet immediate economic aims and tackle unemployment



LEARNING POINT 2: GOVERNMENT INTERVENTIONS

Under the developmental state model, government must take an active role in workforce development to meet economic aims

Such governmental interventions include establishing governmental organs to actualise the reviews and plans formulated

The government set up the Economic Development Board on 1 Aug 1961 to spearhead the industrial drive and solicit foreign investment



LEARNING POINT 3: CONTINUOUS REVIEW EFFORTS

1

Government should continuously review the appropriateness of established agencies and institutions in both Pre-Employment (PET) and Continuing Education Training (CET) systems

eg

The formation of the Vocational and Industrial Training Board (VITB) on 1 Apr 1979 merged the Industrial Training Board set up in 1973 and the Adult Education Board (AEB) set up in 1960

This was done to integrate the activities of the education system with the changing demands of manufacturing jobs



LEARNING POINT 4: TRIPARTITE COLLABORATION

Tripartite collaboration and consultative dialogue with relevant stakeholders is key to ensuring everyone is on the same page

eg

Tripartism in Singapore came into being in January 1965 when unions and employers signed an agreement with the government to work together for the good of the country



LEARNING POINT 5: GOVERNMENT READINESS AND SPEED

Government must be ready to respond quickly and effectively during economic downturns

This helps save jobs by offering financial or training packages

The government implemented the "Skills Program for Upgrading and Resilience" (SPUR) initiative in 2009, providing S\$600 million over 3 years to send employees for training and cut employer costs, so that workers will be prepared to leverage on the next economic upswing



Part 2:

Case study of global best practices - CET Master Plans and SkillsFuture



origin Scope of Part 2

- 1. Singapore's CET landscape prior to SkillsFuture
- 2. Challenges faced
- 3. What is SkillsFuture and why
- 4. SkillsFuture suite of initiatives and applications
- 5. Government policy-level interventions



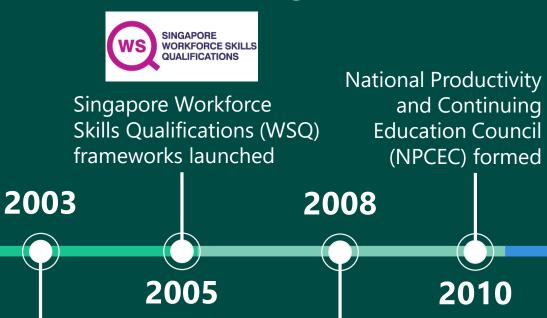
PART 2, Section 1:

Singapore's CET landscape prior to SkillsFuture

Overview of Singapore's Continuing Education and Training (CET) landscape

origin

Learning for Life



Workforce Development Agency (WDA) set up as a National Continuing Education and Training (CET) body

First Continuing **Education and** Training (CET) Masterplan launched

Learning for a New World

Roll out of SkillsFuture initiatives Committee on the Future Economy (CFE) formed







WDA restructured to form SkillsFuture Singapore (SSG) and Workforce Singapore (WSG)

2014

2017



2015 - 2016

Set up two new CET campuses 2nd CET Masterplan (CET 2020) developed

Future Economy Council (FEC) formed



Overview of Singapore's Continuing Education and Training (CET) landscape



Learning for Life



Singapore Workforce Skills Qualifications (WSQ) frameworks launched

2003





2005



Learning for a New World





2014



2015 - 2016





Workforce Skills Qualifications – WPLN & WPS

33

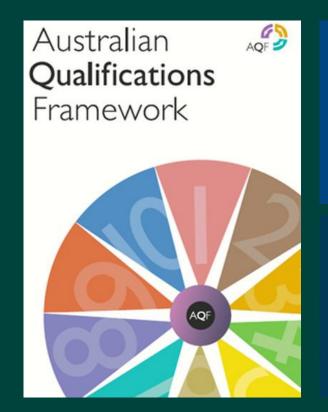
Industry
Competency Maps



Workplace Literacy & Numeracy Program (WPLN)



Workplace Skills (Soft skills) (WPS)





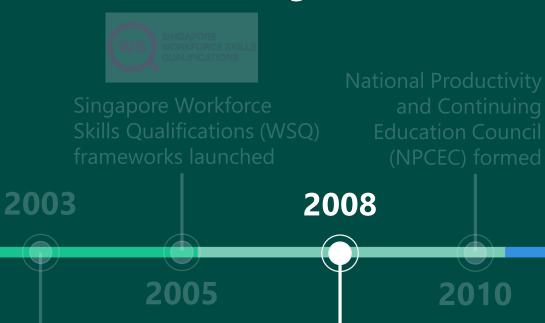
NVQ (National Vocational Qualification)



Overview of Singapore's Continuing Education and Training (CET) landscape



Learning for Life



Workforce Development Agency (WDA) set up as a National Continuing Education and Training (CET) body

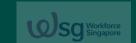


First Continuing Education and Training (CET) Masterplan launched

Learning for a New World

Roll out of SkillsFuture initiatives
Committee on the Future Economy (CFE) formed





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2014

2017



2015 - 2016

Set up two new CET campuses 2nd CET Masterplan (CET 2020) doveloped Future Economy Council (FEC) formed



1st CET Masterplan

- 1. To build the workforce of the future 60% of our resident workforce will have diploma qualification by 2020, as compared to 36% in 2007
- 2. To equip Singaporeans with the skills for job opportunities in new growth and emerging industries
- 3. Government topped up the Lifelong Learning Endowment Fund by \$800 million in FY 2008 to \$3 billion, and eventually to \$5 billion to support:
 - First class providers
 - 10 new CET centres in growth areas
 - Increase training capacity from 22,000 to 80,000 by 2010
 - Setting up Institute for Adult Learning to develop trainer capability and conduct applied research into adult training

Overview of Singapore's Continuing Education and Training (CET) landscape

2010

origin

Learning for Life



Workforce Development Agency (WDA) set up as a National Continuing Educatior and Training (CET) body

2005

First Continuing Education and Training (CET) Masterplan launched

Learning for a New World

Roll out of SkillsFuture initiatives
Committee on the Future Economy (CFE) formed



WDA restructured to form SkillsFuture Singapore (SSG) and Workforce Singapore (WSG)

2014 2017



Set up two new CET campuses

2nd CET Masterplan
(CET 2020) developed

Future Economy Council (FEC) formed





2nd CET Masterplan 2020

1. Increased involvement by employers in building and valuing skills

- Work with sector lead agencies to develop Sectoral Manpower Strategies
- WSQ frameworks to develop sectoral competency frameworks underpin PET and CET programs; to help HR practices for their employees and individuals to plan their careers
- Work with SMEs

2. Enable individuals to make informed learning and career choices

- Build a national portal for online education, training and career guidance
- Set up a Lifelong Learning Exploration Centre at Lifelong Learning Institute

3. Wide range of high-quality learning opportunities:

- Blended learning and Workplace-based learning
- Set up IN.LAB to support CET partners

The CET Campuses were built

TOP in Jun 2013



Devan Nair Institute for Employment & Employability (DNIEE)



Lifelong Learning Institute (LLI)



TOP in Oct 2013







Lifelong Learning Exploration Centre

origin

Empowers individuals to take charge of their personal lifelong learning journey as well as career planning and development.

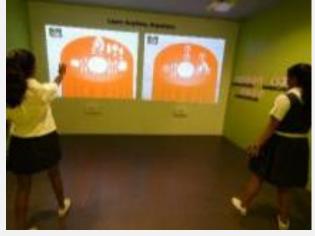


Free career profiling test + Discover a diverse range of careers and training courses across industries





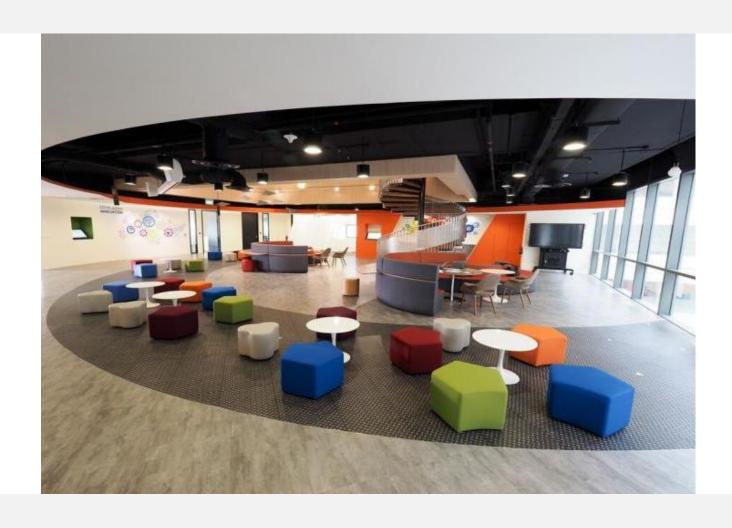








- 1. Catalyse learning innovation
- 2. Space for innovation
- 3. Facilitate collaboration
- 4. Spur knowledge exchange
- 5. Matchmake expertise
- 6. Strengthen capabilities



Innovation Lab (iN.LAB) to support CET partners and practitioners

PART 2, Section 2:

Challenges faced

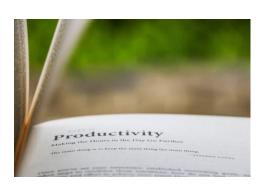
Challenges faced



Shrinking and rapidly aging workforce + changing nature of jobs



Rising expectations as more seek tertiary level qualifications



Lacklustre productivity due to external and internal factors



Employers cannot release staff for training

origin

The mode of learning is changing as employers demand for workplace-relevant learning closer to the workplace



Transfer of learning is difficult:



Learning in an era of disruption, transformation and reinvention has to be ADAPTIVE, FLEXIBLE, EFFECTIVE & INNOVATIVE

DISRUPTION TRANSFORMATION REINVENTION



Business Models



Work Processes



Job & Skills

Why firms don't do more skills training

50%

Difficult to commit employees for such initiatives due to lean workforce

38%

Other priorities to focus resources and time on

18%

Lack of relevant targeted training programmes for my sector 17%

Insufficient competent human resources personnel to support organisation 6%

Lack of leadership buy-in to participate in such initiatives

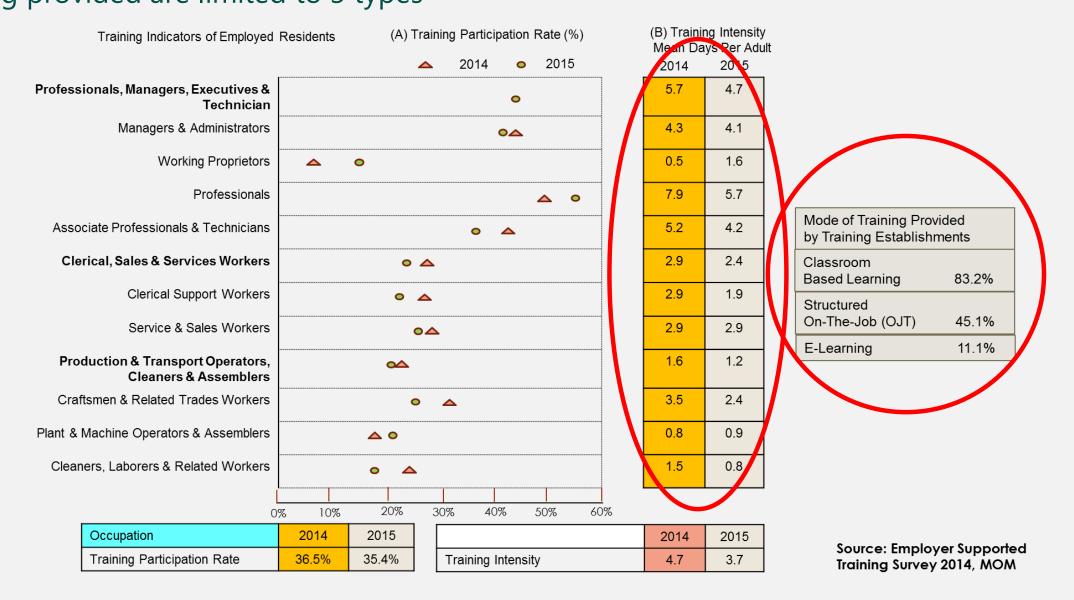
Source: SME DEVELOPMENT SURVEY 2016 STRAITS TIMES GRAPHICS

THE STRAITS TIMES

Published 3 Nov 2016

By 2014, the Singapore workforce generally participates in training, however training intensity fell nearly across board from 2014 to 2015, and modes of training provided are limited to 3 types





To recap, interventions that improved the situation:

DEMAND SIDE INTERVENTIONS

• Increase in training capacity from 22,000 to 80,000

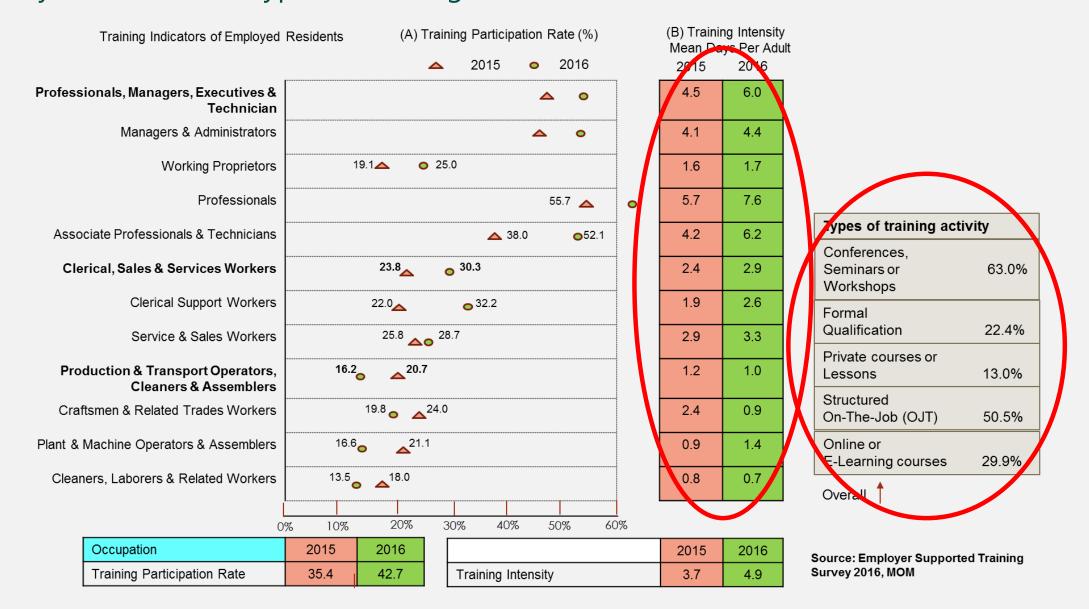
SUPPLY SIDE INTERVENTIONS

- Funding to support more 1st class training providers
- 10 new CET centres in growth areas
- Introducing Skills Development Fund and Lifelong Learning Endowment Fund to subsidise training costs
- Introducing blended (online) and workplace-based learning



By 2016, the situation has improved with higher participation rates, training intensity, and increased types of training





PART 2, Section 3:

What is SkillsFuture and why

SkillsFuture Singapore was set up as a statutory board under the Ministry of Education on 3 Oct 2016



- 1. To sharpen focus on skills development and drive SkillsFuture at an operational level
- 2. SkillsFuture Singapore will coordinate actions on both demand and supply-side challenges with agencies, and synergise with pre-employment training (PET) under the Ministry of Education













- 2. Strengthen the ecosystem of quality education and training, including adult training infrastructure and adult educators
- 3. Promote a culture of lifelong learning through pursuit of skills mastery
- 4. Raise quality of private education institutions and training providers



- 1. Statutory board formed on 4 Oct 2016 under Ministry of Manpower (MOM)
- 2. Help workers meet their career aspirations and secure quality jobs
- 3. Help companies to become manpower-lean enterprises to remain competitive



Vision

A nation of lifelong learners; a society that values skills mastery

Mission

Enable individuals to learn for life, pursue skills mastery and develop fulfilling careers, for a future-ready Singapore Build a better future based on skills

What is **SkillsFuture**?

A national movement to provide Singaporeans with the opportunities to develop their fullest potential through life through skills mastery and lifelong learning

- 1. Declining workforce growth and an aging population
- Technology and globalisation are changing jobs and skills
- 3. Aspirations for higher academic qualifications remain strong

Need to move towards a productivity and innovation-driven economy

- 2. Need to ensure workers' skills remain relevant and future-ready
- 3. Need to ensure good employment outcomes while preventing a "paper chase"



What does **SkillsFuture** cover?

- 1. Help individuals to make well-informed choices in education, training and careers
- Develop an integrated, high-quality system of education and training that responds to constantly evolving industry needs
- 3. Promote employer recognition and career development based on skills and mastery
- Foster a culture that supports and celebrates lifelong learning

"Our future must be about mastery of skills, in every job, and enabling every Singaporean to develop themselves to the fullest. We are going to put full effort into this, and it involves everyone – Government, employers, unions and all of us as individuals."

- DPM Tharman Shanmugaratnam, SkillsFuture Council 2014



Students

Make more informed learning and career choices Educators

Inspire joy of lifelong learning **Employees**

Prepare for tomorrow's jobs today

Embrace lifelong learning **Employers**

Recognise skills and mastery

Skills will be your edge

Training Providers

Deliver quality industryrelevant training

SSG supports a diverse CET landscape of public and private training providers



Autonomous Universities











Polytechnics & ITE















Government - linked **Providers**













and many more...

Private Training Providers







and many more...

Trade Associations' Training Arm











and many more...

Online Private Providers

udemy





and many more...

In-house **Providers***



SHANGRI-LA











and many more...

* Refers to business enterprises who conducts their own in-house WSO programs

Your SkillsFuture Journey



PART 2, Section 4:

SkillsFuture suite of initiatives and applications

Starting from the schooling years

origin

Education & Career Guidance (ECG) & MySkillsFuture

Improved and systematic **ECG** from early schooling years and throughout one's working life.

Personal online portfolio for learning and career needs, with resources that allow individuals to take charge of their career path and lifelong learning journey.



Enhanced Internships

Better support for **structured workplace learning**, locally and overseas.

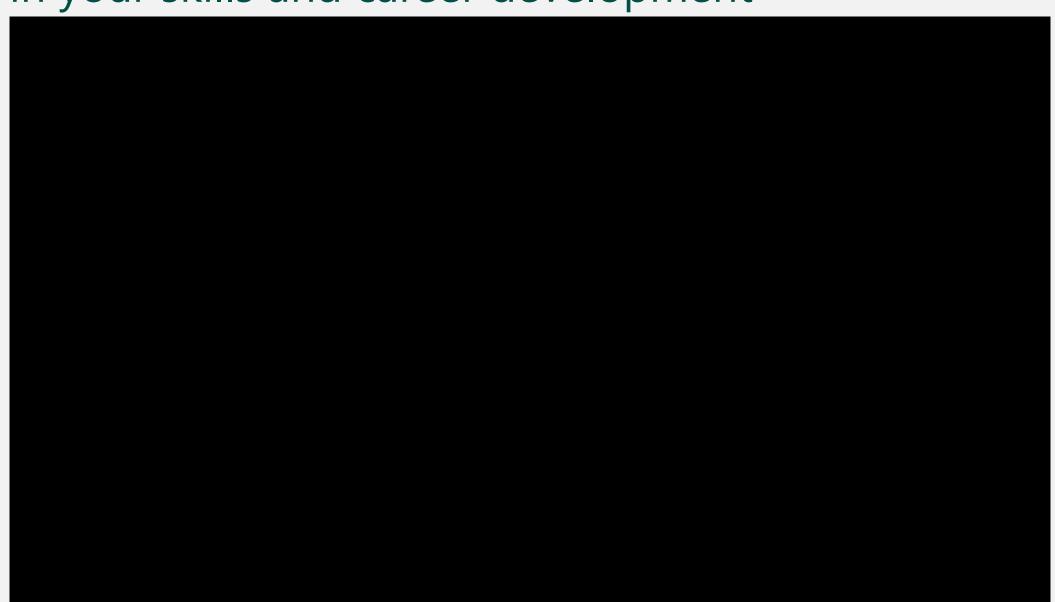
More defined learning outcomes, better integration of classroom and internship learning, extended internships to support better learning.

Young Talent Program

More **meaningful** internship and **immersion** experience for students.

MySkillsFuture Portal – How can MySkillsFuture help in your skills and career development





Starting from the schooling years

SkillsFuture Earn & Learn Program

Provides **fresh graduates** from polytechnics and ITE with a **head-start in careers** related to their discipline of study.

\$5,000 sign-on incentive to individuals; up to \$15,000 employer grant per trainee.

12-18 month work-study program with **industry-recognised certifications** and **career advancement pathways**.

SkillsFuture Work-Study Degree

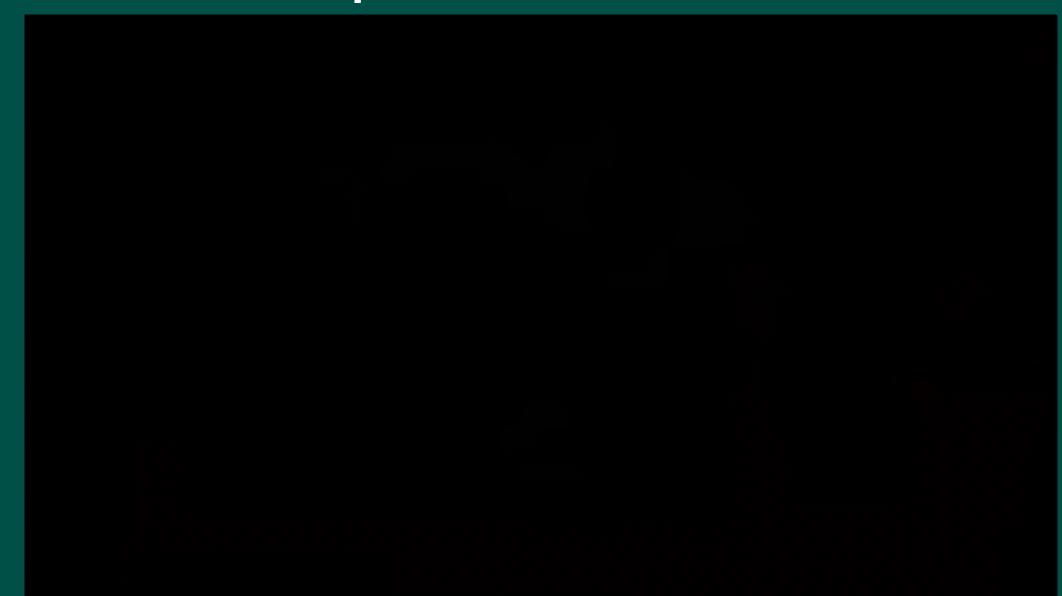
Allows university students to acquire deep skills while facilitating transition to the workplace after graduation.

Institution-based learning interlaced with **structured on-the-job training** with partner companies.



SkillsFuture Earn & Learn Program for the Game Development Sector

origin



Taking Learning into our Careers

SkillsFuture Credit

Strengthens **individual ownership** of skills development and lifelong learning.

Credit will not expire and can be accumulated.

Can be used for approved skills-related courses on top of existing government course subsidies.

SkillsFuture Qualification Award

Encourages individuals to attain WSQ full qualifications which equip them with skills to perform their jobs competently, pursue career progression and job opportunities.

Cash award of **\$200** or **\$1,000** per WSQ full qualification attained, depending on types of WSQ qualifications.





Taking Learning into our Careers

SkillsFuture Mid-Career Enhanced Subsidy

At least 90% of programme cost for MOE-funded full-time and part-time courses ranging from Nitec to postgraduate level.

Up to 90% course fee subsidies for SSG-supported certifiable courses.

Applicable to individualinitiated and employersponsored training. More Skills-Based
Modular Courses at PSEIs

Wider range of **flexible**, **modular**, **bite-sized** courses.

No cap on number of modules that individuals can take.

All diploma-level modular courses will be subsidised at same level as part-time diploma courses.



Targeted Support for Career Progression

origin

SkillsFuture Study Award

Encourages and supports
early to mid-career
Singaporeans in developing
and deepening
specialist skills in priority
sectors.

\$5,000 monetary award for out-of-pocket expenses incurred.

Given on top of existing government course fee subsidies, **no bond**.

For **individual applicants** and employer nominations.

SkillsFuture Fellowships & SkillsFuture Employer Award

Recognises and develops
Singaporeans with deep skills to
achieve skills mastery in their
respective fields.

\$10,000 monetary award for out-of-pocket expenses incurred, **no bond**.

For individuals with work experience and track record of contributing to skills development of others.

Exemplary employers recognised with SkillsFuture Employer Award.

SkillsFuture Fellowships and SkillsFuture Employer Awards 2019

origin



Targeted Support for Career Progression

SkillsFuture for the Digital Workplace

Bite-sized, modular training programs that aim to build **skills and mindsets needed for Singapore's future economy**.

Prepares the workforce with future-ready skills through understanding emerging technologies and their impact on work, learning to interpret and use data, as well as cultivating a mindset for change, innovation and resilience.



Targeted Support for Career Progression

SkillsFuture Series

Bite-sized, modular training programs that aim to develop Singaporean workforce in priority and emerging skills.

8 priority and emerging areas: - Advanced
Manufacturing; Cybersecurity; Data Analytics;
Digital Media; Entrepreneurship; Finance;
Tech-Enabled Services; and Urban Solutions
offered by IHL in three proficiency levels (i.e.
basic, intermediate and advanced)



Targeted Support for Career Progression



SkillsFuture Engage for Individuals

Community outreach to help more Singaporeans benefit from SkillsFuture and guide them in finding right resources to prepare themselves for the future.

Basic career and training advisory delivered by the Community Development Councils (CDCs).



TechSkills Accelerator (TeSA)

Supports professionals to acquire **new skills and knowledge in the ICT sector** to keep pace with the fast-moving digital landscape.

Provides fresh or mid-level professionals from the ICT or STEM disciplines with relevant skills for technical roles in demand, placement into tech job roles, and industry-recognised qualifications.



Closer Collaborations with Industry

origin

SkillsFuture Career Advisors Program

Taps on **knowledge and expertise of industry veterans** to help individuals
make informed career choices.

Available for Infocomm Technology and Early Childhood Care and Education sectors



SkillsFuture Mentors

Developing a **pool of mentors to help SMEs**develop the potential of their
workforce.

Mentors with relevant sector-specific experience matched with SMEs by industry partners (eg. TACs).

Help supervisors/managers to develop coaching skills.

Facilitating PME placements in SMEs.

Up to **90% course fee funding** for SME and PME workshops.

\$5,000 assistance grant for SMEs who retain PMEs for 6 months.

Closer Collaborations with Industry

SkillsFuture Leadership Development Initiative

Developing the next generation of business leaders by helping aspiring Singaporeans to acquire leadership competencies and critical experiences.

Designing and implementing leadership development roadmaps, including general leadership and management programmes.

On-the-job training opportunities across functions and/or markets.

Skills Framework (SF)

Provides sector-specific key information on employment, career pathways, occupations/job roles, as well as existing and emerging skills required.

Creates a common skills language and facilitates skills recognition among individuals, employers and training providers.



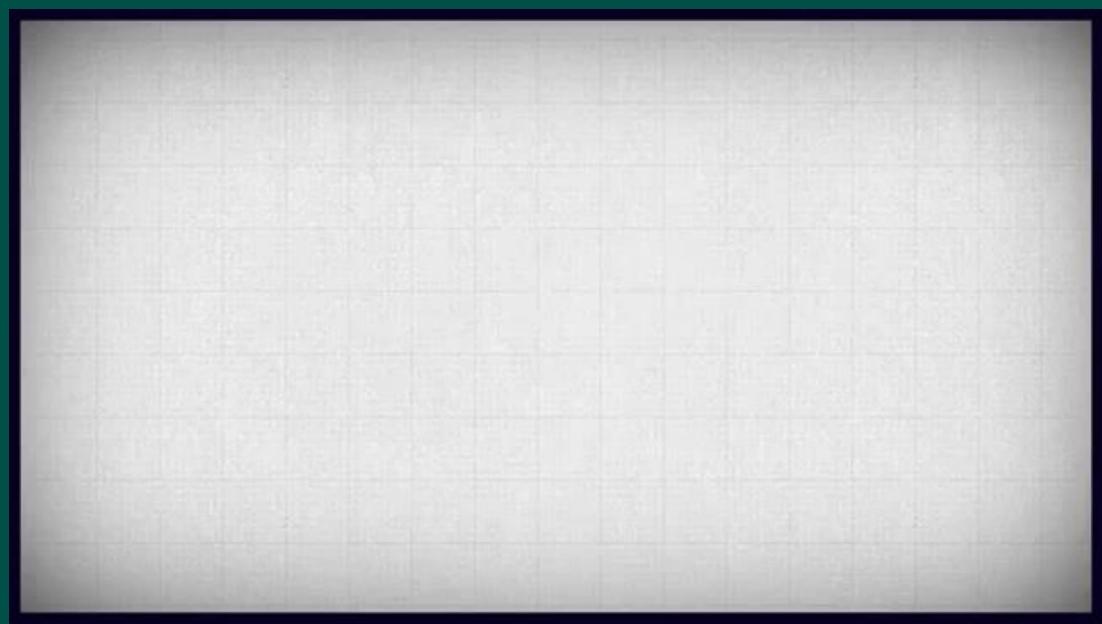
Skills Framework for Human Resource

A Guide to Occupations and Skills



ST Engineering's SkillsFuture Journey





PART 2, Section 5:

Forming of high-level governance committee, Council for Future Economy & development of Industry Transformation Maps

Overview of Singapore's Continuing Education and Training (CET) landscape



Learning for Life

SINGAPORE WORKFORCE SKILLS QUALIFICATIONS

Singapore Workforce
Skills Qualifications (WSQ)
frameworks launched

National Productivity and Continuing Education Counci (NPCEC) formed

2003

2008



2010

Workforce Development Agency (WDA) set up as a National Continuing Education and Training (CET) body First Continuing Education and Training (CET) Masterplan launched

Learning for a New World

Roll out of SkillsFuture initiatives Committee on the Future Economy (CFE) formed





WDA restructured to form SkillsFuture Singapore (SSG) and Workforce Singapore (WSG)

2014

2017



2015 - 2016

Set up two new CET campuses

2nd CET Masterplan

(CET 2020) develope

Future Economy Council (FEC) formed



COMMITTEE ON THE FUTURE ECONOMY REPORT LAUNCH



In 2016 the Committee on the Future Economy (CFE) was formed with 5 sub-committees:

- (1) Future Corporate Capabilities and Innovation
- (2) Future Growth Industries and Markets
- (3) Future of Connectivity
- (4) Future City
- (5) Future Jobs and Skills

Committee representatives are from both the private and public sectors

Each sub-committee will be co-chaired by a Minister and a private sector CFE member

futureeconomy.sq

serves as a comprehensive site for those keen to find out more



In 2017 the Future Economy Council (FEC) drives the growth and transformation of Singapore's economy for the future:

Chaired by DPM and Minister for Finance, Mr Heng Swee Keat, the Council comprises members from government, industry, unions, and educational & training institutions The FEC will oversee the implementation of the recommendations put forth by the CFE

The FEC will build on the work of the earlier Council for Skills, Innovative and Productivity (CSIP), which includes SkillsFuture initiatives and Industry Transformation Maps

INDUSIRY TRANSFORMATION MAPS

A strategy to promote growth and competitiveness for 23 industries. Each Industry Transformation Map (ITM) integrates productivity improvement, skills development, innovation and internationalisation. To be developed and implemented in partnership with industry partners, they will help to achieve our vision for the sectors and create good jobs for Singaporeans.

www.mti.gov.sg/MTIInsights/Pages/ITM.aspx

FOLICATION AND TRAINING PROVIDERS



INNOVATION

- . Leverage technology to drive innovation and value-creation
- · Build enterprise capabilities and sector infrastructure
- . Develop own products and brands





INTERNATIONALISATION

- · Develop core of globally-competitive local enterprises
- Access global markets through digital channels
- Leverage international networks for market access

DESIRED OUTCOMES

FOR COMPANIES

- · Strategies that provide integrated assistance across domains
- Stronger support for Innovation and internationalisation
- · Single govt agency to Integrate transformation efforts

FOR WORKERS

- · New and re-designed jobs with better wages
- More opportunities overseas
- · Stronger support for upgrading and skills deepening



B



JOBS & SKILLS

- · Promote manpower-lean enterprise development
- . Equip Singaporeans with skills to support the shift to greater value creation
- Develop comprehensive ecosystem for skills development and lifelong learning
- Strengthen enterprise HR capabilities to maximise workforce potential



PRODUCTIVITY

- Shift towards higher-value added activities
- Drive operational excellence
- Establish shared industry platforms for mass adoption

Six Clusters of Industries















LIFESTYLE

23 Industry Sectors within the Six Clusters

Manufacturing



Built Environment





Essential Domestic Services



Modern Services



Lifestyle



Part 3:

iR 4.0, Future of Work & Talent Management



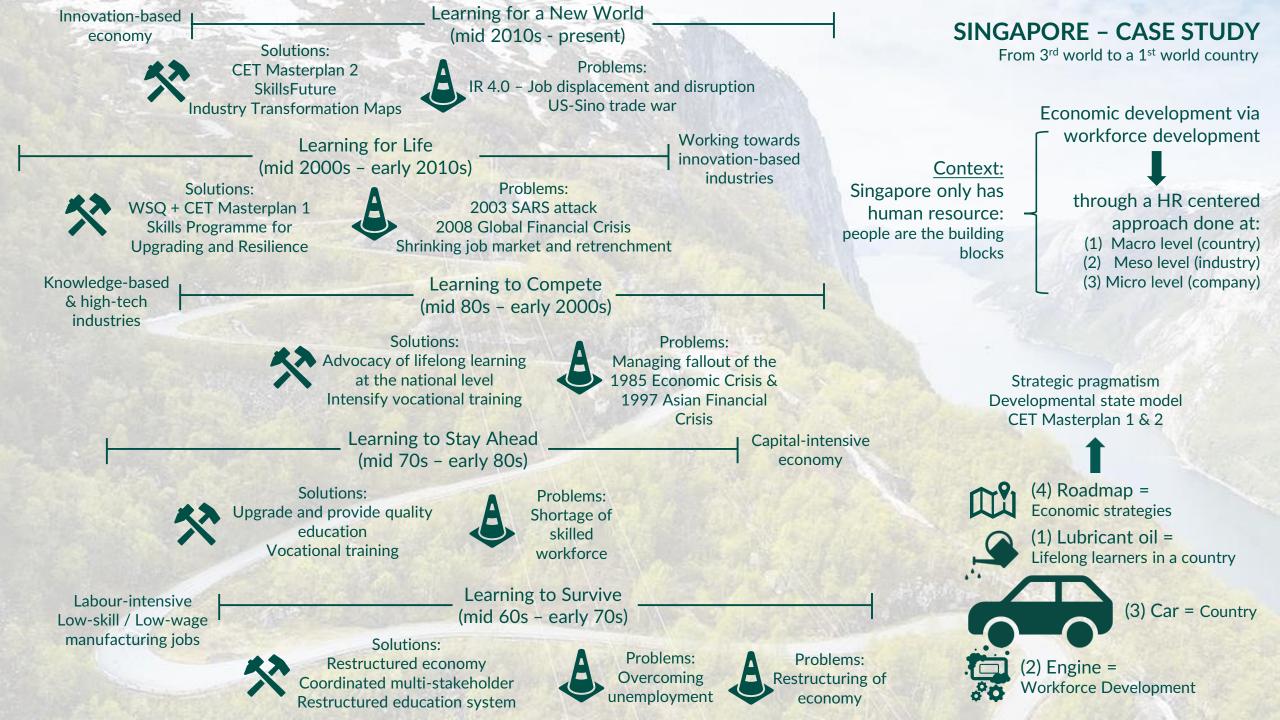
origin Scope of Part 3

- 1. Concluding remarks of Singapore's case study
- 2. Workforce development & lifelong learning
- 3. Understanding iR 4.0 & Future of Work
- 4. Disruptive technologies and concerns of HRM in iR 4.0
- 5. Application of disruptive technologies and workforce development



PART 3, Section 1:

Concluding remarks of Singapore's case study



Nation-building, an ongoing journey & work-in-progress

STRATEGIES:

- 1) Conduct timely strategic reviews
- 2) Initiate State's interventions
- 3) Continue to learn and review our strategies
- 4) Adopt a tripartite collaboration and public & private partnership
- 5) Act readily and quickly

There will always be new internal and external challenges... but what is important is the quality of the lubricant oil we use for our workforce development engine.

Our citizens must become lifelong learners.



PART 3, Section 2:

Workforce development & lifelong learning

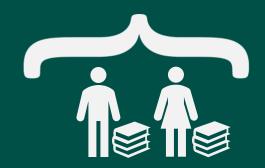
Relationship between lifelong learning & workforce development

origin

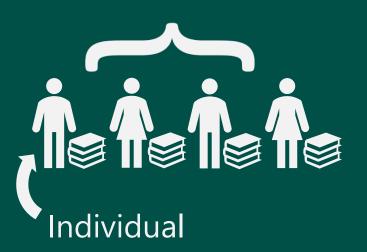
Entire economy – lifelong learners -

Entire economy – workforce devt -

Industries

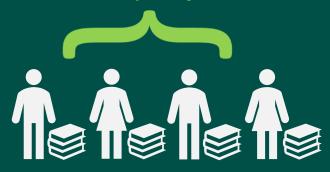


Friends, families, workplaces





Workforce development at company level



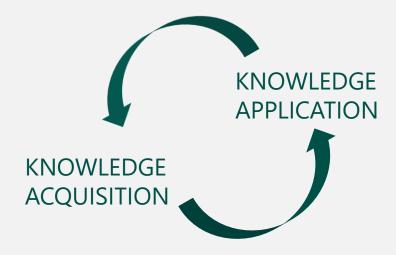




What is lifelong learning?

It is **ongoing**, **voluntary** and **self-motivated learning** throughout the **various stages of one's life**.

It can be done for **personal or professional reasons**, or a mixture of both.



Due to the increased pace of change and disruption, shortened life cycles of skill competencies, and longer lifespans, learning is better seen as an ongoing cycle across our entire life.





Definition and Purpose of Lifelong Learning

1996 Delors Report adopted by UNESCO on the 4 pillars of learning:

- Learning to know broad general and cross-subject knowledge
- **2. Learning to do** occupational skills, flexibility and teamwork
- **3. Learning to be** personality, autonomy, judgment and personal responsibility
- **4. Learning to live together** understanding others and appreciating interdependence

PART 3, Section 3:

Understanding iR 4.0 & Future of Work

Understanding iR 4.0

A recap of the past industrial revolutions:

1st **iR**: used water and steam power to mechanise production.

2nd iR: utilised electric power to create mass production.

3rd iR: used electronics and information technology to automate production.

The current industrial revolution...

...is a wave of digital transformation that is characterised by a range of new technologies that are fusing physical, digital and biological worlds.

It will impact all disciplines, economies and industries, and it will challenge existing ideas.



"The 4th Industrial Revolution will fundamentally alter the way we live, work and relate to one another."

Klaus Schwab,
 Founder & Executive
 Chairman of the World
 Economic Forum

What sets the 4th iR apart from the others?

Velocity

The rate which current breakthroughs are happening has no historical precedent; it is happening at an exponential rate rather than a linear pace.



Scope

Almost every industry in every country at varying stages of development is being disrupted; no one will be spared from the challenges of remaining relevant.



Extent of systems impact

The breadth and depth of these changes herald the transformation of entire systems of production, management, and governance.



PART 3, Section 4:

Disruptive technologies and concerns of HRM in iR 4.0

Examples of disruptive impact by iR 4.0









UBER





Handle Robot Reimagined for Logistics

origin



This DNA test claims it allows prospective parents to weed out IVF embryos with a high risk of disease or low intelligence.

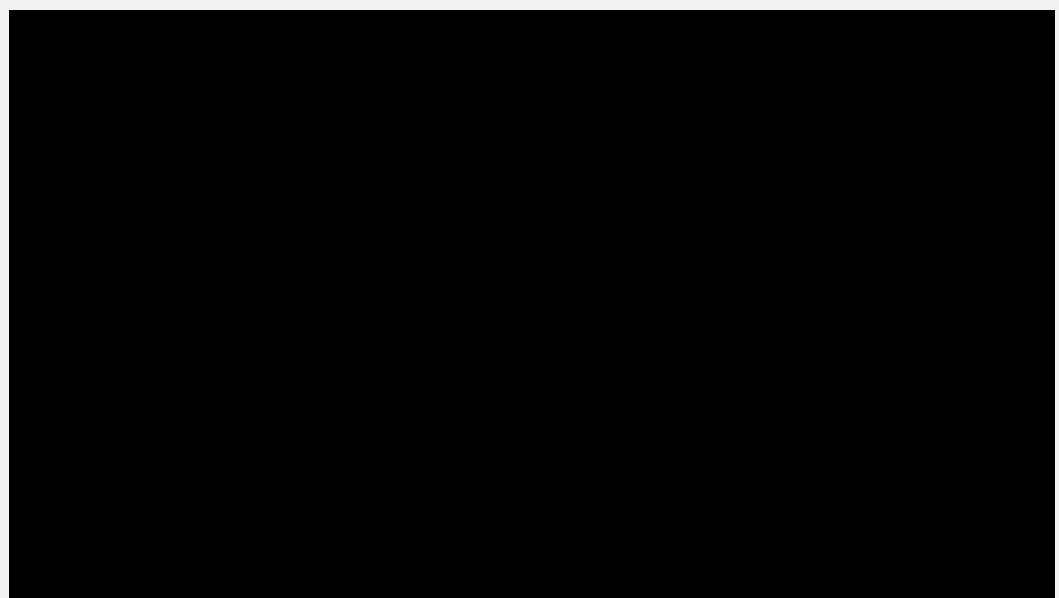
The world's first Gattaca baby tests are finally here

The DNA test claims to let prospective parents weed out IVF embryos with a high risk of disease or low intelligence.



The use of artificial intelligence to address food waste





The Future of Work Dynamic play of 3 factors

Technological Changes

Impact from AI, robotics and big data analytics will transform entire industries and disrupt the labour market

Learning Evolution

Affects workforce readiness and skills gaps; the speed of curricula updating and retraining opportunities will make a difference

Talent Mobility

Physical movement of workers between and within territories will be affected by economic opportunity, crises and politics



| Technological change | Steady | Accelerated |
|----------------------|--------|-------------|
| Learning evolution | Slow | Fast |
| Talent mobility | Low | High |

SKILLED HES TO SHEET SHE

| Technological change | Steady | Accelerated |
|----------------------|--------|-------------|
| Learning evolution | Slow | Fast |
| Talent mobility | Low | High |

EMPOWERED ENTREPRENEURS

| Technological change | Steady | Accelerated |
|----------------------|--------|-------------|
| Learning evolution | Slow | Fast |
| Talent mobility | Low | High |



| Technological change | Steady | Accelerated |
|----------------------|--------|-------------|
| Learning evolution | Slow | Fast |
| Talent mobility | Low | High |

AGILE ADAPTERS

| Technological change | Steady | Accelerated |
|----------------------|--------|-------------|
| Learning evolution | Slow | Fast |
| Talent mobility | Low | High |

ROBOT

| Steady | Accelerated |
|--------|-------------|
| Slow | Fast |
| Low | High |
| | Slow |



| Technological change | Steady | Accelerated |
|----------------------|--------|-------------|
| Learning evolution | Slow | Fast |
| Talent mobility | Low | High |



| Technological change | Steady | Accelerated |
|----------------------|--------|-------------|
| Learning evolution | Slow | Fast |
| Talent mobility | Low | High |

Example: PRODUCTIVE LOCALS

Accelerated tech changes = machines performing routine, non-routine, manual, non-cognitive tasks

Fast learning evolution =

concerns about disruption led to education reforms, local skills gaps led to company investment in training and reskilling; new ethos for lifelong learning led to increased dynamism in the workforce

Low talent mobility =

Economies that invested heavily in high-skilled talent are reluctant to lose it and try to resist high migration rates; high engagement on global online platforms mean low mobility does not prevent economies from thriving

PART 3, Section 5:

Application of disruptive technologies and workforce development

Example: New technologies + data analytics disrupting HR

Compensation & benefits

Poor employee engagement from disconnected employees with poor rewards and recognition



Training & development

Under stress in the 4th iR as skills become obsolete fast and new skills become required



4th iR changes:
Big data + datadriven approach
to solve HR
issues

Performance management

Suffers from inaccuracy, psychological biases, politics



Insights Analysed information to aid evidence-based decision-making

Information

Prepared data that has been processed

In the context of HR:

Information is displayed via dashboards & reports Dashboard can show overall churn by showing number of new hires and resignations

Data

Raw unprocessed facts
Currency of the future
Professionals must gather, clean, understand it

In the context of HR:

Performance management figures
Skills & competency ratings
Number of new hires
Number of employee resignations

How HR professionals can use data and HRM SaaS to contribute to strategic HRM

Compensation & benefits



Provides evidence-based data for discussion of fair compensation and bonuses Positive reinforcement for training



Training & development

Track ROI of time/money spent on as well as suggest training courses



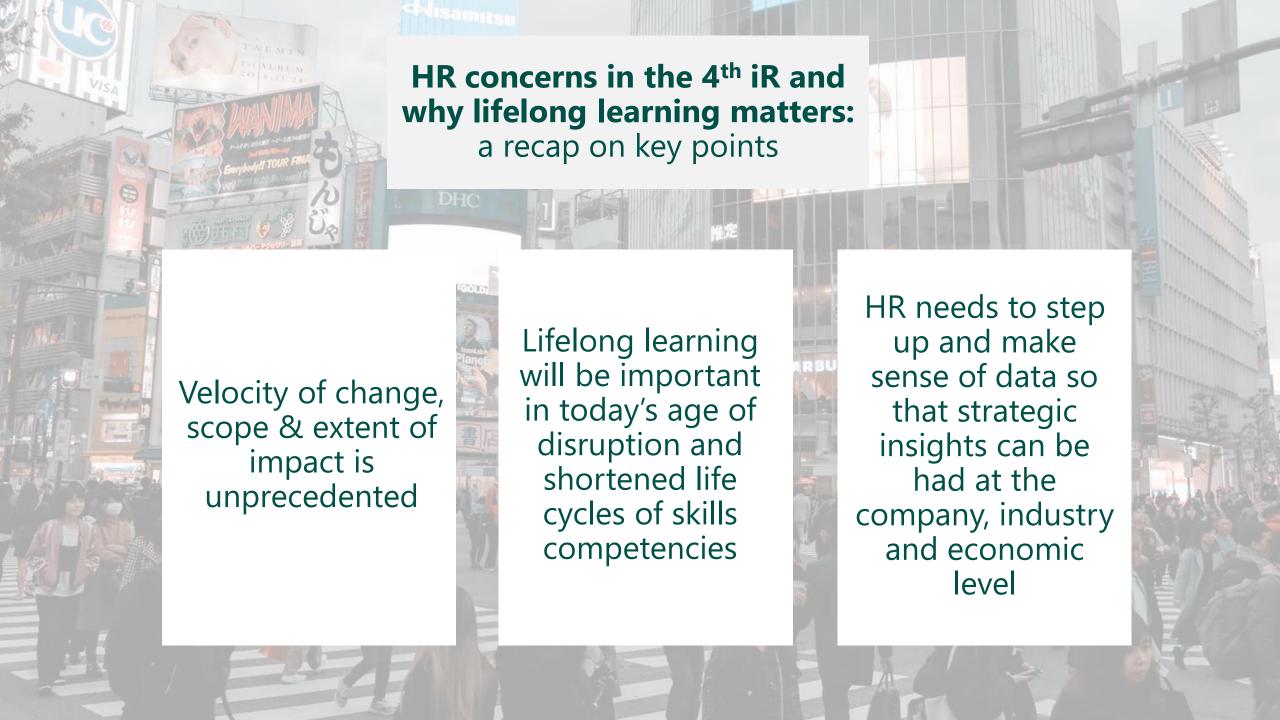
Performance management

Track performance and eliminate biases, politics

Aid in meaningful review and resilience training

Provides for career and succession planning by analysing data

May be able to advise which job roles should be pursued for higher chance at an individual's dream job



Some key trends and challenges HR is facing (Deloitte 2019 insights)

Future of the workforce: the alternative workforce

- 1. Contract, freelance, gig employment are now mainstream
- 2. Skills gaps and lower birth dates mean this alternative workforce is important

Accessing talent

1. Record-low unemployment rates, high rates of employee-initiated turnover and skills shortages = difficult recruitment

Putting meaning back into work

- 1. HR must recognise experience at work is more than just perks, rewards, or support
- 2. They should move towards job fit, design and meaning



Source: Deloitte Global Human Capital Trends survey, 2019.

How does lifelong learning fit in?

PLUGGING SKILLS GAPS

Disruptions occur faster and more frequently in the 4th iR = life cycles of skills competencies shorten

More deep technical skill sets may need to be picked up over the course of a life time

"π"

CHANGING JOB DESCRIPTIONS AND FUNCTIONS

Changing expectations to the future of work as well as job fit, design and meaning means the individual will have to take a greater role in self-directed lifelong learning



Case Study: How the SkillsFuture Framework and an ERM solution would support companies and governments to identify skills gaps



Skills Framework for Human Resource

A Guide to Occupations and Skills



Upgrade your workforce with the Skills Framework



| Generic Skills & Competencies | > |
|-------------------------------|-------------|
| | Advanced |
| | |
| la 01 anno 11 ann | .: . |

| Technical Skills & Competend | cies |
|---|---------|
| Business Acumen | Level 6 |
| Career Framework Design | Level 5 |
| Conduct and Behaviour Management | Level 5 |
| Contingent Workforce Management | Level 6 |
| Diversity and Inclusion Management | Level 5 |
| Employee Communication Management | Level 4 |
| Employee Engagement Management | Level 6 |
| Employer Branding | Level 6 |
| Executive Remuneration Management | Level 6 |
| Financial Acumen | Level 5 |
| Human Resource Advisory | Level 6 |
| Human Resource Analytics and Insights | Level 5 |
| Human Resource Digitalisation | Level 6 |
| Human Resource Policies and Legislation Framework Management | Level 5 |
| Human Resource Practices Implementation | Level 5 |
| Human Resource Service Quality Management | Level 6 |
| Human Resource Strategy Formulation | Level 6 |
| Industry Networking | Level 6 |
| Labour Relations Management | Level 5 |
| Loadorchin Davalanment | Lovel 6 |

Skills & competencies of a Chief Human Resource Officer in the SF

Leadership

Decision Making

Communication

Global Mindset

Interpersonal Skills



Insights and benefits

ERM + SF at the company level



ERM solution will incorporate these skills & competencies into a **PM dashboard**



Detailed data = insights on where certain skills and competencies fall short

AI / T&D dept



Knowledge of ROI on training Can advise CEO on strategic levels

Plan career advancements & personal development

Insights on emerging skills and competencies for any industry/role results in proactive management of skills gaps

Better performance

Staff members see tangible improvements, get rewarded appropriately, and get positively reinforced to seek self-development and practice lifelong learning



Insights and benefits

ERM + SF at the macro-level



Governments can use the data to build national job portals for the workforce to find jobs to operationalise workforce development

→

Companies and governments can benchmark against global positions to plan more strategically to address skills gaps



Governments can forecast in which industries they wish to pursue economic development and how much of a skills gap there will be



ERM solution will scrap data on comparable global job descriptions

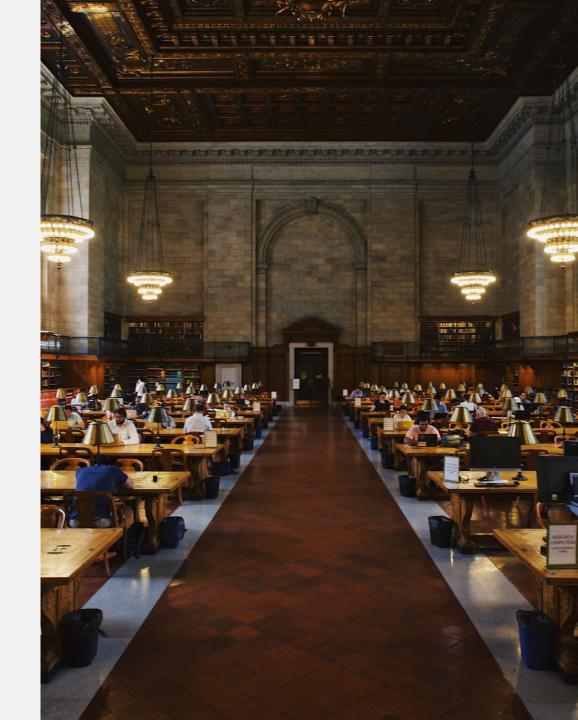
How to promote self-directed learning and take ownership for lifelong learning?

State fostered conducive environment

- 1. Singapore's SkillsFuture efforts
- 2. Coordination efforts with training providers and IHLs to produce curriculum
- 3. Leverage on learning technology

Individual-centric efforts

- 1. Peer learning
- 2. Seek out coaching/mentoring
- 3. Positive reinforcement
- 4. Training recommendations



Part 4:

Promotion of lifelong learning and setting up of learning neighbourhoods



Origin Scope of Part 4

- 1. Lifelong Learning Council 4 thrusts
- Setting up learning neighbourhood –SWCDC as an example
- 3. Other examples of lifelong learning in the world the Global Network of Learning Cities



PART 2, Section 1:

Singapore's CET landscape prior to SkillsFuture

What does **SkillsFuture** cover?

- 1. Help individuals to make well-informed choices in education, training and careers
- 2. Develop an integrated, high-quality system of education and training that responds to constantly evolving industry needs
- 3. Promote employer recognition and career development based on skills and mastery
- Foster a culture that supports and celebrates lifelong learning



The Lifelong Learning Council was set up in end 2014 to support the lifelong learning movement



The Lifelong Learning Council

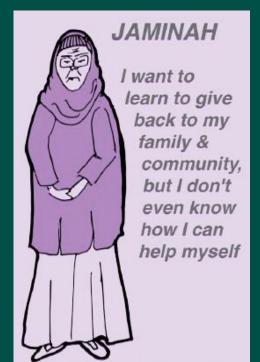
The 1st Council member was appointed in Oct 2014

The Council was formed by WDA to help spread the message of lifelong learning amongst Singaporeans

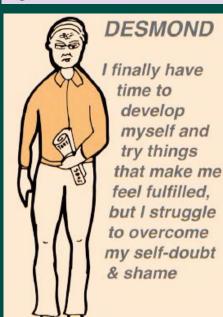
The council comprises of **7** private, **4** people and **3** public sector leaders to facilitate partnerships amongst stakeholders to promote learning

Starting from top left and going clockwise, the illustrations are of a few archetypes of beneficiaries:

A senior, parents with young children, a mid-career professional/manager/executive, and someone between jobs









SHUI FUNG

Work has
helped me to
expand my
confidence in
my capabilities
& performance
at the office,
but it has
lowered my
curiosity to
explore areas
of personal
interest

Promote Lifelong Learning Mindset

raised awareness & desire

Key Thrusts & Initiatives

origin

Signature event: Lifelong Learning Festival

Pledge-to-Learn

Lifelong Learning Communications Campaign

SkillsFuture Outreach

Foster a Supportive Environment

encouraged & celebrated

"Tinkerama"

Learning-thru-Play (LTP) Toolkit

"Learning@Work Bootcamp"



Provide Accessible Learning Opportunities

low barriers of entry

"Learning-on-the-go" Gateway

Community Learning Nodes

Mid-Career Enhanced Subsidy, SkillsFuture Credit, MySkillsFuture (ILP) & other SkillsFuture initiatives

Nurture Community Involvement

ground-up & part of social fabric

"LearnSG Seed Fund"

Synergise & multiply community advocacy/outreach/programs

Long-term "DNA collaboration" – Science Centre, NLB, C3A, SIT...



Lifelong Learning Festivals



- Raise awareness and inspire lifelong learning
- Galvanise community partnerships
- Kick-start lifelong learning festival and specific lifelong learning initiatives

LLF 2015 LLF 2016 LLF 2017 & beyond



Wide range of participants & partners

> 6,000 footfalls

Island-wide community LLFs > 10,000

>10,000 footfalls

High impact national LLF

origin

Engaging and Experiential

Pledge-to-Learn, Learning-onthe-Go Gateway & Tinkerama

Movie with facilitators

Interactive exhibits

Informative

Workshops & skills demonstrations

Informative booths from PSEIs, employers, community & TPs

SkillsFuture Festival 2018



SkillsFuture Festival 2019





Learning-on-the-Go Gateway / Pledge to Learn

KEY THRUSTS/INITIATIVES OF LLC

Promote Lifelong Learning Mindset

raised awareness & desire

Provide Accessible Learning O
low ba

Foster a Supportive Environmen

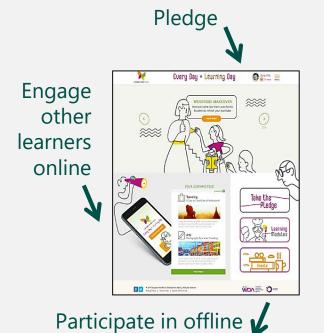
encouraged & celebrated

Nurture Community Involvement around-up & part of social fabric

Enable learning on the go: Anyone, Anywhere, Anytime Build communities of leaners

Target learner groups: community at large

Strategic partners: communities



learning activities

Nov 2015
- new learning
resources from
LLC
- PTL with friends

2016
- learning resources from communities

build Communities of Interests (COI) groups

2017 & beyondproliferate COI groups from online to offline

Community Learning Nodes

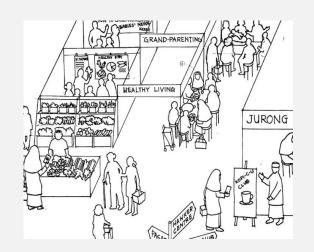
Bring learning to the community

Dedicated zones in neighbourhood areas

Lower barrier of entry by engaging in daily familiar setting

Short talks/courses, hands-on learning

Target learner groups: community at large



Q2 2016
- Pilot Kopi-C-U at Kopi
Corner

Q4 2016
- Roll out Kopi-C-Us at Kopi Corners

2017 and beyond
- Proliferate Kopi-C-Us
SIT & HDB Learning
Nodes

KEY THRUSTS/INITIATIVES OF LLC

Promote Lifelong Learning Mindset raised awareness & desire

Provide Accessible Learning Opportunities

low barriers of entry

Foster a Supportive Environmen

encouraged & celebrated

Nurture Community Involvement

ground-up & part of social fabric



Enhance Workplace Learning in SMEs

Projects to examine and improve workplace learning practices in enterprises

Target learner groups: SMEs, Learning and

Development professionals

Strategic partners: Institute of Adult Learning & SPRING

KEY THRUSTS/INITIATIVES OF LLC

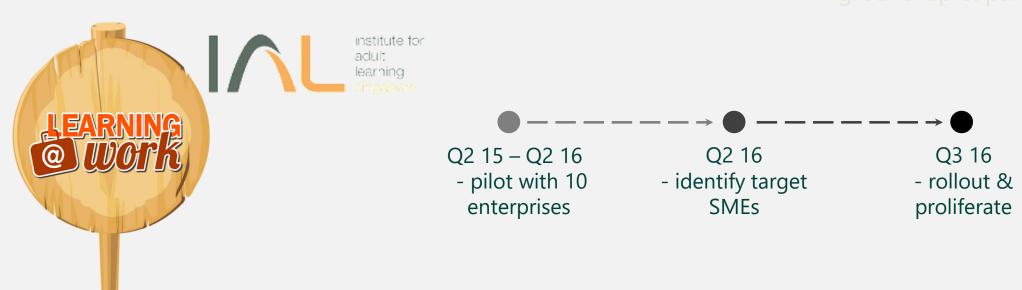
Promote Lifelong Learning Mindset raised awareness & desire

Provide Accessible Learning Opportunities low barriers of entry

Foster a Supportive Environment

encouraged & celebrated

Nurture Community Involvement around-up & part of social fabric



Grow ground-up community learning initiatives

KEY THRUSTS/INITIATIVES OF LLC

Promote Lifelong Learning Mindset raised awareness & desire

Provide Accessible Learning Opportunitieslow barriers of entry

Foster a Supportive Environment encouraged & celebrated

Nurture Community Involvement ground-up & part of social fabric

Grow ground-up community learning initiatives Two-tracked structure: (\$3,000,000 budget)

- 1. Small scale projects to encourage ground-up learning, capped at \$5,000, minimal tracking
- 2. Large scale projects that may be scaled up to community/national level, capped at \$50,000, specific deliverables

Target learner groups: grounds of individuals, organisations and schools



Nov 2015
- announcement by
Ag Min MOE (Higher
Ed & Skills) at LLF

Jan 2016
- first call for LearnSG Fund

2017 & beyondkick-start organic study circles to compliment COI

Mental health, parenting, financial talks by experts for one-north community

origin







1,500 participants in 10 workshops over 10 days









Inspiring 13,000 employees across 11 subsidiaries to adopt learning mindset

origin





3-Phase campaign in 6-month duration: learning pouch, collaterals, video

origin





Learn through making - cultivating a child's curiosity, creativity, and problem-solving skills

origin



Come and Make (Jun – Dec 2016, every fortnight) At Pavilion Under Blk 622 Bukit Batok Central

Self-directed learning through making

origin



Come and Make (Jun – Dec 2016, every fortnight) At Pavilion Under Blk 622 Bukit Batok Central

Family bonding and fun

origin



Come and Make (Jun – Dec 2016, every fortnight)

Real-world learning through electronics





Multiplier Effect in seeding the passion for electronics among our primary school students



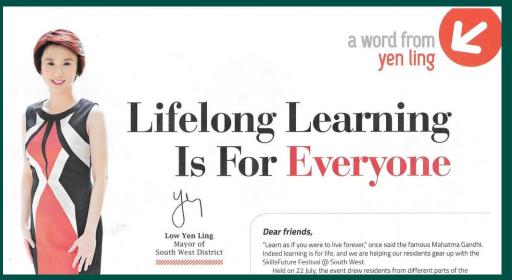


PART 2, Section 2:

Setting up learning neighbourhood – SWCDC as an example

Advocating Lifelong Learning in SWCDC - Articles







Advocating Lifelong Learning in SWCDC - Articles

origin



WE HOPE TO SPARK NEW CURIOSITY
IN OUR RESIDENTS TO PURSUE
LEARNING AT WHATEVER STAGE
OF LIFE THEY ARE AT. This positive
attitude will arm them with the vigour to
pick up new ideas and know-how that will
not only enrich their lives but also give
them resilience for the future."

Ms Low Yen Ling
Mayor of South West District

Mayor Low and Mr Zaqy
pertine link an how to

STILL LEARNING, 20 YEARS ON

"Given my years of experience as a chef, I thought I knew everything about cooking. I had a lot of doubt when I heard about the 'regeneration technique' (a process to preserve cooked food, which can then be reheated for serving without compromising on the food quality) about 20 years ago. Today, this technique is widely used at established restaurants and hotels. In my own restaurant, regeneration technique is used for almost all the food we serve.

It is difficult to change our mindset sometimes. But we need to adapt to the changes that are happening in our lives. We must keep learning and constantly upgrade our skills to keep up. SkillsFuture provides a great platform to do just that."

Chef Heman Tan, Executive Chef of Iron Supper Club

20 BRIDGE

Advocating Lifelong Learning in SWCDC - Articles





Mayor Low and Mr Desmond Lee watering seedlings grown on planter boxes, which are kept at waist-level so that senior can tend to the vegetation easily

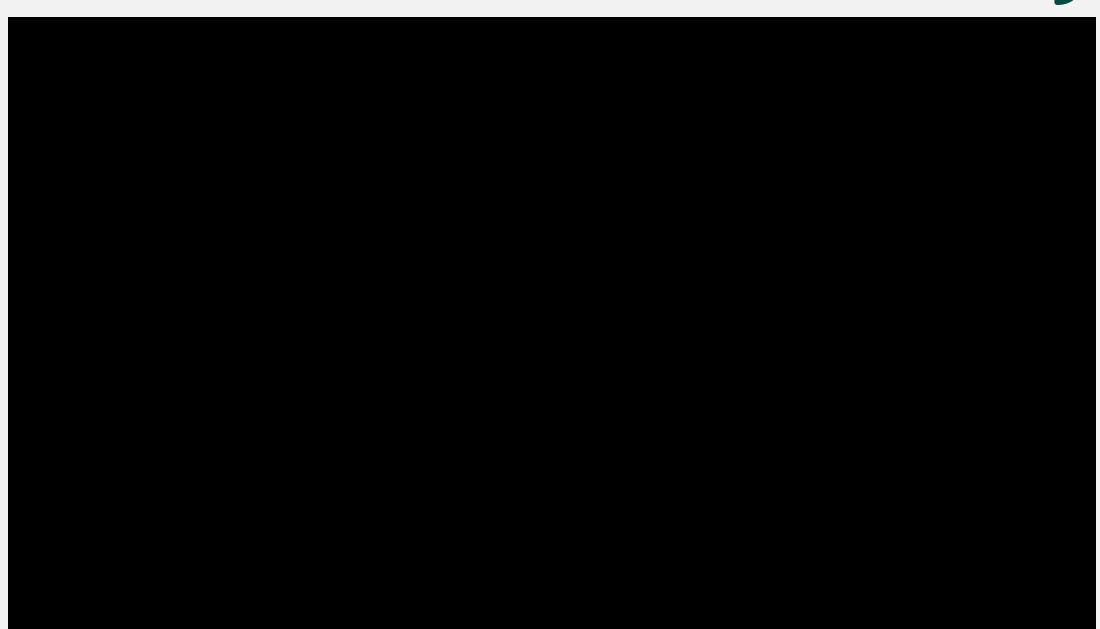


PART 2, Section 3:

Other examples of lifelong learning in the world – the Global Network of Learning Cities

UNESCO Global Network of Learning Cities





Map representation of the winners of the 2019 GNLC Learning City Award





Sønderborg, Denmark

Promoted sustainability far beyond its formal education system, and created a coordinated structure for stakeholder involvement that will ensure continued progress as a learning city.

Achieved outstanding results in reduction of CO².

Pursued more efforts to:

Become a sustainable city Expand learning in informal spaces Intensify the use of modern technologies in the learning process







City population GDP per capita 74,737 USD\$ 56, 394

Land area 495 km²



Seodaemun-gu, Republic of Korea

Took advantage of its many high-rise apartments by creating small learning communities

These communities teach 50 courses each year in citizens' living rooms

Around 30,000 people are illiterate, and integration plans are necessary to avoid social isolation and urban poverty

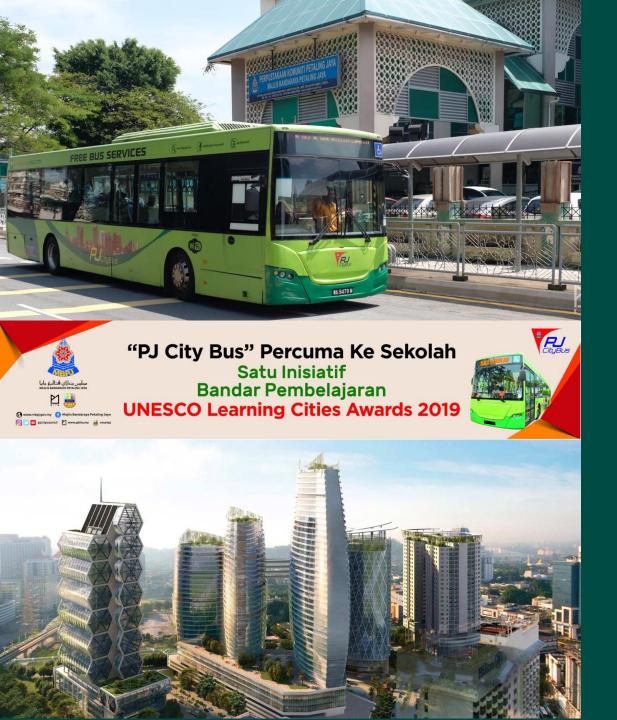






City population GDP per capita 316,217 USD\$ 27, 538

Land area 17.6 km²



Petaling Jaya, Malaysia

Improved access to public learning spaces

Provided free bus services across four city routes, which also double as information disseminators through their on-board screens.

The city is also making good use of the resources provided by the partners.







City population GDP per capita 211,700 USD\$ 9,944.90

Land area 97.2 km²

VISION OF SUSTAINABLE PJ 2030





STRATEGIC MASTER PLAN "SUSTAINABLE PJ 2030"

PETALING JAYA POPULATION: 713, 411 PEOPLE

Petaling Jaya, a city aims to be an international destination for livability through a rich blend of history, best features of built and natural environment, opportunities and activities

SAFE CITY MASTER PLAN









OCCUPATIONAL, SAFETY & HEALTH (OSH)

MBPJ implementing occupational safety and health in all projects and office environment







PJKITA

PJKITA is a community initiative to engage with citizens through multiple channels (by a digital platform, programs, projects, initiatives) and to learn about their ideas and aspirations to achieve a sustainable, creative smart and community-driven

5 main pillars of PUKITA:



Volunteerism





Smort

Partnership



Community

Engagement





Culture & Lifestyle

Digital Fabrication

origin

PJ SUSTAINABLE COMMUNITY AWARD

Aprogramme to recognize and provide development grant to the outstanding community initiatives and achievements in improving the quality of environment and sustainability of the community towards achieving the vision of Sustainable PJ 2030



LOW CARBON CITY FRAMEWORK















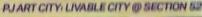


PJ ART CITY









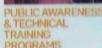


PJ UNIVERSAL DESIGN

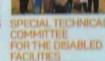














PULINIVERS DESIGN MAS PLAN 2090





"..... A Total Solutions For Intelligent City Planning & Management"



SMART PETALING JAYA

Development of Urban Planning and Management systems based on Attributes and Spatial Data.

MINI SMART CENTRE

Urban Data in the form of dashboards for MBPJ's key functions will be integrated into M attributes and spatial data in the Data Control Centre known as PU Smart Centre.

The Urban Data contained in the dashboard will be placed in the Internal departments of the Council known as Mini Smart Centre.

All input/observations of data from various aspects and analysis operate in the Mini Smart Centre and displayed in the form of geo spatial at PU Smart Centre.

REDEVELOPMENT

Special Area Plan consists of 259.20 acres of the entire industrial area of Section 13, Petaling Jaya





PJ SMART CENTRE

DEVELOPMENT CONCEPT

LIVE > WORK > LEARN > PLAY

RE-ZONING OF RESIDENTIAL

LIMITED BUSINESSES

AREA FOR





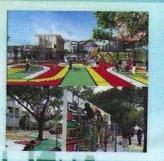












origin



How to build a learning city

You may email Dr Koh at tatsuan@ori9in.co if you have any questions.



Thank you.

