



OECD Skills Studies

OECD Skills Strategy Southeast Asia

SKILLS FOR A POST-COVID RECOVERY AND GROWTH

REPORT SUMMARY



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AND GROWTH

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Foreword

Developing relevant skills and using them effectively is crucial for Southeast Asia's ability to thrive in an increasingly interconnected and rapidly changing world.

Globalisation, technological progress, demographic changes, migration and climate change are combining to increase and transform the skills needed to thrive in Southeast Asian countries' workplaces and society. People will need a stronger and more well-rounded set of skills, including cognitive, social, emotional and job-specific skills, to flourish in life both in and outside of work. The coronavirus (COVID-19) crisis has accelerated the digitalisation of learning and work and made upskilling and reskilling even more critical for many adults.

Southeast Asia has achieved relatively strong skills performance in various areas. In terms of developing people's skills, gross enrolment rates have increased at all levels of education. In terms of using people's skills, the labour force participation rate is generally high throughout the region and has been relatively stable over the last decade. The region has instituted various bodies to improve horizontal and vertical co-ordination for skills policies; has strengthened the collection of skills data; and has established more equitable mechanisms to allocate (often scarce) resources in education and employment.

However, Southeast Asia still faces several skills challenges. Participation in skills development tends to decline at later stages of life, as education and training offers tend to decrease in supply or become more difficult to access. Employment in the informal sector is widespread in many countries, contributing to skills imbalances, lowering overall productivity and placing millions of workers in precarious working situations. Disadvantaged groups, such as women, individuals from low-income households, and ethnic and linguistic minorities, are disproportionately affected by these challenges.

Recent and planned policy reforms show great promise, but more needs to be done to ensure better skills outcomes. Governments and all relevant stakeholders should continue to pursue partnerships that involve every level of government, as well as civil society groups that represent the interests of all learners and workers, especially those from disadvantaged backgrounds. Moreover, there is great incentive to build stronger data and skills financing systems throughout the region to achieve more equitable outcomes for the Southeast Asian workforce.

While no single action can address all the issues facing the region, a clear vision and concrete steps taken together by all stakeholders can ensure that Southeast Asian countries will address their skills challenges. Citizens of all ages and backgrounds should be able to develop and use their skills effectively to take up the opportunities of a rapidly changing society.

To support Southeast Asia in its reform agenda, the OECD has conducted a collaborative and tailored regional skills strategy. It has done this by providing detailed analysis and engaging widely with stakeholders, leading to several tailored recommendations for Southeast Asia, as outlined in this report.

The OECD stands to support Southeast Asia as it seeks to implement better skills policies for better lives.

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Executive summary

OECD-Southeast Asia collaboration on the OECD Skills Strategy project

This *OECD Skills Strategy Southeast Asia* identifies priority areas for action for Southeast Asia and provides tailored recommendations for improving its skills outcomes. The Skills Strategy has benefited from the insights of a wide range of government and stakeholder representatives through the OECD Policy Questionnaire, written input on performance within the three dimensions of the strategy and stakeholder consultations with a wide variety of actors in Southeast Asia. This process provided invaluable input that shaped the findings and recommendations in this report.

Key findings and opportunities for improving Southeast Asia's skills system

In Southeast Asia, megatrends such as globalisation, technological progress, demographic changes, migration and climate change are transforming jobs, the way society functions and how people interact. These megatrends have many repercussions in Southeast Asia, including for workers struggling to reskill and upskill quickly enough to adapt to changes in the world of work, and employers who often encounter difficulties in finding the skills they need as productivity becomes a more important driver of the region's economic growth. The coronavirus (COVID-19) crisis has accelerated the digitalisation of learning and work, disrupted the economy and increased the risk of inequalities in education and labour markets in Southeast Asia. The Russian Federation's 2022 invasion of Ukraine has led to high volatility in the stock market, contributing to a rise in inflation and wage pressures, which further exacerbate prevalent skills shortages in Southeast Asia's economy.

These megatrends and challenges reinforce the need for Southeast Asia to design forward-looking and dynamic skills policies. To thrive in the world of tomorrow, people in Southeast Asia, especially those from disadvantaged groups, need access to high-quality opportunities to develop and use their skills over the life course, which would help them transition out of informality, boost productivity and promote individual and societal well-being. In line with these goals, Southeast Asia has already implemented a range of relevant strategies at the regional level: the Association of Southeast Asian Nations (ASEAN) Comprehensive Recovery Framework and its Implementation Plan (2020), the ASEAN Declaration on Human Resources Development for the Changing World of Work and Its Roadmap (2020), and the Consolidated Strategy on the Fourth Industrial Revolution for ASEAN (2021), among many other strategies, that have a strong focus on skills. In the context of Southeast Asia's ongoing medium- and long-term planning initiatives, the region has a unique window of opportunity to put skills at the top of the agenda to positively influence the megatrends, tackle the challenges and seize the opportunities facing the region.

To support these efforts, the performance of countries in Southeast Asia has been assessed against the three dimensions of the OECD Skills Strategy. These dimensions and the key findings are summarised below.

Dimension 1: Developing relevant skills over the life course

To improve their performance in developing relevant skills over the life course, Southeast Asian countries need to expand the offer for high-quality education and training opportunities, especially at higher levels of education and later stages of life, and to reduce barriers to participation for all. Particular attention must be paid to facilitating participation among key vulnerable groups in the region, such as informal workers, women, learners from remote rural areas, low-skilled adults, migrants, individuals from ethnic and cultural minorities, and learners with disabilities, among others. This requires stronger collaboration with a wide range of stakeholders, including from industry, to ensure an alignment between training offers and labour market demands, as well as the improvement of the quality of learning through increased human, financial and data capacities of countries in the region. Southeast Asia can improve its performance in this area by:

- broadening access to skills development
- increasing excellence and equity in skills development
- developing skills that matter.

Dimension 2: Using skills effectively in work and society

To boost economic development and foster social cohesion, Southeast Asia needs to promote participation in the labour market and facilitate the full use of people's skills at work and in society. Countries in the region still face multiple barriers to formal employment, especially among disadvantaged groups, and the use of skills in everyday life, such as through civic engagement and leisure activities, could be improved. There is a need to increase awareness about economic and societal benefits that accrue from both adopting high-performance workplace practices (HPWPs) and participating more fully in civic life, as well as to encourage these actions among firms and individuals respectively. As the region aims to move up global value chains and boost economic growth, fostering demand for higher-level skills and creating opportunities for innovation and entrepreneurship will be important. Southeast Asia can improve its performance in this area by:

- promoting participation in the formal labour market
- making intensive use of skills in work and society
- increasing demand for higher-level skills.

Dimension 3: Strengthening the governance of skills systems

Southeast Asia's skills systems could benefit from a more comprehensive approach to skills governance, where a shared understanding of skills-related objectives is fostered among relevant ministries and across all levels of governance. More could be done to increase engagement with stakeholders outside of government, such as with employer organisations, trade unions, and civil society groups, to make skills policies more inclusive and better aligned with labour market needs. Co-ordination among a wide range of these actors inside and outside of government could be improved to help the region respond to various challenges in its skills systems, such as the lack of data that could better inform skills policies, and inadequate financial arrangements to implement skills policies. Southeast Asia can strengthen the governance of its skills systems by:

- promoting a whole-of-government approach
- promoting a whole-of-society approach
- building integrated information systems
- aligning and co-ordinating financial arrangements.

1 Key insights and recommendations for Southeast Asia

This chapter summarises the context, key insights and policy recommendations of the OECD Skills Strategy project in Southeast Asia. It applies the OECD Skills Strategy Framework to provide a high-level assessment of the performance of Southeast Asia's skills system. The summary provides an overview of: 1) responding to the skills implications of megatrends and COVID-19; 2) developing relevant skills over the life course; 3) using skills effectively in work and society; and 4) strengthening the governance of skills systems. The chapter summarises the related key findings and recommendations. The chapters of the full report provide more details on the opportunities for improvement, good practices and policy recommendations for Southeast Asia.

Skills matter for Southeast Asia

Skills are vital for enabling individuals and countries to thrive in an increasingly complex, interconnected and rapidly changing world. Countries in which people develop strong skills, learn throughout their lives and use their skills fully and effectively at work and in society are more productive and innovative and enjoy higher levels of trust, better health outcomes and a higher quality of life.

As new technologies and megatrends increasingly shape our societies and economies, getting skills policies right becomes even more critical for ensuring societal well-being and promoting inclusive and sustainable growth. The coronavirus (COVID-19) crisis has accelerated the digitalisation of learning and work and risks increasing inequalities in education and labour markets. For Southeast Asia, implementing a strategic approach to skills policies is essential to support the region's efforts to boost economic recovery and to build a resilient and adaptable skills system. Southeast Asia must build the foundations today for a more inclusive, prosperous and healthy future through strategic investments in the skills of its people.

Skills are essential for Southeast Asia's response to global megatrends and COVID-19

In Southeast Asia, as in OECD countries, megatrends such as globalisation, technological progress, demographic change, migration and climate change, and most recently, COVID-19, are transforming jobs, the way society functions and how people interact. To thrive in the world of tomorrow, people will need a stronger and more well-rounded set of skills. These include foundational skills; cognitive and meta-cognitive skills; social and emotional skills; and professional, technical, and specialised knowledge and skills. Southeast Asia will also need to make better use of people's skills in the labour market and in individual workplaces.

Globalisation has led to the emergence of global value chains (GVCs). GVCs allow different parts of the production process to be performed in different geographical locations, with important skills implications. Many Southeast Asian countries are now major players in the world market, both as exporters and importers, and have thus attracted significant investments in services, trade, communication and manufacturing sectors (OECD-UNIDO, 2019^[1]). When Southeast Asian countries have a highly skilled workforce, this enables them to participate in the higher end of the global production chain characterised by high-skilled activities. Participation in GVCs can lead to productivity gains, but achieving those gains is dependent on Southeast Asian countries having people with the right sets of skills.

New technologies and digital infrastructure are spreading rapidly throughout Southeast Asian countries. Many Southeast Asian countries attract new technologies to accelerate industrialisation and economic development. The region is projected to be one of the world's fastest-growing data centre markets in the next few years, exceeding the growth in North America and the rest of the Asia-Pacific (ASEAN Secretariat and UNCTAD, 2019^[2]). Technological progress has been accelerated by the COVID-19 pandemic, as fear of the spread of the virus and social distancing measures have made online interactions at work and everyday life more common (Google, Temasek and Bain & Company, 2021^[3]). Individuals, firms and countries that can harness this new wave of technological progress stand to benefit greatly, but only if they have a broad mix of skills, including cognitive (e.g. problem solving), socio-emotional (e.g. communication, teamwork) and digital skills (OECD, 2019^[4]).

Southeast Asian countries continue to experience unprecedented and sustained change in the age structure of their populations. Life expectancy is increasing, while fertility is decreasing, driven by improved living standards. In many Southeast Asian countries with relatively youthful populations, greater investment in the skills of youth can dramatically improve their skills profiles, increasing their productivity and competitiveness, and, by extension, help them to move up the GVC in the longer term. Currently, the share of older people over 65 in the population is, on average, lower across Southeast Asian countries (10.7%) than in OECD countries (17.3%) (OECD, 2022^[5]). However, the speed of population ageing is increasing, and the share of older people over 65 years old in total population is projected to be over 27%

in Southeast Asia by 2050 (UN DESA, 2019^[6]). Increased life expectancy and improving health in older age imply that older workers can stay in the labour market longer, provided they have adequate incentives and opportunities to reskill and upskill. They will also need skills that will allow them to participate fully in society, such as digital skills that facilitate social engagement and access to basic public services in a digital world (OECD, 2019^[7]).

Southeast Asian countries are significant sources of both migrant inflows and outflows. Brunei Darussalam, Malaysia, Singapore and Thailand are countries with net migrant inflows, while Cambodia, Indonesia, Lao People's Democratic Republic (hereafter "Lao PDR"), Myanmar, the Philippines and Viet Nam have net migrant outflows (Migration Policy Institute, 2020^[8]). Migrants increase the supply of skills and can contribute to economic growth in their host country if their skills are well used. When individuals with high skills emigrate, this can be a loss to the origin country due to increased labour shortages in important sectors. However, it can also be a gain due to remittances and useful know-how, skills, and networks for the economy, if the individuals return (OECD, 2019^[7]). As Southeast Asian countries have different demographic profiles, with the size of workforces growing in some and declining in others, more circular migration in the region could be beneficial for all. In addition, managing migration better can boost workers' welfare and accelerate economic integration.

Climate change is a priority for Southeast Asian countries. The region is vulnerable to floods, droughts, heat waves, typhoons and rising sea levels and their projected adverse impacts on gross domestic product (GDP). Climate change affects skills development, usage and skills demand in various ways. Learning and work could be interrupted by direct channels, such as the closure of schools and workplaces, damages to relevant infrastructure, and the relocation of families, as well as by indirect channels, such as the onset of various health issues due to climate-change-induced increases in precipitation and the rise of temperatures (UNICEF, 2019^[9]; ADB, 2017^[10]). When countries transition towards green economies and create new "green jobs", sufficient reskilling and upskilling opportunities are crucial to creating a workforce that can support such a transition, as well as helping vulnerable workers find new job opportunities in emerging sectors (ILO, 2017^[11]; Martinez-Fernandez, Hinojosa and Miranda, 2010^[12]; ILO, 2019^[13]).

The COVID-19 pandemic has disrupted progress and may exacerbate systemic challenges

The COVID-19 pandemic has significantly impacted all countries in Southeast Asia. There have been widespread impacts on countries' economic development, social systems and public well-being. The first COVID case was reported in the region as early as January 2020, with all Southeast Asian countries reporting at least one case by March 2020. While many of the countries managed to contain the spread of the virus during the first wave of the pandemic, the emergence of variants, particularly B.1.617.2 (Delta), accelerated the rate of infection in the region. As of 10 May 2022, a total of over 3 million cases had been reported in the region, representing an infection rate of 9 480 cases per 100 000 population – higher than the equivalent at the global level (6 609 cases), but much lower than across OECD countries (30 486 cases). Rates of full vaccination (as of November 2022) vary widely across countries – from as low as 50.6% in Myanmar to as high as 101.9% in Brunei Darussalam – with the Association of Southeast Asian Nations (ASEAN) average (77.8%) performing slightly better than that of the OECD (74%) (WHO, 2022^[14]).

COVID-19 has significantly impacted Southeast Asian economies, slowing down the impressive growth many countries had been experiencing prior to the pandemic. All countries experienced drops in real GDP growth rates from 2019 to 2020, with the worst-hit economies being the Philippines (-9.6%), Thailand (-6.1%) and Malaysia (-5.6%) (IMF, 2022^[15]). In 2021, the pandemic wiped out an estimated 9.3 million jobs and pushed 4.7 million people into extreme poverty in Southeast Asia, many of them being low-skilled workers and those employed in agro-processing, garments, retail and tourism, the informal

economy and businesses with low digitalisation uptake. While countries have begun to slowly recover, the region's economic output in 2022 is projected to remain 10% weaker than that of a scenario without COVID-19 (ADB, 2022^[16]; 2022^[17]; The Asia Foundation, 2020^[18]).

The pandemic has greatly affected the way skills are being developed and used in Southeast Asia, exacerbating existing skills imbalances in the region. School closures and social distancing measures have shifted education on line, putting at risk students without access to reliable Internet, digital devices and conducive learning environments at home. The pandemic has also led to reductions in informal and non-formal learning opportunities, including internships, apprenticeships and work-based learning programmes (OECD, 2020^[19]). Moreover, the intensity of skills use in workplaces has dropped significantly, with member countries of the Association of Southeast Asian Nations (ASEAN) experiencing an average 7.3% loss in working hours due to COVID-19 – higher than OECD countries with available data, including Australia, Germany, Korea and Japan (ILOSTAT, 2021^[20]). Containment measures have also led to increases in remote work, which have led to benefits, such as reductions in commuting time, but also challenges in employee well-being and productivity (Eurofound and ILO, 2017^[21]; Messenger, 2019^[22]).

Skills should be at the core of Southeast Asia's policy response

Megatrends and shocks, such as the COVID-19 pandemic, reinforce the need for Southeast Asia to design forward-looking and dynamic skills policies. To thrive in the world of tomorrow, people will need a comprehensive set of skills (Box 1.1). Strong foundational skills will make people more adaptable and resilient to changing skills demands. Digital, transversal, social and emotional, and job-specific skills (OECD, 2019^[7]) are becoming increasingly essential for individuals to succeed in learning, work and life. High-quality learning across the life course should be accessible for everyone to enable full participation in society and to successfully manage transitions in the labour market. Adults need continuous opportunities to upskill and reskill, and learning providers need to create more flexible and blended forms of learning to accommodate this. Firms must adopt more creative and productive ways of using their employees' skills. Finally, robust governance structures are needed to ensure that skills reforms are effective and sustainable.

Box 1.1. A wide range of skills are needed for success in work and life

The *OECD Skills Strategy 2019* identifies a broad range of skills that matter for economic and social outcomes, including:

- **Foundational skills:** Including literacy, numeracy, and digital literacy.
- **Transversal cognitive and meta-cognitive skills:** Including critical thinking, complex problem solving, creative thinking, learning to learn and self-regulation.
- **Social and emotional skills:** Including conscientiousness, responsibility, empathy, self-efficacy and collaboration.
- **Professional, technical, and specialised knowledge and skills:** Needed to meet the demands of specific occupations.

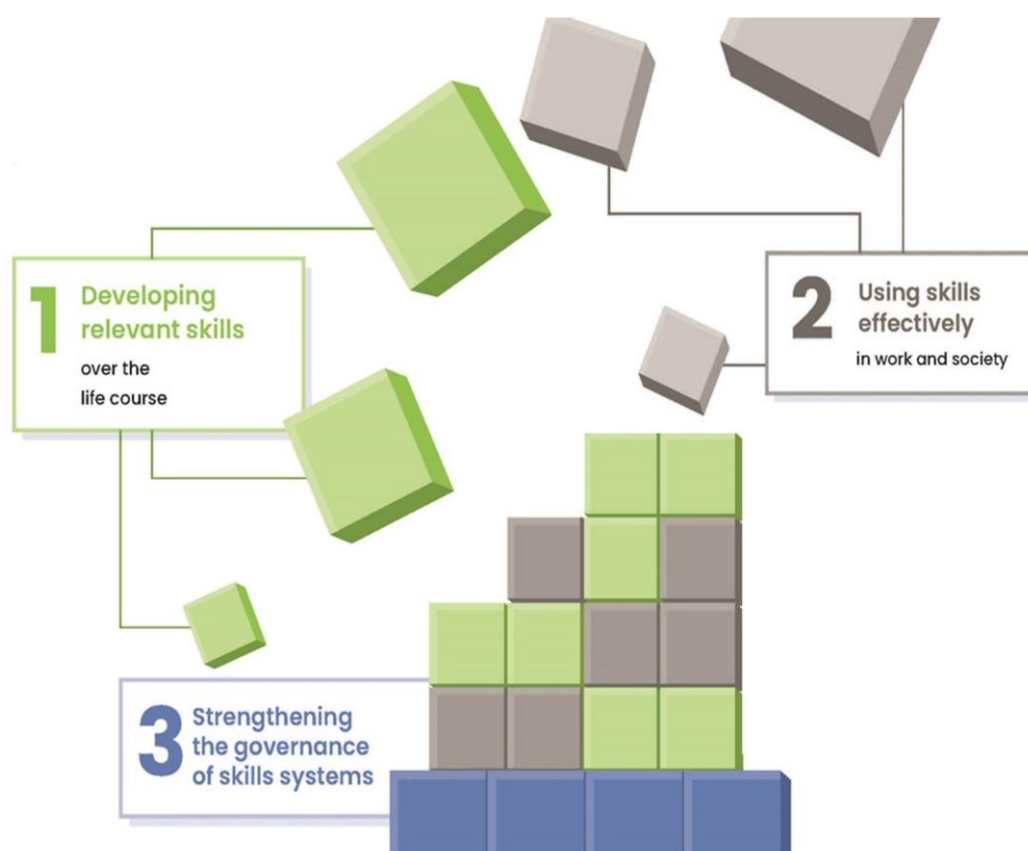
Source: OECD (2019^[7]), *OECD Skills Strategy 2019: Skills to Shape a Better Future*, <https://dx.doi.org/10.1787/9789264313835-en>.

The OECD Skills Strategy project in Southeast Asia

The OECD Skills Strategy Framework provides countries with a comprehensive model for analysing the performance of countries' skills systems, benchmarking performance internationally and exploring good practices internationally. The framework has three key dimensions (Figure 1.1):

- **Developing relevant skills over the life course:** To ensure that countries can adapt and thrive in a rapidly changing world, all people need access to opportunities to develop and maintain strong proficiency in a broad set of skills. This process is lifelong, starting in childhood and youth and continuing throughout adulthood. It is also “life-wide”, occurring both formally in schools and higher education and non-formally and informally in the home, community and workplaces.
- **Using skills effectively in work and society:** Developing a strong and broad set of skills is just the first step. To ensure that countries and people gain the full economic and social value from investments in developing skills, people also need opportunities, encouragement and incentives to use their skills fully and effectively at work and in society.
- **Strengthening the governance of skills systems:** Success in developing and using relevant skills requires strong governance arrangements to promote co-ordination, co-operation and collaboration across the whole of government; engage stakeholders throughout the policy cycle; build integrated information systems; and align and co-ordinate financial arrangements. The OECD Skills Strategy project for Southeast Asia adopted this approach by forming an interdepartmental project team to support the whole-of-government approach to skills policies and by engaging a broad variety of stakeholders.

Figure 1.1. The OECD Skills Strategy Framework



Source: OECD (2019^[7]), *OECD Skills Strategy 2019: Skills to Shape a Better Future*, <https://dx.doi.org/10.1787/9789264313835-en>.

This report was prepared after the initial outbreak of the COVID-19 pandemic and makes recommendations that could facilitate Southeast Asia's recovery, as well as recommendations to build the performance and resilience of Southeast Asia's skills system in the longer term.

Overall, the OECD Skills Strategy project in Southeast Asia engaged around 115 participants who represented ministries and agencies, municipalities, education providers, employers, workers, researchers and other sectors. From January to November 2022, 20 bilateral meetings were held with regional actors, such as the ASEAN Secretariat, the ASEAN Trade Union Council, the ASEAN Technical and Vocational Education and Training (TVET) Council, the Southeast Asian Ministers of Education Organization (SEAMEO), and ASEANstats, among others, as well as with national government agencies, including ministries responsible for education and employment, and national statistics offices. Key development partners in the region were also consulted, including international development agencies and research centres. The bilateral meetings sought to enrich the report with local insights and help the OECD team develop a deeper and more nuanced understanding of each country's skills challenges and opportunities.

Furthermore, through the ASEAN TVET Council, the OECD Skills Strategy Southeast Asia Policy Questionnaire was administered to relevant government agencies and stakeholders to gather cross-country comparative data on various topics, including education and employment measures adopted in response to the COVID-19 pandemic. Responses were received from five countries (Cambodia, Malaysia, Myanmar, Singapore and Viet Nam).

The OECD also organised the Southeast Asia Regional Policy Network on Education and Skills, with the 11th meeting taking place in November 2021 and the 12th meeting in November 2022. Each meeting convened approximately 80 participants from ASEAN, partner countries in Southeast Asia, OECD countries and international organisations. The 11th meeting focused on Southeast Asian countries' skills responses to COVID-19 and the strategies they adopted in response to global megatrends, while the 12th meeting discussed skills in partnership. Both events informed the report by promoting exchanges between OECD and Southeast Asian countries on best policy practices and areas for co-ordinated intervention.

The performance of Southeast Asia's skills system

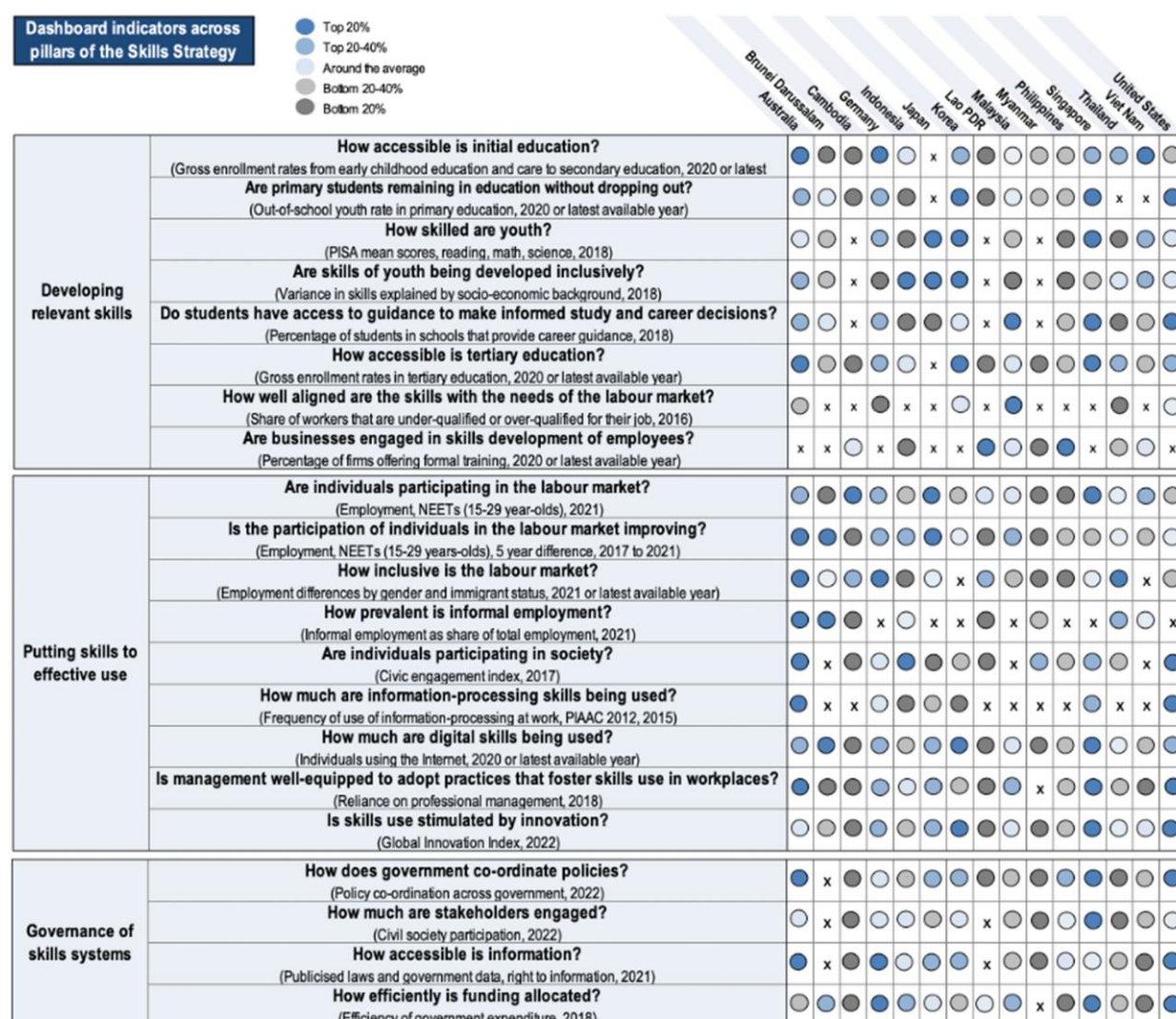
The OECD Skills Strategy Dashboard provides an overview of the relative performance of countries across the dimensions of the OECD Skills Strategy (Figure 1.2). For each dimension of the strategy, there are a number of indicators, some of which are composite indicators, which provide a snapshot of each country's performance (see Figure 1.2 for the indicators).

Developing relevant skills over the life course

Access to skills development has improved at all levels of education, but many barriers remain, especially for disadvantaged groups

Southeast Asian countries have made considerable progress in increasing participation in skills development over the life course. Figure 1.3 presents the key indicators of the dimension "Developing relevant skills over the life course" in the dashboard presented in Figure 1.2 shows the average performance of ASEAN countries and OECD countries relative to each other. Over the years, countries in Southeast Asia have succeeded in boosting enrolment rates in early childhood education and care (including pre-primary education), compulsory education, TVET, tertiary education and adult learning. However, at all levels, enrolment rates in Southeast Asia still generally fall behind those of OECD countries, and out-of-school children rates are nearly four times larger in the region than in the OECD. Participation in skills development also tends to be lower at later stages of life, such as in tertiary education and adult learning. For instance, while average 2019 enrolment rates throughout Southeast Asia were high at the primary (103.4%) and secondary (84.3%) levels, the rates at the tertiary level (36%) are far lower (World Bank, 2021^[23]).

Figure 1.2. OECD Skills Strategy Dashboard: Southeast Asia and selected benchmarking countries, 2022

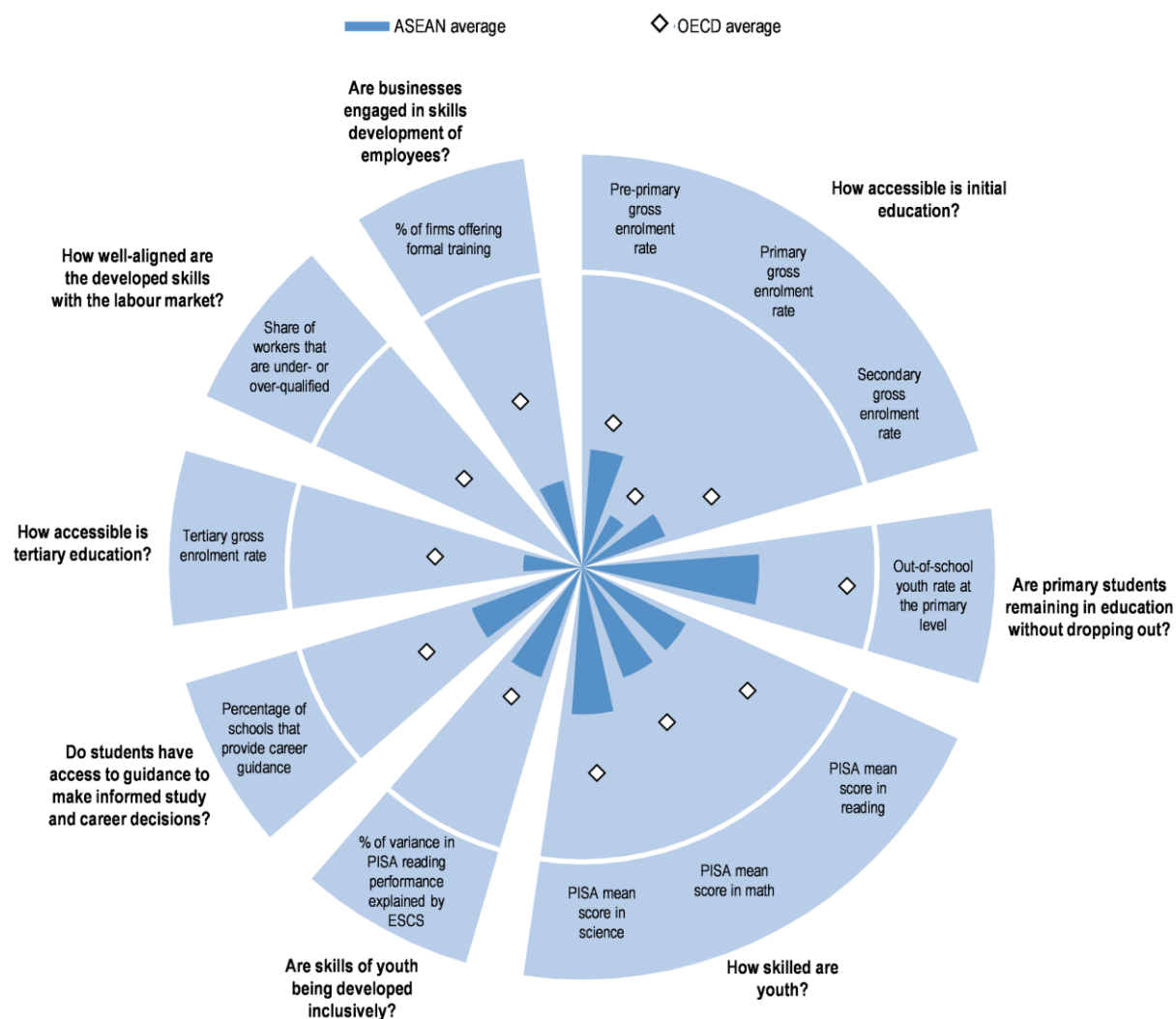


Note: The Skills Strategy Dashboard has a focus on outputs of the skills system. Colours in the dashboard represent the quintile position of the country in the ranking, and "x" indicates insufficient or no available data for the underlying indicators. See Annex Table 1.A.1 in Annex 1.A for a more detailed analysis and an overview of the underlying indicators. The ranking of ASEAN countries is relative to other ASEAN countries and the five benchmarking OECD countries (Australia, Germany, Japan, Korea and the United States).

Participation in skills development over the life course remains highly unequal across groups in Southeast Asia. Consistently across all levels of education, access to learning is limited for learners from low-income households, remote areas, ethnic minorities and learners who have disabilities (SEAMEO INNOTECH, 2021^[24]; The HEAD Foundation, 2022^[25]). Moreover, among the working-age population, access to training remains limited, with only 48.8% of large firms, 36.1% of medium-sized firms, and 16.8% of small firms offering training to their employees (World Bank, 2020^[26]). Moreover, the lack of access to training among workers in Southeast Asia's sizeable informal economy is one of the region's principal policy concerns. It is estimated that there are about 244 million informal workers throughout the region who do not have access to social security or employment benefits, including employer-sponsored training (ASEAN, 2022^[27]; ASEAN Secretariat, 2019^[28]; OECD, 2021^[29]).

Figure 1.3. Performance of ASEAN countries and OECD countries in developing relevant skills, 2022

Relative position in country ranking (based on normalised scores), where higher value reflects better performance



Note: ESCS stands for economic, social and cultural status. OECD average is based on the performance of the 38 OECD countries.

How to read this figure: The normalised scores indicate the relative performance, 0 for weakest performance and 10 for strongest performance across OECD countries. The further away from the core of the chart, the better the performance.

Source: See Annex Table 1.A.1 in Annex 1.A for an explanation of sources and methodology.

Improving the quality of learning – both in school and at home – is a key policy concern in Southeast Asia

The skills performance of Southeast Asian learners remains low in international comparison, raising questions about the quality of education. For instance, the performance of Southeast Asian students in the latest round of the Programme for International Student Assessment (PISA) in 2018 remained well below the OECD average in reading, mathematics and science, although Singapore was a top-performing country (OECD, 2019^[30]). Literacy, especially among adults, has not reached universal

rates in the region (89.9%) and remains relatively low in certain countries, such as Lao PDR (70.4%), Cambodia (81.9%) and Myanmar (88.9%) (World Bank, 2022^[31]). Moreover, digital literacy is a key policy concern, especially as economic activities become more dependent on technology. Only 28% of youth and adults in Southeast Asia possess the digital skills needed in the workplace compared to 44.5% across OECD countries (UNESCO Institute for Statistics, 2021^[32]).

Material and human resource limitations in schools, especially in disadvantaged areas, negatively impact students' skills outcomes. For instance, only 34% of children in Cambodia, 56% in Lao PDR and 58% in Myanmar had access to a classroom library. The lack of learning materials is especially pronounced in rural areas, which risks widening location-based equity gaps in education (UNICEF and SEAMEO INNOTECH, 2022^[33]; Oblina, Linh and Phuong, 2021^[34]). In addition, large class sizes and varying student profiles (in terms of language and skill level) make it difficult for teachers to provide well-tailored and focused instruction to their students (UNICEF and SEAMEO INNOTECH, 2022^[33]).

In addition to challenging conditions in schools, the lack of stimulating learning environments at home contributes to the low performance of Southeast Asian learners. Children from low-income households often do not have access to learning materials, such as books and playthings. Those in the poorest quintile are 28.2 percentage points less likely to live in a positive and stimulating home than children in the wealthiest quintile (UNICEF, ILO and WIEGO, 2021^[35]). Parents who are migrants or work in the informal economy with long and unregulated working hours are less able to support the development of children's skills and engage in healthy learning relationships with them (UNICEF, ILO and WIEGO, 2021^[35]). Moreover, the lack of digital infrastructure and devices has made it difficult for many disadvantaged learners to continue participating in education in the context of the COVID-19 pandemic (UNICEF and ASEAN, 2021^[36]).

Southeast Asia needs to better ensure people develop skills that are in line with evolving skills demands

Considering rapid changes in labour markets, Southeast Asian countries must ensure students' access to relevant and higher-level skills. Enrolment in educational programmes in key sectors, such as those related to science, technology, engineering and mathematics (STEM) at the tertiary level, has increased in all countries over the last decade by an average of 6.8 percentage points (UNESCO Institute for Statistics, 2021^[32]). Despite this progress, the content of tertiary education curricula remains outdated in many cases, and many higher education institutions lack the infrastructure and human resources needed to adequately develop emerging and highly technical skills (CISCO and Oxford Economics, 2018^[37]; ASEAN University Network, 2017^[38]; Cunningham et al., 2022^[39]).

Offering better skills, labour market information and more guidance counsellors can help the Southeast Asian workforce develop relevant skills and reduce skills mismatches. At present, skills mismatches by level of qualification and field of study are significant in countries with available data (i.e. Singapore and Thailand). Under-qualifications are prevalent in Singapore, where 20% of workers are under-qualified, while over-qualifications are highest in Thailand, where 34% of workers are over-qualified for their jobs. Field-of-study mismatches are significantly high in both countries: 43% in Singapore and 37.3% in Thailand (OECD, 2019^[40]). In addition to these current mismatches, an estimated 6.6 million Southeast Asian workers will become redundant over the next decade, as they are in jobs that will disappear due to technological advancements, highlighting the need for targeted career guidance support and more relevant reskilling and upskilling opportunities (ASEAN, 2021^[41]; CISCO and Oxford Economics, 2018^[37]). However, the use of skills data to identify emerging skills needs remains limited, which makes it difficult for career guidance counsellors to provide relevant information on relevant training offers (Intad, 2021^[42]; Muhamad, Salleh and Nordin, 2016^[43]). Moreover, the supply of qualified career guidance counsellors remains limited in Southeast Asia, especially among disadvantaged groups, whose access to

career guidance counsellors is about 8 percentage points below that of advantaged groups (OECD, 2019^[44]; Saputra and Sudira, 2019^[45]).

Using skills effectively in work and society

Southeast Asian countries' performance on key labour market indicators has improved, but many challenges remain

Formal labour force participation rates in Southeast Asia are generally high, owing to various targeted policy interventions. The average labour force participation in ASEAN countries stood at 67.7% in 2021, surpassing that of the OECD (59.6%) (Figure 1.4), and has remained relatively stable over the last ten years, fluctuating only between 65.6% and 68.2% from 2011 to 2021 (ILOSTAT, 2021^[46]). Governments in the region have aimed to enlarge the size of the workforce by improving employment support services and strengthening international labour mobility. However, full and effective participation remains a challenge for many disadvantaged groups, such as women, whose participation rate is 29 percentage points below that of men. Youth and migrants participating in the labour force are also more likely to be found in part-time work and low-skilled occupations (Gentile, 2019^[47]; Eurostat, 2022^[48]).

The skills of people in Southeast Asia could be used more fully and effectively in everyday life. The use of basic skills, such as reading, writing, numeracy, and information and communication technology skills, in everyday life are lower in Southeast Asian countries with available data (Indonesia and Singapore) than in OECD countries. This is an area of policy concern, as the use of these skills is associated with higher levels of social trust and greater participation in civic activities. Consequently, participation rates in civic activities across Southeast Asia are also relatively low, especially in some countries, such as Cambodia, Thailand and Viet Nam, where less than 20% of individuals in the working-age population have volunteered time to an organisation (OECD, 2019^[49]). Rates may vary depending on country context, for example, to what extent volunteering is encouraged from a young age in the formal education system and, more generally, in society at large.

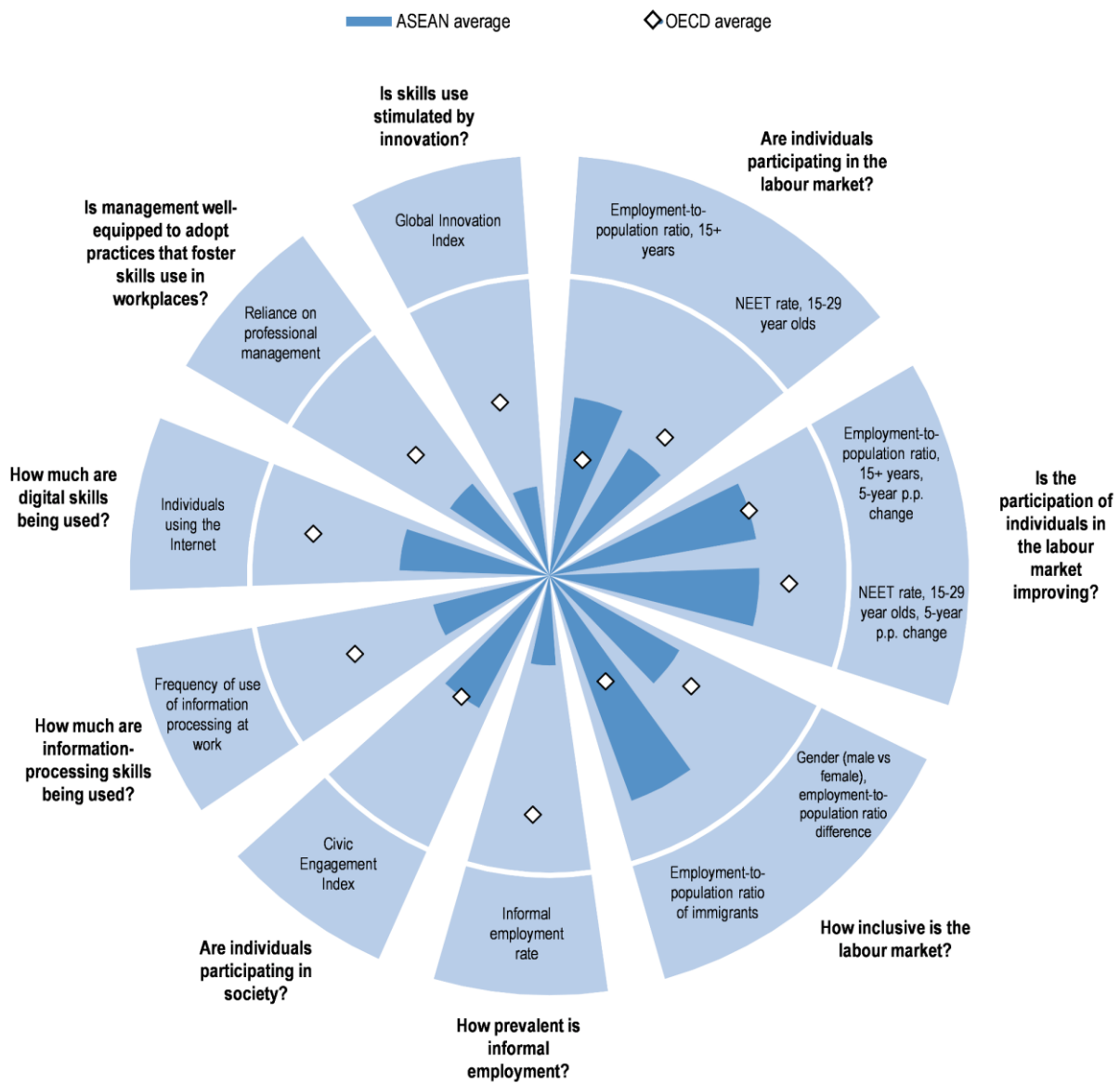
Disadvantaged groups face multiple challenges in fully and effectively using their skills

Widespread employment in the informal sector is a primary policy concern in Southeast Asia. On average, 71% of those who are employed in the region are found in the informal sector, with informal employment rates being significantly high in nearly half of ASEAN countries, namely Cambodia (88%), Lao PDR (83%), Indonesia (80%) and Myanmar (80%) (ILOSTAT, 2021^[50]). This constitutes a key policy concern in Southeast Asia, as informal employment is associated with poor working conditions, such as lower compensation, fewer employee benefits and lack of access to skills development opportunities, which not only lowers productivity but also makes informal workers particularly vulnerable to labour market changes brought about by global megatrends (ILO, 2019^[51]).

Women in Southeast Asia disproportionately face barriers to participating in the formal labour force. Gender gaps are significant in the region, and when women are working, many of them are found in the informal sector and low-productivity and low-pay sectors, such as food, accommodations, essential domestic work and manufacturing (ILO, 2019^[52]; ILOSTAT, 2021^[46]; Lai, 2020^[53]). In addition, women face multiple barriers to participating in the formal labour market, such as unpaid care work that lessens the amount of time they can devote to economically productive activities. While the burden of unpaid care work more often falls on women around the world, these expectations are especially pronounced in Southeast Asia, where women spend 4.2 times longer hours than men on unpaid care work, in comparison to 2.2 times in OECD countries (OECD, 2019^[54]). The COVID-19 pandemic and lockdown measures have also exacerbated the situation of women, who have assumed the extra work associated with children's remote learning following the closure of schools (OECD, 2021^[55]).

Figure 1.4. Performance of ASEAN countries and OECD countries in using skills effectively, 2022

Relative position in country ranking (based on normalised scores), where higher value reflects better performance



Note: NEET refers to “not in education, employment or training”. “5-year p.p. change” refers to a 5-year percentage points change. OECD average is based on the performance of the 38 OECD countries.

How to read this figure: The normalised scores indicate the relative performance across OECD countries: the further away from the core of the chart, the better the performance. For example, the indicator “How much are digital skills being used” shows a lower score for the ASEAN average, indicating that the share of individuals using digital skills is lower than the OECD average.

Source: See Annex Table 1.A.1 in Annex 1.A for an explanation of sources and methodology.

In addition to women, other disadvantaged groups in Southeast Asia, such as migrants and youth, face challenges in securing productive and meaningful employment. While migrants have higher labour market participation rates than native populations in all countries with available data (Brunei Darussalam, Cambodia, Lao PDR, Malaysia and Thailand), many of them have low levels of skills and are employed in low-skilled sectors, namely agriculture, construction and domestic services (Gentile, 2019^[47]; ILOSTAT, 2021^[46]). Similarly, there are many challenges in finding employment for youth in

Southeast Asia, who face employment barriers, such as a lack of previous work experience (ILO, 2020^[56]). As a result, youth often take about 11.6 months to find their first job and an even longer 13.8 months to find a job that is up to their satisfaction (ILO, 2019^[57]; 2020^[56]).

Policies that increase demand for higher-level skills and promote their use need to be strengthened in Southeast Asia

The low use of skills in Southeast Asia stems from the lack of an enabling environment for intensive skills use in the workplace and limited management capacities among employers. Adopting high-performance workplace practices (HPWPs) is key to facilitating the more extensive use of skills among workers. However, awareness about them remains scarce, especially among small- and medium-sized enterprises (SMEs) (OECD, 2019^[7]). This is a concerning policy issue in Southeast Asia, where SMEs dominate the business environment and account for 97% of countries' total firms (ADB, 2020^[58]). Evidence on the use of HPWPs in Southeast Asia is extremely limited. However, available data show that the share of jobs employing HPWPs in Singapore (26%) is close to that of the OECD average (27%) but is extremely low in Indonesia (1.98%) (OECD, 2018^[59]). The capacity to maximise the use of HPWPs is also restricted by the limited management capacity of SMEs in Southeast Asia, where reliance on professional management is lower than that of the OECD (World Economic Forum, 2019^[60]).

Southeast Asian countries could benefit from policies that foster demand for the use of higher-level skills in innovation and entrepreneurship. While enrolment in STEM programmes has risen in all countries in Southeast Asia over the last decade, countries invest only 0.59% of their GDP on research and development (R&D) activities, in comparison to 2.57% in OECD countries (UNESCO Institute for Statistics, 2021^[32]). Moreover, Southeast Asia scores 14 points lower than the OECD on the Global Innovation Index, which measures how well various country-level factors (e.g. political and business environments) can support innovation (Cornell University, INSEAD and World Intellectual Property Organization, 2020^[61]).

Strengthening the governance of skills systems

Southeast Asian countries have established mechanisms to improve co-ordination among various actors inside and outside of government, but implementation challenges remain

Horizontal and vertical co-ordination mechanisms for skills policies in Southeast Asia have been established, but implementation remains difficult. Countries have established oversight agencies, inter-ministerial bodies and working groups, among other mechanisms, that could serve as platforms to work a common skills agenda across the whole of government. However, Southeast Asia still scores poorly on the Bertelsmann Transformation Index (BTI) indicator on policy co-ordination, which measures the extent to which governments can co-ordinate conflicting objectives into a coherent policy. On average, ASEAN countries score 5.5 points on a scale of 1 (lowest) to 10 (highest), in comparison to 6.9 points among OECD countries (Bertelsmann Stiftung, 2020^[62]).

Outside of government, stakeholder groups can make important contributions to skills policies, but engagement with them remains low in Southeast Asia. It is important to co-ordinate with labour market actors, such as employer organisations, who can help align skills policies with industry demands, as well as with trade unions, who can represent the interests and needs of workers. However, the formation of employer organisations is limited by high rates of informality in the region (ILO, 2015^[63]). Moreover, only 8.5% of workers in Southeast Asia are members of trade unions, in comparison to 15.8% in the OECD (ILOSTAT, 2020^[64]; OECD, 2020^[65]). While civil society organisations, such as non-governmental organisations, community-based organisations and religious groups, work to promote the development and use of skills of women, migrants and youth, only a few Southeast Asian governments formally recognise their roles in major skills policy documents (Chong and Elies, 2011^[66]; Weaver, 2006^[67]).

The collection, management and use of skills data in Southeast Asia could be improved to better inform skills policies

There are many barriers to collecting and managing high-quality, up-to-date and comprehensive data on skills in Southeast Asia. Most Southeast Asian countries have fewer measures in place to facilitate access to information, such as government data, that could be used to inform skills policies (World Justice Project, 2021^[68]). Among the data available, there are still significant gaps remaining, particularly on the development of skills among disadvantaged groups, namely out-of-school youth, learners from remote areas and children with disabilities. There is also limited data collected on the effective use of skills in the workplace, such as information on the skills firms need and the employer initiatives in place to facilitate their full and effective use in the workplace (UNESCO Office Bangkok and Regional Bureau for Education in Asia and the Pacific, 2017^[69]; UNESCO Institute for Lifelong Learning, 2016^[70]).

Data could also be better managed and used in Southeast Asia to inform skills policies. Central to the management of skills data is a robust digital infrastructure. However, many countries in the region do not have the sufficient information technology hardware and software needed to manage and process the data that has been collected (Open Data Watch, 2020^[71]). In addition to managing data, it is equally important to ensure that countries in the region use the data to understand evolving skills supply and demand trends. However, the use of data through skills assessments and anticipation exercises remains limited in the region, although some countries have notable initiatives in place to facilitate the use of such exercises (e.g. Malaysia TalentCorp's skills assessments based on the Labour Force Survey and Salaries and Wages Survey).

Southeast Asian countries could diversify financial resources and allocate them in a more equitable manner

Public funding for education could be supplemented with private funding, particularly from employers. Average government spending on education in Southeast Asia is lower than in OECD countries at all levels of education. While countries allot a substantial portion of GDP per capita to education, it is still significantly lower than OECD countries at the primary level (11.3% in ASEAN, 20.3% in the OECD), secondary level (16.9% in ASEAN, 22.4% in the OECD) and tertiary level (22.8% in ASEAN, 25.4% in the OECD) (World Bank, 2021^[23]). Government investment in TVET as a percentage of GDP is also significantly lower in Southeast Asia (0.16%) than it is in OECD countries (0.5%) (AFD, 2019^[72]; OECD, 2022^[73]). Private funding from employers could help augment financial resources for skills in Southeast Asia, but engagement with them remains relatively low across the region. Several types of employer-driven financing mechanisms exist, such as levy-sponsored skills development funds (e.g. Malaysia and Singapore's Human Resource Development Fund, Thailand's "train or pay" approach to their Skills Development Fund). However, their use in other countries is limited (UNESCO, 2022^[74]).

Monitoring and evaluating financial expenditure in Southeast Asia could be strengthened to better assess the achievement of equity goals. Countries in the region have funding arrangements in place to allot financial resources specifically for disadvantaged groups, leaving discretion to schools on how to allocate the funding for different elements based on their students' needs (e.g. Philippine Department of Education's block grant through the Governance of Basic Education Act of 2001) (Philippines Department of Education, 2015^[75]). However, while such financial mechanisms are important to fostering equity, monitoring and evaluation measures that ensure transparency and accountability are also key, especially when they are conducted in partnership with a wide range of stakeholders, such as those represented on school boards (OECD, 2017^[76]). While school boards have been established in Southeast Asian countries, many challenges remain, such as an inadequate infrastructure for monitoring school expenditure, weak planning and budgeting practices, and the lack of processes that check for accountability in school budgets, among others (Robredo, 2012^[77]).

The policy context in Southeast Asia

A range of policy reforms in Southeast Asia recognise the importance of skills

Southeast Asia has already developed a range of strategies and reforms to help countries respond effectively to megatrends, addressing challenges and seizing the opportunities they present to countries' skills systems. The relevant priorities and goals of these strategies are summarised at the beginning of each chapter of the full report, as assessed considering the OECD's analysis and recommendations. Furthermore, as elaborated in the chapters of the full report, Southeast Asia has embarked on a range of skills policy reforms in recent years, covering all aspects of the skills system, namely skills development, skills use and the governance of skills systems.

Southeast Asian countries have prioritised increasing participation in skills development, especially among disadvantaged groups, and improving the quality of education. Many countries have made education and training the foundation of their national development plans, explicitly recognising the importance of skills development in their ability to adapt to labour market changes, increase competitiveness and foster social cohesion (ASEAN, 2020^[78]). Measures have been put in place to address issues in educational quality, such as the upskilling of teachers and school leaders to help them prepare for pedagogical and administrative challenges in the education system, the upgrading of classrooms and educational infrastructure, the reinforcement of educational quality assurance bodies, the strengthening of links between schools and industries, the improvement of data collection for skills policies, and the adoption of performance-based funding in schools (Lee, 2016^[79]; SEAMEO INNOTECH, 2020^[80]). In these policy efforts, particular attention has been paid to disadvantaged learners, with governments affirming their commitment to making high-quality education and training accessible to all regardless of gender, socio-economic background, location and ethnicity (UNESCO Office Bangkok and Regional Bureau for Education in Asia and the Pacific, 2017^[69]).

Southeast Asia has also launched policy initiatives to reduce barriers to formal labour market participation, aiming to boost the region's economic productivity and competitiveness. These include improving the delivery of public employment services that provide school-to-work transition support for young graduates and job seekers (especially during the COVID-19 pandemic), as well as promoting the use of HPWPs that foster both employee productivity and well-being in the workplace. Innovation and entrepreneurship have been on the rise in the region, with many countries actively promoting the demand for higher-level skills in key strategic sectors (e.g. STEM), strengthening links between higher education institutions and firms, and investing in R&D activities through the provision of research grants and incentives to innovative start-ups and SMEs. In all these efforts, increased policy attention has been given to disadvantaged groups in Southeast Asia, notably informal workers, women, youth and migrants. Throughout the region, there is a strong political commitment given to boosting their participation in the formal economy, as well as the protection of their rights in the workplace (ILO, 2016^[81]; Gentile, 2019^[47]).

There have also been policy efforts to make the governance of skills systems in Southeast Asia more equitable and responsive to the needs of students and workers. Countries in the region have established multiple mechanisms to improve horizontal and vertical co-ordination across government (e.g. oversight agencies, policy development forums), as well as create more room for civil society groups to participate and advance the interests of disadvantaged groups in the design of skills policies (UNESCAP, 2019^[82]). There are also efforts underway in individual countries to increase engagement with industry representatives for various objectives, including making educational systems more responsive to labour market needs and incentivising employers to contribute resources to skills development (ILO, 2020^[83]). Moreover, Southeast Asia is participating more and more in the conduct of skills assessments, including at the international level, to benchmark the region's performance against other countries and better inform the design of skills policies (Cambodia MoEYS, 2018^[84]).

Southeast Asia should seize this moment to adopt a more strategic approach to its skills policies

ASEAN is now amid a new round of strategy development for the medium and long term. This gives Southeast Asia a unique window of opportunity to implement a more strategic approach to skills to help drive economic prosperity, social cohesion and sustainable growth. Some of these key strategies and regional initiatives are shown in Table 1.1.

Table 1.1. ASEAN policies and strategies relevant to skills

Title of policy or strategy	Description
Consolidated Strategy on the Fourth Industrial Revolution for ASEAN (2021)	Increases the competitiveness of Southeast Asian countries in increasingly digital economies and implements forward-looking human resource development initiatives Promotes capacity building to support the region's Fourth Industrial Revolution reforms
ASEAN Comprehensive Recovery Framework and its Implementation Plan (2020)	Outlines the region's exit strategy from the COVID-19 pandemic, focusing on key sectors and groups that have been disproportionately affected Highlights human resource development as the core of all five Broad Strategies
ASEAN Declaration on Human Resources Development for the Changing World of Work and its Roadmap (2020)	Promotes lifelong learning and increases inclusiveness of education and employment services, especially for women, persons with disabilities, the elderly, learners in rural or remote areas and workers in SMEs
ASEAN Labour Ministers' Statement on the Future of Work: Embracing Technology for Inclusive and Sustainable Growth (2019)	Strengthens the capacity of educational institutions to prepare their workforce, especially disadvantaged groups (e.g. women, persons with disabilities, elderly, youth) for labour market changes due to technological advancements Outlines the importance of closer co-operation with industries, the improvement of TVET standards and the expansion of reskilling and upskilling offers for workers
ASEAN Consensus on the Protection and Promotion of the Rights of Migrant Workers (2017)	Establishes a framework for co-operation on issues related to the employment and working conditions of migrant workers in the region Encourages the formal employment of migrants and promotes access to labour market information and skills development offers for migrant workers
Vientiane Declaration on Transition from Informal Employment to Formal Employment towards Decent Work Promotion in ASEAN (2016)	Reduces informal employment in the region and assesses the factors contributing to informal employment, especially in rural areas Promotes policy measures to facilitate wider access to skills development (especially TVET), employment promotion (including in entrepreneurial sectors) and labour protection.

Source: ASEAN (2020^[85]), *ASEAN Comprehensive Recovery Framework and its Implementation Plan*, <https://asean.org/wp-content/uploads/2021/09/ASEAN-Comprehensive-Recovery-Framework-Pub-2020-1.pdf>; ASEAN (2017^[86]), *ASEAN Consensus on the Protection and Promotion of the Rights of Migrant Workers*, <https://asean.org/wp-content/uploads/2017/11/ASEAN-Consensus-on-the-Protection-and-Promotion-of-the-Rights-of-Migrant-Workers1.pdf>; ASEAN (2020^[87]), *ASEAN Declaration on Human Resources Development for the Changing World of Work and its Roadmap*, <https://asean.org/wp-content/uploads/2021/08/ASEAN-Declaration-on-Human-Resources-Development-for-the-Changing-World-of-Work-and-its-Roadmap-Final-19Feb2021.pdf>; ASEAN (2019^[88]), *Labour Ministers' Statement on the Future of Work: Embracing Technology for Inclusive and Sustainable Growth*, <https://asean.org/asean2020/wp-content/uploads/2021/01/ASEAN-Labour-Ministers-Statement-on-the-Future-of-Work-Embracing-Techno.pdf>; ASEAN (2021^[89]), *Consolidated Strategy on the Fourth Industrial Revolution for ASEAN*, <https://asean.org/wp-content/uploads/2021/10/6.-Consolidated-Strategy-on-the-4IR-for-ASEAN.pdf>; ASEAN (2016^[90]), *Vientiane Declaration on Transition from Informal Employment to Formal Employment towards Decent Work Promotion in ASEAN*, <https://asean.org/wp-content/uploads/2016/09/Vientiane-Declaration-on-Employment.pdf>.

The assessment and recommendations in this report can feed into these processes to help ensure that Southeast Asia's skills priorities, policies and investments over the next decade improve outcomes across the skills system.

OECD Skills Strategy dimensions and recommendations

Applying the OECD Skills Strategy Framework, the OECD analysed the performance of Southeast Asian countries across the three dimensions of the OECD Skills Strategy. Over the course of the project, the OECD identified opportunities for improvement and developed recommendations in each dimension based on in-depth desk analysis and consultations with stakeholder representatives. The three dimensions are: 1) developing relevant skills over the life course; 2) using skills effectively in work and society; and 3) strengthening the governance of skills systems.

The skills implications of megatrends, such as globalisation, technological progress, demographic changes, migration and climate change, as well as unforeseen shocks, such as the COVID-19 crisis, are covered in Chapter 2 of the full report.

The summaries below highlight the key findings and recommendations for each dimension, while the chapters of the full report provide a fuller description of these. A full overview of the recommendations can be found in Annex 1.B.

Dimension 1: Developing relevant skills over the life course (Chapter 3 of the full report)

Opportunity 1: Broadening access to skills development

Access to skills development must start from the early years, given that foundational skills lay the groundwork for the acquisition of higher-level skills later in life (OECD, 2019^[91]; 2021^[92]). Continued participation in education after compulsory schooling also ensures that individuals have relevant, higher-level skills that will help them succeed in work and life (OECD, 2019^[7]). Southeast Asian countries have adopted various policies to expand access to skills development over the life course. However, room remains to improve participation rates in post-compulsory education, particularly in TVET, tertiary education and adult education. Across all levels, particular policy attention must be paid to disadvantaged groups, such as those coming from low-income households, remote areas, ethnic minorities and those who have disabilities (SEAMEO INNOTECH, 2021^[24]; The HEAD Foundation, 2022^[25]). Opportunity 1 describes how Southeast Asian countries can broaden access to skills development (Table 1.2).

Table 1.2. Opportunity 1: Broadening access to skills development

Policy directions	High-level recommendations
Improving access to early childhood education and care and compulsory education for disadvantaged groups	1.1. Establish strong monitoring systems to detect children who have failed to enter the education system, as well as those who are at risk of dropping out 1.2. Support provision of learning materials parents can use at home 1.3. Strengthen digital infrastructure, digital education platforms, and digital literacy to broaden access to skills development opportunities, especially among disadvantaged groups and during times of disruption
Promoting access to skills development after compulsory education	1.4. Adopt a comprehensive policy strategy to address both supply- and demand-side barriers to technical and vocational education and training participation 1.5. Facilitate access to tertiary education by reducing the most significant financial barriers, both in terms of tuition fees and the cost of learning materials 1.6. Create a comprehensive national adult learning strategy that targets disadvantaged groups and facilitates their participation.

Opportunity 2: Increasing excellence and equity in skills development

Well-qualified teachers and school leaders, adequate funding and strong student assessment systems are indispensable parts of skills development systems, as these ensure that learners have access to the high-quality instruction and learning experiences they need (Baker, 2017^[93]). In Southeast Asia, there are efforts to improve educational quality, including the provision of training for school personnel, upgrading of classrooms and educational infrastructure, the strengthening of student assessment practices and the use

of performance-based funding mechanisms (Lee, 2016^[79]; SEAMEO INNOTECH, 2020^[80]). However, improvements in student performance have been unequal, and many learners in disadvantaged schools still encounter barriers to learning in the classroom, such as large classroom sizes, insufficient instructional support and a lack of learning materials. Identifying solutions to these challenges is hindered by limited capacity to use data on student assessment to inform schools' policies, as well as low levels of management skills among school leaders (SEAMEO INNOTECH, 2012^[94]; UNESCO, 2020^[95]). At the regional level, sharing best practices in designing, implementing and using student assessments could be expanded. Opportunity 2 describes how Southeast Asian countries can increase excellence and equity in skills development (Table 1.3).

Table 1.3. Opportunity 2: Increasing excellence and equity in skills development

Policy directions	High-level recommendations
Improving the quality of human resources in schools	1.7. Invest in professional development opportunities for teachers to equip them with better pedagogical skills 1.8. Consult regularly with school leaders about their various needs in terms of resources and upskilling
Strengthening funding and student assessment in schools to improve equity	1.9. Improve the financial management skills of school leaders and personnel 1.10. Establish avenues for relevant stakeholders to collaborate on improving student assessment systems.

Opportunity 3: Developing skills that matter

As the world of work is constantly changing due to global megatrends and disruptions such as the COVID-19 pandemic, ensuring the relevance of skills development is key to helping countries become economically competitive and foster social cohesion. In line with this, Southeast Asian countries have embarked on various initiatives to strengthen links between education and industry, increase the provision of work-based learning and on-the-job training, improve labour market information to inform the work of career guidance counsellors and provide incentives to steer individuals' educational choices towards areas of skills shortage. However, there is significant room to help build the capacity of smaller firms to provide training for their employees and make career counselling more accessible to disadvantaged segments of the population, helping them access skills development offers that are in line with labour market demand. Opportunity 3 describes how Southeast Asian countries can develop skills that matter (Table 1.4).

Table 1.4. Opportunity 3: Developing skills that matter

Policy directions	High-level recommendations
Improving the alignment between skills development offers and labour market demand	1.11. Increase the involvement of relevant government agencies and industry partners in reviewing the curricula of skills development offers in technical and vocational education and training and tertiary education 1.12. Increase the provision of on-the-job training opportunities, especially among workers in smaller firms and in the informal economy
Steering skills development choices towards labour market needs	1.13. Provide regular training to guidance counsellors and make updated labour market data more accessible to inform their work 1.14. Expand financial incentives for individuals and institutions to encourage the uptake of skills development in strategic industries, especially among disadvantaged groups.

Dimension 2: Using skills effectively in work and society (Chapter 4 of the full report)

Opportunity 1: Promoting participation in the formal labour market

Promoting participation in the formal labour market and making full use of people's skills at work provides positive economic returns, improves individuals' well-being, increases the size of the productive labour force and strengthens economic growth (OECD, 2019^[7]). A range of interventions has been implemented in the region to promote employment, especially in the formal sector, such as expanding employment services, improving workplace conditions and simplifying processes to formally register and monitor

workers and firms. However, more policy attention must be paid to extending these services to disadvantaged groups in Southeast Asia, such as women, youth, migrants, and informal workers, and tailoring these services to their specific needs. Given the large intra-regional migration flow, regional co-operation in migration policies would need to be strengthened to improve cross-border recruitment and integration services. Opportunity 1 under this dimension describes how Southeast Asian countries can promote participation in the labour market (Table 1.5).

Table 1.5. Opportunity 1: Promoting participation in the labour market

Policy directions	High-level recommendations
Reducing barriers to employment for disadvantaged groups	2.1. Facilitate women's participation in the labour market through the promotion of a more equitable distribution of housework and encouraging flexible work arrangements 2.2. Support youth employment through tailored and online employment services 2.3. Enhance migrant employment possibilities through job search support, legal counselling and language training from specialised institutions for migrants
Facilitating the transition of workers from the informal to the formal labour market	2.4. Facilitate the registration of workers and businesses by making online business registration platforms more user-friendly and simplifying registration procedures 2.5. Improve the effectiveness and efficiency of labour inspection by adopting new technologies to ease the verification of workers' employment status.

Opportunity 2: Making intensive use of skills in work and society

Making full and effective use of skills in work and society is associated with higher wages and greater well-being among individuals, translating into higher labour productivity, greater social cohesion and more inclusive economic growth (OECD, 2015^[96]; 2016^[97]; 2019^[7]). In recognition of the importance of intensive skills use, some countries have begun to actively promote the adoption of HPWPs, as well as create opportunities to facilitate the use of skills outside of the workplace, such as volunteering and other civic activities. However, there is room to strengthen awareness about economic and societal benefits that accrue from both adopting HPWPs and participating more fully in civic life, as well as to facilitate these actions among firms and individuals, respectively. Opportunity 2 under this dimension describes how Southeast Asian countries can make intensive use of skills in work and society (Table 1.6).

Table 1.6. Opportunity 2: Making intensive use of skills in work and society

Policy directions	High-level recommendations
Promoting skills use in the workplace through the greater adoption of high-performance workplace practices	2.6. Create a single portal in each country to efficiently disseminate comprehensive information on high-performance workplace practices to firms, especially SMEs 2.7. Improve the managerial skills in SMEs by providing networking and mentoring opportunities
Promoting skills use in everyday life through civic engagement and leisure activities	2.8. Make volunteering activities available as part of the school curricula to encourage young people to contribute their skills to society from an early age 2.9. Raise awareness about the benefits of using skills in society and personal life 2.10. Provide financial incentives to encourage adults to use skills in civil society.

Opportunity 3: Increasing demand for higher-level skills

Promoting the development and use of higher-level skills is central to the ability of Southeast Asian countries to create more innovative products and services that will help them move up GVCs and boost economic competitiveness (OECD, 2019^[7]). In recent years, there has been increasing public and private interest in creating a culture of innovation and entrepreneurship in Southeast Asia. However, there is room to improve funding for innovative and entrepreneurial activities and to foster networks of stakeholders that can exchange best practices and provide mentoring support, especially among disadvantaged groups. Opportunity 3 under this dimension describes how Southeast Asian countries can increase demand for higher-level skills (Table 1.7).

Table 1.7. Opportunity 3: Increasing demand for higher-level skills

Policy directions	High-level recommendations
Promoting innovation to increase demand for high-level skills	2.11. Increase expenditure on research and development through direct grant support and tax incentives 2.12. Foster collaboration between institutions of higher education and industry
Fostering entrepreneurship	2.13. Improve access to finance for female entrepreneurs by providing targeted financial services combined with financial training 2.14. Facilitate the transfer of entrepreneurial knowledge and skills to women by supporting unions for female workers and business associations for women.

Dimension 3: Strengthening the governance of skills systems (Chapter 5 of the full report)

Opportunity 1: Promoting a whole-of-government approach

A whole-of-government approach to skills governance is crucial, given that skills encompass a wide variety of policy domains. The two components of a whole-of-government approach, namely horizontal co-ordination and vertical co-ordination, both contribute to developing a shared understanding of the skills agenda and reducing redundancies in policy implementation (ADB, 2015^[98]; OECD, 2011^[99]; Christensen and Læg Reid, 2007^[100]). In Southeast Asia, various mechanisms have been established to improve co-ordination both horizontally (e.g. through oversight agencies, inter-ministerial bodies and sectoral bodies) and vertically (e.g. formal bodies, working groups and ad hoc meetings), but implementation challenges remain. These include a lack of clarity regarding the specific roles of each actor and inadequate human and financial capacity to implement reforms at subnational levels of government. Opportunity 1 under this dimension describes how Southeast Asian countries can promote a whole-of-government approach (Table 1.8).

Table 1.8. Opportunity 1: Promoting a whole-of-government approach

Policy directions	High-level recommendations
Strengthening horizontal co-ordination	3.1. Support skills-related inter-ministerial governance bodies in their engagement of all relevant ministries 3.2. Promote a shared skills goal among relevant ministries through strategic documents, such as national development plans and skills-related policy documents
Strengthening vertical co-ordination	3.3. Support subnational governments in implementing skills policies by providing additional human and financial resources and capacity-building support.

Opportunity 2: Promoting a whole-of-society approach

Promoting a whole-of-society approach to skills governance ensures that policies are relevant to labour market needs and adequately reflect the interests of a wide variety of stakeholders, especially disadvantaged groups (OECD, 2019^[7]). Throughout Southeast Asia, there are formal and informal mechanisms for consultation with labour market actors, such as employer organisations and trade unions, as well as with civil society groups that represent informal workers, women, youth and migrants. However, participation in these consultation mechanisms remains low, and a co-ordinated approach to consultations is complicated by actors' varying capacity levels and differing priorities or interests. At the regional level, the role of stakeholder representatives (e.g. ASEAN Confederation of Employers and ASEAN Trade Union Council) in informing skills policies needs to be raised. Opportunity 2 under this dimension describes how Southeast Asian countries can promote a whole-of-society approach (Table 1.9).

Table 1.9. Opportunity 2: Promoting a whole-of-society approach

Policy directions	High-level recommendations
Identifying and engaging relevant labour market actors	3.4. Establish legal frameworks to strengthen engagement with actors in the labour market 3.5. Strengthen the effectiveness of governance bodies engaging labour market actors

Policy directions	High-level recommendations
Identifying and engaging relevant civil society actors	3.6. Provide financial, technical and networking resources to facilitate the participation of women, as well as the organisations that represent them, in governance
	3.7. Strengthen youth's input in official governance bodies and development of youth strategies
	3.8. Support migrant organisations' active participation in governance bodies and influence in skills policies.

Opportunity 3: Building integrated information systems

Building integrated information systems is central to gathering evidence that could be used to improve the relevance and effectiveness of skills policies. However, doing so is a complex process that involves multiple components, namely data collection, management and use, and requires effective co-ordination between relevant government agencies (OECD, 2019^[7]). Some Southeast Asian countries have pursued efforts to improve their stock of skills data by increasing participation in international student assessment exercises and adopting national data strategies. However, the ability to collect, manage and use skills data varies widely across Southeast Asian countries. Common challenges still exist, namely limited technical and financial resources to routinely collect and process data on a comprehensive list of skills indicators, as well as the lack of a robust infrastructure to manage and use large amounts of data. Regional co-operation should be further enhanced to build capacity in collecting skills data that is consistent and compatible across Southeast Asian countries and can be used for regional skills analysis (e.g. skills assessment and anticipation exercises). Opportunity 3 under this dimension describes how Southeast Asian countries can build integrated information systems (Table 1.10).

Table 1.10. Opportunity 3: Building integrated information systems

Policy directions	High-level recommendations
Improving data collection	3.9. Implement robust national data collection processes to address data gaps
	3.10. Support participation in international surveys to generate internationally comparable data
Improving the management and use of skills data	3.11. Establish the institutional and legal groundwork for integrating data management systems
	3.12. Regularly conduct skills assessment and anticipation exercises to design and update skills policies.

Opportunity 4: Aligning and co-ordinating financial arrangements

Diversified financial resources and equitable mechanisms for allocation are needed to support the sustainability of skills governance systems. A diverse set of financial sources is needed to pool funding for skills development, especially in resource-constrained countries. Equitable funding formulas could help maximise a limited amount of resources (Fazekas, 2012^[101]; OECD, 2017^[76]). In Southeast Asia, initiatives are underway to augment the resources of governments and households by encouraging employers to contribute funding through levies. With the decentralisation of education, there is also increased policy attention given to allocating resources more equitably. However, the use of levies and other employer incentives remains relatively limited in most of Southeast Asia, and inadequate technical and administrative capacities, especially at lower levels of governance, limit countries' ability to track and evaluate how well allocation arrangements are working. Opportunity 4 describes how Southeast Asian countries can align and co-ordinate financial arrangements (Table 1.11).

Table 1.11. Opportunity 4: Aligning and co-ordinating financial arrangements

Policy directions	High-level recommendations
Diversifying financial resources	3.13. Promote the use of levies among employers to encourage skills development and mobilise financial resources for training
Allocating financial resources equitably and effectively	3.14. Design a funding formula that allocates adequate financial resources to disadvantaged learners
	3.15. Establish strong monitoring and evaluation systems to ensure the effectiveness of allocation arrangements.

Annex 1.A. The OECD Skills Strategy Dashboard for Southeast Asia

This annex presents the OECD Skills Strategy Dashboard for Southeast Asia. Its objective is to present an overview of the performance of skills systems in Southeast Asia. It is the starting point for analysis and allows the OECD to identify the priority skills policy themes. Presenting the relative position of countries on key skills outcomes, the dashboard provides a general overview of the strengths and weaknesses of a given country's skills system. This annex describes the characteristics, presents the indicators and describes the underlying methods for calculating the indicators.

Characteristics

The dashboard is the result of internal consultation and analysis, drawing from the original dashboard produced for the 2019 OECD Skills Strategy. It presents a simple, intuitive overview of the outcomes of skills systems that is easy to interpret, and which provides a quick impression of a country's skills performance across the pillars of the OECD Skills Strategy ("developing relevant skills over the life course", "using skills effectively in work and society" and "strengthening the governance of the skills system"). The dashboard applies a broad definition of skills by presenting foundational skills, problem-solving skills, and broadness of skill sets, and considers both economic and social outcomes. A total of 31 key outcome indicators were selected and grouped into 21 aggregated indicators. All ASEAN countries have been included. Two OECD countries in Asia (Japan and Korea) and three OECD countries outside the Asian region (Australia, Germany and the United States) have been included for benchmarking purposes. However, given that some countries have no data for specific indicators, there are some gaps across the dashboard. The ranking of ASEAN countries is relative to other ASEAN countries and the five benchmarking OECD countries.

Indicator selection

Where data were available, indicators used in the 2019 OECD Skills Strategy were also used in this Southeast Asia Skills Strategy dashboard. Where data were not available for ASEAN countries, indicators were replaced with equivalent for which data are available. Indicators of level, trend and equity of performance are included for the first two dimensions ("developing relevant skills over the life course" and "using skills effectively in work and society"). A new set of indicators for "strengthening the governance of the skills system" was developed for this dashboard.

The indicators are mostly based on the OECD, International Labour Organization (ILO), World Bank and United Nations Educational, Scientific and Cultural Organization (UNESCO) sources, using the most recent data available. Four additional sources are employed for specific indicators, mostly related to the second and third pillars of the OECD Skills Strategy ("using skills effectively in work and society" and "governance of the skills system"). Those are the Bertelsmann Transformation Index (BTI) 2020, the World Justice Project, the Global Competitiveness report and the Global Innovation Index.

Method for the calculation of aggregate indicators

To develop aggregate indicators that represent the relative position of countries on key outcomes of the skills system, several calculations were made on the collected data. To describe the relative position across countries, a score for each indicator was calculated ranging from zero to ten, with zero for the weakest performance and ten for the strongest performance in the list. This resulted in an indicator that allows for comparisons between different types of indicators (e.g. averaging performance of literacy scores and educational attainment rates). The resulting scores were normalised in such a way that better performance results in a higher score. Subsequently, an unweighted average of the indicators was calculated for each of the aggregates, and these scores were then ranked. The final ranking was separated into five groups of equal size, ranging from “Top 20% performer” to “Bottom 20% performer”. A full list of included indicators is presented in Annex Table 1.A.1.

Annex Table 1.A.1. The OECD Skills Strategy Dashboard: Dimensions, indicators, and sources

Pillar and aggregates	Indicator	Source
Developing relevant skills over the life course		
How accessible is basic education?	Pre-primary gross enrolment rate, 2020, or latest available year	UNESCO, UIS Database
	Primary gross enrolment rate, 2020, or latest available year	UNESCO, UIS Database
	Secondary gross enrolment rate, 2020, or latest available year	UNESCO, UIS Database
Are primary students remaining in education without dropping out?	Out-of-school rate in primary education, 2020 or latest available year	UNESCO, UIS Database
How skilled are youth?	Reading (PISA), ¹ mean score, 2018	OECD, PISA Database ²
	Mathematics (PISA), mean score, 2018	OECD, PISA Database ²
	Science (PISA), mean score, 2018	OECD, PISA Database ²
Are skills of youth being developed inclusively?	Percentage of variance in reading performance explained by ESCS, 2018	OECD, PISA Database
Do students have access to guidance to make informed study and career decisions?	Percentage of students in advantaged schools that provide career guidance, 2018	OECD, PISA Database
	Percentage of students in disadvantaged schools that provide career guidance, 2018	OECD, PISA Database
How accessible is tertiary education?	Tertiary gross enrolment rate, 2020	UNESCO, UIS Database
How well aligned are the developed skills with the labour market?	Share of workers that are under-qualified and over-qualified for their job, 2016 or latest available year	OECD Database, computation based on Survey of Adult Skills (PIAAC) (2012, 2015), Thailand LFS, Australian Survey of Education and Work, Skills for Jobs database
Is there a strong culture of adult education?	Percentage of firms offering formal training, 2020 or latest available year	World Bank Enterprise Survey
Using skills effectively in work and society		
How well are skills activated in the labour market?	Employment-to-population ratio, working age (15+), ILO modelled estimates, 2021	ILO, ILOSTAT
	Youth not in employment, education or training (NEET), % of 15-24 year-olds, 2020	ILO, ILOSTAT
Is the participation of individuals in the labour market improving?	Employment-to-population ratio, 15+ years old, ILO modelled estimates, 5-year p.p. change, 2017 to 2021	ILO, ILOSTAT
	Youth not in education, employment or training (NEET), 15-24 year-olds, 5-year p.p. change, 2017 to 2021	ILO, ILOSTAT
How inclusive is the labour market?	Gender (m-f), employment rate difference, ILO modelled estimates, 2021 or latest available year	ILO, ILOSTAT
	Employment rate of immigrants (%), 2021 or latest available year	ILO, ILOSTAT
How prevalent is informal employment?	Informal employment as a share of employment (%), 2021	ILO, ILOSTAT
How well are individuals participating in society?	Civic engagement index, 2017	World Gallup Poll

Pillar and aggregates	Indicator	Source
How much are information-processing skills used?	Information-processing skills used at work, 2012, 2015	OECD, Survey of Adult Skills ² (PIAAC)
How much are basic digital skills used?	Individuals using the Internet, total population (%), 2020 or latest available year	World Bank Database
How intensively do firms rely on practices that foster skills usage in the workplace?	Reliance on professional management, 2018	World Economic Forum, Global Competitiveness Index
Is skills use stimulated by innovation?	Global Innovation Index, 2022	Cornell University, INSEAD and WIPO
Strengthening the governance of the skills system		
To what extent are conditions for co-ordination across government present?	Policy co-ordination across government, 2022	Bertelsmann Stiftung, BTI
To what extent are conditions for stakeholder engagement present?	Civil society traditions, 2022	Bertelsmann Stiftung, BTI
	Civil society participation, 2022	Bertelsmann Stiftung, BTI
To what extent are conditions for information accessibility present?	Publicised laws and government data, 2021	World Justice Project, Rule of Law Index
	Right to information, 2021	World Justice Project, Rule of Law Index
To what extent are resources effectively invested in skills development?	Efficiency of government spending, 2018	World Economic Forum, Global Competitiveness Index

Note: Indicators without a specific source between brackets are OECD indicators from OECD Data (<https://data.oecd.org/home/>).

1. Programme for International Student Assessment (PISA).

2. Survey of Adult Skills, a product of the Programme for the International Assessment of Adult Competencies (PIAAC).

Acronyms and abbreviations used in this table: ESCS: Economic, social and cultural status; “5-year p.p. change” refers to 5-year percentage points change; UIS: UNESCO Institute for Statistics; LFS: Labour Force Survey; ILO: International Labour Organization; INSEAD: Institut européen d’administration des affaires; WIPO: World Intellectual Property Organization; BTI: Bertelsmann Transformation Index.

Annex 1.B. Overview of recommendations

Dimension 1: Developing relevant skills over the life course (Chapter 3 of the full report)

Opportunity 1: Broadening access to skills development

Annex Table 1.B.1. Opportunity 1: Broadening access to skills development

Policy directions	High-level recommendations
Improving access to early childhood education and care and compulsory education for disadvantaged groups	<p>1.1. Establish strong monitoring systems to detect children who have failed to enter the education system, as well as those who are at risk of dropping out. Regularly collect school level data on various individual characteristics that are associated with lack of access and dropouts, such as sex, age, socio-economic background (e.g. parental occupation) and location, among others, to identify children who are at risk of not entering education and leaving education early. Co ordinate with relevant ministries and government agencies, as well as other stakeholders, to gather as much administrative data on these risk factors as possible, especially in countries where data capacity may be limited, to identify areas where potential intervention might be needed. Ensure that in-school well-being services are available to support children who are struggling to access education, and put in place additional guidance services (e.g. remedial classes, personalised tutoring) for those who are falling behind in learning. Moreover, create opportunities to meet with parents to discuss home situations and how they may impact children's schooling, and offer alternative and flexible learning pathways for children in difficult socio-economic situations to facilitate entry into school as well as completion.</p> <p>1.2. Support provision of learning materials parents can use at home. Offer students from disadvantaged families financial assistance, such as vouchers or income support, specifically earmarked for purchasing books, toys and other playthings. Ensure that such learning materials are available at every level of education and that parents may easily access such financial assistance measures (e.g. through an online portal). Offer targeted policy options to low-income households by raising awareness about such initiatives and how they may be easily accessed. Moreover, promote private-sector and civil-society-led initiatives that sell learning materials, such as books, at more affordable prices and bring them closer to children and their families through community and school-based measures, such as family reading events or book fairs.</p> <p>1.3. Strengthen digital infrastructure, digital education platforms, and digital literacy to broaden access to skills development opportunities, especially among disadvantaged groups and during times of disruption. Invest in infrastructure for Internet connectivity and the distribution of digital learning devices (e.g. digital blackboards, laptops, tablets), especially among disadvantaged learners, such as those from low-income households or rural areas. Additionally, invest in digital education platforms to facilitate the implementation of blended learning strategies that could help ensure the continuity of learning in the face of global disruptions, such as the COVID 19 pandemic. Ensure that investments in digital infrastructure are coupled with initiatives to increase digital literacy among students and teachers, such as providing digital upskilling opportunities and making online resources readily available and accessible.</p>
Promoting access to skills development after compulsory education	<p>1.4 Adopt a comprehensive policy strategy to address both supply- and demand-side barriers to technical and vocational education and training participation. On the supply side, encourage the provision of work-based learning opportunities by employers through providing a wide range of financial incentives that subsidise the cost of provision, as well as opportunities for strengthening TVET institutions-industry partnerships (see Opportunity 3). Moreover, pay close policy attention to smaller firms who have less capacity by providing them with resources on pedagogical skills to facilitate their provision of work-based learning opportunities, such as internships and apprenticeships. On the demand side, provide financial support options to learners from low-income households in the form of monthly stipends or affordable loans to reduce financial barriers to participation. Additionally, conduct public awareness campaigns about the new progression opportunities in TVET, including accessing tertiary education, and the types of professional development offers available to graduates.</p> <p>1.5 Facilitate access to tertiary education by reducing the most significant financial barriers, both in terms of tuition fees and the cost of learning materials. Adopt a multi-pronged approach to alleviating the costs of tertiary education for disadvantaged groups and make use of a combination of affordable tuition policies and financial aid programmes, such as needs-based grants and income-contingent loans that consider factors such as household income and location. Ensure that such financial instruments are easily accessible and financially viable for students coming from low-income households. Moreover, help students cover the cost of learning materials by providing subsidies or loans when purchasing textbooks, digital learning devices, Internet connection subscriptions and other materials they may need to finish their schooling.</p>

Policy directions	High-level recommendations
	<p>1.6 Create a comprehensive national adult learning strategy that targets disadvantaged groups and facilitates their participation. Establish a comprehensive national adult learning strategy with all relevant actors (e.g. ministries, levels of government and stakeholders) to identify priorities, goals and actions. Actions should specifically target disadvantaged groups that often have lower adult learning participation rates, such as the unemployed, low-skilled workers, older adults and workers in the informal economy. The strategy should raise awareness among the public about the benefits of adult learning, promote affordable and easy-to-access skills development offers, and disseminate information about adult learning opportunities (e.g. an online portal that consolidates various training offers). The adult learning strategy should also have measures that provide financial and logistical support for potential learners, so that they can attend programmes. Data on adult learning provision and participation, as well as on the outcomes of adult learning programmes, should be collected and consolidated in an integrated data base to inform adult learning policy and programme design and implementation.</p>

Opportunity 2: Increasing excellence and equity in skills development

Annex Table 1.B.2. Opportunity 2: Increasing excellence and equity in skills development

Policy directions	High-level recommendations
Improving the quality of human resources in schools	<p>1.7. Invest in professional development opportunities for teachers to equip them with better pedagogical skills. Provide schools with resources to train teachers in differentiated instructional techniques that would help them better respond to the diverse needs of learners and manage large classroom sizes (e.g. peer-learning techniques, differentiated instruction). Ensure that digital literacy training opportunities are also available to equip teachers with the skills they need to use ICT in the classroom. It is possible to offer such upskilling opportunities outside of schools through external training institutes that provide free or subsidised course offerings that teachers could easily access and provide incentives to encourage increased uptake. Moreover, make sure that counselling support services are available to ensure the well-being of teachers and school staff, especially during times of disruptions and abrupt changes, to help them cope with increased challenges in the classroom.</p> <p>1.8. Consult regularly with school leaders about their various needs in terms of resources and upskilling. In line with increased responsibilities for school administration and budget management, provide opportunities for school leaders to upskill in terms of financial management, strategic thinking, instructional leadership and stakeholder engagement, and other skills that would allow them to carry out their roles effectively. Provide concrete avenues (e.g. statutory consultation processes) for government officials to regularly consult with school leaders and identify the kinds of support that could be provided through national and local policies, such as increased funding for classroom facilities and educational materials. Ensure that such consultations with school leaders reflect the broader interests of the school community by setting up formal consultation mechanisms between them and the school staff, allowing school leaders to transmit detailed information on the various administrative needs of schools.</p>
Strengthening funding and student assessment in schools to improve equity	<p>1.9. Improve the financial management skills of school leaders and personnel. Accompany the administration of school grants and other educational funding with training opportunities that equip school leaders and personnel with improved skills in various aspects of financial management in schools, such as budget preparation, budget execution, accounting and monitoring, and reporting. Make resources (e.g. handbooks on financial management) on these topics easily accessible to school personnel, such as through distributing physical materials to schools or through a consolidated and user-friendly online portal. Ensure that these resources are updated often and that they are specifically adapted to the various funding strategies used by national governments to allocate funding to sub-governments or schools.</p> <p>1.10. Establish avenues for relevant stakeholders to collaborate on improving student assessment systems. To effectively improve the administration of student assessments and use their results, provide fora for stakeholders from the school system, such as teachers and school leaders, to openly discuss difficulties they face with the administration of tests and the processing of data, including lack of security, insufficient technical capacity to interpret results, or inadequate infrastructure, and jointly agree on concrete steps on how to address these challenges. Provide opportunities for policy makers to meet with researchers and analysts and interpret results from student assessment exercises, as well as for local school representatives to provide in-depth insights into classroom-level challenges that may help explain these results. Furthermore, regularly examine the ability of student assessment exercises to provide credible insight into the needs of students and schools, as well as their relevance to national educational objectives. At the regional level, the sharing of best practices in designing, implementing and using student assessments could also be expanded.</p>

Opportunity 3: Developing skills that matter

Annex Table 1.B.3. Opportunity 3: Developing skills that matter

Policy directions	High-level recommendations
<p>Improving the alignment between skills development offers and labour market demand</p>	<p>1.11. Increase the involvement of relevant government agencies and industry partners in reviewing the curricula of skills development offers in technical and vocational education and training and tertiary education. Conduct regular and systematic reviews of emerging skilling needs and establish mechanisms to involve industry representatives (e.g. programme advisory committees) in the design (e.g. of curricula), delivery (e.g. of work-based learning) and certification of educational opportunities. With these industry experts, identify current and future trends in technologies, emerging occupations over a specified period, the specific skills and knowledge needed to effectively carry out these occupations and shortages in the current supply of skills being developed in the educational system (e.g. indicators on graduation rates in relevant programmes identified in the review) (see also Chapter 5 of the full report). Provide incentives, such as tax exemptions, to TVET providers and employers that offer work-based learning opportunities that are in line with the needs of the labour market, as well as to tertiary education institutions that offer programmes or courses in areas of skills shortage.</p> <p>1.12. Increase the provision of on-the-job training opportunities, especially among workers in smaller firms and in the informal economy. Continue support for the establishment of private-sector-led initiatives that expand the provision of training opportunities for SMEs, such as the provision of free, easily accessible and industry-relevant course offerings (e.g. ASEAN SME Academy). Explore the use of different policy options to ease the financial burden of employee training on SMEs, such as the adoption of tax-based exemptions that allow the state to offset the costs of training (whether fully or partially), as well as the provision of training vouchers that employees could use to pursue skills development offers in training institutions pre-selected and quality assured by the government. Moreover, expand the mandate of vocational training institutions to include the provision of education to workers in the informal economy, such as offering affordable or free course offerings with low admission requirements (e.g. making completion of primary school optional). More importantly, provide ways for workers in the informal economy to certify skills that were developed informally to recognise the value of their competencies and boost their transition into formal labour markets.</p>
<p>Steering skills development choices towards labour market needs</p>	<p>1.13. Provide regular training to guidance counsellors and make updated labour market data more accessible to inform their work. Offer training programmes to career guidance professionals who work in schools and companies, where they could be provided with information on the latest employment trends and labour market developments. Such information could also be made available by establishing online portals that consolidate labour market information and make it easier for guidance counsellors to access and use updated data in their work. In schools where the supply of guidance counsellors is low, teachers could be given additional training on how to provide career counselling and information on how to access and use public employment services, which they could impart to their students.</p> <p>1.14. Expand financial incentives for individuals and institutions to encourage the uptake of skills development in strategic industries, especially among disadvantaged groups. Provide financial incentives, such as performance-based funding, targeted towards institutions universities, TVET institutions and other training providers that would incentivise them to develop programmes or course offerings that address skills shortage areas. Performance-based funding may be based on the ability of institutions to achieve key labour market objectives (e.g. number of graduates in key economic sectors). Furthermore, provide a wide range of financial incentives, such as subsidies (e.g. scholarships), tax incentives, loans, time accounts and training/study leave, targeted towards individuals in educational programmes related to economic sectors that are identified as a priority in the country's national development plan or strategy, or in sectors where there is a shortage of workers. Allot slots in the provision of such financial incentives for individuals from disadvantaged groups, such as women, to facilitate their participation, helping make skills development systems more equitable.</p>

Dimension 2: Using skills effectively in work and society (Chapter 4 of the full report)

Opportunity 1: Promoting participation in the formal labour market

Annex Table 1.B.4. Opportunity 1: Promoting participation in the labour market

Policy directions	High-level recommendations
<p>Reducing barriers to employment for disadvantaged groups</p>	<p>2.1. Facilitate women’s participation in the labour market through the promotion of a more equitable distribution of housework and encouraging flexible work arrangements. Governments should promote a more equitable distribution of housework to ensure women have the time and energy to participate more fully in the formal labour market. Social campaigns and awareness-raising training should be provided to change perceptions about gender roles and overcome prejudices against female participation in the formal labour market. Furthermore, governments should promote flexible work arrangements, such as flexible working hours, part-time work and remote working, to encourage and facilitate the participation of women in the formal labour market. This can be done, for example, by reviewing and adjusting regulatory and legal frameworks where necessary to ensure that they do not discourage flexible forms of employment, including part-time work, through excessive restrictions. Governments could also provide incentives to SMEs (e.g. tax breaks, subsidies, grants) to adopt the infrastructure (e.g. work laptops, software, Internet connections) and flexible working practices needed to allow employees to work from home.</p> <p>2.2. Support youth employment through tailored and online employment services. Employment service providers across Southeast Asian countries should use digital solutions to improve the tailoring of employment services for youth. Digital solutions, such as AI and advanced algorithms, leverage big data to identify the specific skills profile of job seekers among youth, compare them with all available job vacancies in real-time and find the best possible match. Based on the proposed matches tailored to each youth job seeker, the employment service providers can prioritise and decide which kinds of support (e.g. re-skilling training solutions, job application support, employment incentives) would best match clients’ needs to increase their employment chances. Furthermore, since youth are typically more used to online solutions than older adults, online employment services could be particularly well-suited to reach and engage youth. Typical employment services that could also be provided on line include career guidance, mental counselling, support with preparing resumes and CVs, mock interviews, skills profiling and training, among others. Employment service providers can use a range of online communication tools, portals, platforms, apps and texting to interact with youth.</p> <p>2.3. Enhance migrant employment possibilities through job search support, legal counselling and language training from specialised institutions for migrants. Southeast Asian countries should create and expand specialised institutions, such as the MRCs, to support migrant workers in finding employment. Such institutions provide migrants with relevant employment information to support job searches, legal counselling and language training. Furthermore, such institutions could support employers with any administrative procedures needed to hire migrants. In addition, awareness about the services from such migrant-specialised institutions should be raised by reaching out to migrants through migrant civil society organisations that can communicate with migrants in their own languages, and which may already also provide other complementary services, such as food and shelter. Finally, given the large intra-regional migration flow, regional co-operation in migration policies should be strengthened to improve cross-border recruitment and integration services.</p>
<p>Facilitating the transition of workers from the informal to the formal labour market</p>	<p>2.4. Facilitate the registration of workers and businesses by making online business registration platforms more user-friendly and simplifying registration procedures. Governments should improve online registration platforms to make navigating and uploading necessary documents easier. In addition, alternative channels should be provided to register (i.e. websites, mobile applications, one-stop-shops for SMEs) so that people can use the channel most convenient for them. Governments should also eliminate unnecessary or repetitive administrative steps and streamline registration procedures to reduce the time needed to process and confirm registration.</p> <p>2.5. Improve the effectiveness and efficiency of labour inspection by adopting new technologies to ease the verification of workers’ employment status. Governments should adopt digital tools that facilitate labour inspection to strengthen the enforcement of laws and labour regulations. This could be done, for example, by providing inspectors with tablets linked to employment and tax databases. Such technologies can help inspectors to more easily verify whether businesses and workers are registered and are working formally during field inspections. In addition, with the same labour inspection technology provide the option for inspectors to immediately report employers who are committing infractions (e.g. unregistered workers, failure to pay taxes) and pursue the appropriate penalties and interventions.</p>

Opportunity 2: Making intensive use of skills in work and society

Annex Table 1.B.5. Opportunity 2: Making intensive use of skills in work and society

Policy directions	High-level recommendations
Promoting skills use in the workplace through the greater adoption of high-performance workplace practices	<p>2.6. Create a single portal in each country to efficiently disseminate comprehensive information on high-performance workplace practices to firms, especially SMEs. Governments should centralise the currently fragmented provision of information on HPWPs for firms in a single portal. The portal should inform, guide and support firms to benchmark their performance and locate relevant support programmes. This could include, for example, making diagnostic tools available to businesses to support them in identifying their business needs, challenges and opportunities. The information provided on the portal should be made available in a business-friendly manner, for example, by sharing concise information on good practice and success stories. To help firms navigate the portal, simple guides on how to implement specific HPWPs would be helpful. The portal could be part of a broader campaign to raise awareness about the benefits of adopting HPWPs for businesses.</p> <p>2.7. Improve the managerial skills in SMEs by providing networking and mentoring opportunities. Governments should encourage and support network and mentoring opportunities to facilitate sharing of good managerial practices and lessons between SMEs and larger firms. Such networking and mentoring opportunities for SMEs could be formalised through the formation of consortiums as well as be financially supported. Furthermore, to provide quality and relevant mentorship experiences, mentors for SMEs should be provided with diverse training offers that equip them with the tools and techniques they need to guide their mentees effectively.</p>
Promoting skills use in everyday life through civic engagement and leisure activities	<p>2.8. Make volunteering activities available as part of the school curricula to encourage young people to contribute their skills to society from an early age. Schools can promote a civic engagement culture by facilitating community volunteering opportunities and organising discussions on political and social issues. Ministries could also consider awarding grants to schools to support students' participation in national or overseas community service.</p> <p>2.9. Raise awareness about the benefits of using skills in society and personal life. Build awareness about the benefits of active and engaged citizenship and leisure activities from a young age. Governments should introduce promotional campaigns to provide information about the benefits of using one's skills in civic and social life and encourage civic engagement and leisure activities, for example, through volunteering, reading and recreational activities. In addition, governments should provide centralised and comprehensive information about civic engagement opportunities and relevant associations to facilitate active participation.</p> <p>2.10. Provide financial incentives to encourage adults to use skills in civil society. Governments could provide subsidies and/or tax deductions to encourage participation in community and voluntary organisations. Subsidies can cover the cost of individual membership in such community and voluntary organisations. Governments could also introduce tax deductions or credits for participation in community and volunteer organisations. These schemes would allow individuals to claim the time spent on community and voluntary work against taxes owed. Financial incentives could be targeted at disadvantaged groups, such as the unemployed and people with disabilities, to support their increased engagement and participation in society, prevent their skills from atrophying, and in recognition that they face tighter income constraints. For example, additional benefits or a supplement, in addition to social assistance payments, could be provided to unemployed or inactive people who engage in volunteer activities.</p>

Opportunity 3: Increasing demand for higher-level skills

Annex Table 1.B.6. Opportunity 3: Increasing demand for higher-level skills

Policy directions	High-level recommendations
Promoting innovation to increase demand for high-level skills	<p>2.11. Increase expenditure on research and development through direct grant support and tax incentives. Southeast Asian countries should consider increasing direct grant support and subsidies to support long-term research, especially in areas with particularly high potential spillover benefits. Governments could help increase R&D in areas with high social returns but low prospects for profits, such as green technology and social innovation. They could target their support especially to innovative small and young firms that often have difficulty securing financing for R&D. Governments should also consider providing and increasing indirect financial support to encourage R&D activities. For example, they could offer and increase credits against income and payroll taxes for expenditures on investments for R&D.</p>

Policy directions	High-level recommendations
	<p>2.12. Foster collaboration between institutions of higher education and industry. Southeast Asian countries should facilitate co-operation and networking between higher education and firms. Governments should support the development of networks of intermediary organisations and platforms, such as R&D centres, innovation agencies, technology transfer offices and business incubators, to facilitate knowledge transfer between higher education and industry. They could be established as autonomous agencies or units within a specific university. Such organisations should interact with each other on a regular basis to promote knowledge “co-creation” involving multiple stakeholders from industry, research institutions and government.</p>
Fostering entrepreneurship	<p>2.13. Improve access to finance for female entrepreneurs by providing targeted financial services combined with financial training. Governments and financial institutions should improve access to loan programmes targeted at women. For example, they could provide guaranteed loans or microfinancing to women entrepreneurs with high growth potential. Such financial programmes could be offered and combined with other services, such as counselling and financial training. To be effective, the application process for such financial services should be adapted to women’s literacy levels to ensure they are easy to understand and apply for.</p> <p>2.14. Facilitate the transfer of entrepreneurial knowledge and skills to women by supporting unions for female workers and business associations for women. Governments should establish and support networks of women’s enterprise centres. These networks could provide business development support to women entrepreneurs and build a women-friendly business environment. In addition, governments could strengthen the role of women entrepreneurs in business and industry associations by encouraging chambers of commerce and SME associations to establish businesswomen committees or women entrepreneur working groups.</p>

Dimension 3: Strengthening the governance of skills systems (Chapter 5 of the full report)

Opportunity 1: Promoting a whole-of-government approach

Annex Table 1.B.7. Opportunity 1: Promoting a whole-of-government approach

Policy directions	High-level recommendations
Strengthening horizontal co-ordination	<p>3.1. Support skills-related inter-ministerial governance bodies in their engagement of all relevant ministries. The mandates, scope and composition of bodies should be clarified and co-ordinated relative to each other to minimise unnecessary overlap, confusion and ineffective co-ordination. Each body should have clear terms of reference specifying the roles and responsibilities. These terms should be based on the specific body’s mandate, capacity and expertise. To raise the effectiveness of and ensure continuity between governance body meetings, members of the body could form smaller working groups on specific issues, brief new members, discuss relevant issues in advance, prepare input for the main meetings, document the outcomes of the meetings and follow up on specific decisions. Each body should have sufficient financial and human resources so that all related administrative tasks and logistical arrangements of the governance bodies can be covered.</p> <p>3.2. Promote a shared skills goal among relevant ministries through strategic documents, such as national development plans and skills-related policy documents. Strategic documents should provide an overarching vision for skills outcomes that all relevant ministries share and can contribute to. The strategic documents should require relevant ministries to co-ordinate with one another in implementing skills policies. The process of developing these strategic documents should include all relevant ministries from their inception, throughout their development and implementation, as well as their evaluation. When relevant ministries are fully engaged and have sufficient opportunities to provide input and contribute, they have greater ownership of the final document and hence greater commitment to implementing the tasks laid out in the document. These engagement efforts are particularly important when one ministry is leading the drafting process of the plan.</p>
Strengthening vertical co-ordination	<p>3.3. Support subnational governments in implementing skills policies by providing additional human and financial resources and capacity-building support. Through these various mechanisms, best practices and insights can be shared vertically between subnational and national governments and horizontally across subnational governments. The co-ordination mechanisms should clearly define the respective roles and responsibilities of national and subnational actors and ensure that the allocation of resources matches the responsibilities assigned to subnational governments. When there are capacity constraints in subnational governments, additional human and financial resources should be provided to them, so that they can effectively engage in these mechanisms and follow through with any decisions made through them. Subnational governments could also benefit from their participation in international forums such as the UCLG, which hosts a learning platform to increase the capacity of subnational governments.</p>

Opportunity 2: Promoting a whole-of-society approach

Annex Table 1.B.8. Opportunity 2: Promoting a whole-of-society approach

Policy directions	High-level recommendations
Identifying and engaging relevant labour market actors	<p>3.4. Establish legal frameworks to strengthen engagement with actors in the labour market. Since many countries in Southeast Asia do not have national legislation in place to formally recognise the importance of employers' organisations and trade unions and guide their corresponding roles in skills policies, adopting reforms to address this gap is crucial to building effective long-term partnerships between governments, workers, trade unions and employers in skills policies. A starting point could be to facilitate recognition agreements, which are formal legal frameworks between employers and trade unions, and which would lay the foundation for consultations and negotiations on a variety of skills issues. Legal frameworks should also clearly define the respective roles and responsibilities of employers and workers in skills policies to facilitate identifying areas for collaboration and developing partnerships.</p> <p>3.5. Strengthen the effectiveness of governance bodies engaging labour market actors. Governance bodies should allow labour markets to provide input into the agenda of governance meetings and promote bottom-up initiatives. While having too many actors involved can make it difficult to have real deliberations during meetings, it is important to ensure that economically less influential groups, such as the large number of informal and temporary workers across Southeast Asian countries, also have a seat at a table. Governance bodies require a sufficiently high level of political support and enough financial resources, so that the decisions made by the bodies are carried out in practice. A well-functioning secretariat should prepare the governance bodies' meetings, document the meetings' main outcomes, and implement and monitor the actions. Labour market actors should also be actively engaged in skills policies through their representations at the regional level (e.g. ASEAN Confederation of Employers and ASEAN Trade Union Council) and the international level (e.g. International Organisation of Employers and International Trade Union Confederation).</p>
Identifying and engaging relevant civil society actors	<p>3.6. Provide financial, technical and networking resources to facilitate the participation of women, as well as the organisations that represent them, in governance. Increase women's participation across all levels of government through comprehensive measures, such as mentoring schemes, media training and financial support to campaigns. These measures can help build the capacity, networks and resources to help women run for political office and engage in policy dialogue at subnational and national levels. Quotas for ensuring a minimum level of women's representation across levels of government in elected and non-elected positions should also be considered. However, such quotas need accountability and monitoring mechanisms to ensure their implementation. Furthermore, to facilitate the participation of women's organisations and professional associations in policy dialogue, encourage them to form a national umbrella organisation that could help overcome fragmentation issues and more effectively represent women's concerns in skills-related issues at the national and international level.</p> <p>3.7. Strengthen youth's input in official governance bodies and development of youth strategies. Provide national youth organisations seats in official governance bodies, so that youth can directly provide their perspectives on and influence skills policies. Their input should be used to enhance the relevance and responsiveness of skills policies to their specific needs. For countries without a youth strategy or with a dated youth strategy, it would be beneficial to develop a new youth strategy given the recent challenges youth faced due to COVID-19 and the uncertain future they face post-COVID. During the development, implementation and monitoring of a youth strategy, it would be critical to include youth representatives throughout, so that they can propose their own ideas and provide input into the actions featured in the strategy.</p> <p>3.8. Support migrant organisations' active participation in governance bodies and influence in skills policies. Since the needs of migrants may vary depending on their home country, context of migration and background (e.g. legal status, education level), it could be relevant to engage multiple migration organisations in governance bodies. In such bodies, meetings with diverse migrant organisations should occur regularly, so that they can provide ongoing input into skills policies. Governments could also collaborate with migrant organisations in determining the types of services migrants need and providing those together. Initiatives, such as MRCs, which are delivered through partnerships between government institutions, trade unions and migrant organisations in countries of origin and destination to support migrants and advocate for them, should be expanded in Southeast Asian countries where they do not yet exist. Migrant organisations should play an important role in monitoring their host countries' compliance with regional policy frameworks, such as the ASEAN Declaration on the Protection and Promotion of the Rights of Migrant Workers, and pressure governments to raise workplace standards for migrant workers.</p>

Opportunity 3: Building integrated information systems

Annex Table 1.B.9. Opportunity 3: Building integrated information systems

Policy directions	High-level recommendations
Improving data collection	<p>3.9. Implement robust national data collection processes to address data gaps. Southeast Asian countries should prioritise filling data gaps, including, for example, for specific vulnerable groups (e.g. out-of-school children, migrants, individuals with disabilities, individuals living in rural and remote areas, individuals active in the informal economy) for certain forms of learning (e.g. adult learning, non-formal learning), as well certain skills aspects (e.g. skills use at work). To strengthen the capacity of national statistical agencies to effectively co-ordinate with other data-collecting agencies and ensure that data are comprehensive, consistent, valid and compatible following standardised definitions, they should be provided with sufficient funding and capacity development opportunities (e.g. through peer learning within and outside the region).</p> <p>3.10. Support participation in international surveys to generate internationally comparable data. Southeast Asian countries should continue to seek and receive technical assistance and support to participate in international surveys. The existing forums in ASEAN, such as the ASEAN Community Statistical System Committee, should foster exchanges across ASEAN member countries in their experiences, including the challenges and benefits, of participating in international surveys. Best practices of how to overcome participation challenges and reap the most benefits from participation should be shared. Southeast Asian countries should also play an active role in working with international survey administrators to sufficiently adapt the instruments to their context.</p>
Improving the management and use of skills data	<p>3.11. Establish the institutional and legal groundwork for integrating data management systems. Countries in Southeast Asia can kick off their integration processes by formulating strategies and policies that identify relevant data sources at the national, subnational and school levels. Afterwards, it is important to establish data-sharing agreements between these different sources to facilitate data transfer from one actor to another. Such data-sharing practices must align with countries' data protection provisions, especially for information that may be deemed sensitive and private, such as academic performance, qualifications and wages. Governments must deliberate on what raw data on skills could be accessed by the public through agencies' statistical portals and what information must be restricted due to data privacy concerns. Countries in the region must directly address such issues in their data strategies and legislation and set clear guidelines on how government agencies process personal data and use them as evidence for skills policies.</p> <p>3.12. Regularly conduct skills assessment and anticipation exercises to design and update skills policies. Governments must support the collection of comprehensive and up-to-date skills data sources and the management of such data sources in an integrated skills information system in order to make robust skills assessment and anticipation exercises possible. Sufficient funding and human resources should be dedicated for such exercises. Bilateral partnerships (e.g. development agency) and multilateral partnerships (e.g. ASEAN) can support the development and implementation of such exercises. Best practices and lessons learned from using such exercises for skills policy making should be disseminated across Southeast Asian countries.</p>

Opportunity 4: Aligning and co-ordinating financial arrangements

Annex Table 1.B.10. Opportunity 4: Aligning and co-ordinating financial arrangements

Policy directions	High-level recommendations
Diversifying financial resources	<p>3.13. Promote the use of levies among employers to encourage skills development and mobilise financial resources for training. Engage employers in the design and implementation of levy schemes, consulting them regarding decisions on training priorities and mechanisms for allocating financial resources. Establish compulsory payroll levies at the national level to ensure a steady stream of funds that could be used for skills development offers in line with the identified training priorities at the country level. Design these levy schemes in such a way that allocates additional resources to disadvantaged groups, for instance, by earmarking a greater proportion of levy-financed training funds specifically for workers in SMEs and dedicating a portion to workers in the informal economy. Moreover, on top of national levy schemes, consider establishing levies at the sectoral level in partnership with industry representatives in order to align funding with the immediate needs of employers, enabling a more rapid response to sector-specific labour market demands.</p>

Policy directions	High-level recommendations
Allocating financial resources equitably and effectively	<p>3.14. Design a funding formula that allocates adequate financial resources to disadvantaged learners. In accordance with skills policy priorities, identify target groups of students or schools that most need resources and include their specific characteristics (e.g. gender, socio-economic background, special education needs, ethnic minority status) in the funding formula. Assign greater weights to their characteristics to allocate more funding to these groups. Ensure that such formulas capture the different per-student costs of various types of learners and that the resulting educational budgets account for individual characteristics that compound on each other (e.g. greater allocation for students with disabilities in rural schools in comparison to students without disabilities in the same school).</p> <p>3.15. Establish strong monitoring and evaluation systems to ensure the effectiveness of allocation arrangements. Set up mechanisms for the routine collection of information on expenditure at the school level, such as through the submission of financial reports. Ensure that such reports clearly cover spending on various elements of the entire school system, such as staff compensation, the purchase of learning materials, utility costs and infrastructure maintenance costs, among others. Using the information gathered through continuous monitoring, conduct evaluation exercises that determine whether spending has contributed to improving student outcomes and achieving skills policy objectives in general. This could be done in co-ordination with auditing bodies (whether internal or external), as well as with a wide variety of stakeholders, such as through school boards.</p>

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OECD Skills Studies

OECD Skills Strategy Southeast Asia

SKILLS FOR A POST-COVID RECOVERY AND GROWTH

REPORT SUMMARY

Skills are the key to shaping a better future, enabling countries and people to thrive in an increasingly interconnected and rapidly changing world. Megatrends such as globalisation, technological progress, demographic change, migration, and climate change, and most recently COVID-19, are reshaping work and society, generating a growing demand for higher levels and new sets of skills.

The OECD Skills Strategy offers a strategic and comprehensive approach to assessing the skills challenges and opportunities of countries and regions for the purposes of helping them build more effective skills systems. The foundation of this approach is the OECD Skills Strategy Framework, which allows for an examination of what countries and regions can do better to: 1) develop relevant skills over the life course; 2) use skills effectively in work and in society; and 3) strengthen the governance of the skills system.

The report, *OECD Skills Strategy Southeast Asia: Skills for a Post-COVID Recovery and Growth*, applies the OECD Skills Strategy framework to assess the performance of countries in Southeast Asia, identifies opportunities for improvement and provides recommendations based on in-depth desk analysis and consultations with stakeholder representatives.