THE FUTURE OF JOBS IN THE KINGDOM OF SAUDI **ARABIA (KSA):** THE IMPACT OF AI AND AUTOMATION ON THE

FUTURE OF WORK

to a rise in Al and automation ... **GLOBAL** LOCAL

Several forces are leading



GROWTH TARGETS:

ECONOMIC BENEFITS: Al and automation can im-

prove productivity, increase efficiency and quality, and reduce labor costs

... and this shift will impact KSA's economy

Automation technology is

increasingly affecting a wide

range of work activities, not

only low-skill occupations

KSA strives to expand advanced technologies

Productivity must in-

Vision 2030 targets

crease rapidly to achieve

INNOVATION GOALS:

and entrepreneurship

70

Some post-

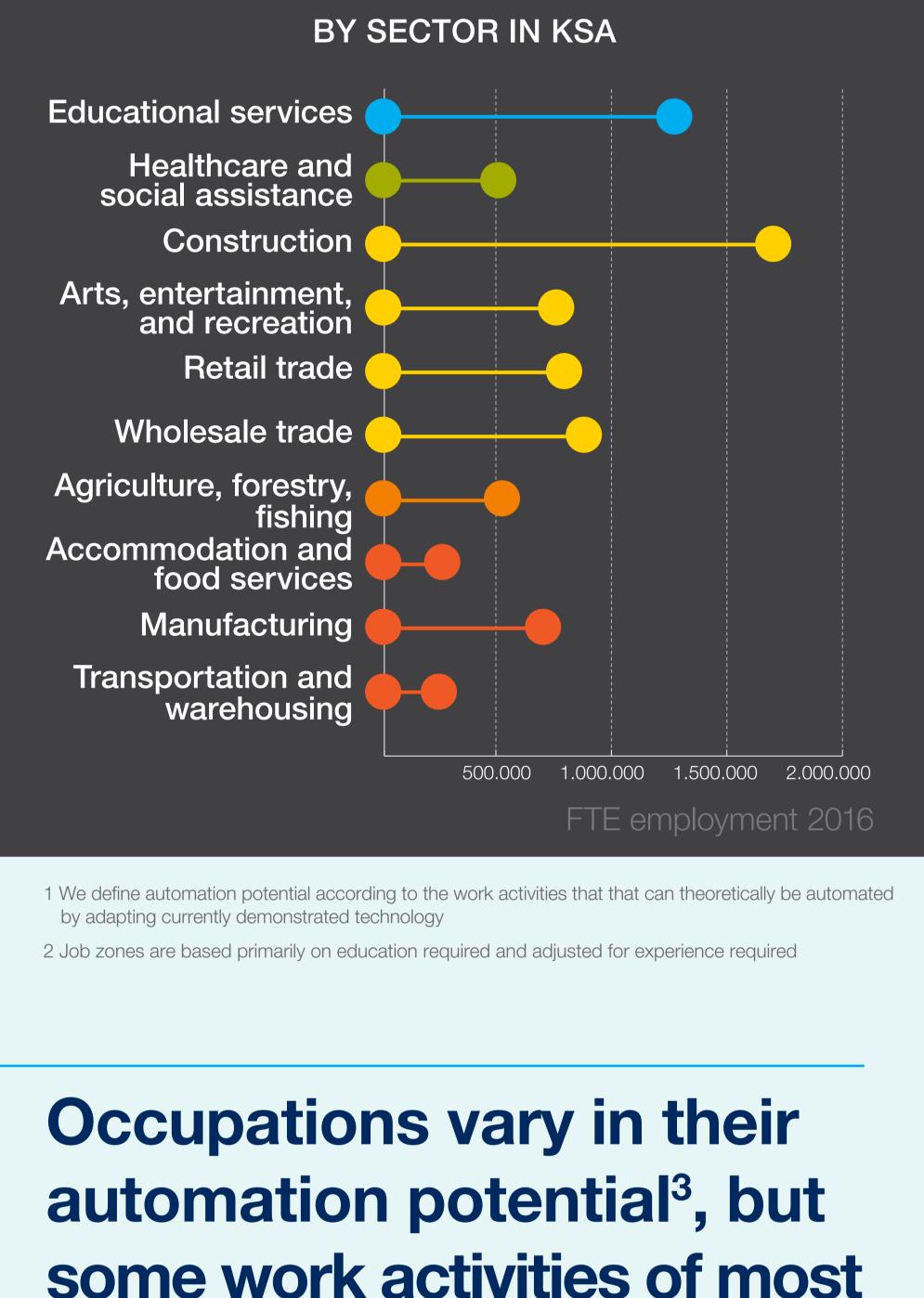
secondary

Routine-task intensive sectors like manufacturing have a technical automation potential greater than 50%.

410/0 of existing work

activities in KSA are theoretically automatable today TECHNICAL POTENTIAL FOR AUTOMATION¹ Ability to automate (%) 20 45 BY JOB ZONE² IN KSA FTE EMPLOYMENT 2016, % Bachelor's degree or higher 15% High school or less

63%



% OF WORK ACTIVITIES Financial analyst, teacher, legislator, engineer Home health aide, dental assistant

SAMPLE JOB

Physicist, pharmacist,

counselor, landscaper

fighter, police, barber

Travel agent, cashier,

lawyer, judge

farmer

3 We define automation potential according to the work activities that can be automated by adapting

Carpenter, electrician, fire-

Mechanic, service techni-

cian, maintenance worker

Actuary, statistician, pilot,

Receptionist, courier, typist

Welder, machine operator

Baker, waiter, butcher

occupations have the poten-

Occupations requiring more creative,

complex, and human-interaction

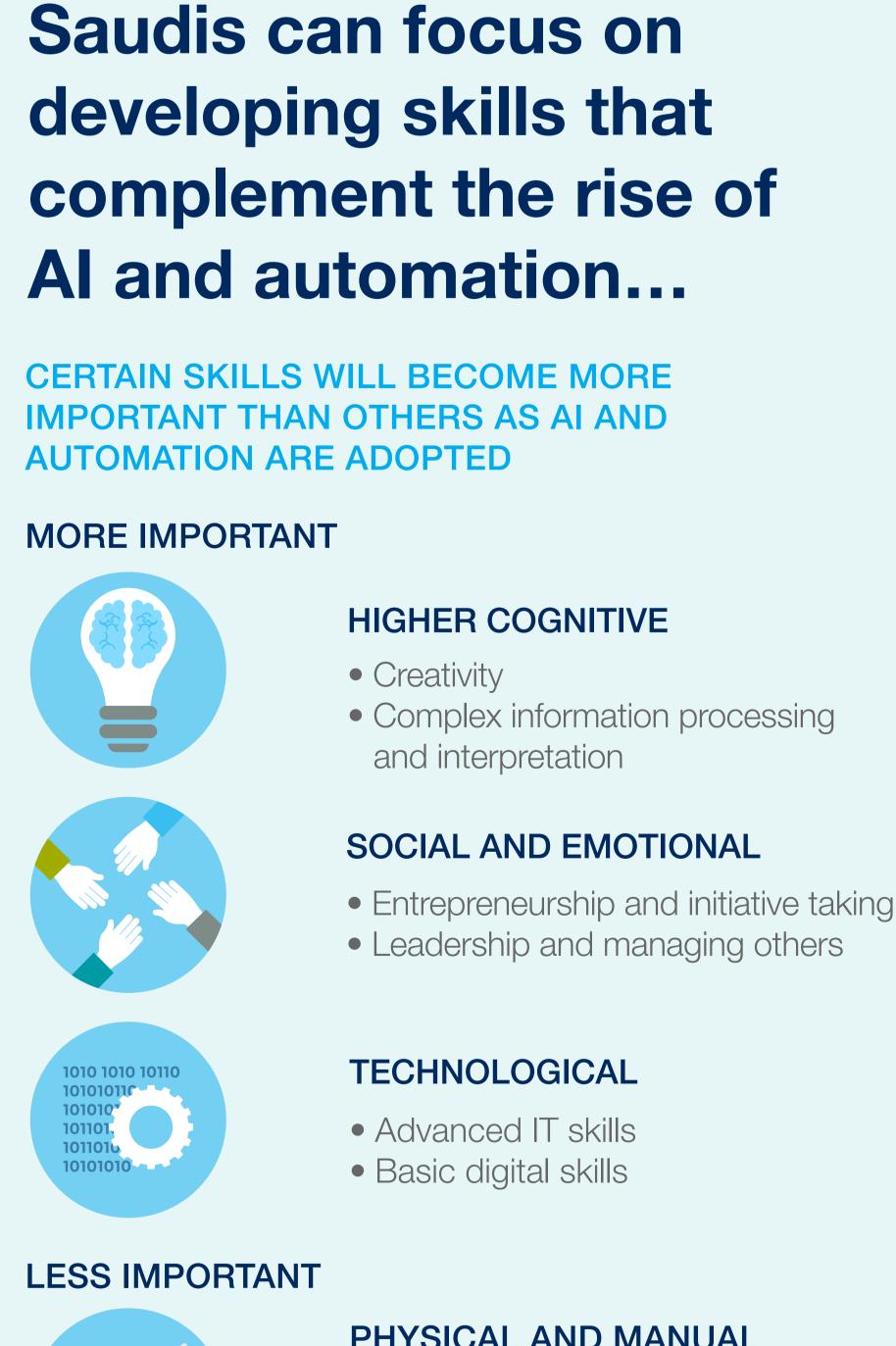
mate today

AUTOMATION POTENTIAL³

BY OCCUPATION IN KSA

activities are more difficult to auto-

tial to be automated today



currently demonstrated technology

Basic data input and processing

Basic literacy, numeracy, and

communication

PHYSICAL AND MANUAL General equipment operation and navigation Inspecting and monitoring **BASIC COGNITIVE**

tionals aged 17+ with summer internships and training programs

initiatives

Saifi

connects Saudi na-





courses to help

Saudis develop

work skills

To learn more, read our report

- "The Future of Jobs in the Middle East"
- SOURCE: • James Manyika, Susan Lund, Michael Chui, Jacques Bughin, Jonathan Woetzel, Parul Batra, Ryan Ko and Saurabh Sanghvi "Jobs Lost, Jobs Gained: Workforce Transitions in the time of Automation", McKinsey Global Institute Report, December 2017.

The government offers

support through several

in KSA and sponsors overseas studies

supports Saudi stu-

dents in finding jobs

- McKinsey Global Institute analysis, Jan Peter aus dem Moore, Vinay Chandran, Jorg Schubert "The Future of Jobs in the Middle East", January 2018. McKinsey Global Institute analysis • Jacques Bughin, Eric Hazan, Susan Lund, Peter Dahlstrom, Anna Wiesinger, Amresh Subramaniam "Skill

Shift: Automation and the Future of the Workforce", McKinsey Global Institute Report, May 2018.

Ministry of Education in Saudi Arabia, Human Resources Development Fund - KSA