

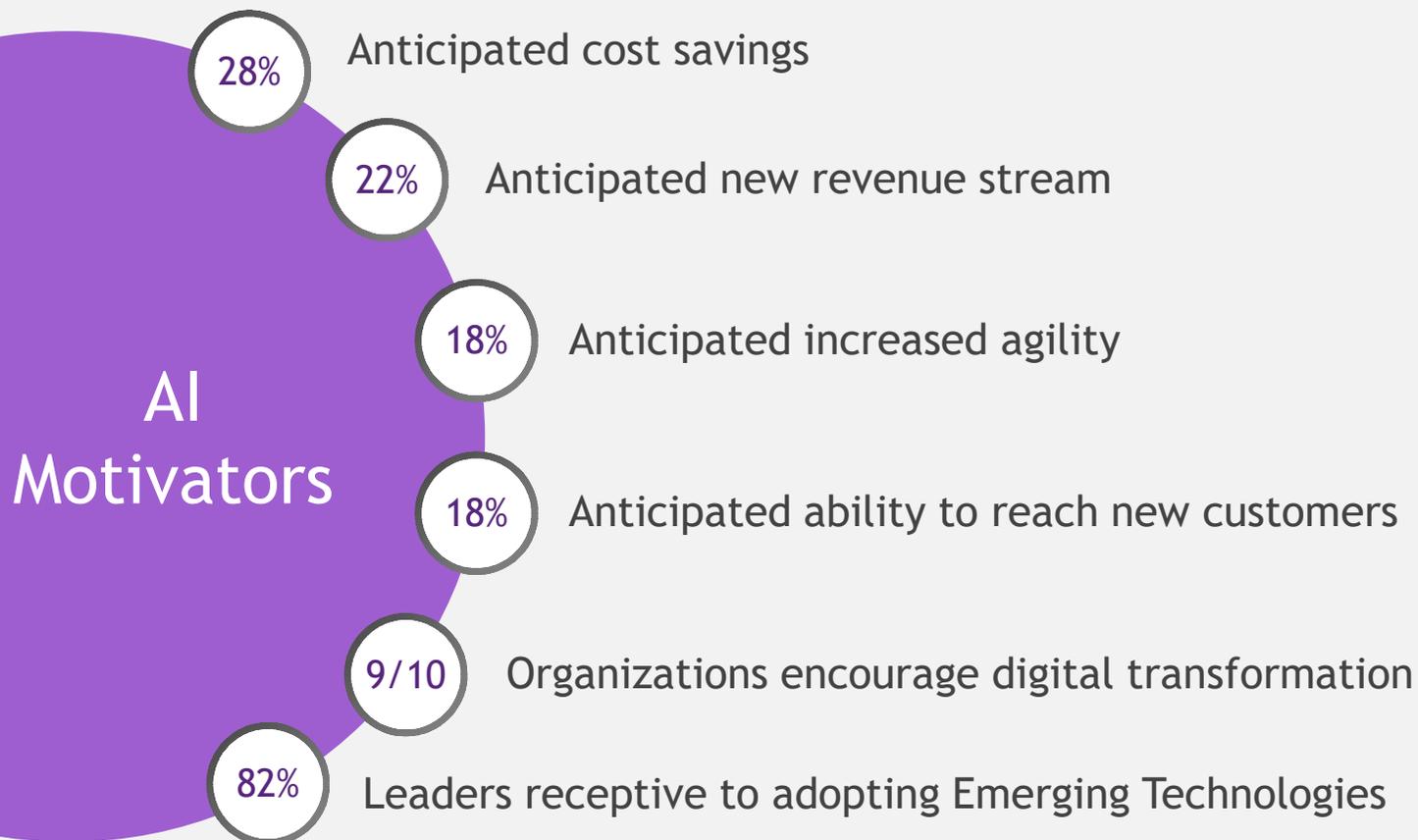
Artificial Intelligence vs Human Factor

Panel discussion

3 objectives for today

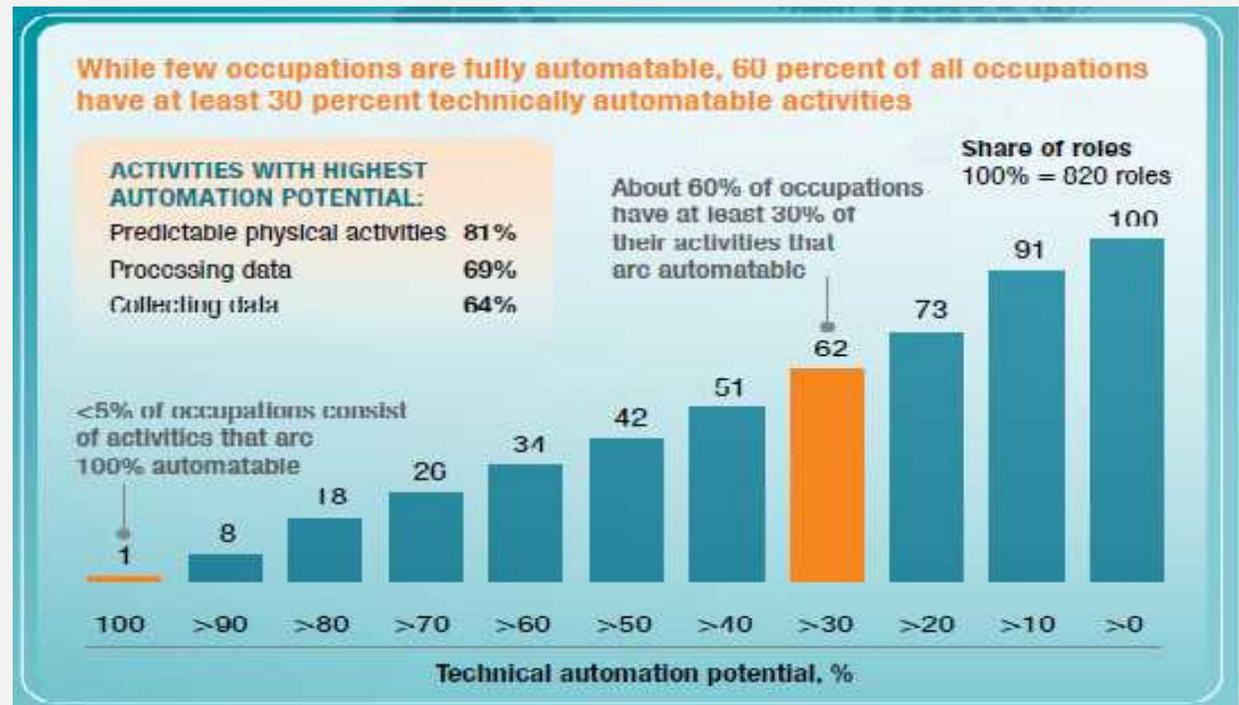
- 1 Present advantages of AI, underlying technologies, solutions and expert systems
- 2 Analyze current and potential AI applications
- 3 Discuss how human factors can be effectively used to embrace AI

Why to embrace AI and related technologies?



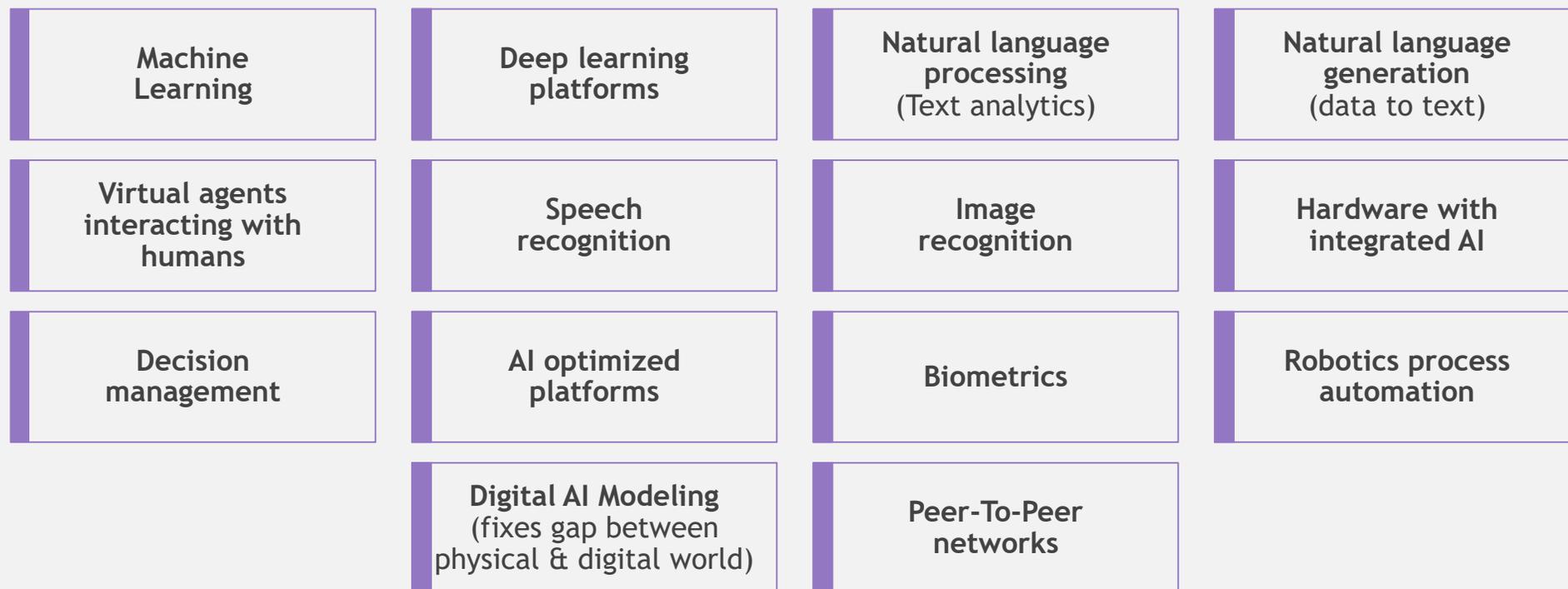
Source: www.isaca.org/digital-transformation-barometer

60% of jobs have at least 30 percent automatable activities



Source: <https://www.mckinsey.com/featured-insights/digital-disruption/harnessing-automation-for-a-future-that-works>

Common underlying AI Technologies are evolving rapidly...



...finding fast-growing applications in key industries



Healthcare Life Sciences

Drug interaction

Cancer detection

Illness prediction

Drug discovery

Gene mutation

Sanitation



Financial Services

Fraud prevention

Risk management

Investment predictions

Customer service

Digital assistants

Network security



Government Security

Facial recognition

Video surveillance

Cyber security

Satellite imagery

Event prediction

Emergency services



81% of Fortune 500 CEOs believe AI is important for business
\$46 billion Global spending by 2020 on cognitive and AI solutions

Source: ISACA Knowledge Center Research – Innovation Insights; Ref: <https://www.idc.com/getdoc.jsp?containerId=prUS42439617>

AI overpowers human capabilities with increased and scalable productivity...



AI provides route optimization to courier companies



10-20% increase in production - Rio Tinto has deployed automated haul trucks and drilling machines at its mines in Pilbara, Australia



40% energy savings - Google has applied AI from its DeepMind machine learning to its own data centers, cutting the amount of energy used



80% increase in transaction throughput - In financial services, transaction workflows are digitized end-to-end, increasing scalability



AI has high potential to increase road safety, since about 94% of annual car accidents are the result of human error

Source: ISACA McKinsey's report on Harnessing automation for a future that works

AI will have an impact
on the job market

BLUE COLLAR IMPACT

The talk about AI and job displacement

4.6 M

Retail salespeople

4.3 million Cooks and servers

3.8 million Cleaners

2.4 million Movers and warehouse workers

1.8 million Truck drivers

1.2 million Construction laborers

**number of jobs at risk*

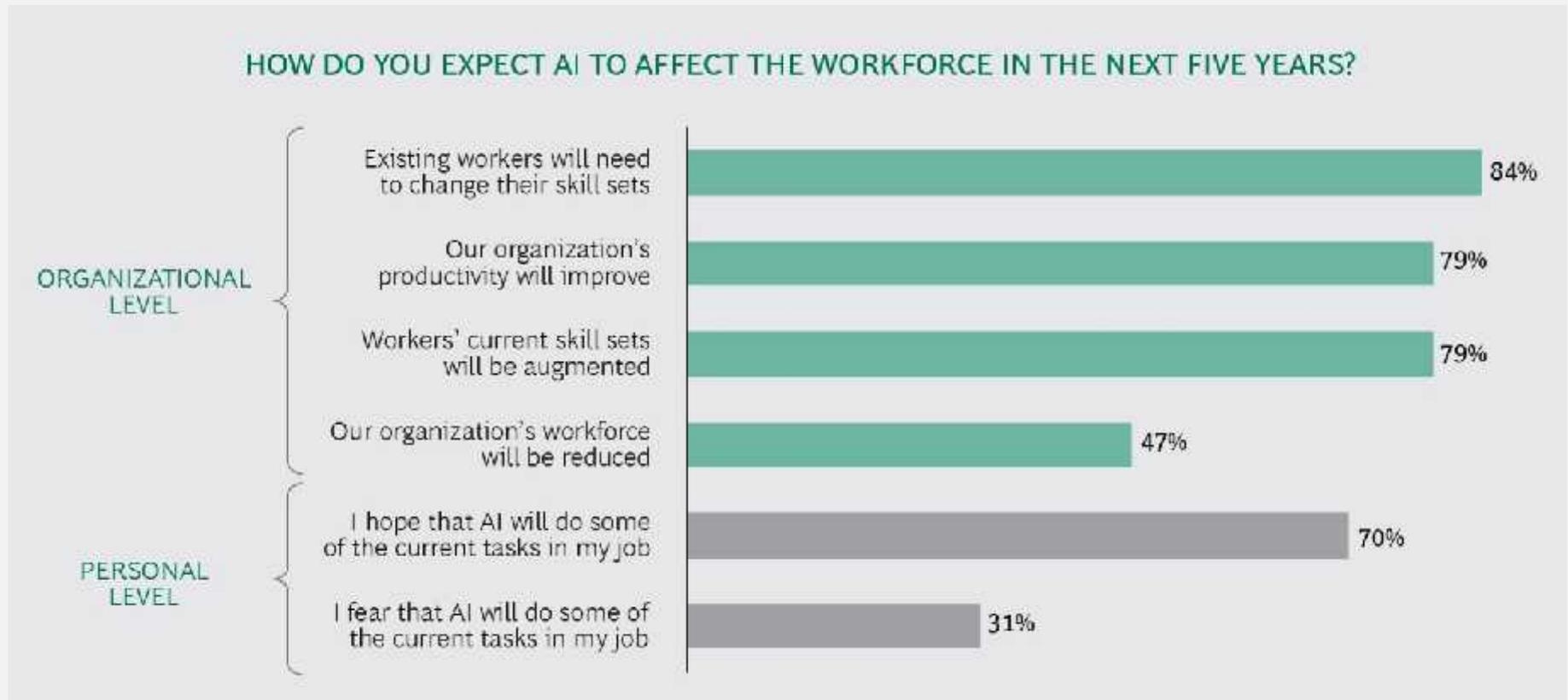
 @cbinsights

 @cbinsights

Source: CB Insights "State of Automation" Report

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Common underlying AI Technologies are evolving rapidly...



Source: Joint BCG-MIT Sloan Management Review survey on the impact of artificial intelligence on business, 2017
Note: Percentage of respondents who somewhat agree or strongly agree with each statement

A recent PWC survey shows that employees have a positive attitude towards AI

78%

Employees would like to work with AI manager if this means more balanced workload

65%

Employees think it would free them from menial tasks

64%

Employees think it would offer them new work opportunities

Source: PWC 2018 AI Predictions

An effective combination of AI and human skills will create best business solutions

Collection of massive dispersed digital data

Organization of massive dispersed data to unlock valuable insights

AI is already a key driver of digital transformation across a wide range of sectors

Digitization will be driven by our ability to adopt AI

AI enables shifting business strategy to a customer-centric model

Individuals can learn and practice AI programming skills



Thank you