GETTING WORKERS READY FOR THE DATA ECONOMY

Tableau Data Day Out 2018 15 November 2018

National Trades Union Congress Patrick Tay Assistant Secretary-General

DATA AS THE WORKING LANGUAGE OF THE DIGITAL ECONOMY

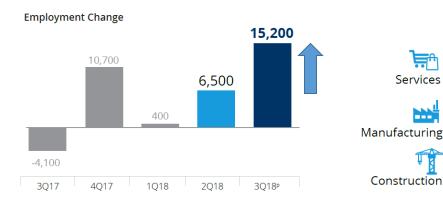
7 out of 10 of the world's most valuable companies today have their business models predicated on DATA AND ANALYTICS. -McKinsey Global Institute 2016 study

Firms are hiring "Translators" by the millions - people who play a critical role in bridging the technical expertise of data scientists with the operational expertise of marketing, supply chain, manufacturing, risk, etc. Singapore's Workforce is the World's most Data-Literate -University of Pennsylvania's Research Jobs that require data skills recorded 17 times the rate of growth between 2013 and last year. - Linkedin's 2018 Emerging Jobs in Singapore

> Launch of the Digital Government Blueprint that 20,000 civil servants - or 1 in 7 employees - will acquire data skills within the next decade.

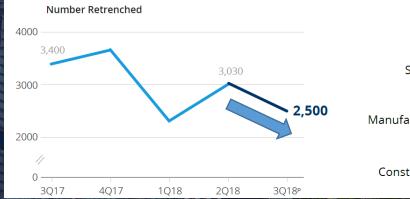
SINGAPORE EMPLOYMENT LANDSCAPE 3rd Quarter 2018 Labour Market Advance Release

Total employment growth in 3Q18 more than doubled of previous quarter



Data exclude foreign domestic workers

ower retrenchments





3Q18^p

+3,500

-400

2018

-100

-700

+7,200 +12,300

Resident and citizen unemployment rates held steady over the quarter

Rate (%) 35 Citizen 3.0% 3.0 3.0 3.0 Resident 2.9 2.8 2.9% 2.5 2.0 Overall 2.1% 2.0 2.0 Sep Dec Mar lun Sep 17 17 18 18P

With employment growth, the slightly elevated unemployment rates compared to March reflected the continued inflow of job seekers into the labour market.

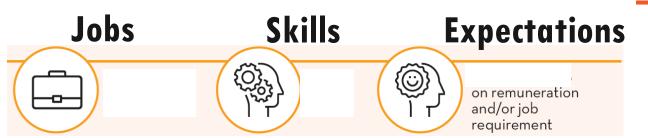
Further signs of improvement in the labour market

Source: Manpower Research and Statistics Department, Ministry of Manpower



are ways to be more competitive.

STRUCTURAL MISMATCHES



HOW ORGANISATIONS TACKLE MISMATCHES

35.1% Training

attitudes

1.8%

tackle

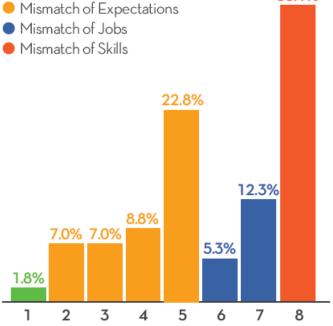
Impossible to

Extend of mismatch

has exceeded what

training can bridge



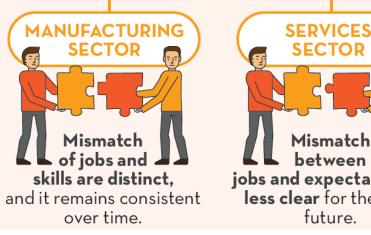


35.1%

- 1. No way to bridge
- 2. Matching expectations of employers & employees
- 3. Change attitude of employers (e.g. accept mid-career changes, change hiring practices)
- 4. Re-designing of jobs, better clarity in job role description
- 5. Change attitude of job applicants
- 6. Policy on foreigners or hiring foreigners
- 7. Improve platforms for job search and selection process of candidates
- 8. Training (e.g. formal education, OJT, re-skilling, internship)

Source: Ong Teng Cheong Labour Leadership Institute







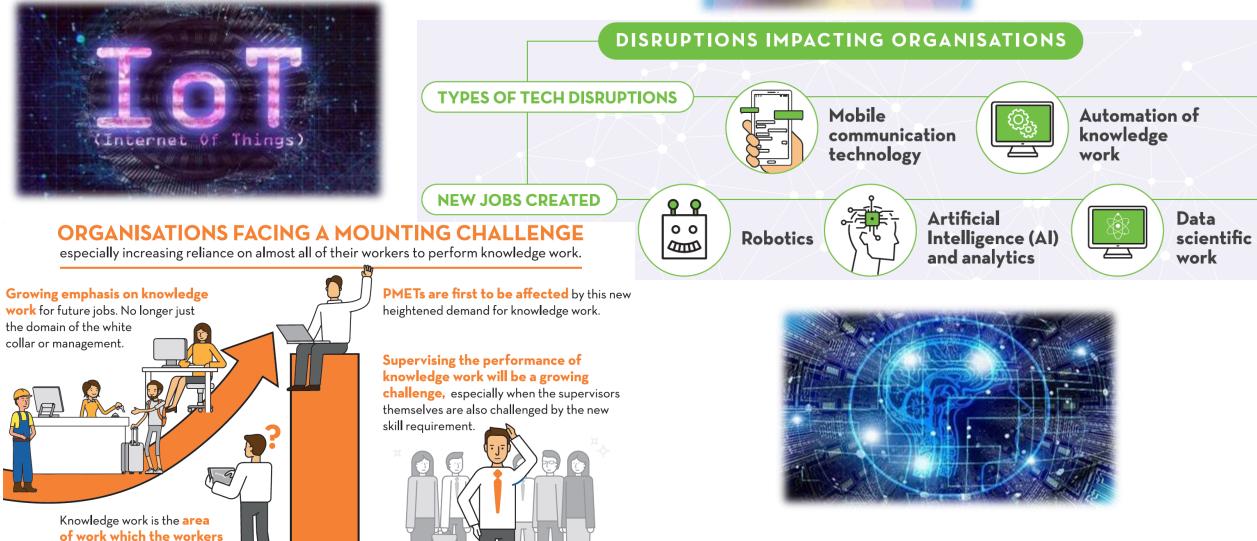
More than one type of mismatch could affect an individual worker simultaneously. For example, one type of mismatch for worker A could be made up of:



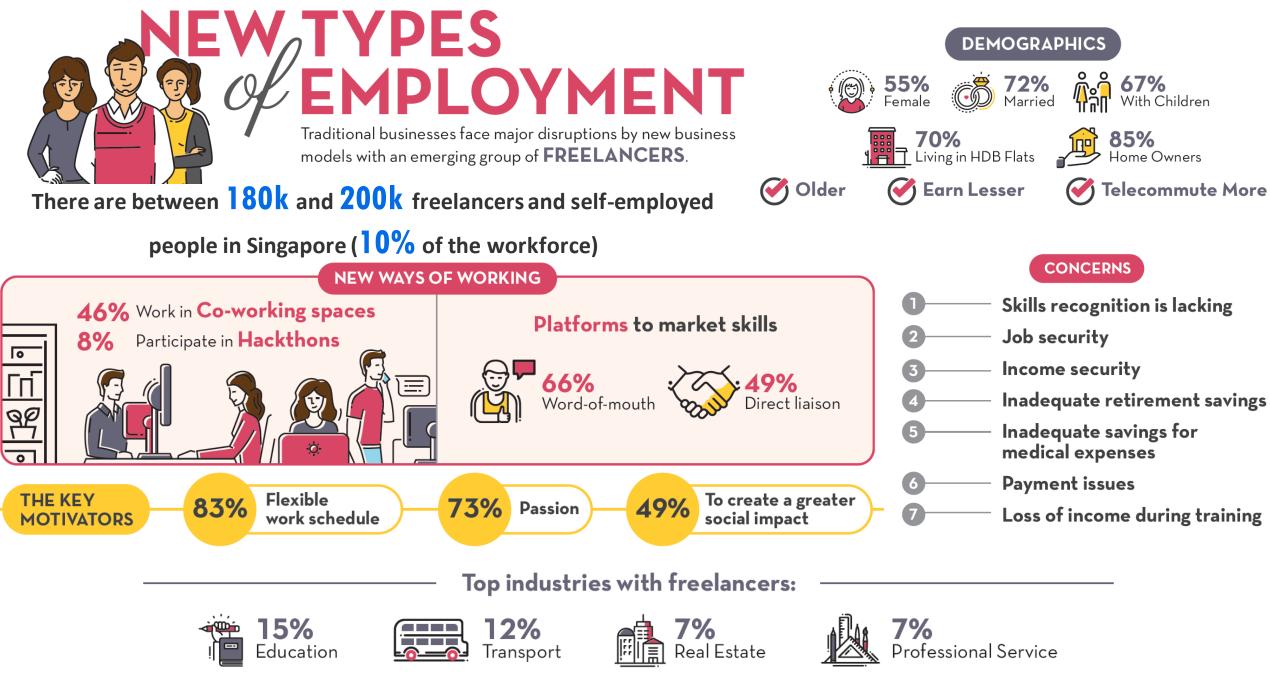
KNOWLEDGE WORK 'High-Tech' or 'High-Touch'

are least prepared.





Source: Ong Teng Cheong Labour Leadership Institute



Source: Ong Teng Cheong Labour Leadership Institute

SKILLS GAP AND THE FUTURE OF TRAINING



CURRENT STRATEGIES TO ADDRESS SKILLS GAP



Local work attachment with other organisations 2. Overseas training programme and/or overseas work attachment 3. Courses through online platform,
e-learning, open eduation and/or distance learning 4. Ad-hoc seminars and/or workshops 5. On-job-training or training by supervisors and/or co-workers
Short courses conducted by trainers 7. Professional qualifications training programme 8. Formal education Source: Ong Teng Cheong Labour Leadership Institute

COLLABORATIVE TRANSFORMATION INTO 2020

GOVERNMENT

ENTERPRISES

HR PROFESSIONALS LABOUR MOVEMENT

WORKERS

EDU & TRAINING PROVIDERS

> TRADE ASSOCIATIONS PROFESSIONAL GUILDS

FUTURE READY . RELEVANT . RESILIENT

 Play an active role in transformation to stay:
Able with abilities
Adaptable to changes, and
Agile to cope with disruption

Adapt & Grow – Upskill yourself with Bite-Sized training programmer

programmes

 Collectively, we can transform workers to be:
Ready for new jobs,
Relevant with new skills, and
Resilient to new ways of working

The future worker 4.0 will be equipped with a combination of Adaptive, Technology and Technical skills

MORE FUTURE JOBS, SKILLS & TRAINING CONTENT AT WWW.NTUC.ORG.SG/FJST