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Trends shaping our future – 2030 and beyond



The Sun, Malaysia

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THETHER we have noticed or not, there are persisting forces shaping the world around us. These megatrends enable us to consider our world five to 10 years - or more - into the future to help us make more-informed decisions now. Although events like the Covid-19 pandemic will cause short-term headwinds to some key trends, and tailwinds to some key trends, and tailwinds to

events like the Covid-19 pandemic will cause short-term headwinds to some key trends, and tailwinds to others, these megatrends are expected to persist into the future.

For a fast-moving economy like Malaysia, with a projected gross domestic product (GDP) of RM3.4 trillion by 2030, as part of the Shared Prosperity Vision 2030, keeping an eye on these trends will enable businesses to better shape their transformation strategies.

The pandemic is further proof of Malaysia's quick adaption to technology, as we quickly adapted new technologies in healthcare, education, and other sectors to respond to the crisis. As we continue our journey towards further economic growth, the trends that we have observed now will play a major role in how businesses transform over the decade. role in how businesses transform over the decade

So, what will the world look like in 2030 and beyond? 3M is exploring this question and the impact enduring megatrends could have on our ever-evolving world, as well as the role we have in adapting to and influencing them influencing them.

Technological breakthroughs
Technology has long been a measure
of human advancement and power.
Today, the next technological

Today, the next technological revolution is well under way, and the world is rushing to adapt to the rising speed of development.

The coronavirus is driving the acceleration of technology adoption and breakthroughs. Artificial intelligence has already played a pivotal role in bringing the development and rapid adoption of technologies such as quantum computing, zero-carbon battery development and personalised medicine.

With a surge of 5G infrastructure

With a surge of 5G infrastructure and the maturing of key technologies, the world of the next five years is likely to change even faster than the last.

As this infrastructure gets built out, 5G and AI-enabled technologies will begin to become standard operating practice. In fact, the first fully autonomous vehicle

fully autonomous vehicle ecosystems may start to appear in countries like Singapore, a country uniquely situated to execute smarticity infrastructure at scale.

A 5G infrastructure will also see expansion in e-commerce, and retail will see dramatic continued disruption while the industry evolves into an omnichannel model. Beyond

retail, disruption is likely to occur wherever technology or shifting consumer preferences change the metrics of competition. With such unprecedented growth

in technology, increased regulation is likely to occur globally in the areas is likely to tech growary, antitrust and inequsality. For companies, that momentum drives the need to prepare for regulations internally and seek out opportunities to demonstrate ethical leadership.

Changing climates and resources

Concerns related to climate change will continue as previous measures to reduce carbon emissions have not

to reduce carbon emissions have not taken a strong enough hold to appropriately mitigate the continued average global temperature increase. In this environment of increasing threats, partnerships regarding climate change between the public and private sectors will also continue, with multinational companies setting many more stringent goals for curtailing emissions due to their need to operate across multiple regulatory spaces.

As society and industry continue to see the need for resilient electric grids to protect against increasing natural disasters and intense events, and distributed weather generation and storage models will begin to more significantly compete with the traditional hub-and-spoke model. These systems are expected to experience rapid growth in the next five years. While consumer awareness and

While consumer awareness and positive sentiment around recycling has grown, the economic driver of profiting from selling recycled materials moves the market more forcefully than consumer preference. Recycling of precious and base metals will continue and manufacturers will look for ways to repurpose waste created during production process. The industry can expect a similar optimisation within the food supply chain as consumers become more aware of waste generation and management.

Shifting demographics and social change

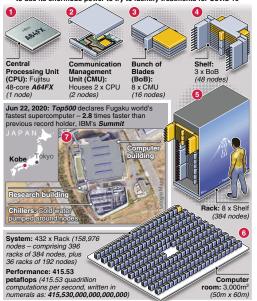
Demographic and social change is foundational, affecting all other trends. People's relationships to society, community and society, community and government evolve at different rates and in different ways around the globe, but common trends still

emerge.

As the global urban population surpasses five billion by 2030, urbanisation will continue to shape economies and societies. Urbanisation has the potential to become a positive transformational force – properly planned and managed, it can improve

Supercomputer to seek Covid-19 cure

The world's fastest supercomputer, Japan's \$1.2 billion Fugaku, is to use its enormous power to try to identify treatments for Covid-19



Despite being unfinished, Fugaku is already studying how respiratory droplets travel inside trains with open carriage windows. When completed in 2021, it will try to identify potential drug treatments for Covid-19

employment opportunities, energy efficiency, public health, education and quality of life.

However, with rapid urbanisation, we will see challenges in finding the right infrastructure – both physical and technological – and services to meet the demands of a growing urban population.

Increasing urbanisation will also impact the way we work. Workers are likely to feel financial strains in the years to come, from both a continuation of preexisting trends and as repercussions of the Covid-19 crisis. Workers in countries with large youth bulges will continue to struggle to find and maintain quality struggle to find and maintain quality employment. While the gig economy is projected to grow, a great deal of future expectations will be determined by the length and depth of the fallout from the Covid-19

The adoption of artificial intelligence, automation and other Industry 4.0 innovations has the potential to change work for the better, improving business operations, enabling human

counterparts to make better decisions and automating tasks to free up workers to be more creative. Trends in alternative work will continue as workers seek flexibility and employers seek access to specific skills. Companies are likely to continue to expand the use of alternative workforces in functions beyond IT, such as operations, marketing, R&D, HR, sales, customer service, finance and supply chain. service, finance and supply chain.

The rebalancing world

The world is entering another decade of geopolitical and economic change that will certainly rebalance change that will certainly rebalance the world's influencers. The recession will profoundly impact the strategic investment landscape over the next five years. Those companies and countries who can respond to this downturn quickly and strategically will emerge positioned to thrive, whether in supply chains, infrastructure or other strategic investments.

In the wake of global supply disruption by Covid-19, companies will accelerate their pace to diversify

supply chains, both to align to national interests and to maintain viability when future crises hit. Some migration of manufacturing jobs will continue (to Eastern Europe and Southeast Asia, for example) but is unlikely to result in new general manufacturing hubs. Infrastructure investments have the potential to create economic growth and could be an important piece of the economic recovery equation for the current crisis.

current crisis.

In wake of weakening international relations and fallouts international relations and fallouts with international organisations, regional ties are expected to strengthen as trade between regions continues to thrive. Regional structures will step in to maintain cross-border efficiencies that have led to economic and supply-chain stability in previous decades.

The rise of the individual
The rising influence of individuals is transforming economies and societies. The demands of personalisation and shifting corporate expectations have put exceptional pressure on companies to adant. leaving many of them

to adapt, leaving many of them vulnerable to disruption by new technologies and business models.

Personalisation will be a key differentiator of products and services over the next five years.

Personal health will be one of the categories that consumers will care Personal health will be one of the categories that consumers will care about the most. Over the next five years, focus will shift from reactive health care services to proactive preventive services and

reventive services and telemedicine is expected to become a primary means of contact with the health care system.

Productivity will be another critical area for personalisation, with augmentation of human capabilities advancing in numerous ways. In the next decade, augmented reality (AR) products will launch with the potential to become as ubiquitous as cell phones today and with significant impacts on how consumers will shop, work and interact with others.

Digital platforms will continue to be a megaphone for consumers,

be a megaphone for consumers, corporations and governments. Organisations that leverage these platforms to collect feedback and increase communication transparency with their stakeholders will gain greater control over public narratives and might just find inspiration for their next big product or campaign

inspiration for their next big product or campaign.

With rampant digitalisation and increasing risk of misinformation, ethics will be an issue that will gain importance in the next decade, and experts are predicting the rise of a new CEO – chief ethics officer.

This article was contributed by 3M Malaysia country leader GT Lim.



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SUMMARIES

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