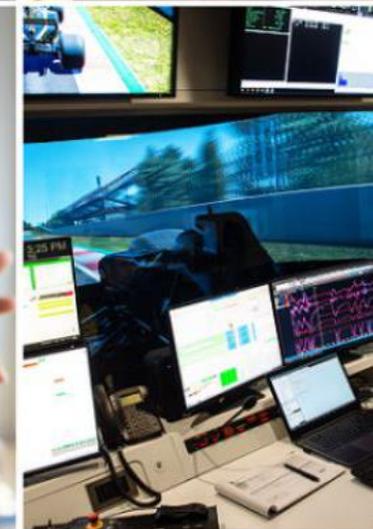
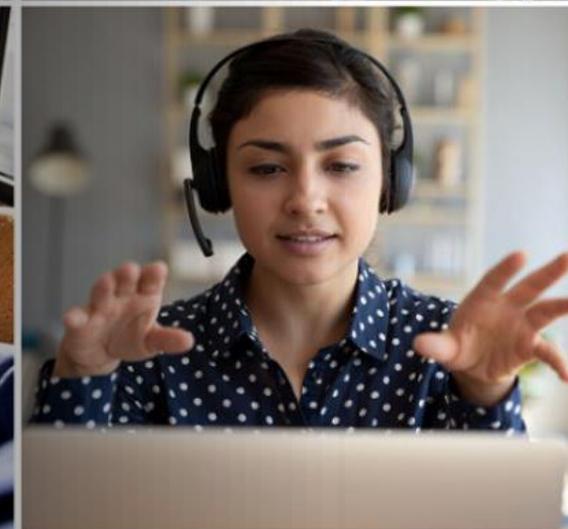
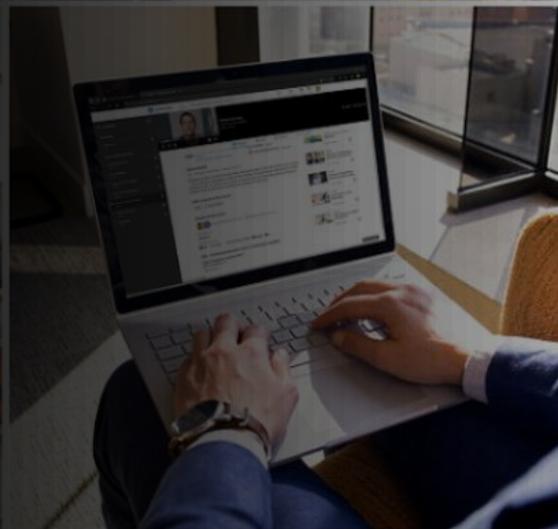




The Implications of Artificial Intelligence for Jobs and Skills

Jin Hee Bae

Microsoft Philanthropies lead | APAC



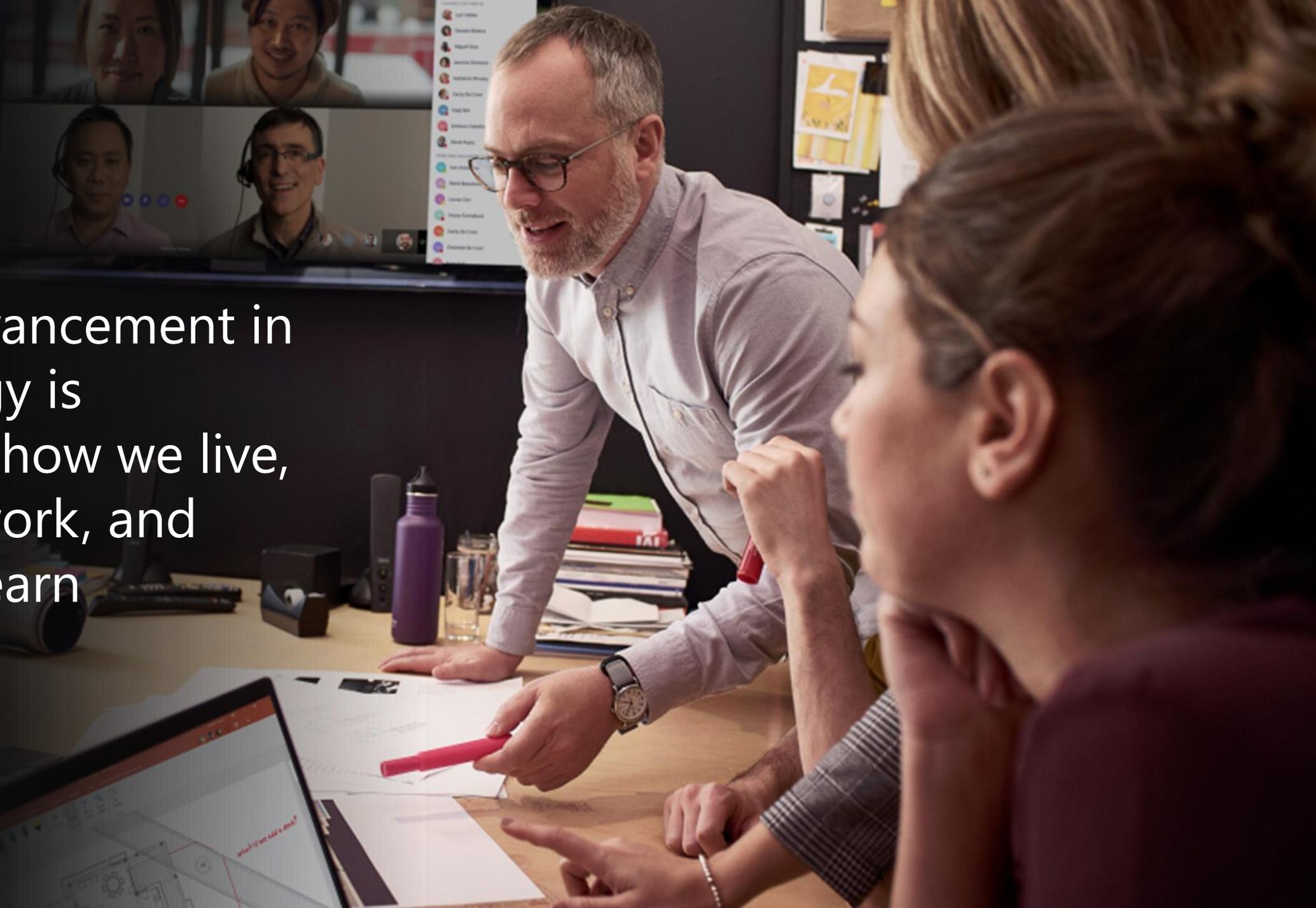






We are living in a changed world.

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





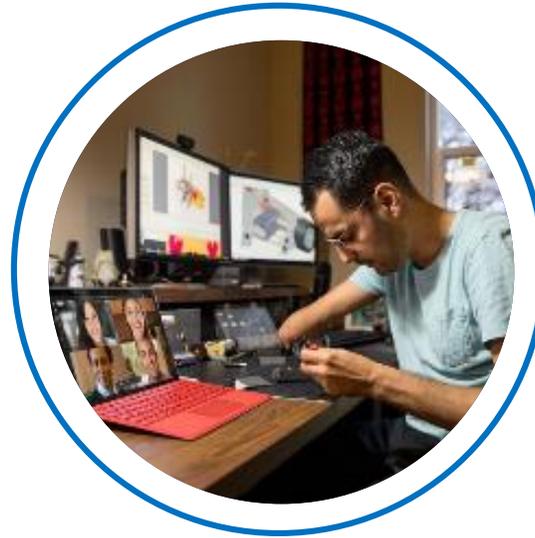
A high-angle, top-down photograph of a woman working at a desk in a home office. The woman is seated at the bottom of the frame, wearing a light-colored long-sleeved shirt and blue jeans, with her hands on a keyboard and mouse. The desk is cluttered with a large monitor displaying a Windows desktop, a smaller monitor showing a data dashboard, a gold desk lamp, a white mug, a notebook, and a pen. To the left, a young girl with dark hair, wearing a blue dress and patterned leggings, sits on a brown sofa, smiling and holding a stack of books. The scene is lit with warm, indoor lighting, and a window with white curtains is visible 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

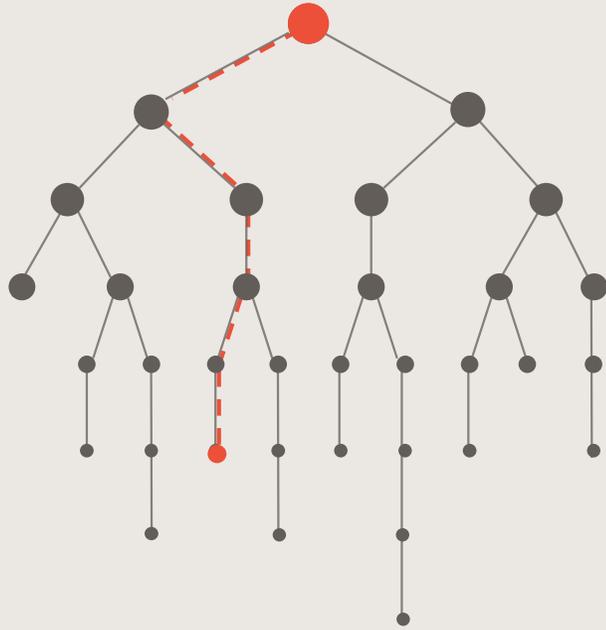


How could AI change the nature of work in Asia?

3x

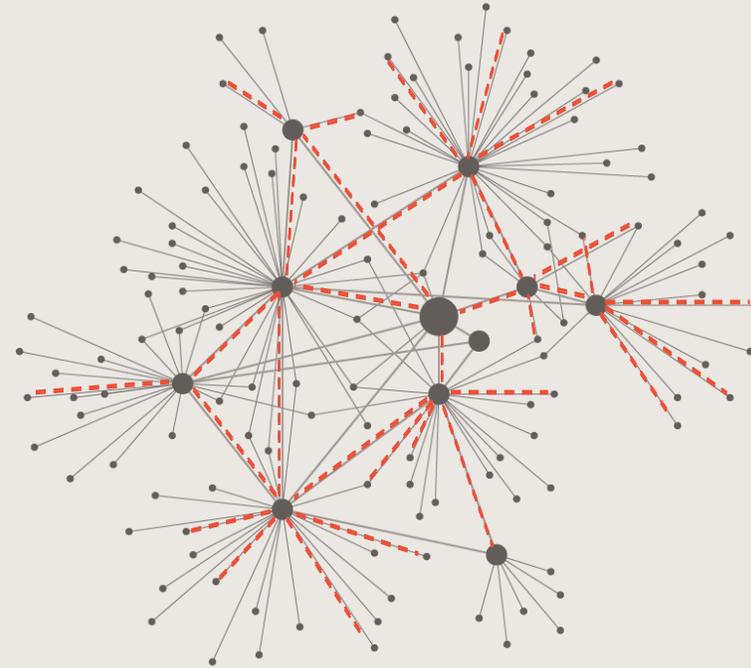
the productivity benefits

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

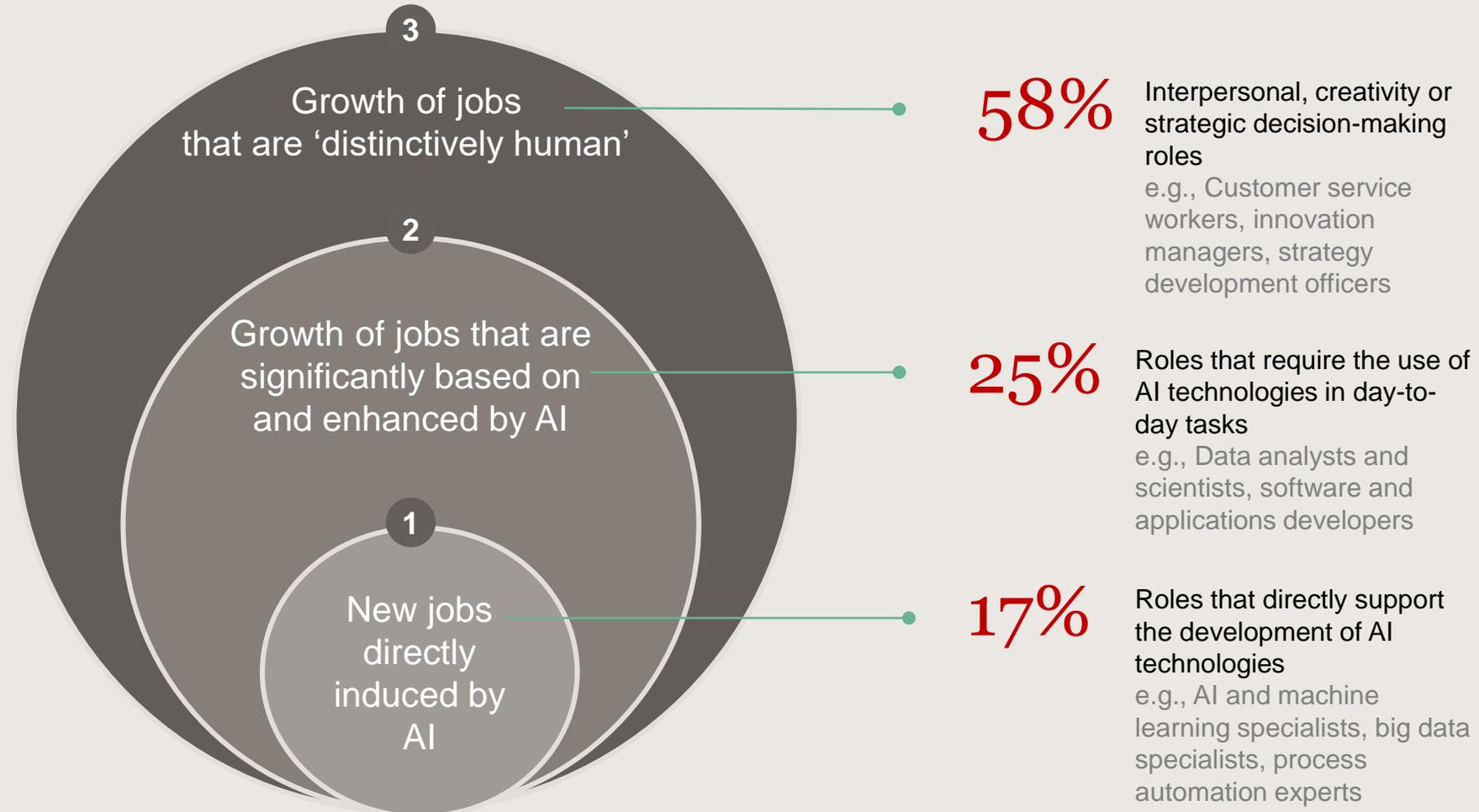
New job opportunities will be created =

mil.

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 period¹ (%)

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 period¹ (%)

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

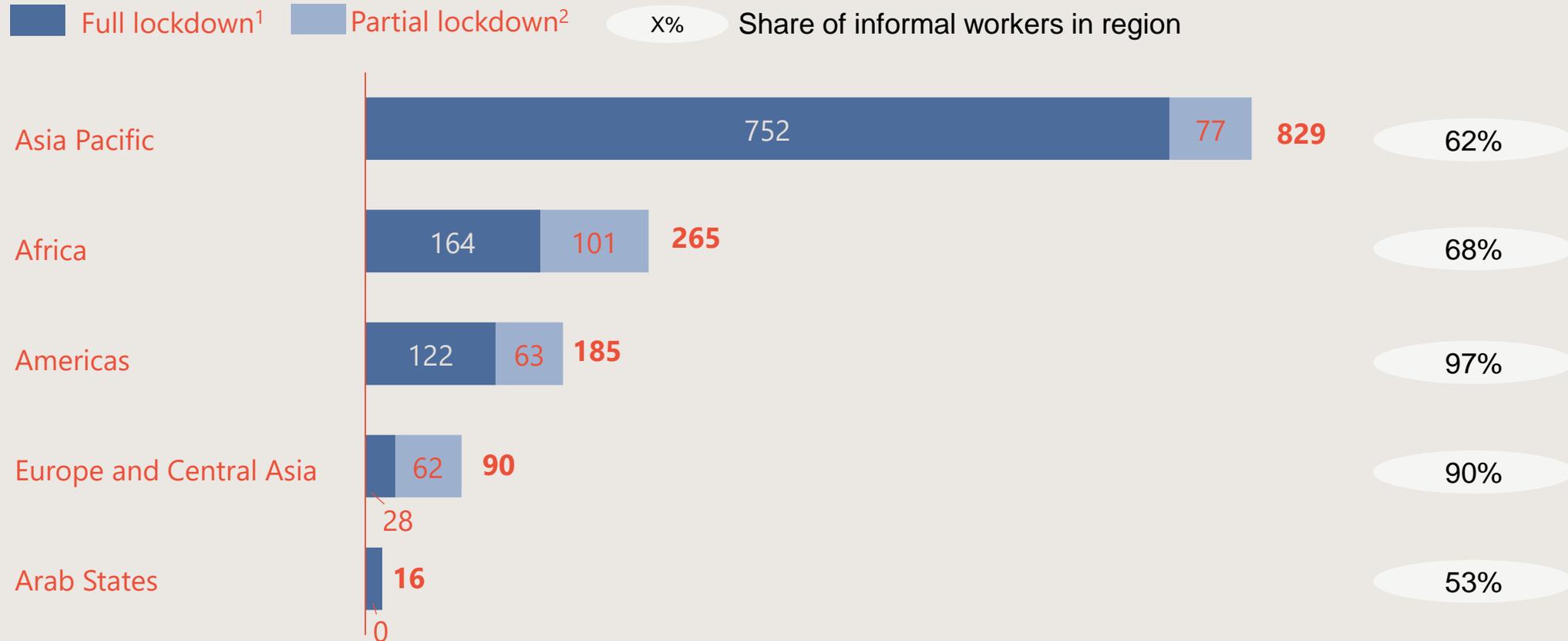


COVID-19 has dramatically accelerated this change.

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 backgrounds

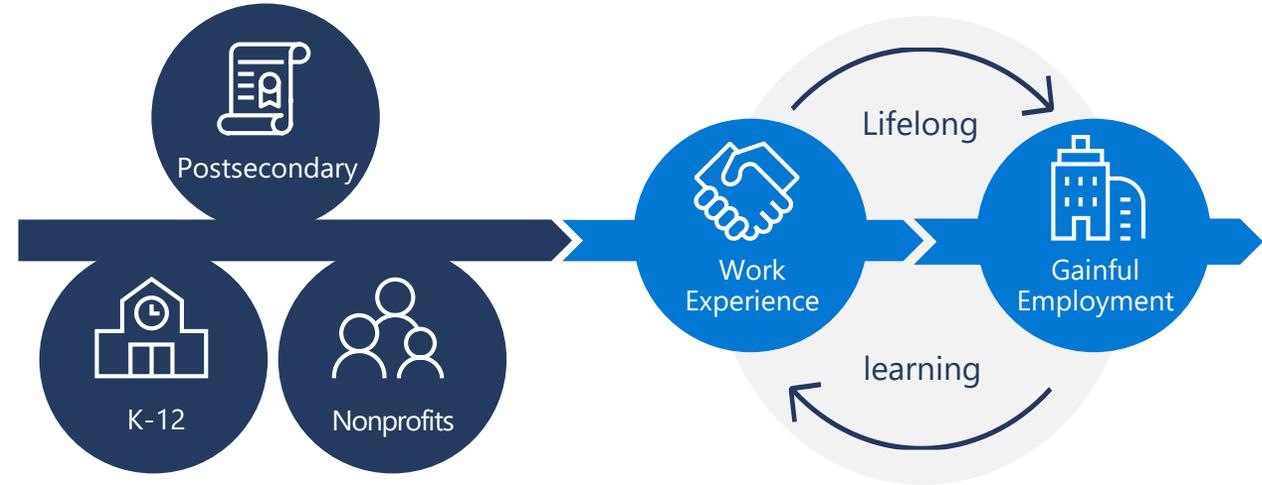


Use practices to hire based on skills versus education

Beyond Microsoft :

Our approaches on Skills for Employability

Help individuals can learn 21st 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

