

**ASEM
ACTION PLAN 2030 WORKSHOP 4:
“LIFELONG LEARNING INCLUDING
TVET” – ADB-ASEM PARTNERSHIP**

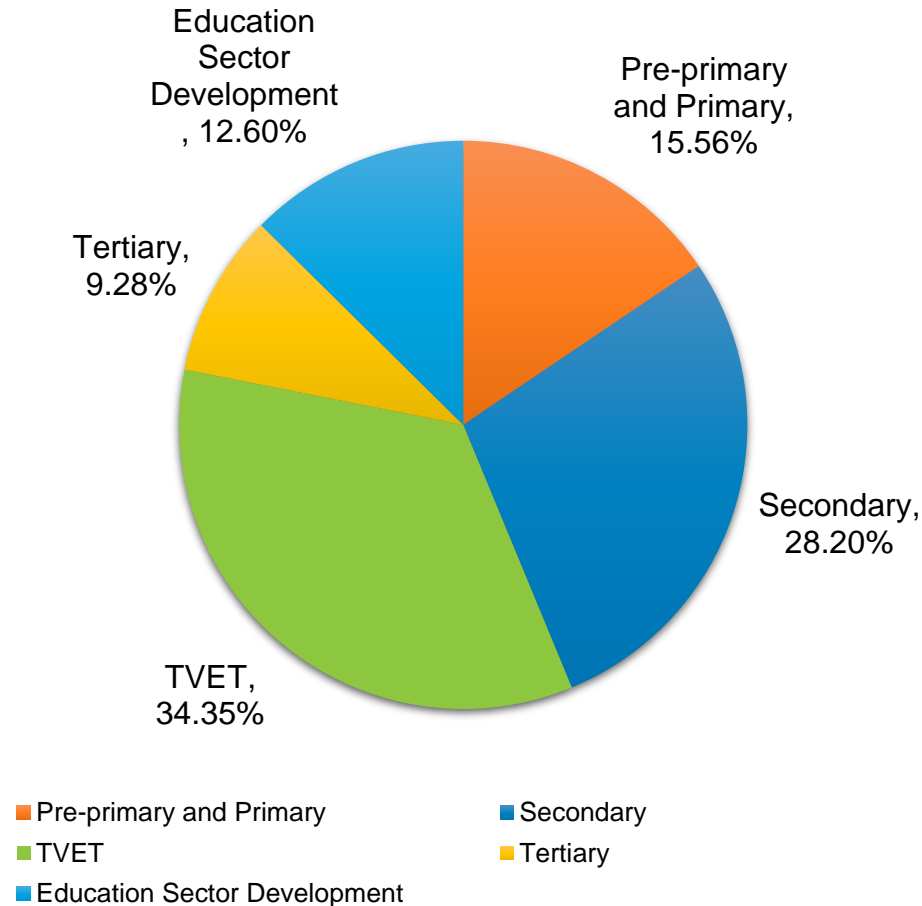
9 February 2021



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- I. ADB PORTFOLIO AND NEW NORMAL**
 - II. LIFE-LONG LEARNING AND LEARNING SOCIETY**
 - III. TWO KEY ELEMENTS OF LIFE-LONG LEARNING**
 - IV. ASEM-ADB PARTNERSHIP**



EDUCATION PORTFOLIO - ONGOING

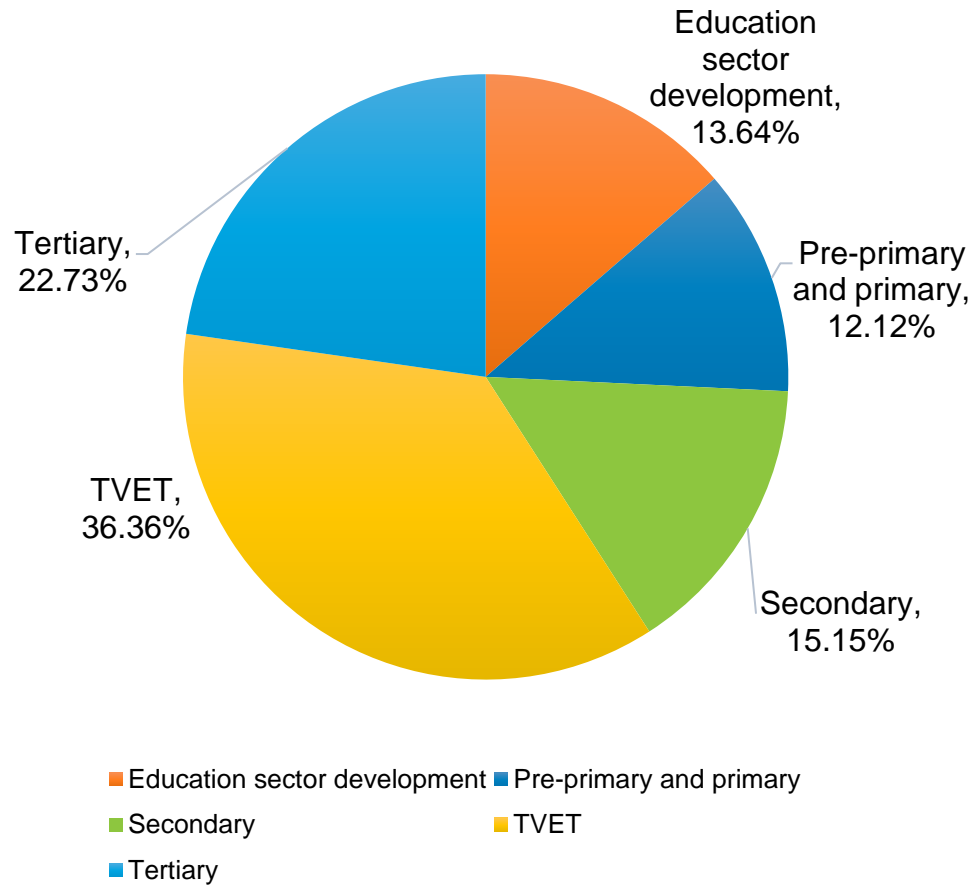


Ongoing projects (\$6.63 billion):

- 73 ongoing projects in over 20 countries – 29 projects in TVET, 15 education sector development, 13 secondary education, 9 pre-primary/primary, 7 tertiary education



EDUCATION PORTFOLIO - PIPELINE



- Pipeline projects (\$6.78 billion):
 - Over 50 projects
 - 19 projects in TVET,
 - 11 tertiary education,
 - 9 education sector development,
 - 6 secondary education,
 - 6 pre-primary and primary,

Pre-COVID-19 challenges, COVID-19 and New Normal

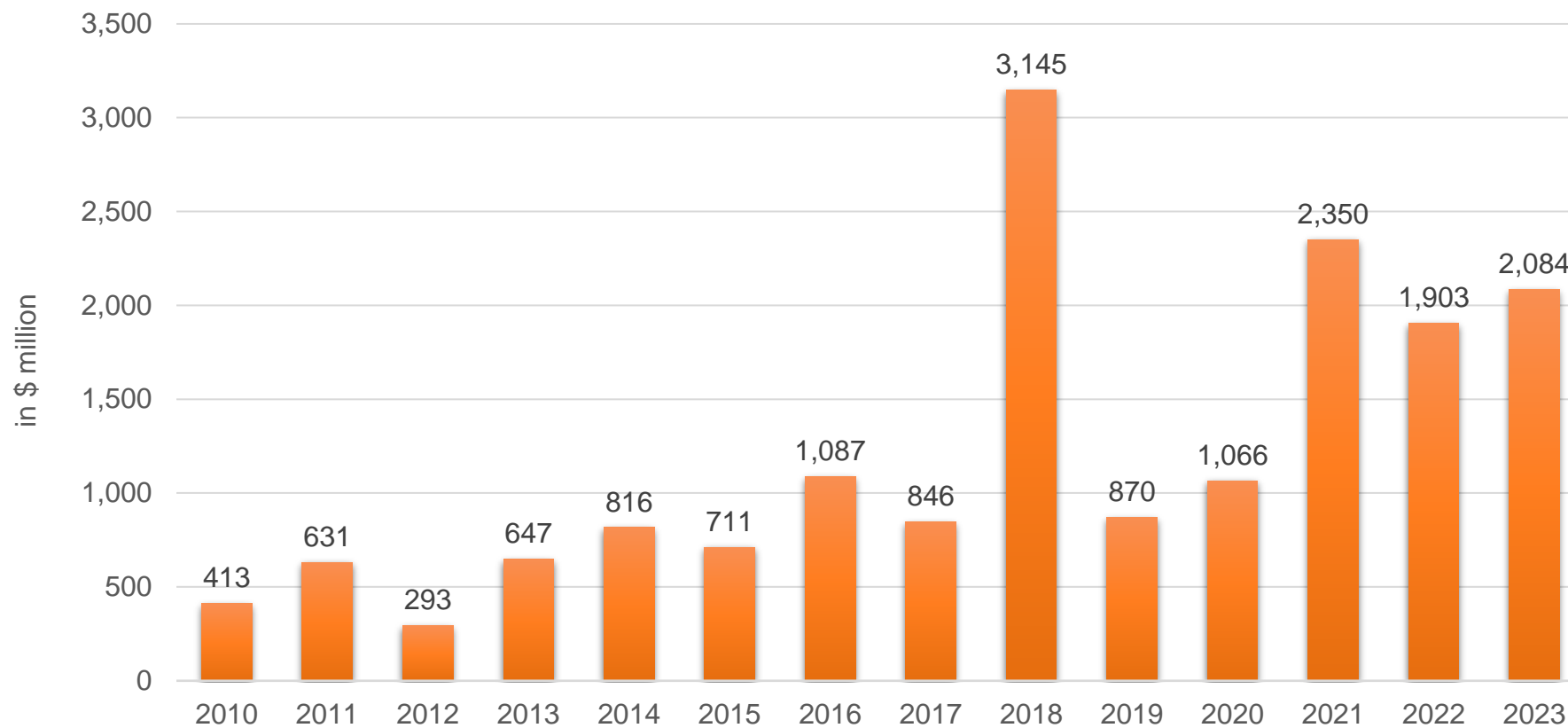


COVID-19 adds to existing challenges

- 'Learning crisis'
- Issues with teacher capacities or use of new generation technologies
- Continuation of rote learning
- Traditional settings and provision



EDUCATION LENDING HISTORY AND PIPELINE





II. LIFE LONG LEARNING APPROACHES



WHAT IS THE NEED FOR LIFE LONG LEARNING?

..Technology, Millennials, and Future Economies



Geometric progression
Disruptive technology



Open
learning styles

ADB EDUCATION
OPERATIONS FACE
REALITIES OF:

SLOW PACE OF
CHANGE

TRADITIONAL
STYLES

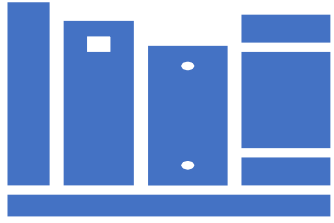
LACK OF
SYSTEMS
CAPACITY



Complex skills
Fast obsolete



Uncertain future
Unknown job markets



Serve the economic interests of the country: global value chains; export competitiveness



Include modern and digital capabilities and advanced technologies



Resilient and agile to meet emerging needs disruptions and changing labor markets



Ensure foundational strength of capacities including soft skills

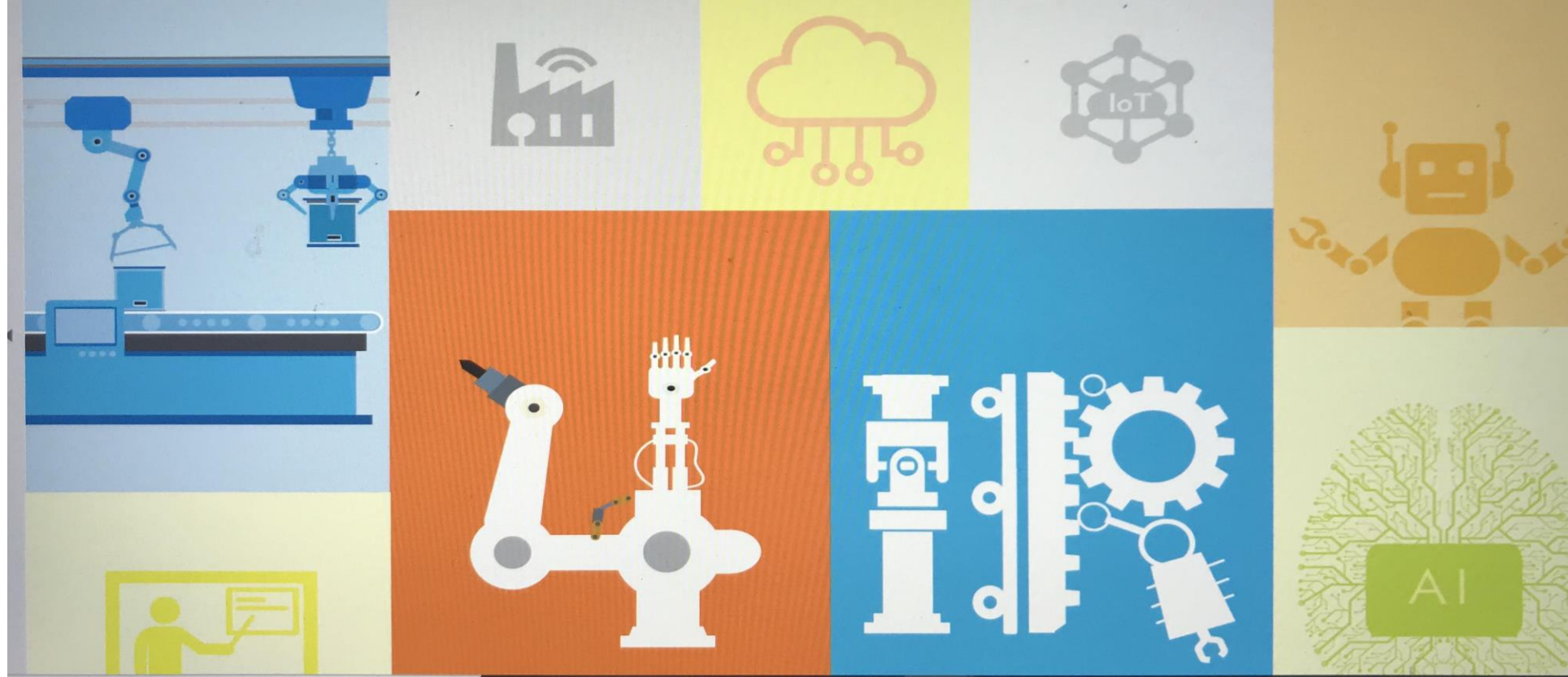
Life Long Learning Approaches – Priority Goals

Serving the interest of economies, youth and other beneficiaries, including the vulnerable

**III. TWO ELEMENTS OF LIFE-
LONG LEARNING**

- INDUSTRY 4.0**
- MULTIPLE STAKEHOLDERS**





ADB study on Fourth Industrial Revolution and implications for skills and jobs in ASEAN

Recently released 4-country study

<https://www.adb.org/publications/benefits-industry-skills-development-southeast-asia>

Implications of 4IR on two sectors in each economy

Cambodia

Garments

Tourism

Indonesia

F&B

Automotive

Philippines

IT BPO

Electronics

Viet Nam

Agro-processing

Electronics



Steps for understanding skill gaps in each sector

- 1 Assess the sector's growth trajectory and potential of 4IR
- 2 Assess employment and skills implications of impact of 4IR
- 3 Explore changing nature of tasks and skills
- 4 Explore training required and volume of training
- 5 Assess education and training channels

Companies plan to adopt 4IR

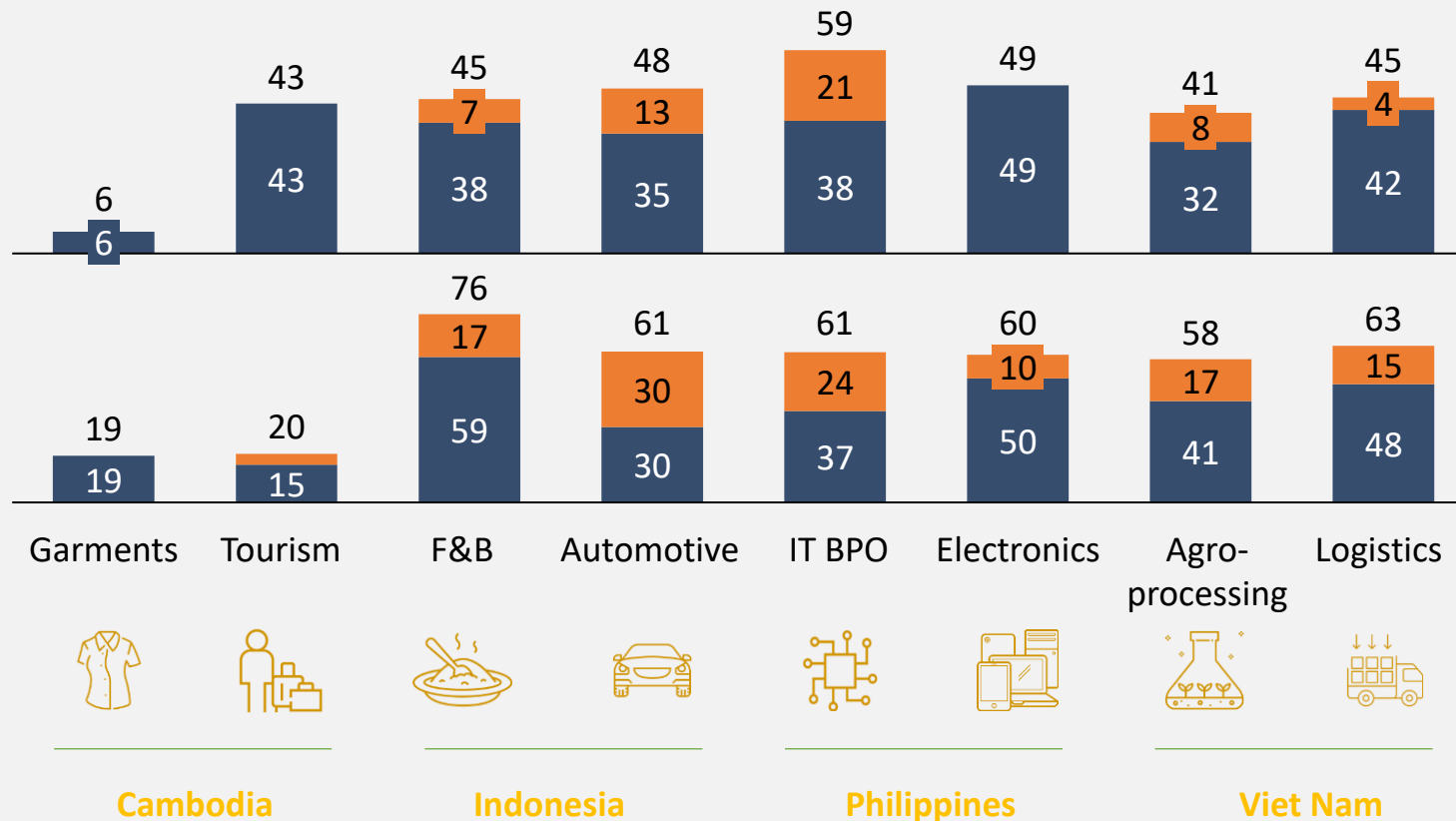
Sentiments towards Industry 4.0 in different sectors and ASEAN Member States

Percent of respondents who agree or strongly agree, %

Strongly agree
Agree

My company already adopts I4.0 technologies in our operations

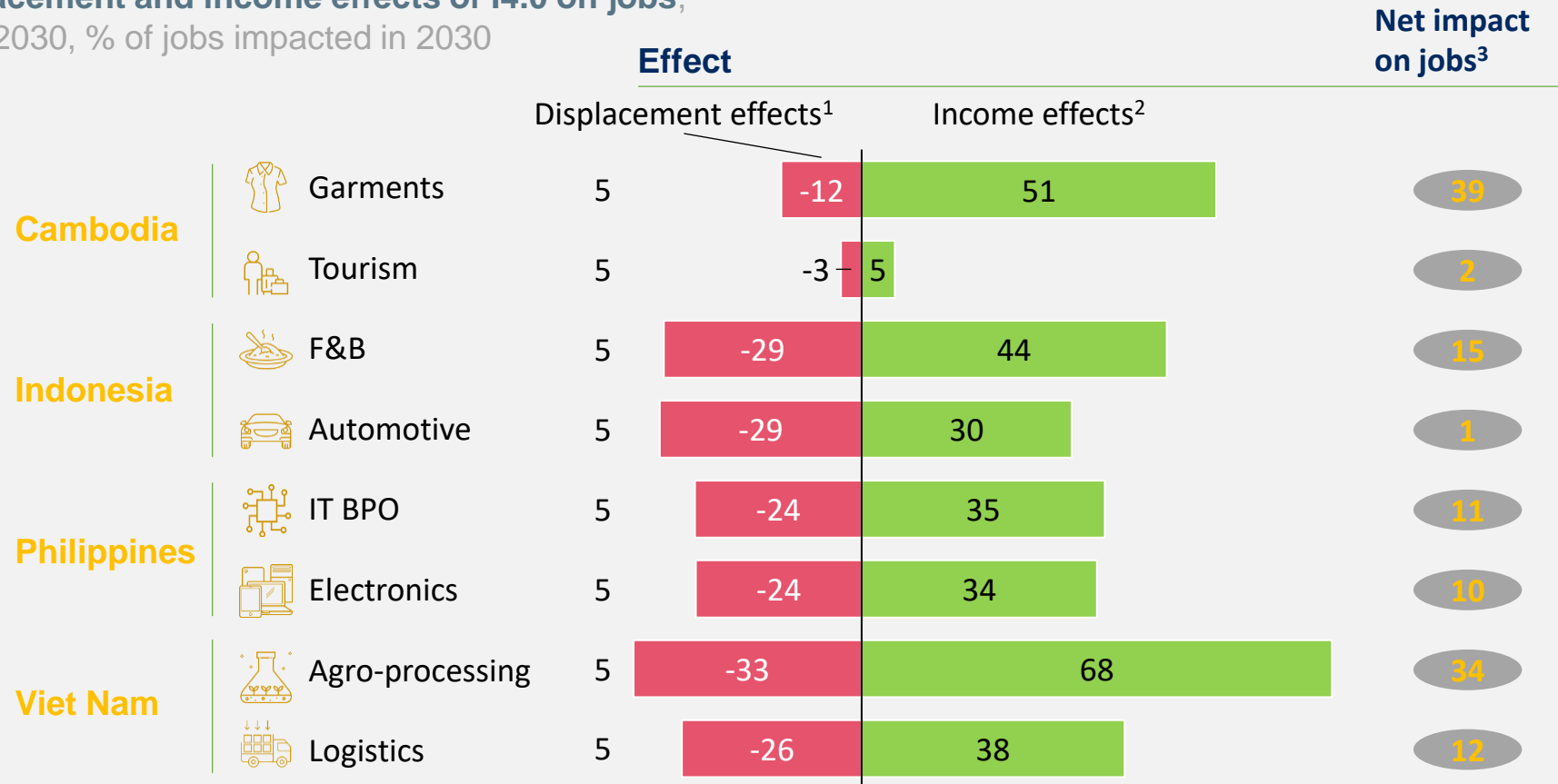
My company plans to adopt I4.0 technologies in our operations by 2025



Positive net impact of 4IR on jobs

Modelled impact of I4.0 on number of jobs between 2018 and 2030 in different sectors

Displacement and income effects of I4.0 on jobs,
2018-2030, % of jobs impacted in 2030



1 Job reductions due to labor-substitution effects of I4.0.

2 Additional labor demand stimulated by revenue increases brought about by I4.0-enabled productivity gains.

3 Combination of displacement and income effects.

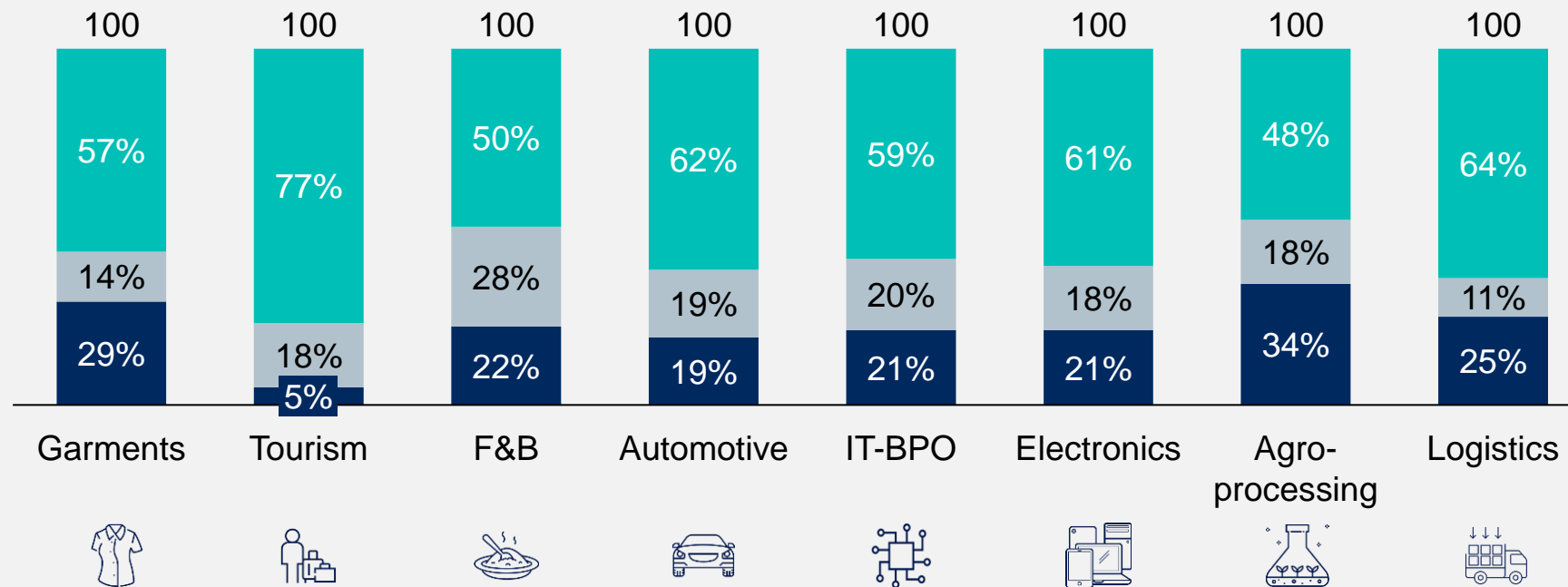
SOURCE: Various local economy data and AlphaBeta modelling

Incremental skills demand for 4IR requires “on-the-job” training

■ On-the-job training ■ Short professional training ■ Longer formal training

Additional person trainings¹ required to meet skills demand driven by Industry 4.0 adoption in different industries and countries, in 2030, by training channel

Share of person trainings required by channel; Percent²



Note: Figures include rounding adjustments

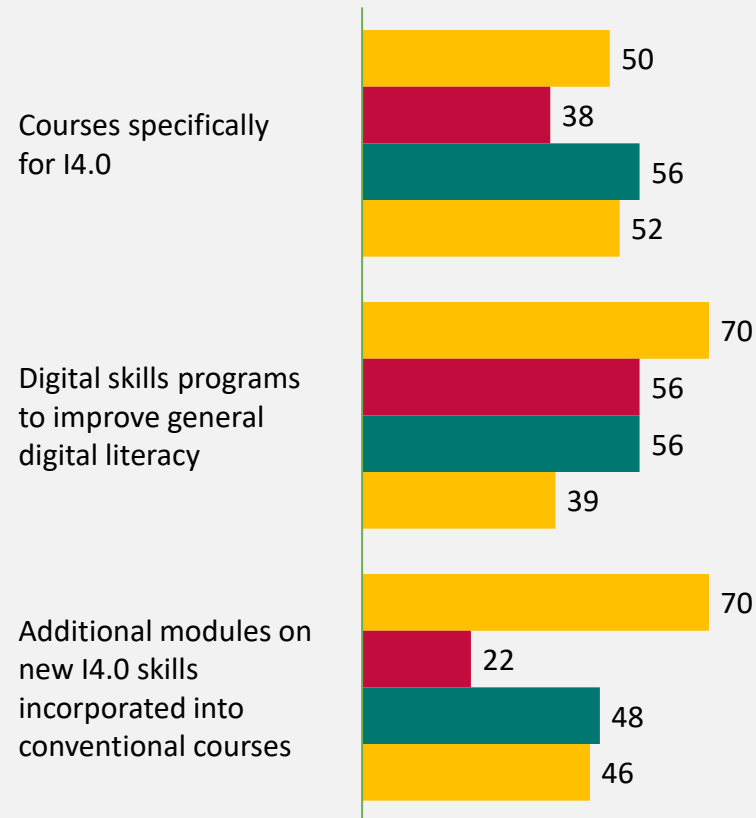
- 1 One-person training refers to training **one worker**, in **one skill** from the level required by his occupation’s skill profile in 2018 to the relevant level given by the skills profile in 2030.
- 2 “On-the-job” training refers to training conducted during day to day such as senior staff instructing junior staff or running internal seminars; “Short professional” training refers to short (between 1 day to 6 months) courses conducted by professional internal or external instructors (e.g. weekend seminars, boot-camps); “Longer formal” trainings refer to trainings longer than 6 months for which workers would likely have to take leave from their jobs, these include returning into formal education such as obtaining a degree

I4.0 in training delivery limited

Cambodia Indonesia Philippines Viet Nam

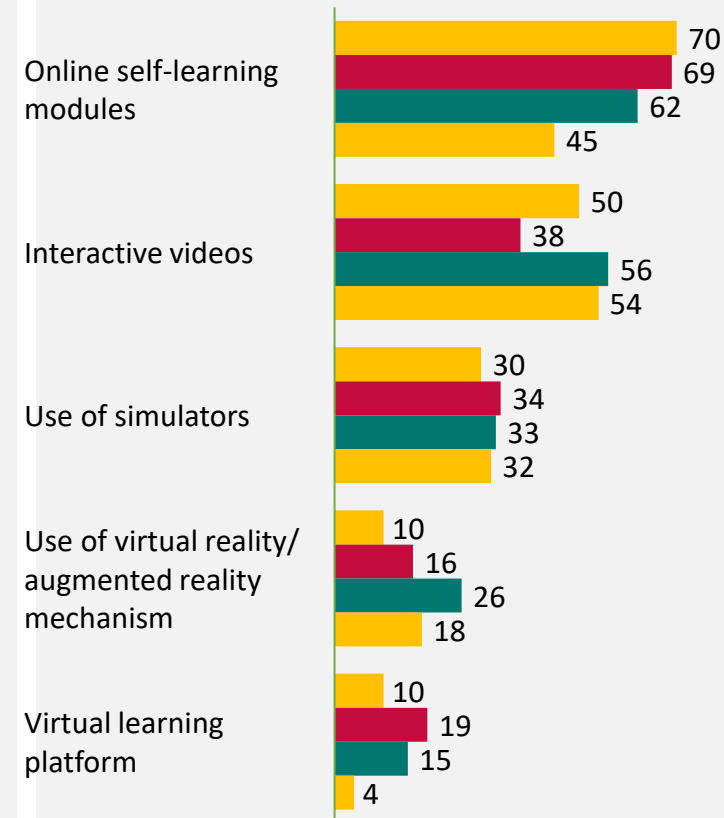
Prevalence of technology related courses at training institutions

Percent of survey respondents, %



Prevalence of technology-based delivery in teaching at training institutions

Percent of survey respondents, %



Digital agenda going forward

• TVET

- Advanced digital skills such as data science, big data, AI, and machine learning
- Real-time and AI-powered job matching platforms
- qualification frameworks with micro credentials for upskilling and reskilling
- Blended learning platforms established for learning continuity and upskilling

• HIGHER EDUCATION

- online courses for basic, intermediate, and advanced skills
- Digital platforms for lifelong learning with stackable credentials, nano degrees, micro masters degrees, etc.
- Blockchain for degrees and micro credentials
- Advanced virtual research labs and digital science capabilities
- Real-time and AI-powered job matching platforms

Multiple Stakeholders in a Learning Society

ADB BOOK ON POWERING A LEARNING SOCIETY DURING AN AGE OF
DISRUPTION

FORTHCOMING APRIL 2021

Community	CSO Citizen role	Private sector Private equity		Schools TVET
Metropolitan authorities				
Parents	Government	Online providers Coursera		City Planners Smart Cities Learning Cities
Workforce Planners	Infrastructure B4S – Build for Skills	Universities Future Proofing Students		Learning Assessments

IV. ADB-ASEM PARTNERSHIP



Life cycle approach to education

Expected Trends

- Continuous skill upgrade and re-skilling critical; No degrees/qualifications for life
- Digital skills to be central to education and training (Gartner estimates that 80% of secondary schools in 2024 will have curriculum for specific digital skills)
- Digital solutions to address the historical pile-up of learning deficits
- Universities will redefine cost parameters of face-to-face and online education
- Rising household expenditures on EdTech
- Management of facilities and resources based on enrollments through big data

Implications

- Lifelong learning initiatives needed; micro-credentials for short courses
- Greater demand for coding, computers in K-12; Practical training with Augmented Reality, Virtual Reality, and Mixed Reality solutions; digital curriculum design
- In-school and after-school initiatives and tech-enabled remediation
- Regulatory changes to enable universities to offer entirely online tertiary education
- Rising role of parents and communities
- Educational institutions need to adapt infrastructure and learning

Key areas for ADB-ASEM knowledge sharing

- Re-balance focus areas and approaches:
 - From early-stage education/training to life cycle-based approach
 - From institution-based to learning outside formal settings
 - From face-to-face to blended and digital learning and training
 - From academic to experiential, workplace based learning
 - From technical skills to a combination of technical, soft skills and 'learning to learn' skills
 - From traditional degrees to digital and micro credentials for life-long stacking and continued learning
- Special focus on disadvantaged and underprivileged, particularly girls

PROMOTE EXCHANGE OF KNOWLEDGE AND PEER-TO-PEER INTERACTIONS

THANK YOU