Navigating the digital revolution

Businesses need to ready themselves for further disruption as the potential of digital technology is increasingly realised. BY FRANCIS KAN

HETHER in the workplace HETHER in the workplace or the home, digital tech-nology has permeated al-most all aspects of our lives. Yet, experts asy the revolution has only just started as more powerful tools emerge to disrupt veral key digital megatrends that for several vears are now starting jobs and businesses. S

Jobs and businesses. Several key digital megarends that have been in the making for several years are now starting to make their presence felt across a wide swathe of indus-tives. These include the merger of business analytics with Artificial Intelligence (AI), uitra-fast fifth-generation (5G) mobile networks, and the mainstream adoption of Inter-net of Things toOT solutions. Knowledge-intensive sectors such as accounting and financial services are strong candidates for diszuption by these key technologies. In the finance and accounting function, for instance, technology will replace much of the tedious and labour-intensive work of mining and analys-ing data. ing data.

Ing data. These low-end services can be replaced by self-service platforms or will become commoditised functions, espe-cially when technology enables accountants to tap dir-edly into client data flow for accounting and audit pur-poses, among others. The use of data analytics tools will also allow accountants to add value by providing richer in-sights to their clients, while helping them to keep costs down at the same time. down at the same time.

"With the rapid advances in technology, we are already seeing how technology and artificial intelligence can sub-With the rapid advances in technology, we are already seeing how technology and artificial intelligence can sub-stitute and complement certain processes in the profes-stional services. Highly complex tasks and processes can be simplified through technology and there will be signi-ficant impact on research and analysis processes. The use of knowledge sharing models will also become a common practice, says Philip Yuen, chief executive officer, De-lottes South-east Asia and Singapore. The title blockchain technology as another megatrend that has the potential to shift the nature of the accounting profession, as it has the ability to automate accounting processes in compliance with regulatory requirements. Auditors could leverage blockchain to automatically verify a large potino of the most important data behind a company's financial statements. "As a result, the cost and time necessary to conduct an audit would decline considerably, and auditors could nechanisms," explains Mr Yuen. **CONSUMER PREFERENCES**

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The groundwork for today's digital megatrends was laid as far back as the 1980s. Back then, "Expert Systems" – a pillar of the AI domain – was touted as a potential replace-ment of experts such as auditors and actuarists. But pro-gress in that AI solution was hampered due to the lack of extensive data and ultra-fast computing. Rapid advancements in technology over the past dec-ade, however, mean that the promise of AI technology to replace human experts is now finally being realised. "That scenario has changed and we can expect that this time, the likelihood of replacement of knowledge-based folge, especially those where business rules can be codi-fied, will happen – not if but when. My prediction is within the versar with disruptions in financial services, account-

fied, will happen-not if but when. My prediction is within five years with disruptions in financial services, account-ing and audit," says Patrick Thng, senior lecturer of inform-ation systems and co-director, Institute of Innovation & En-trepreneurship, Singapore Management University. An example is the use of IoT, AI and analytics techno-logy to generate dynamic, on-demand national economic forecasts. Says Mr Thng: "It is no longer the time-delay-after-the-event reporting that we have been used to."

used to." Digital technology is also having a significant impact on how companies analyse and understand consumer preferences, especially those of the digitally-immersed millennial generation. Joerg Niessing, affiliate professor of marketing, INSEAD, said that digital tools are key ena-blers in helping brands engage their target consumers. "Organisations need to find out what customers really



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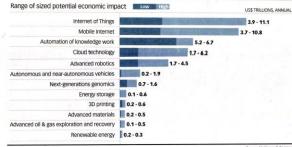
drive intense competition as they pressure the industry and governments to deliver anytime and anywhere information about themselves and unmet social needs with a high dose of security protection."

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Patrick Thng, senior lecturer of information systems and co-director, Institute of Innovation & Entrepreneurship, Singapore Management University

The economic impact of digital technology



want and not what they just need. The realignment of in-vestments into technologies should help businesses to create more value by engaging target customers more ef-fectively at important touchopoints in the entire customer experience lifecycle," he says.

However, while customer centricity is becoming more ortant, many organisations have missed this point in their rush to go digital.

their rush to go digital. According to a study by the IBM Institute for Business Value last year, there is a disconnect between the aspects of the digital experience that executives think are import-ant to customers and what customers actually care most about. In a survey of 600 executives and 6,000 con-sumers, two thirds of consumers felt the experience of ex-ploring products using virtual reality, interactive digital

displays or voice commands was disappointing. As a result, they decided not to adopt these products for future

ult, they declude not to aways takes provide the use. "The future will belong to firms that identify customer pain points and provide digital solutions where they mat-ter most. This requires rethinking the customer journey, drawing out customer journey maps and working with multiple parts of the business to provide the most relev-ant solution to those pain points," says Mr Niessing. DIFFERENT MINDSET

Much of the digital efforts by businesses will be focused on millennials who have grown up in a predominantly di-gital world. Branded Generation C (for 'connected'), the use of computers, the intermet, mobile devices and social networking is ingrained in their nature.



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"Generation C are prolific digital consumers. They will drive intense competition as they pressure the industry and governments to deliver anytime and anywhere in-formation about themselves and unmet social needs with a high dose of security protection," says Mr Thug. Taking a broader view, experts believe that the signifi-ratin increase in digital usage brought about by new techno-logies has helped to drive economic growth, and could lead to job and earnings growth over the long run. This has come about as digitalisation enables new ways of communicating and socialising, creates new busi-ness models and industries, and provides more efficient ways for companies and worker to operate. "Generation C are prolific digital consumers. They will

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These models and more starts on performance models and context operate. For instance, the adoption of cloud solutions enables remote working, while the ability to access products through websites saves time for people and opens up in-ternational markets for companies. This in turn increases productivity and opportunities for businesses, making them more competitive at home and abroad. Having access to global markets also increases the in-centives for companies to innovate and introduce new ser-vices. "With increased market activity, the number of Jobs and earning is expected to increase," says MY ten. However, Mr Thng argues that those hoping to succeed in the digital economy must be prepared to adopt a radic-ally different mindset. "The winners in the new economy will be those that have been positioning themselves to ad-agt, future-sense and dare to-experiment mindsets – very few and far in between."



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