



Navigating Technology Revolution and the Future of Work: SkillsFuture Movement

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Fourth Industrial Revolution - reshaping world of work and skills



1st Industrial Revolution WATER & STEAM

Steam and water power replace human and animal power with machines.



2nd Industrial Revolution ELECTRICITY

Electricity, internal combustion engines, airplanes, telephones, cars, radio, and mass production.



3rd Industrial Revolution AUTOMATION

Electronics, the internet and IT used to further the automation of mass production.



4th Industrial Revolution CYBER-PHYSICAL SYSTEMS

Driverless cars, smart robotics, materials that are lighter and tougher, and a manufacturing process built around 3D printing.

Image credit: TECA

Jobs disrupted. New opportunities, jobs, skills

14%

of global workforce, as many as 375 million people may need to switch occupational categories.



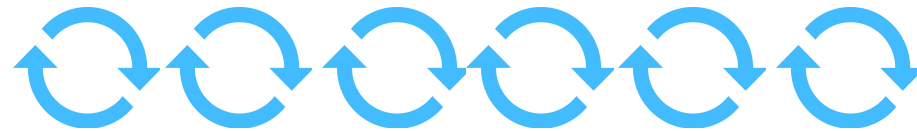
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and more of the desired skill sets of most jobs will be comprised of skills not yet considered crucial today, by 2020

EXPIRATION
DATE: 

Shelf-life of skills in the future of work will decrease to

5

 years

Individuals on a 30 year career have to refresh their skills throughout their careers

6

 times

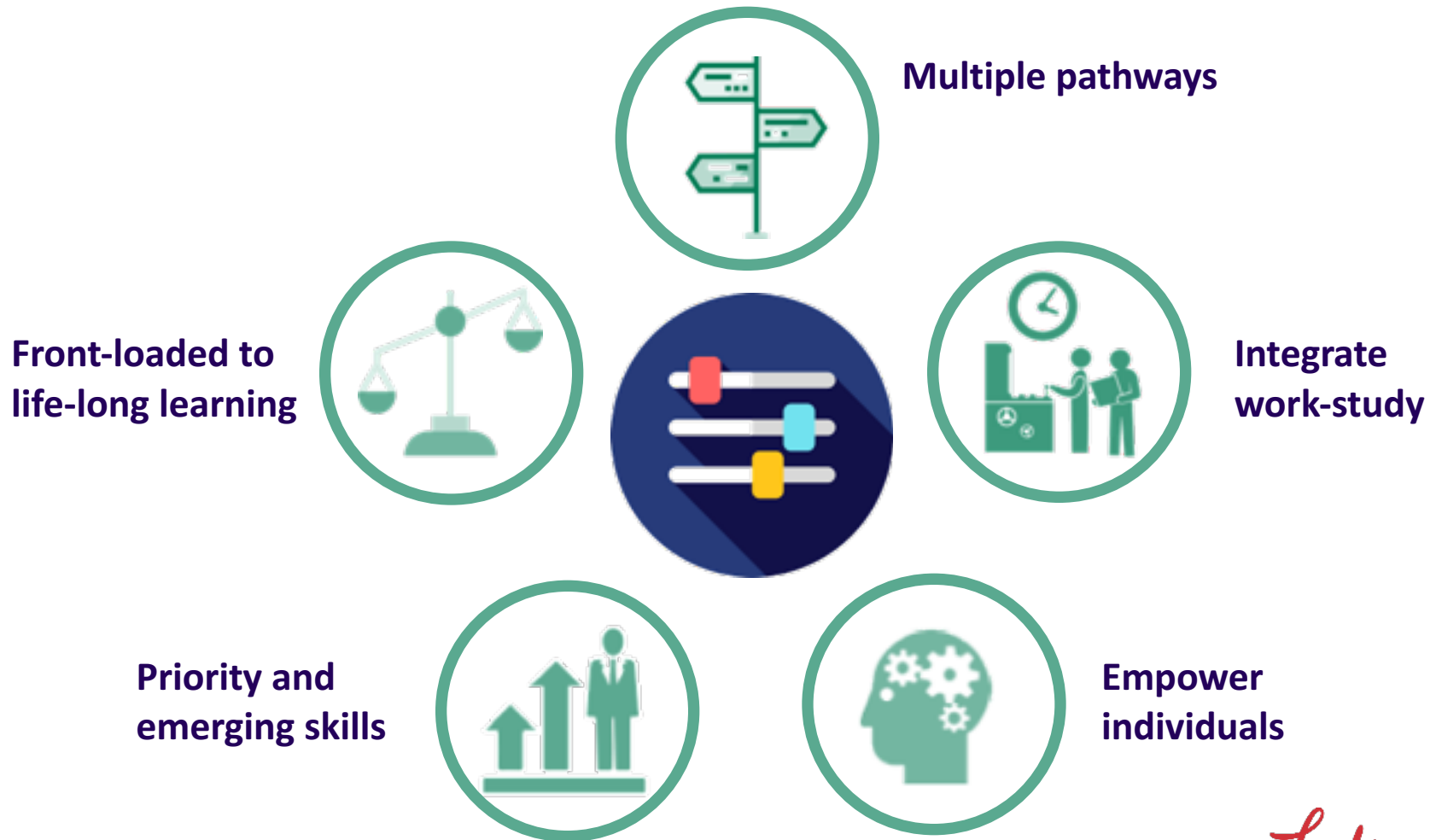
Rethink approach to learning and jobs



Image credit: RyanClements

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SkillsFuture Movement – shifting the paradigm for education and training



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Empower individuals in skills development and lifelong learning

MySKILLSfuture

Home Training Exchange Self-Assessment Tool Industry Insights Career Resources Find Jobs

SHAPE YOUR OWN *future*

Make informed choices in career development and lifelong learning through the use of career-related tools and information.



MySkillsFuture Portal



Singapore Citizen



Aged 25 years and above



Receive S\$500 initial credit

SkillsFuture Credit



SkillsFuture Fellowships & SkillsFuture Employer Awards 2018

Guest of Honour

Madam Halimah Yacob

President of the Republic of Singapore,

Patron of the SkillsFuture Fellowships & SkillsFuture Employer Awards

July 2018

SkillsFuture Fellowship & Employer Awards



THE RIGHT SKILLS

Can Lead You To A New World Of Opportunities

Achieve success in your career and fulfil your potential through lifelong learning and skills deepening. Your skills will better equip you to remain relevant, meet changing workforce needs, and seize new career opportunities.



RECEIVE

A monetary award of S\$5,000 to offset the cost of work skills-related training and courses



SUPPORT

For upgrading work-relevant skills to advance careers



FURTHER

Learning of deep specialist skills

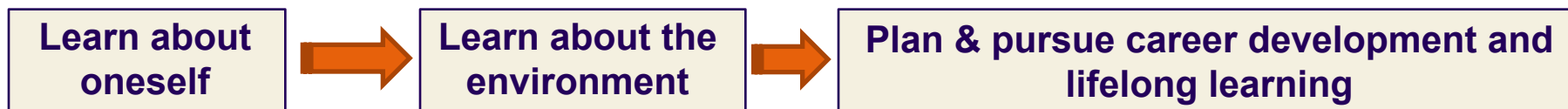
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MySkillsFuture Portal for informed learning and careers



Upskilling in priority and emerging skills



Skills Frameworks

Common skills language for individuals, employers and training providers



SkillsFuture for Digital Workplace

Digital literacy, basic functional skills for the future economy



SkillsFuture Series

Priority and emerging industry-relevant skills training

SkillsFuture Series – curated learning pathways for emerging skills



Skills Framework for jobs and career progression

SKILLS FRAMEWORK FOR ICT

MAIN VIEW

TRACKS

DATA

INFRASTRUCTURE

PROFESSIONAL
SERVICES

SECURITY

SALES AND
MARKETING

SOFTWARE AND
APPLICATIONS

SUPPORT

TECHNICAL SKILLS & COMPETENCIES

GENERIC SKILLS & COMPETENCIES

INTRODUCTION

HOW TO USE THE TOOL



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Data Visualisation

Implement contemporary techniques, dynamic visual displays with illustrative and interactive graphics to present patterns, trends, analytical insights from data or new concepts in a strategic manner for the intended audience

Proficiency Level 3

Select appropriate visualisation techniques and develop dashboards to reflect data trends and findings

Proficiency Level 4

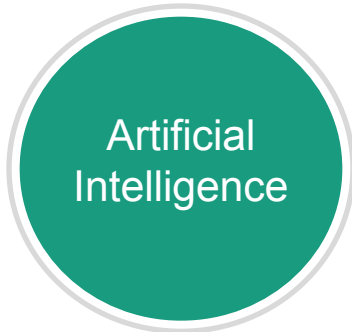
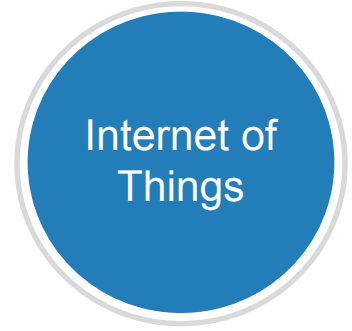
Design data displays to present trends and finding, incorporating new and advanced visualisation techniques and analytics capabilities

Proficiency Level 5

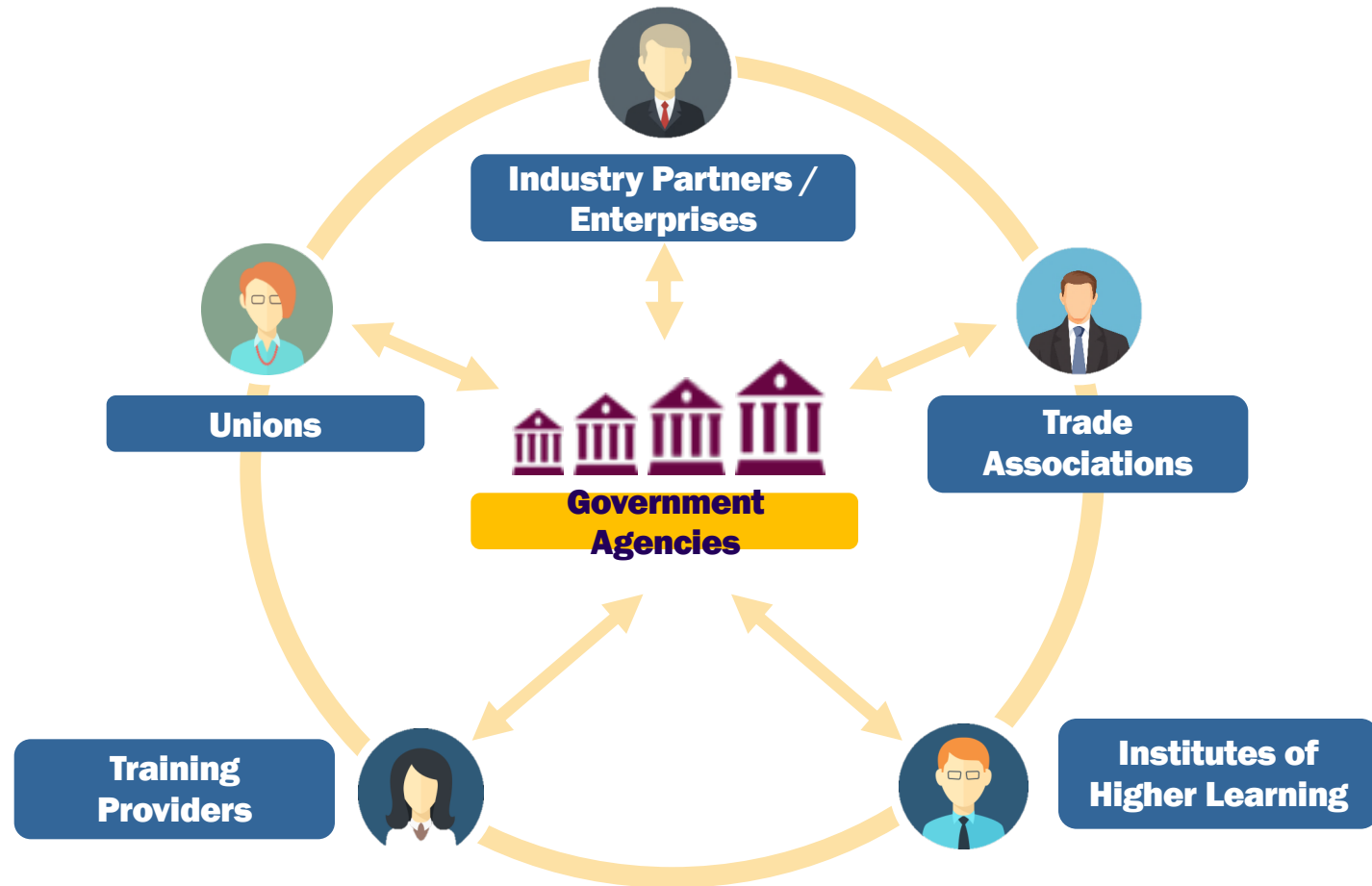
Establish an effective data visualisation architecture and design intelligent and adaptable displays employing optimal delivery modes, mechanisms and timings

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Skills Framework for emerging skills

Emerging Areas	Emerging TSCs	Supporting GSCs
 <p>Artificial Intelligence</p>	<ul style="list-style-type: none">• Analytics and Computational Modelling• Business Innovation• Business Needs Analysis• Business Process Re-engineering• Cyber Forensics	<ul style="list-style-type: none">• Data Strategy• Data Governance• Data Design• Data Engineering• Data Visualisation <ul style="list-style-type: none">• Sense Making• Computational Thinking
 <p>Internet of Things</p>	<ul style="list-style-type: none">• Analytics and Computational Modelling• Data Strategy• Data Engineering• Embedded Systems and Sensor Network Design	<ul style="list-style-type: none">• Embedded Systems Interface Design• Embedded Systems Programming• Security Architecture Design• Security Administration <ul style="list-style-type: none">• Creative Thinking• Problem Solving• Transdisciplinary Thinking

Multi-agency collaboration key to success



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