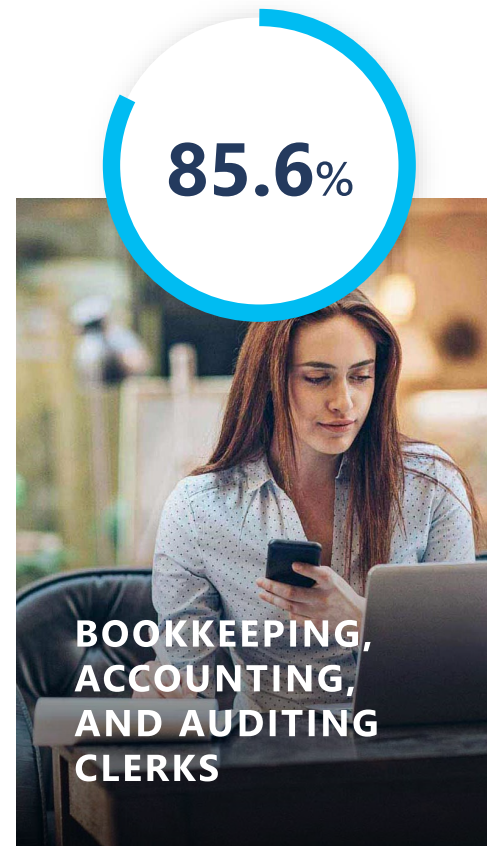


Low-skill jobs appear highly vulnerable to task change

Automation potential



Human-centered + digital occupations growing

Automation potential

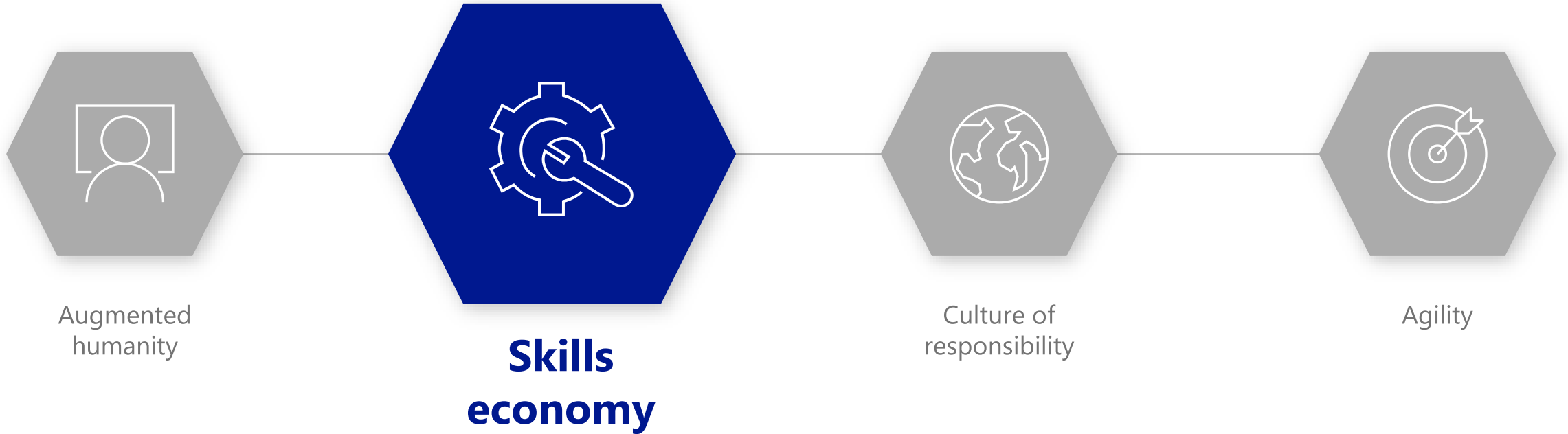


Source: Brookings analysis of Emsi data



Skills economy

Most significant workplace trends [2019]



∨

Talent shortage

Map the global skills needed for new jobs, upskill, reskill the workforce, and enable an efficient marketplace

Data insights: Skills economy



Skills economy

62% of executives believe they need to **retrain** or replace **more than a quarter of their workforce** by 2023¹

27% of total **roles** will be new by 2022 in comparison to 16% in 2018²

74% of employees are **ready to learn** new skills or **completely retrain** in order remain employable in the future³

42% of **tasks** hours will be performed by machines by 2022 in comparison to 29% in 2018²

¹ McKinsey Survey: [Retraining and reskilling workers in the age of automation](#)

² World Economic Forum: [The Future of Jobs & Skills](#)

³ PwC 2018 Saratoga: [Rethinking HR for the future of work](#)

Critical skills for the digital economy

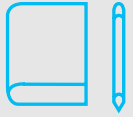
Frictionless Adaptability

Understanding both people + machines

Holistic thinking

Cultural competence

Curious learning



16,000
STUDENTS



200,000
TEACHERS



50,000
WORKERS

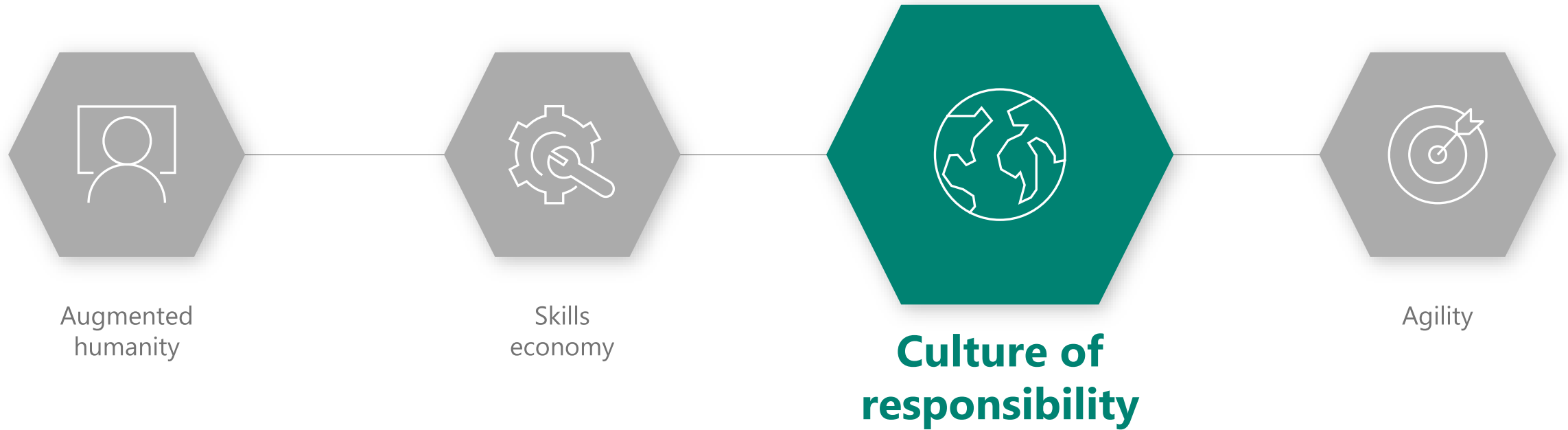


12 million
YOUNG PEOPLE

Purpose + culture



Most significant workplace trends [2019]



Purpose, culture, and corporate citizenship are expectations for the employee experience

Purpose, culture, and company stance

Data insights: Purpose, culture, and company stance



Culture of responsibility

75%

of employees who are thriving say that their company has a strong **sense of purpose** that resonates with their **personal values**¹

88%

of Millennials believe employers should play a **vital role** in addressing issues such as income inequality, hunger and the environment²

8x

the amount by which **purpose-focused** companies were found to have **outperformed** their S&P 500 peers³

¹ Mercer: [Global Talent Trends 2018](#)

² Deloitte: [2018 Global Human Capital Trends](#)

³ Boston Consulting Group: [Decoding Global Talent](#)

As computers
behave more like
humans, **whose**
values will they use?



A principled approach



Fairness



Reliability & Safety



Privacy & Security



Inclusiveness



Transparency



Accountability

An ethical decision framework

Four questions we should always ask

System
purpose

1

Will the technology be used to augment the abilities of individuals and result in a positive impact on people and society?
If no, seek guidance.

Technology
capability

2

Are the AI technology and people capable of performing the tasks that the AI system should do?
If no, seek guidance.

Quality and
reliability

3

Will the technology be effectively designed, operated and maintained by a responsible party?
If no, seek guidance.

Sensitive
uses

4

Is the system in a sensitive category which may have a broad impact on people and society?
If yes, seek guidance.

An **ethical** decision framework

Sensitive use categories

At Microsoft, we recognize that there are sensitive categories of Artificial Intelligent systems which are involved in making automated decisions and recommendations that may have a broad impact on people and society in the following ways



**Denial of
consequential services**



Risk of harm



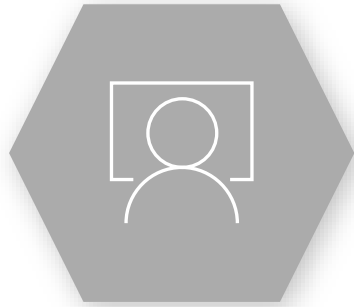
**Infringe on
human rights**

Change agility

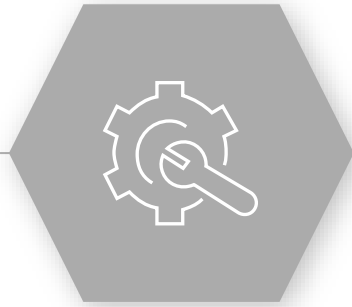


Change agility
Change agility
Change agility

Most significant workplace trends [2019]



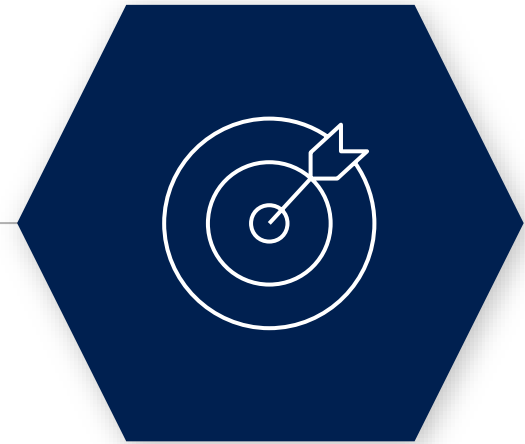
Augmented
humanity



Skills
economy



Culture of
responsibility



Agility



Rapid learning and ability
to change as a necessity

**Change
agility**

Data insights: Change agility



Agility

96% of c-suite respondents are planning an **organizational redesign**, focused on productivity¹

75% of current S&P 500 firms will be **replaced** by new firms over the next 10 years³

70% is the percent chance **agile organizations** have of being in the top quartile of organizational health²

1.5x is the factor by which agile units are more likely to report **higher performance** than competitors⁴

¹ Mercer: [Global Talent Trends 2018](#)

² McKinsey: [The Five Trademarks of Agile Organizations](#)

³ Richard Forester, Yale: [Lifespan and Number of U.S. Public Companies is Shrinking](#)

⁴ McKinsey: [Agile Compendium](#)



Prof. Veronique
Ngyuen, HEC Paris



When technology can empower and divide, what is our **responsibility**?



Help people learn.

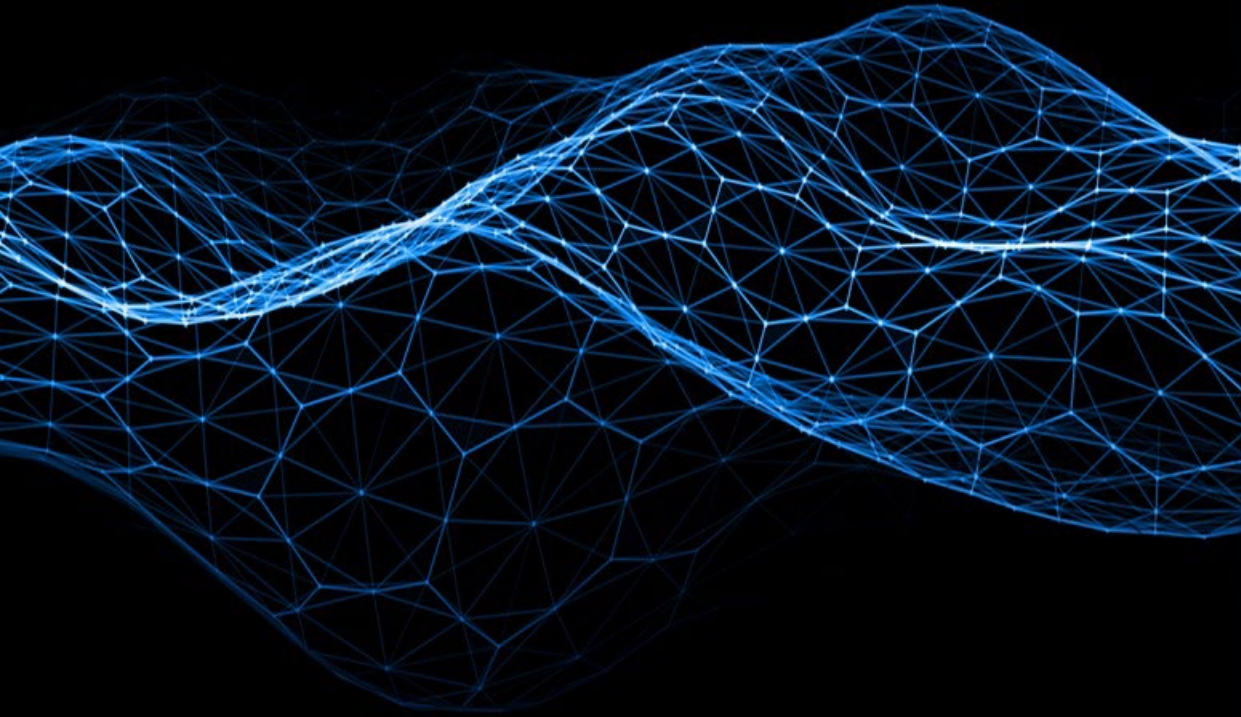


Create a culture that will attract + retain talent.



Make your workplace adaptive to change.





“The most profound technologies are those that disappear. They weave themselves into the fabric of everyday life until they are indistinguishable from it.”

– Mark Weiser

