

27th Sep 2024

MALAYSIA'S SUSTAINABLE TECHNOLOGY AND INCLUSIVE GROWTH FRAMEWORK

PITCH 2024 – Group 4

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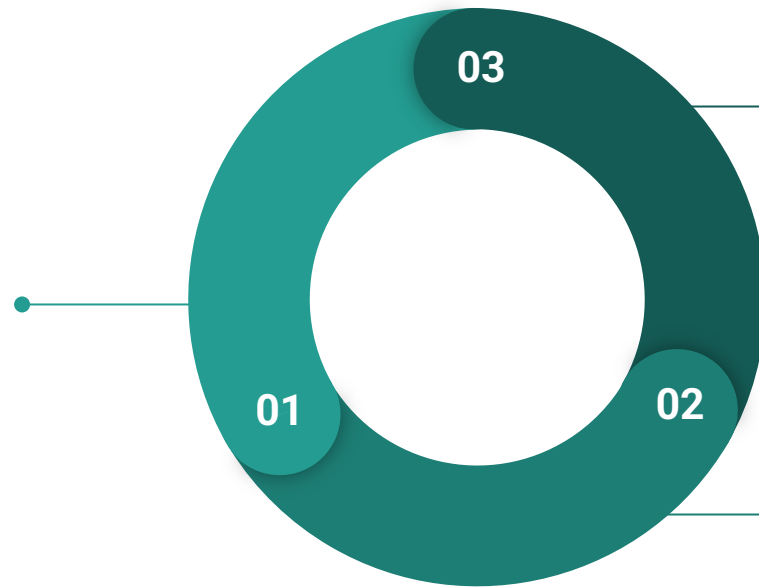


An aerial photograph of a city skyline, featuring several prominent skyscrapers and a large green park area in the foreground. The image is framed with a torn paper effect at the top and bottom edges. The text is overlaid on the image in a white, serif font.

CHALLENGE:

CONSIDER AN INTERVENTION OR OPPORTUNITY THAT ADVANCES AND PROMOTES LOCAL TECHNOLOGY DEVELOPMENT WHILE ALSO FORWARDING MALAYSIA'S ENVIRONMENTAL, SOCIAL AND GOVERNANCE (ESG) GOALS

MALAYSIA AIMS TO BE AT THE FOREFRONT OF THE DIGITAL ECONOMY BY 2030



A photograph of a modern industrial manufacturing facility. Several large, orange robotic arms are positioned on a production line. The background shows a complex network of metal frames, pipes, and machinery. The lighting is bright, with a warm, golden glow from the top right corner. The text is overlaid on the center of the image.

TECHNOLOGICAL ADVANCEMENT

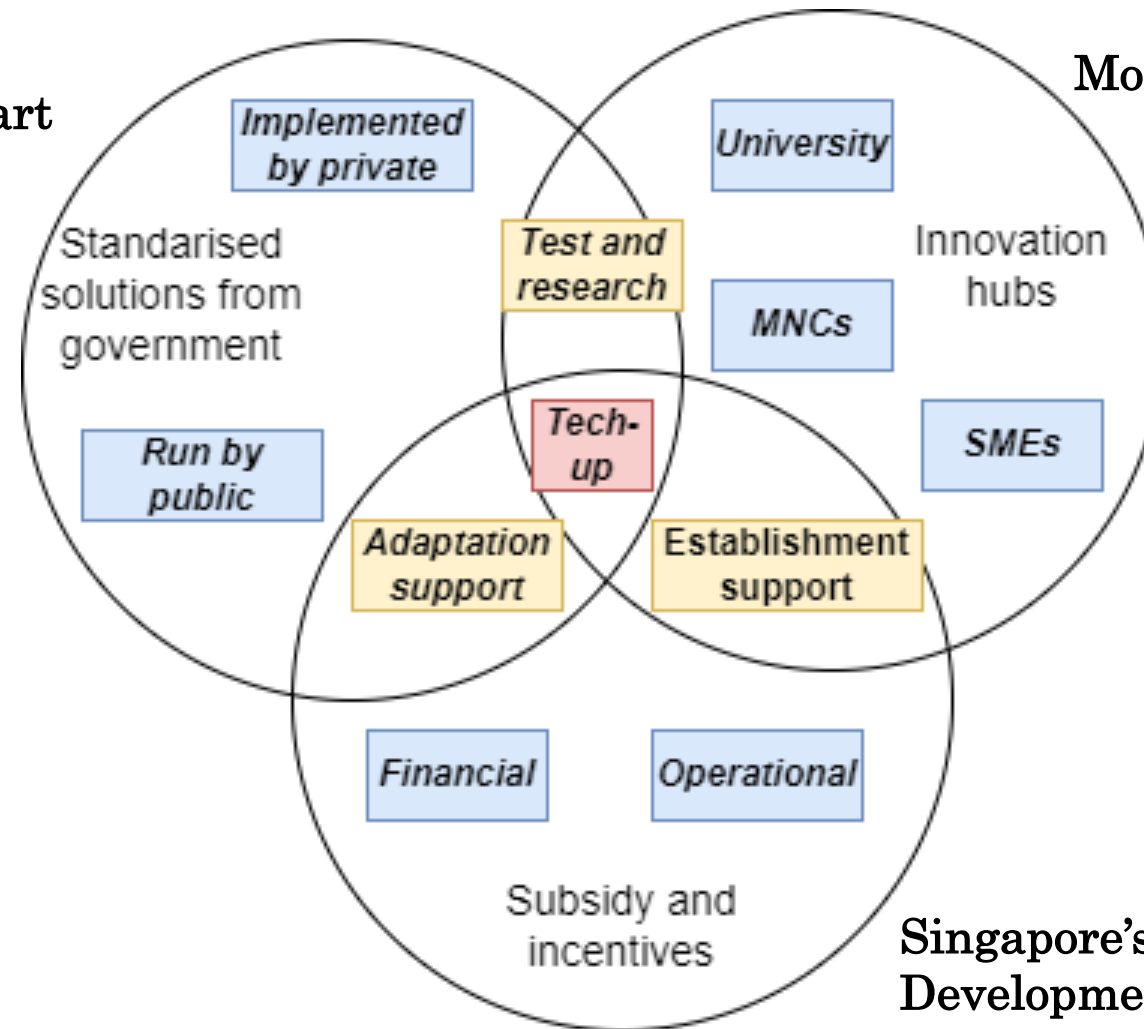
Tech up for Manufacturing

What does High-Tech Malaysia mean to you?



INTER-CONNECTION

South Korea's "Smart Factory" Initiative



Monash Innovation lab

Singapore's Enterprise Development Grant (EDG)

CASE STUDY — *Transportation and Logistics*

Logistics:

Provide grants, subsidies, tax incentives advice to encourage businesses, especially SMEs, to invest in new technologies and sustainable practices.

GDEX



a **LEADING** courier and logistics company in Malaysia, implemented smart logistics solutions

such as automated sorting systems, real-time tracking, and digital customer service platforms.

Transmile



Once a leading air cargo and logistics company in Malaysia, Transmile but now **FAILED.**

Lessons

Success Factors (GDEX):

✓ **Government support** for the financial and regulatory framework

✓ This strategic use of **technology** improved **efficiency** and maintained **competitiveness**.

✓ A strategic **incentives** for employees, customers, and partners, **enhancing performance, loyalty, and service quality**.

Failure factors (Transmile):

? **Misuse of Government Support:** coupled with financial irregularities, damaged the company's reputation and financial stability.

? **Lack of Innovation:** Outdated logistics practices, and a lack of technological adoption.

? **Ineffective Incentives:** Poor incentive structures led to misaligned goals, reduced employee motivation, and operational inefficiencies.

CASE STUDY IN AI-Driven Production

AI-Driven Production:

Use artificial intelligence and data analytics to enhance decision-making, optimize operations, and personalize customer experiences etc. related to production.



😊😊😊 Axiata's rise

It is one of Malaysia's leading telecommunications companies, successfully integrated AI-driven analytics to enhance customer experience, optimize network performance, and drive digital transformation.

😞😞😞 Cyberjaya's struggles

It was envisioned as a high-tech hub to drive Malaysia's digital economy and position the country as a global technology leader. Despite its grand vision, Cyberjaya has faced significant challenges, making it a case of unrealized potential.



Lessons we learned



Government support

Axiata ✓

CyberJaya ✓



Innovation Tech

Axiata ✓

CyberJaya ✓



Incentives

Axiata ✓

CyberJaya ✓

WHY ?

Axiata:

- ❖ *Strategic Innovation*
- ❖ *Aligned Incentives*
- ❖ *Optimal Use of Government Support*

Cyberjaya:

- ❖ *Innovation Execution Gaps*
- ❖ *Misaligned Incentives*
- ❖ *Underutilized Government Support*

Success do requires the cohesively integration of innovation, incentives, and government support.

DEVELOPING
AND
RETAINING
LOCAL
TALENT

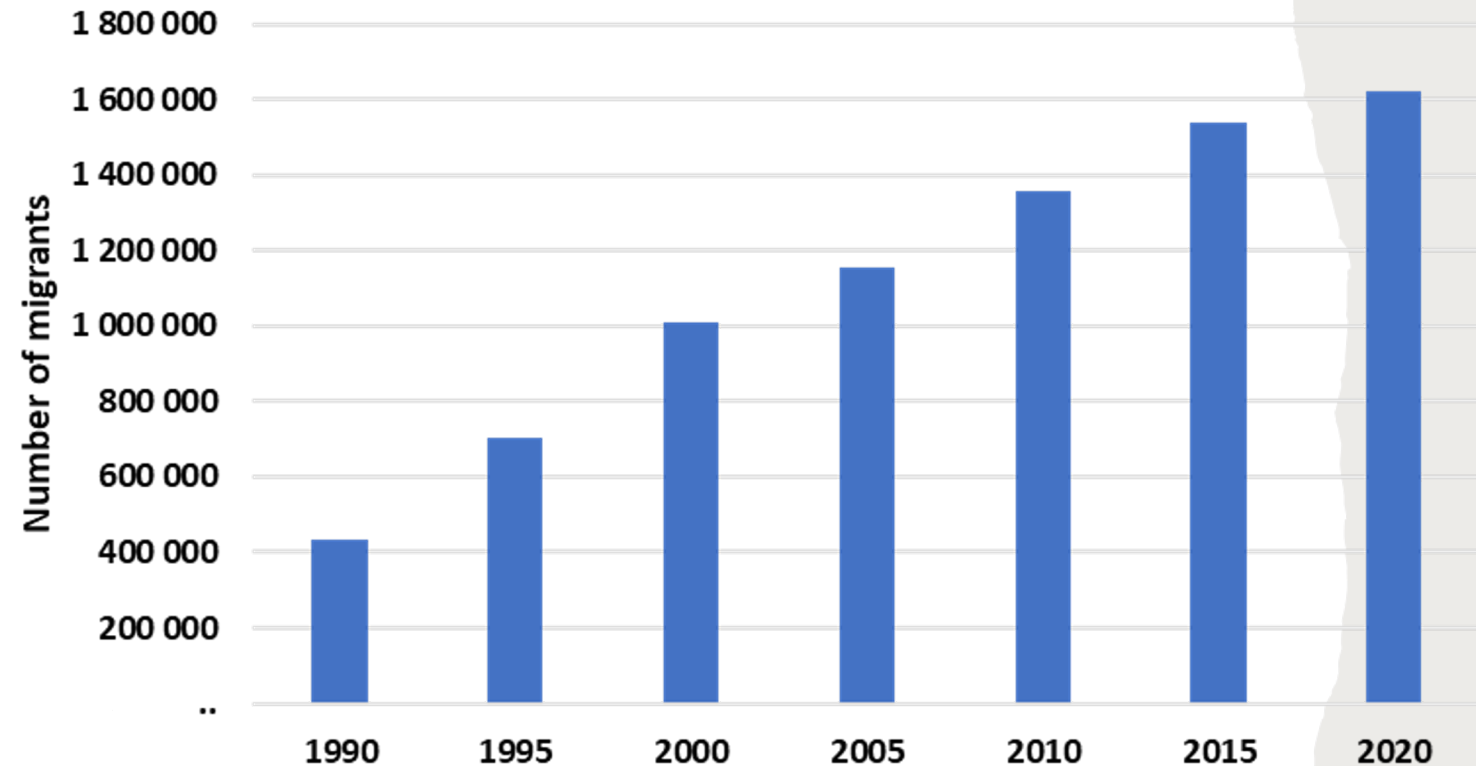


LOSS OF DOMESTIC SKILL



“Brain Drain”

Migration to High-Income Countries (Global data)

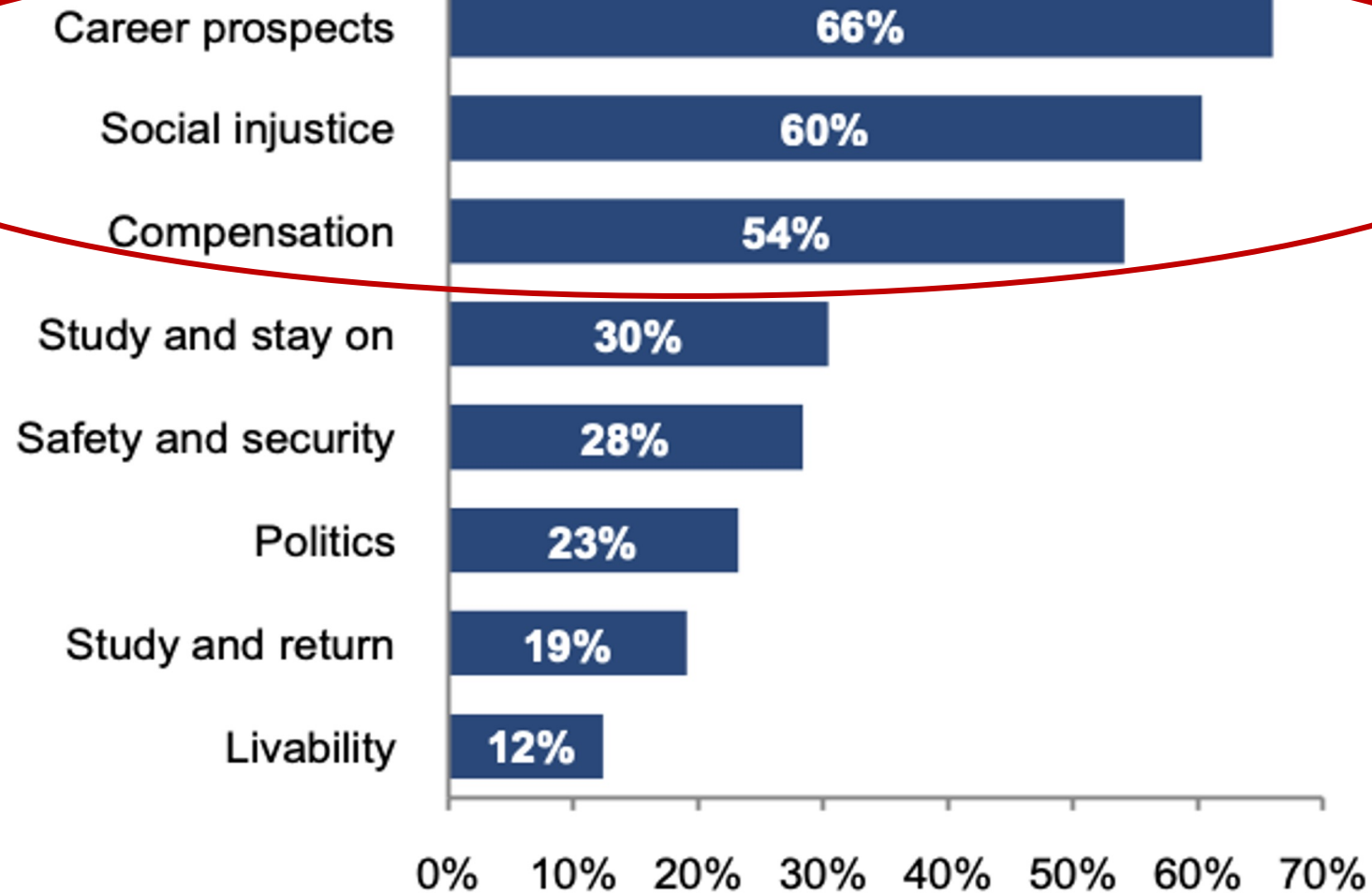


Source: International Migrant Stock, 2020

DOES MALAYSIANS REALLY WANT TO LEAVE?



Share of respondents listing item as one of three top reasons for brain drain in Malaysia



Source: Survey among the diaspora.

BRAIN DRAIN - REVERSING THE TREND



Competitive Compensation
and Benefits



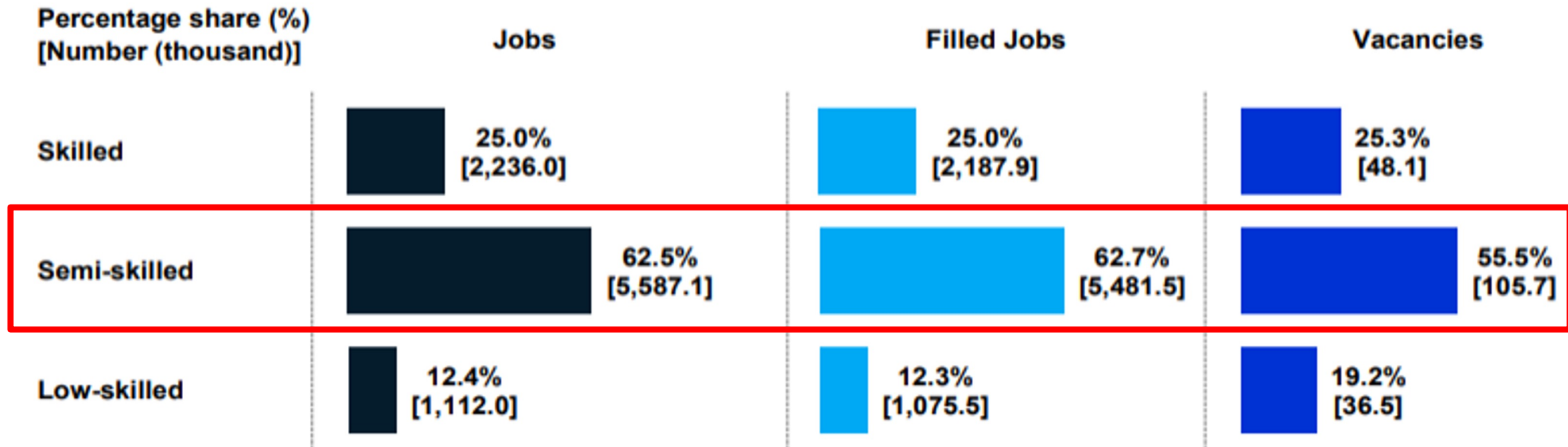
Create a Positive Work
Environment



Stay Current with Global Trends

SKILL GAP

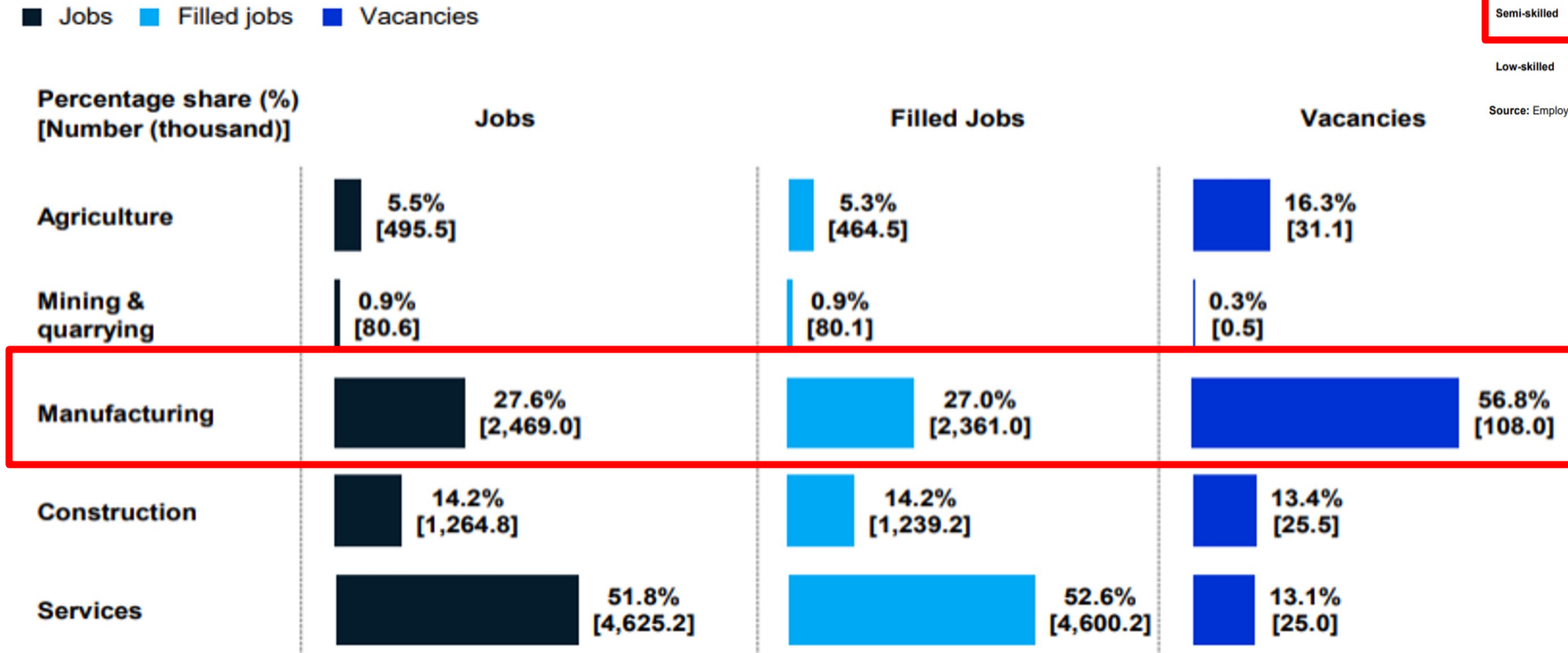
■ Jobs ■ Filled jobs ■ Vacancies



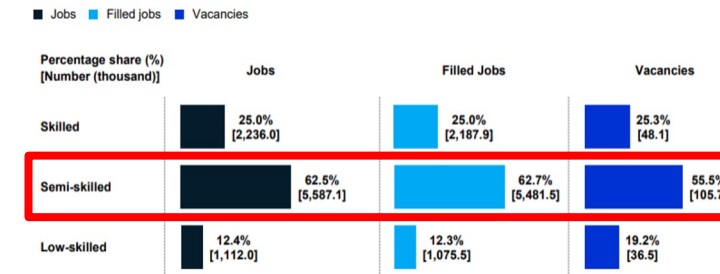
Source: Employment Statistics, Malaysia, Q4 2023, DOSM

- Semi-skilled workers are most needed
- Because of this, firms cannot operate at its maximum capacity and cannot expand further (World bank, 2011).

BRIDGING THE SKILLS GAP



Source: Employment Statistics, Malaysia, Q4 2023, DOSM



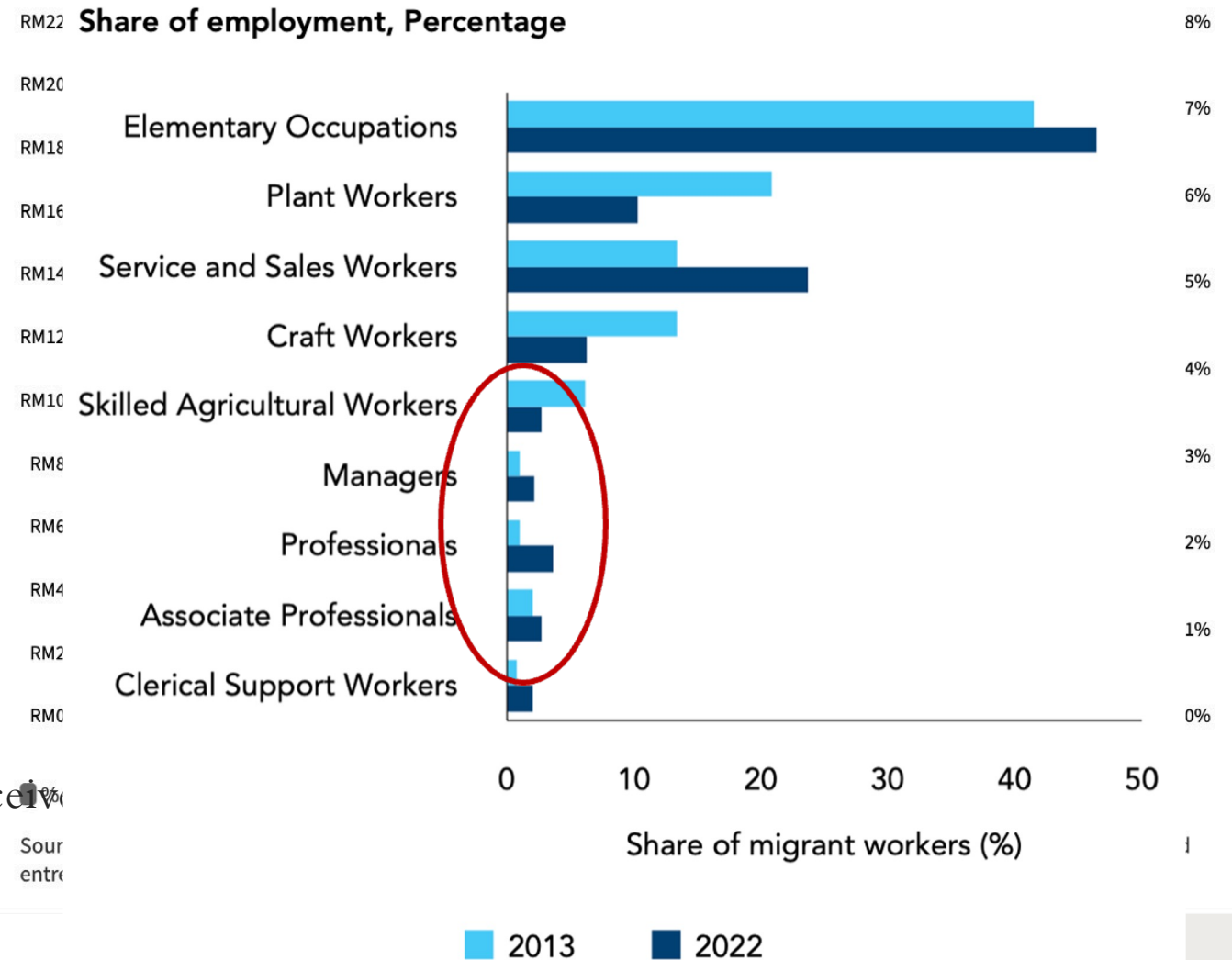
Source: Employment Statistics, Malaysia, Q4 2023, DOSM

- Semi-skilled workers are most needed
- Because of this, firms cannot operate at its maximum capacity and cannot expand further (World bank, 2011).
- Especially in the manufacturing sector

BRIDGING THE SKILL GAP

- Enhance levy compliance
- Better utilization of training funds
- Improve SME outreach
- Optimize fund allocation
- Adapt to new technologies
- Attract skilled Migrants
- Inclusivity for Indigenous people

- Only 1.5% of the indigenous people receive training (World Bank, Malaysia, 2023)



Source: World Bank, 2024

WHAT IS INCLUSIVITY?



ADDRESSING POWER IMBALANCE



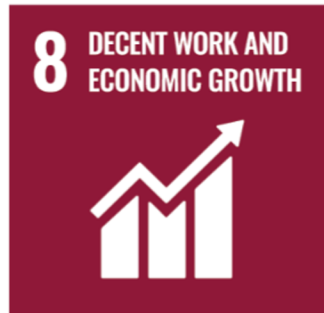
INCLUSIVITY

INDIGENISING LEADERSHIP – MALAYSIA'S
MOST ATTRACTIVE MAGNET FOR FUTURE
SUSTAINABLE TECHNOLOGY GROWTH.

VIDEO OF DR SURIA ANGIT, UNIVERSITY OF NOTTINGHAM MALAYSIA



SUSTAINABLE DEVELOPMENT GOALS





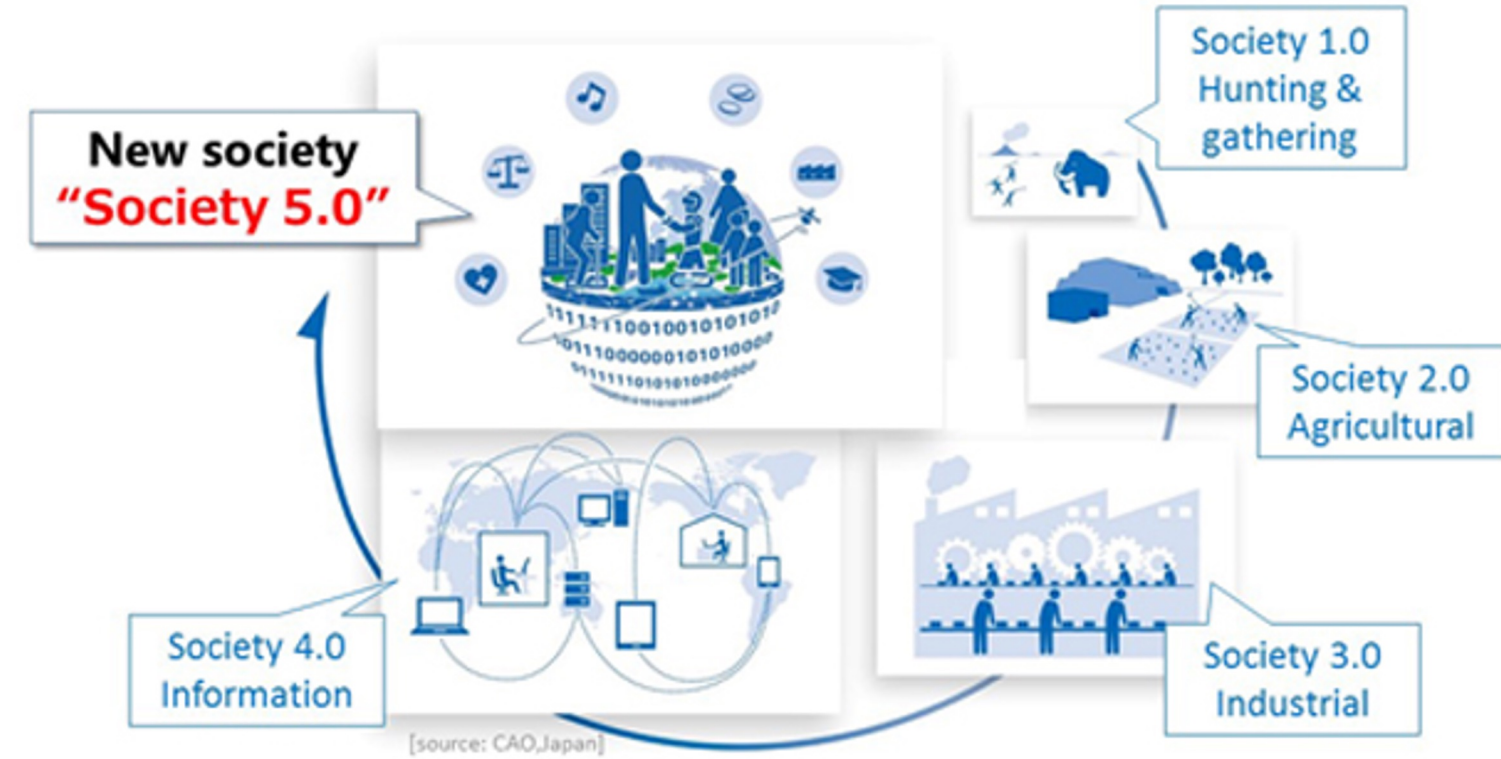
INDIGENOUS FUTURES

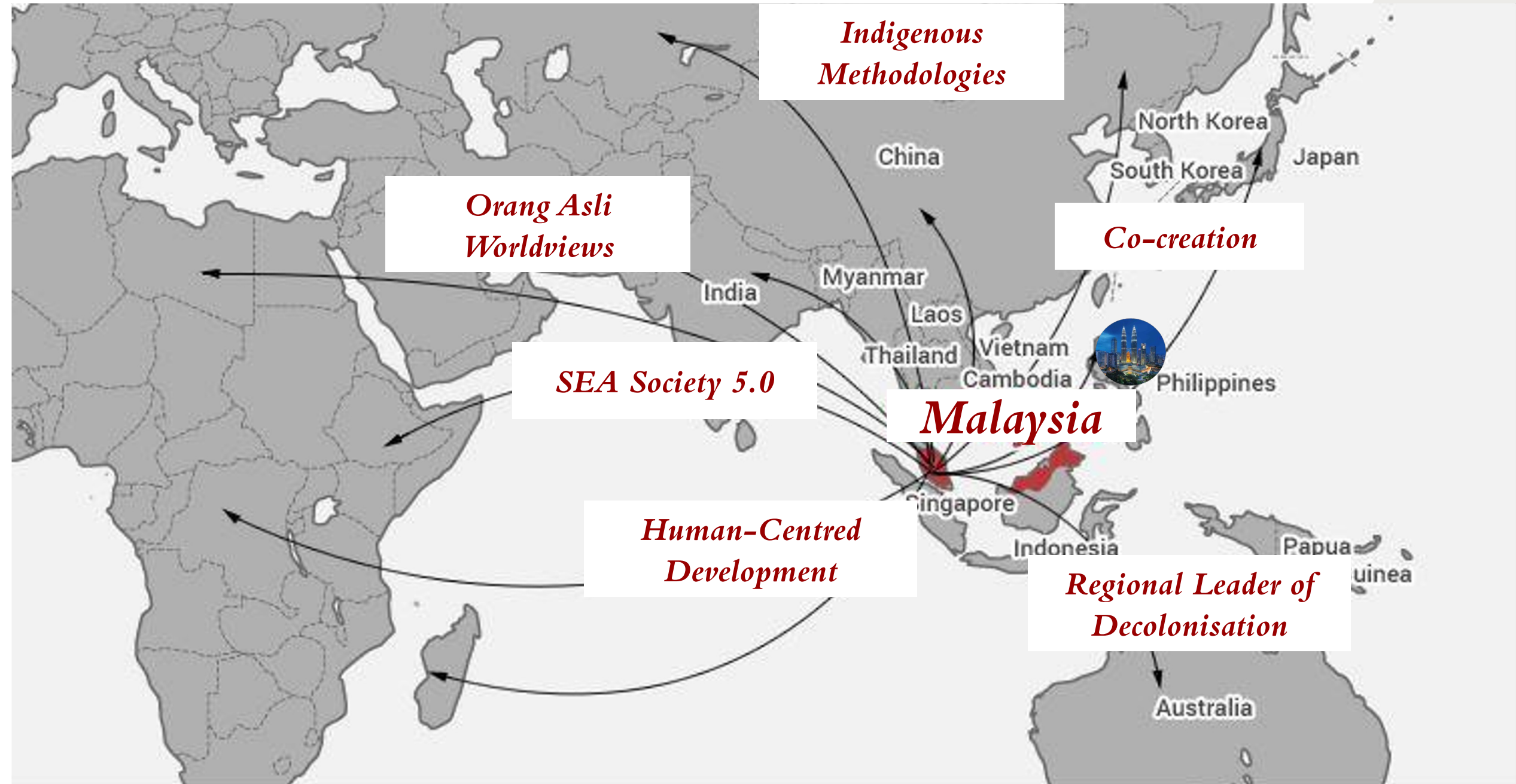
REIMAGINING DEVELOPMENT IN ASIA AND THE
PACIFIC FORESIGHT BRIEF | AUGUST 2022

UNDP Regional Bureau for
Asia and the Pacific

Strategic Foresight Network

SOCIETY 5.0





Indigenous Methodologies

Orang Asli Worldviews

SEA Society 5.0

Human-Centred Development

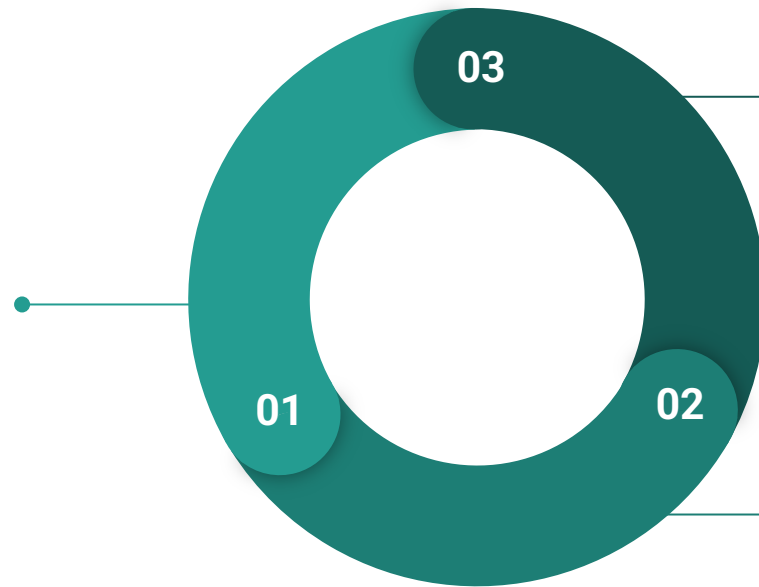
Malaysia


Regional Leader of Decolonisation

Co-creation



MALAYSIA'S SUSTAINABLE TECHNOLOGY AND INCLUSIVE GROWTH FRAMEWORK

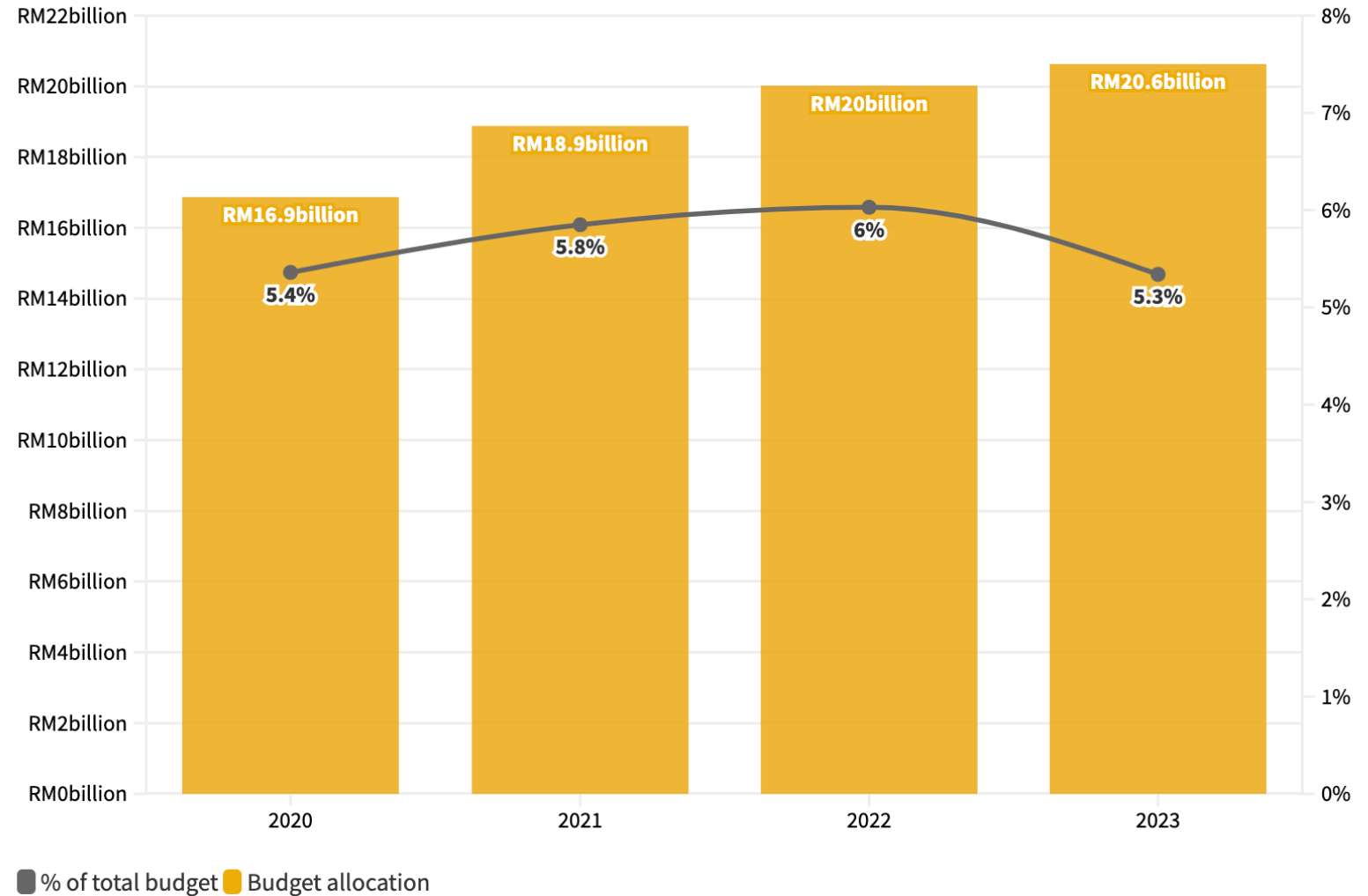


A close-up photograph of a person's hand holding a small, white, heart-shaped card. The card has the Indonesian words "Terima Kasih" (Thank You) written on it in a black, sans-serif font. The hand is positioned in the lower-left quadrant of the frame, with the thumb and index finger gripping the bottom edge of the heart. The person is wearing a light blue, long-sleeved button-down shirt. The background is a solid, dark grey or black color, which makes the white heart and the hand stand out. The lighting is soft, highlighting the texture of the skin and the fabric of the shirt.

Terima
Kasih

SKILLED WORKERS

- Today, skills development ma advance their careers and se
- Conventionally, skills developi technical and vocational educ



Source: MOF. Data retrieved from multiple years of budget documents, which include various spendings on TVET, reskilling, and entrepreneurship programmes.