



# The Implications of Artificial Intelligence for Jobs and Skills

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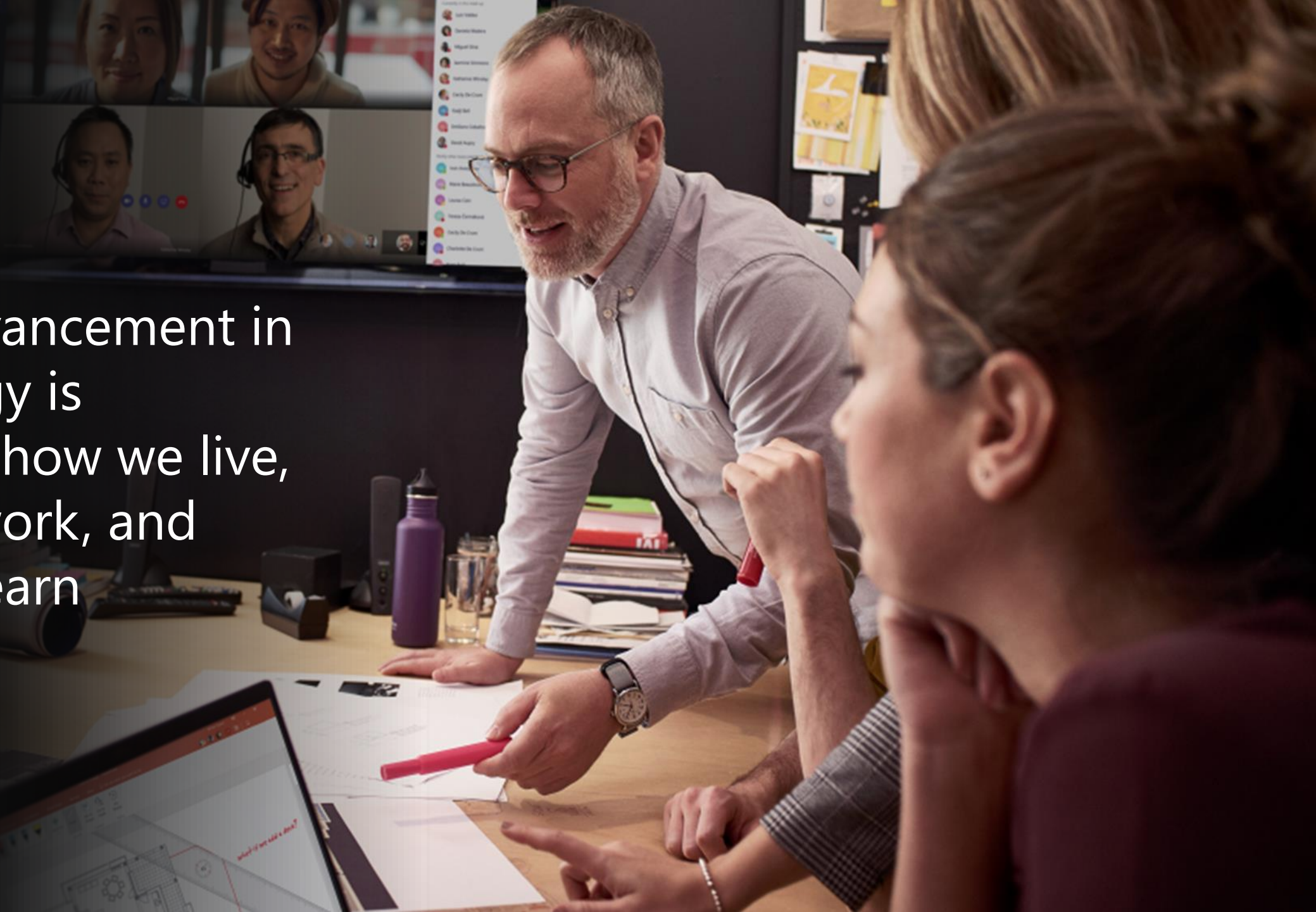




We are living in a changed world.



Rapid advancement in  
technology is  
changing how we live,  
how we work, and  
how we learn







A high-angle, top-down photograph of a home office. A woman with dark hair, wearing a light-colored long-sleeved shirt and blue jeans, is seated at a wooden desk. She is using a black keyboard and a mouse. The desk features two computer monitors; the left one displays a data dashboard with various charts and tables, while the right one shows a Windows operating system desktop. On the desk, there is also a white mug of coffee, a gold-colored desk lamp, a notepad with a pen, and a closed laptop. To the left of the desk, a young girl with dark hair, wearing a blue dress and patterned leggings, sits on a brown sofa, holding a tablet and looking towards the camera. The scene is set in a room with light-colored walls and a window with white curtains in the background.

# NEW NORMAL

# The **problem** we need to solve now



A global economic  
crisis



Returning to a  
different economy



An intensified  
skilling challenge



**NEW OPPORTUNITY**





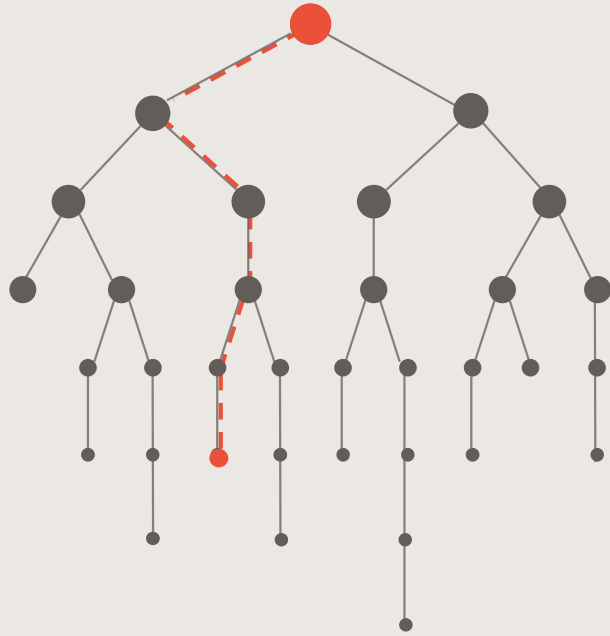
How could AI change the nature of work in Asia?

3x

the productivity benefits

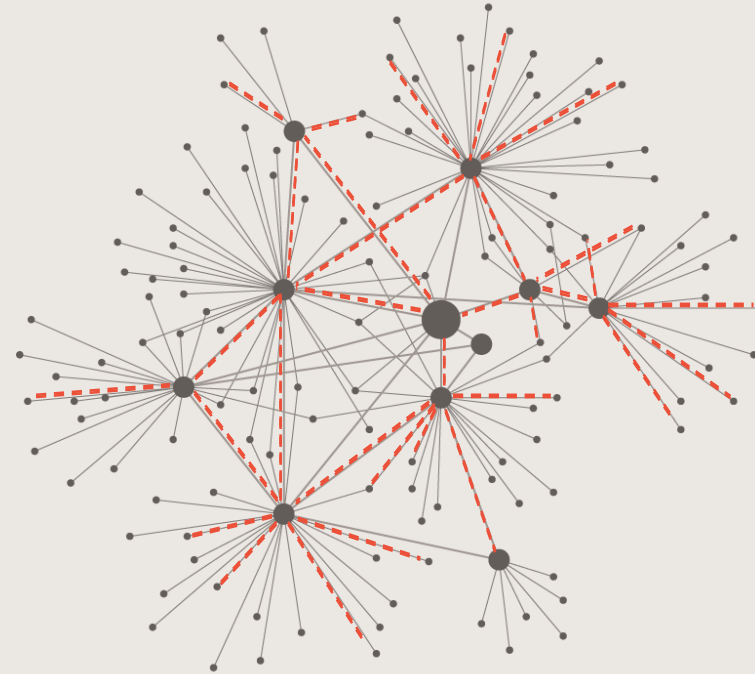
*Traditional, non-digital sectors such as healthcare are expected to reap up to three times the productivity benefits from AI to digital sectors*





TRADITIONAL HIERARCHIES

**INFORMATION MOVES SLOWLY**  
**COMMAND AND CONTROL**



RESPONSIVE NETWORKS

**INFORMATION TRAVELS FAST**  
**LEARN AND ADAPT**



How could AI change the nature of work in Asia?

10%

Increased real wages

*Displaced workers have the potential to improve their wages if they manage to secure jobs with lower risk of substitution by AI technologies or new AI-supporting roles*



How could AI change the nature of work in Asia?

56%

struggle to find new jobs

*There are rising concerns that AI could force Asian manufacturing workers to compete for a diminishing supply of low-skilled work, pushing them into a "race to the bottom"; a study indicates that that 56% of manufacturing workers in Cambodia, Indonesia, Thailand, the Philippines and Vietnam face this risk*



How could AI change the nature of work in Asia?

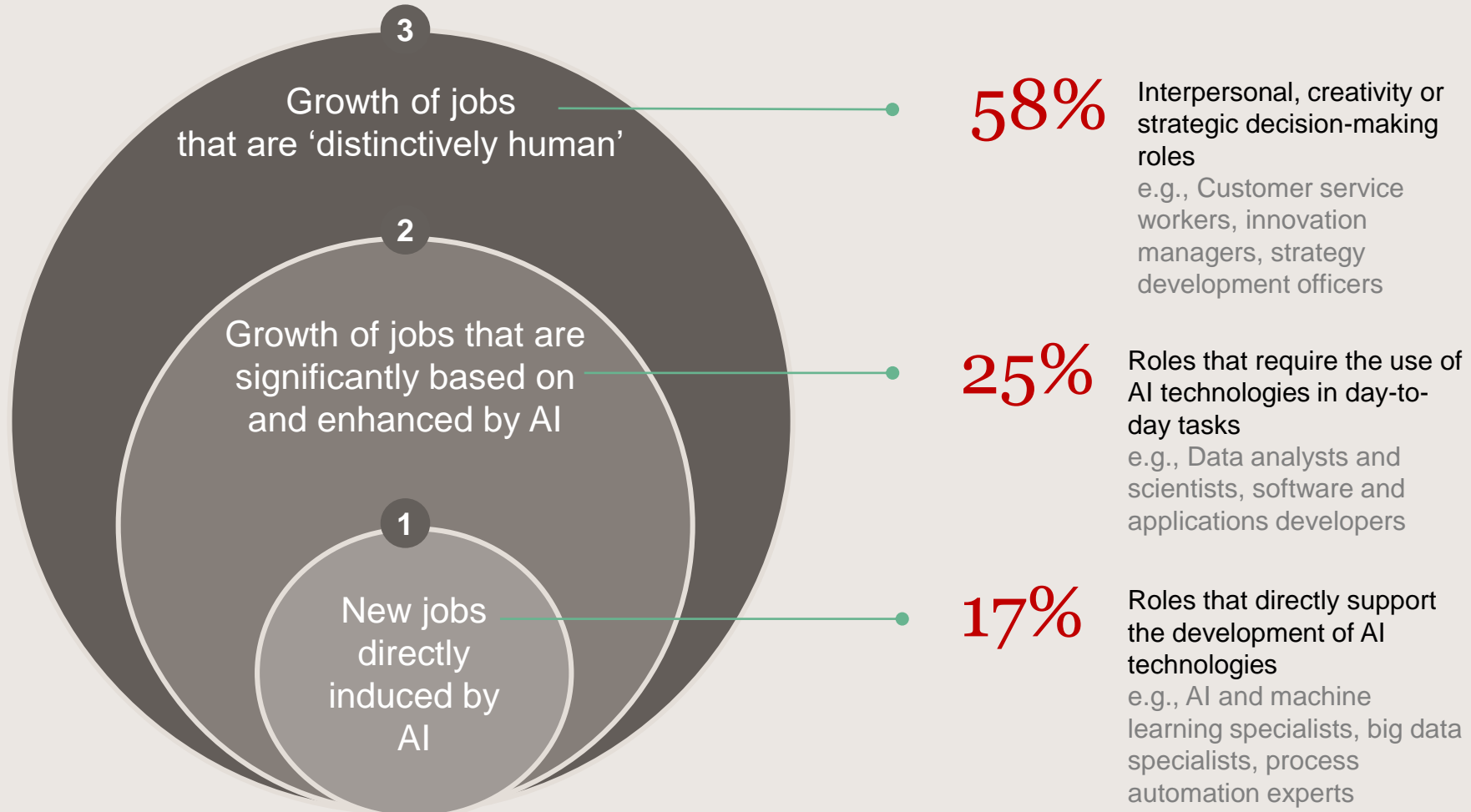
93 mil.

*New job opportunities will be created =*

*The income effect of AI could more than offset its displacement effect to lead to net job gains; a study in China estimated an overall 12% increase in jobs by 2037*

over 2018-2022 period<sup>1</sup> (%)

## Projected distribution of in-demand job positions in an AI economy



1. The projected distribution of in-demand job positions in an AI economy was proxied based on the percentage breakdown of job roles that the WEF survey reflected would have "new" and "stable" demand by employers to 2022.

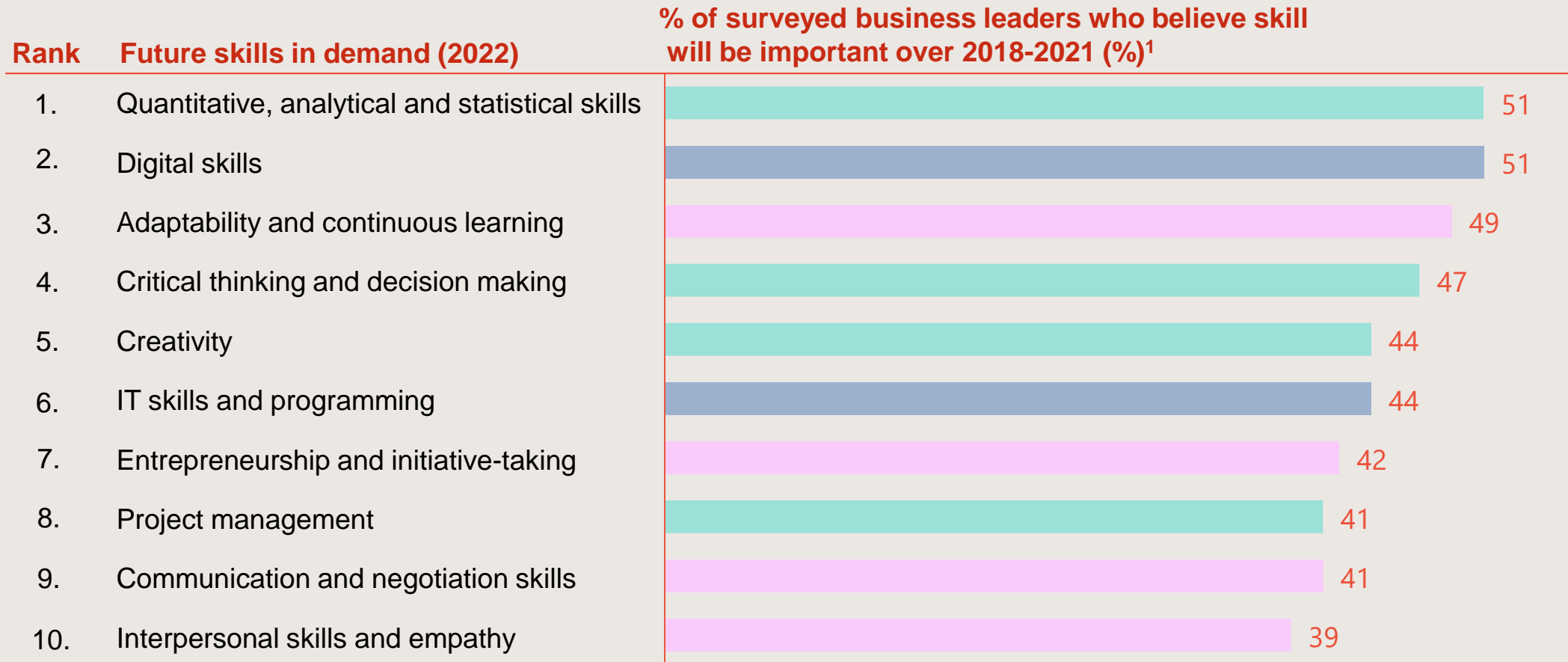
SOURCE: World Economic Forum (2018), *Future of jobs 2018 report*, AlphaBeta analysis



over 2018-2022 period<sup>1</sup> (%)

## Top ten 'in-demand' skills identified by business leaders in APAC

Higher cognitive skills   Social & emotional skills   Technological skills



1. 1,605 business leaders in the Asia Pacific region were surveyed. They were asked the question, "Which of these skillsets do you see most commonly available in the workforce today, and which do you think is most needed 3 years from now in the AI-enabled workplace?" 15 countries were included in the survey: Australia, China, Hong Kong, India, Indonesia, Japan, New Zealand, the Philippines, Malaysia, Singapore, South Korea, Sri Lanka, Taiwan, Thailand and Vietnam. SOURCE: Microsoft-IDC survey (2018); AlphaBeta analysis



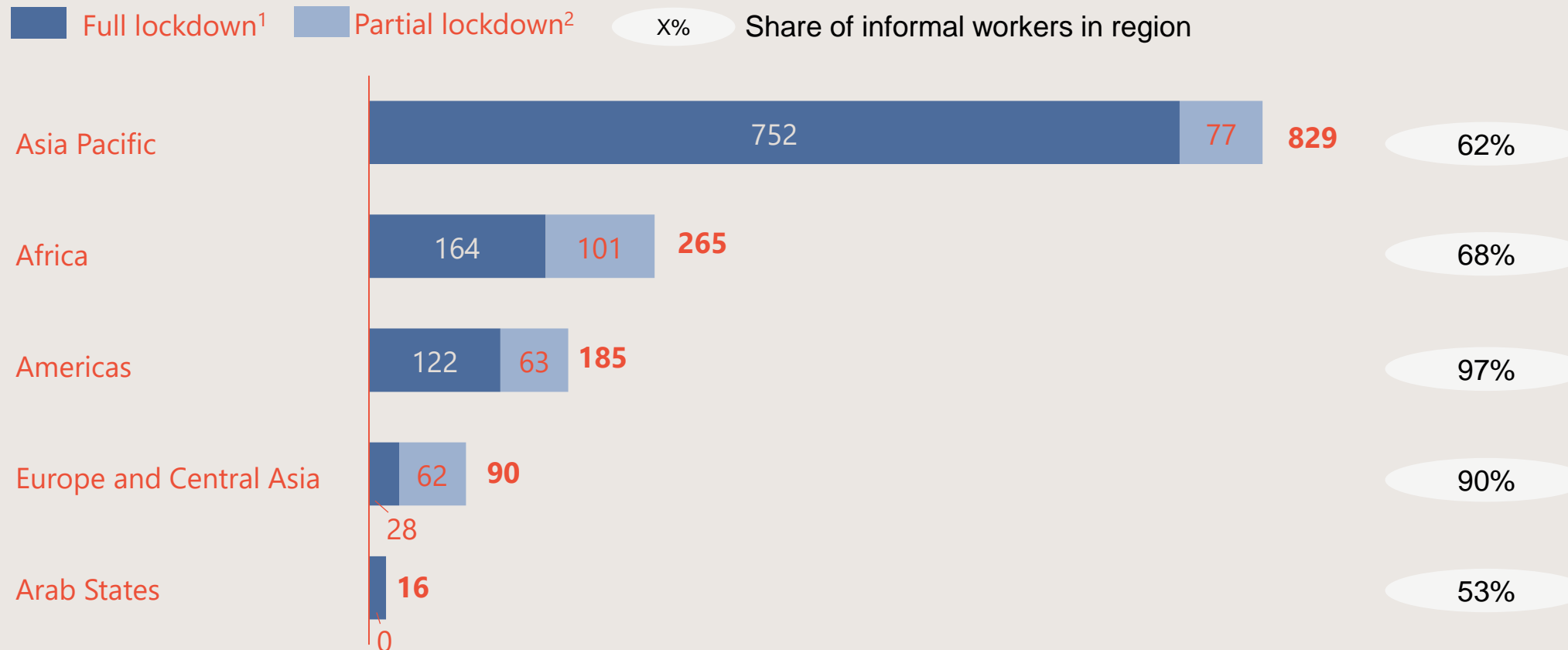
COVID-19 has dramatically  
accelerated this change.



as of 29 April 2020

## Number of informal workers in countries with lockdown measures by workers

Workers, millions



1. Full lockdown: These are countries that have taken three measures, namely, (a) mandatory workplace closure, (b) mandatory internal travel controls (i.e., restriction on the internal movement of citizens); and (c) mandatory shutdown of public transport.

2. Partial lockdown: At least one of the three measures have been taken.

SOURCE: International Labour Organization, *COVID-19 and the World of Work* (29 April 2020); AlphaBeta analysis

Workplace  
Innovation  
**Place**

Workstyle  
Innovation  
**Culture**

Workforce  
Innovation  
**People**







# STIMULATE GREATER

AI Adoption and worker  
reskilling efforts



# PROMOTE A SHIFT

in emphasis from qualification  
to skills



# BUILD INCLUSIVENESS

in labor market to extend the  
benefits of AI to all workers





# Asking more of ourselves and of fellow employers



**Set learning commitments for  
current employees**



**Offer work-based learning programs  
for people with non-traditional back  
grounds**

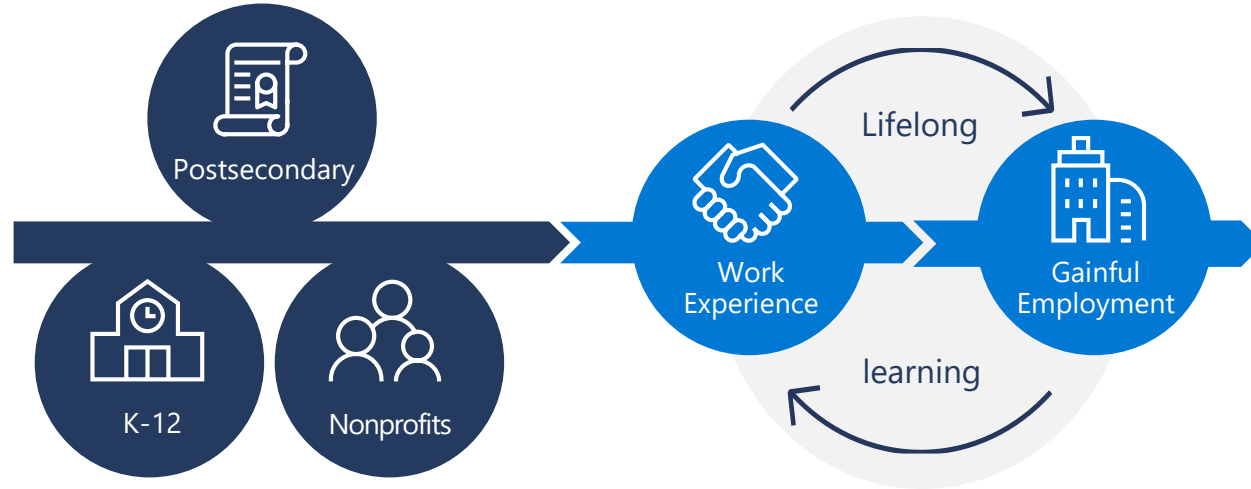


**Use practices to hire based on skills  
versus education**

# Beyond Microsoft :

## Our approaches on Skills for Employability

Help individuals can learn 21<sup>st</sup> century skills and create pathways to better careers.







# Skills for Employability Resources

## Online courses

- Microsoft Digital Literacy
- Code.org courses and Minecraft Hour of Code
- Microsoft MakeCode
- Microsoft Minecraft: Education Edition
- Microsoft Learn
- LinkedIn Learning

## Skills-based hiring

- Skillful Career Coaching Resources
- Skillful Job Posting Generator

## Industry data

- LinkedIn Economic Graph
- Credential Engine



Reinventing Productivity with AI

*Thank You*

