

Panasonic

TOUGHBOOK

Future Technologies and the
Impact on Mobile Workforces
and their Devices

intel

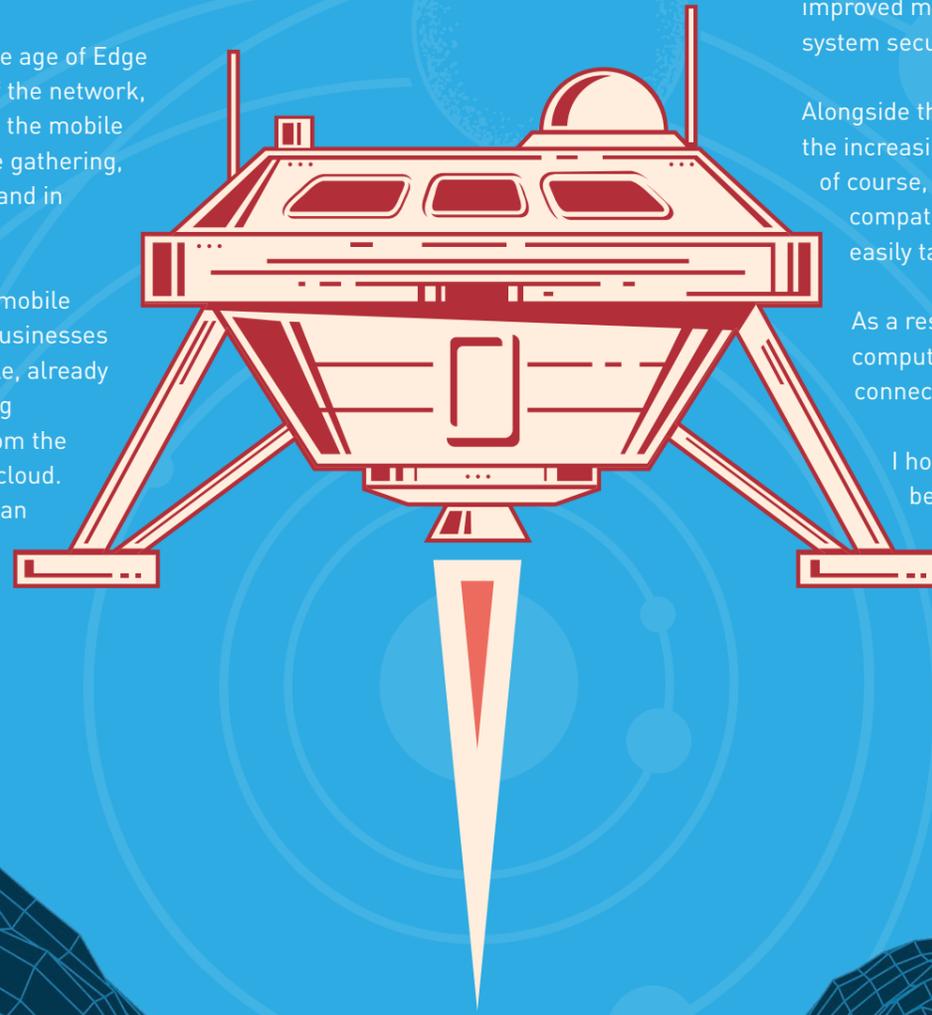


Foreword

Although a wide range of exciting future technologies are being watched closely, there is clear evidence from this research that businesses are adopting and looking to capitalize on the benefits of Big Data, the Internet of Things and Sensor technology for their mobile workforces.

As these technologies are deployed, we move ever closer to the age of Edge Computing, where processing power is required at the edge of the network, much closer to where data is collected. This means the role of the mobile workforce computing device becomes even more critical in the gathering, analysis and communication of data, the provision of services and in improving productivity.

Panasonic Canada Inc. (PCI) is focused on evolving its rugged mobile computing notebooks, tablets and handheld devices to allow businesses to benefit from these technological leaps. We have, for example, already integrated sensor technology, such as heat and special sensing technologies into our devices to enable data to be collected from the field and seamlessly transferred into backend systems or the cloud. Our devices, with their extensive range of ports and sensors, can be used as IoT devices or to connect, monitor and maintain IoT equipment. In the Big Data area, we continuously upgrade the communication and processing capabilities of our rugged mobile devices to ensure they have the capability to meet these needs.



Importance of security

Buyers highlighted device and data security as the key improvement area in mobile computing devices over the next five years. As the importance of Android grows in this market, PCI is responding to these needs with improved management functionality and increased device and operating system security with Productivity+.

Alongside the adoption of these future technologies, buyers also predicted the increasing need for rugged devices for their mobile workforces. And, of course, the ever constant need for ergonomic design and long-term compatibility of peripherals will be required to allow workforces to easily take advantage of these future technologies.

As a result, PCI will continue to develop a range of rugged mobile computing devices that are increasingly more powerful, more connected and with a widening range of integrated applications.

I hope you find our latest research valuable and that it helps you to better anticipate your future mobile workforce needs.

SUSAN BLACK

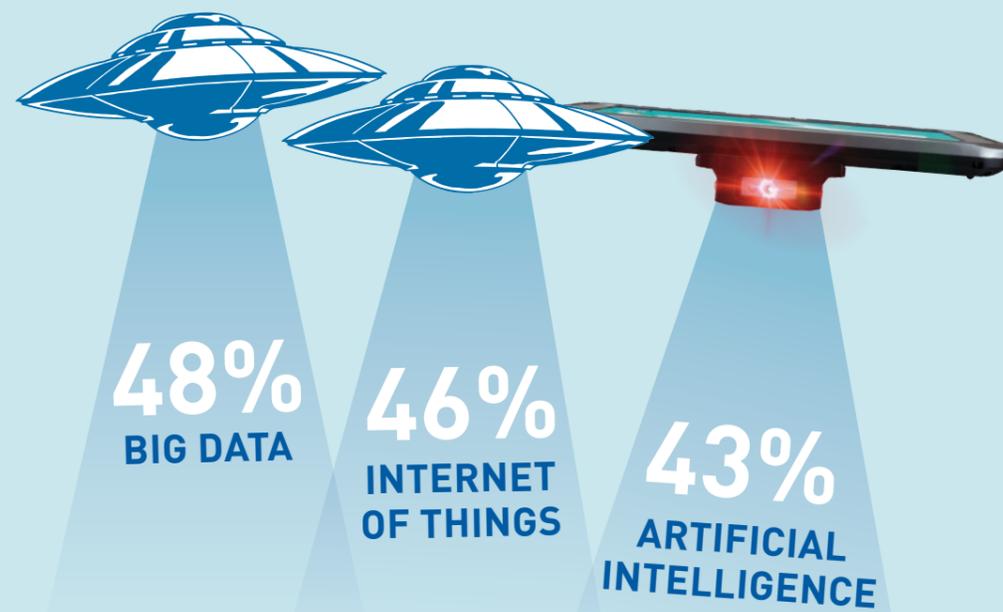
General Manager Enterprise Solutions Division
for Panasonic Canada Inc.



Executive summary

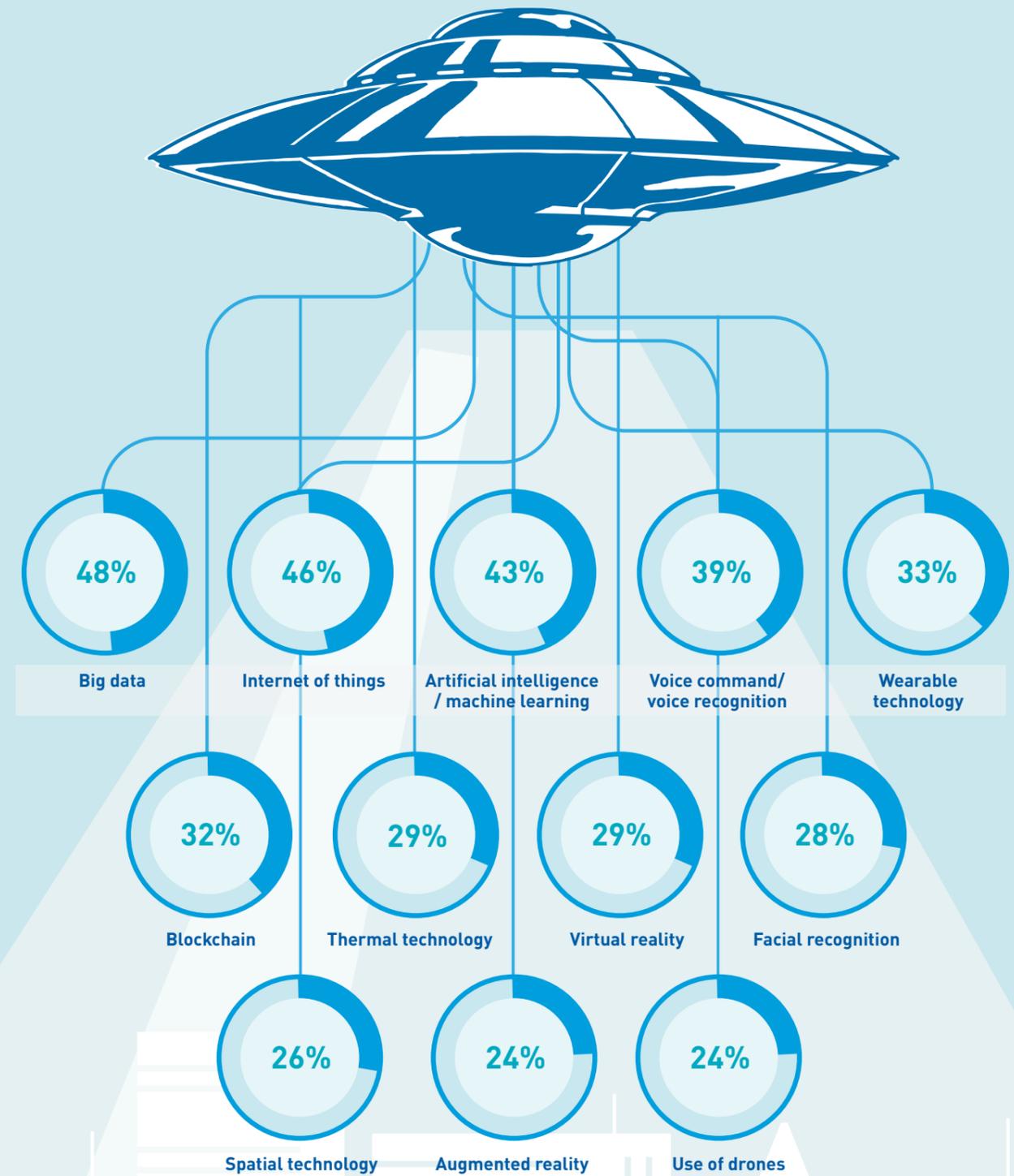
According to mobile technology buyers, Big Data, the Internet of Things (IoT) and sensing technologies will be the trends most impacting mobile workforces in the near future. The independent research, carried out by Opinion Matters and commissioned by Panasonic Toughbook, questioned 250 mobile technology buyers for businesses in Canada.

When thinking about the immediate future (i.e. the next 12 months), how would you rate the importance of the following technology trends for your organization in terms of their use by your mobile workforce?



Technology trends

When asked to rate the importance of technology trends for use by their mobile workforce, buyers rated Big Data (48%) the most important, closely followed by IoT (46%) and Artificial intelligence / machine learning (43%).



The main drivers for the technologies were improved business efficiency and productivity.

What do you think would be the main reasons for the mobile workforce in your organization to have this kind of technology in the immediate future (i.e. next 12 months)?



BIG DATA

To improve business:



BLOCKCHAIN

To improve business:



INTERNET OF THINGS

To improve business:



AUGMENTED REALITY

To improve:



ARTIFICIAL INTELLIGENCE / MACHINE LEARNING

To improve:



WEARABLE TECH

To improve:



SPATIAL SENSING

To improve business:



USE OF DRONES

To improve:



VIRTUAL REALITY

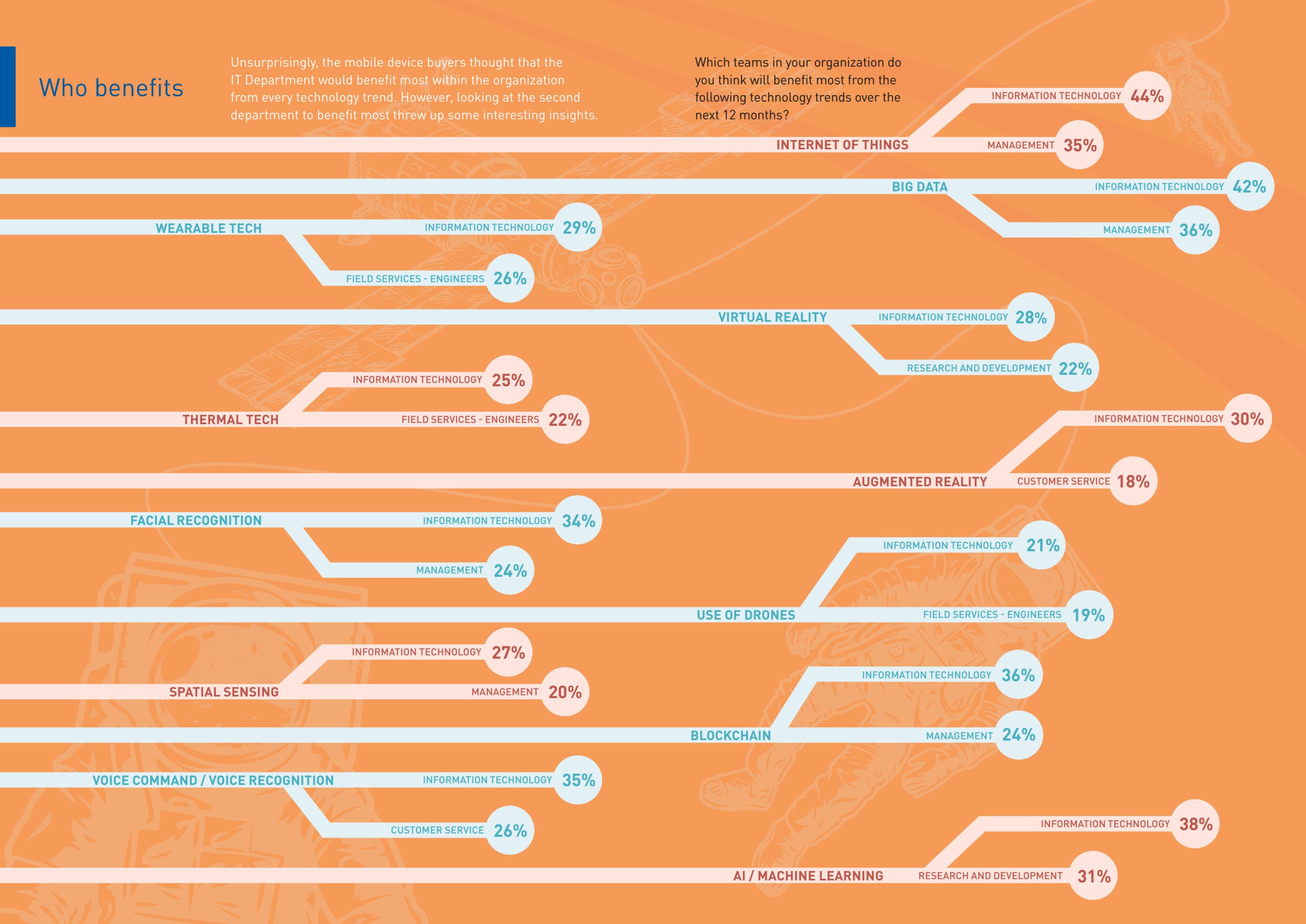
To improve:



Who benefits

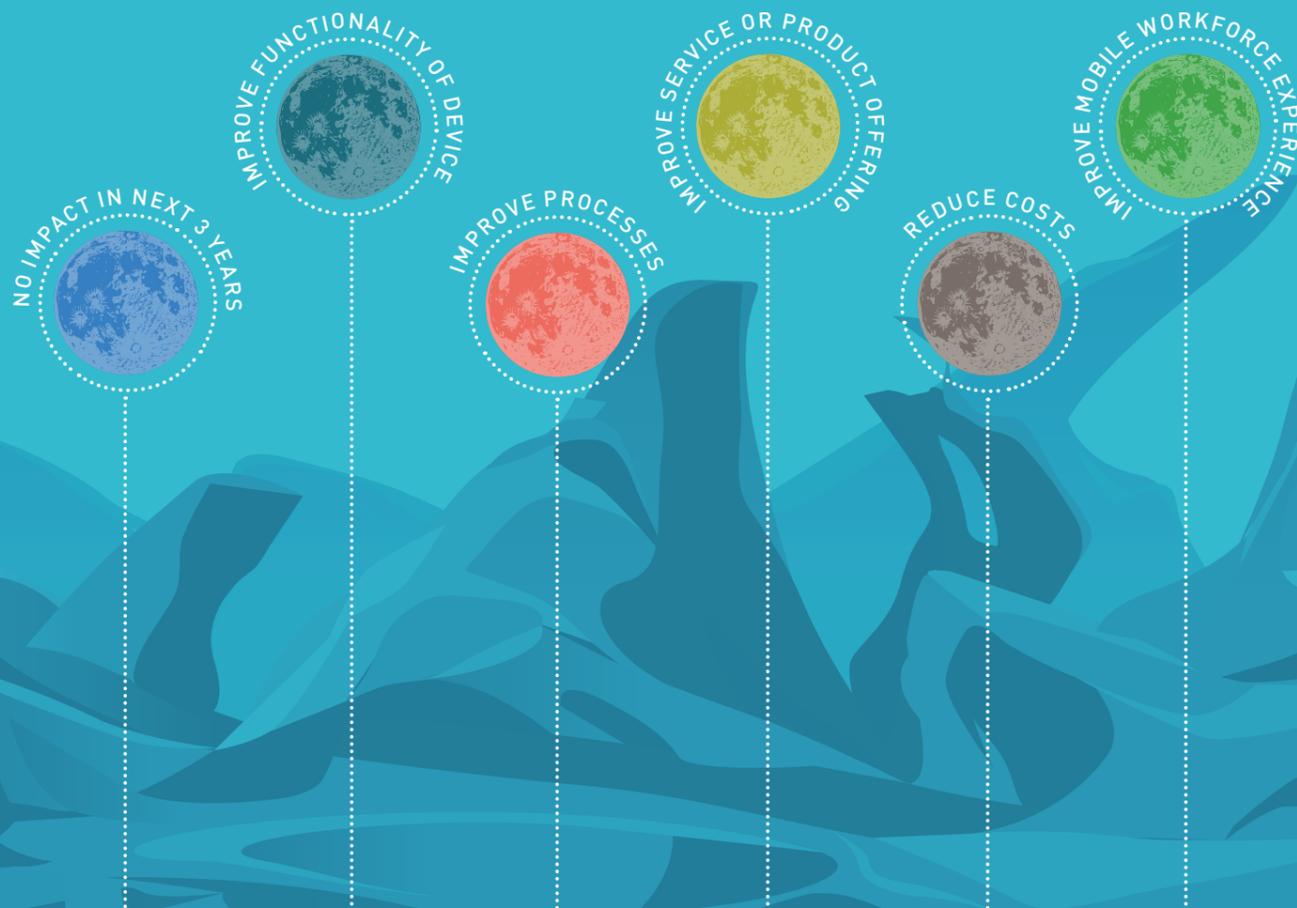
Unsurprisingly, the mobile device buyers thought that the IT Department would benefit most within the organization from every technology trend. However, looking at the second department to benefit most threw up some interesting insights.

Which teams in your organization do you think will benefit most from the following technology trends over the next 12 months?

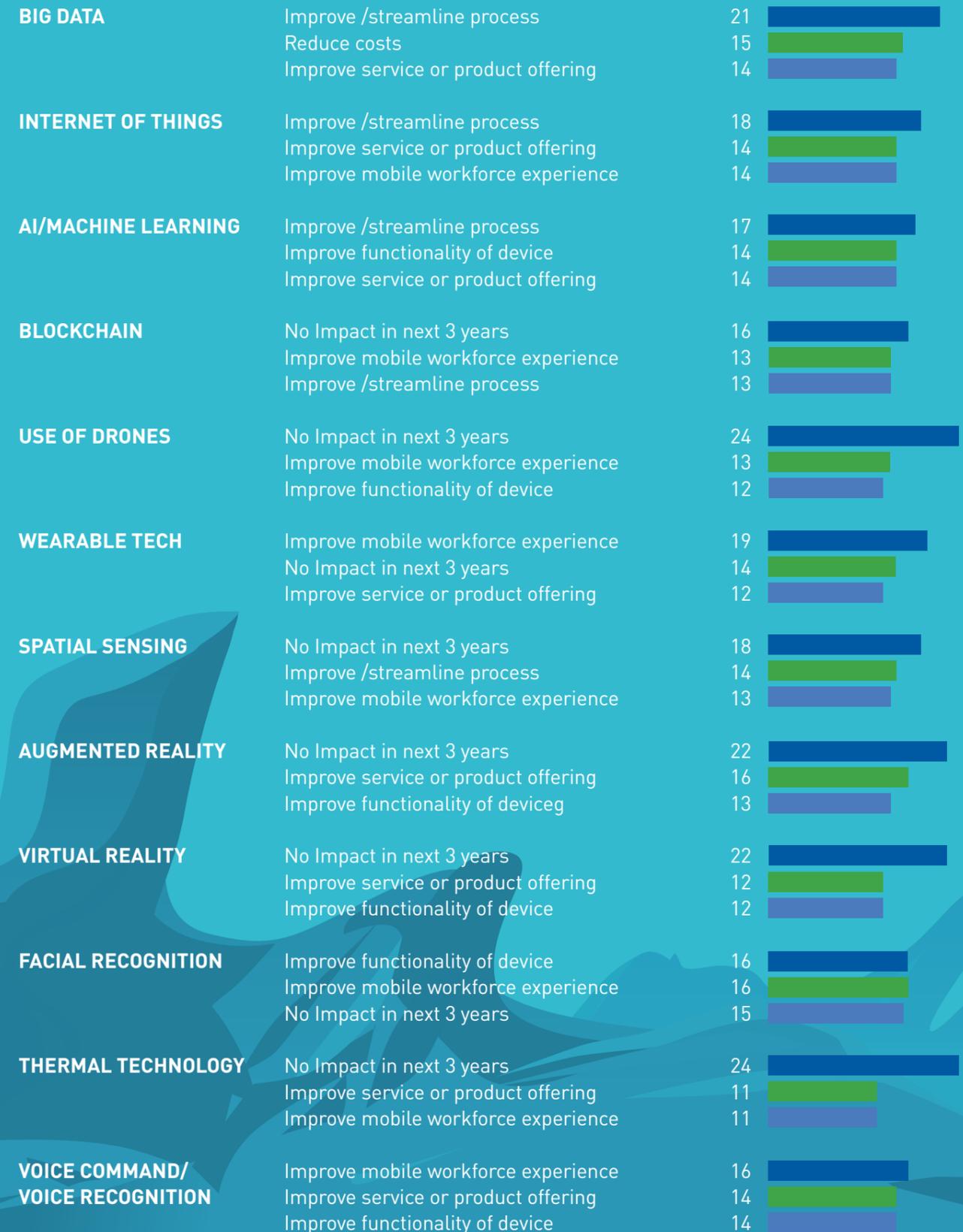


Business benefits

Looking further into the future, over the next three years, buyers could clearly see the impact on their mobile workforces of Big Data to improve processes, reduce costs and improve service offerings. With IoT, they saw the mobile workforce benefits as improving processes, improving service offering and helping to improve the functionality of mobile devices.



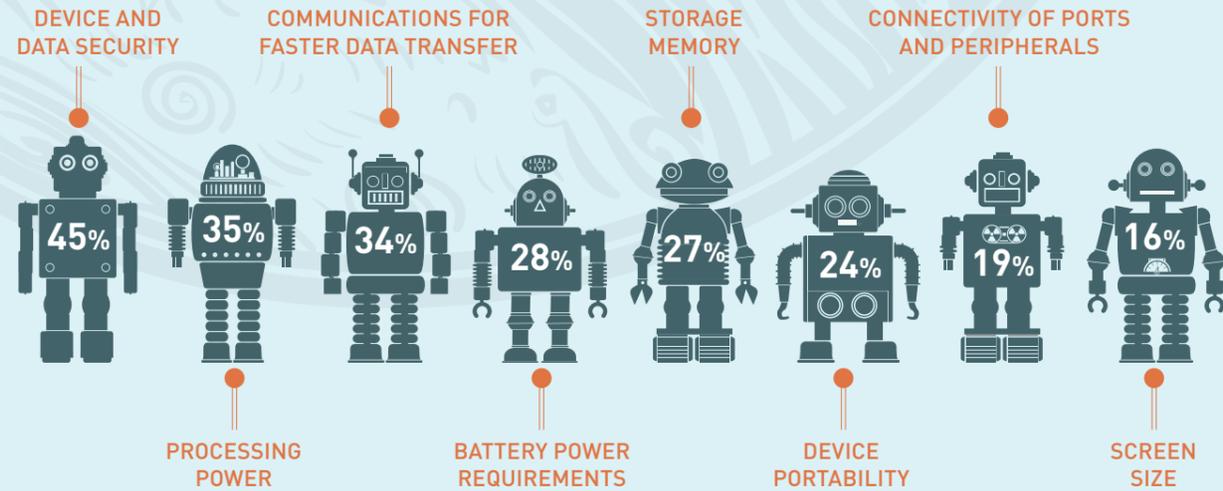
What do you think will be the main impact of each of the following for your mobile workforce in the next 3 years?



Mobile priorities

Considering how mobile devices will need to change over the next five years to take advantage of these new technologies, buyers prioritized improvements in device and data security (45%), processing power (35%) and communications for faster data transfer (34%).

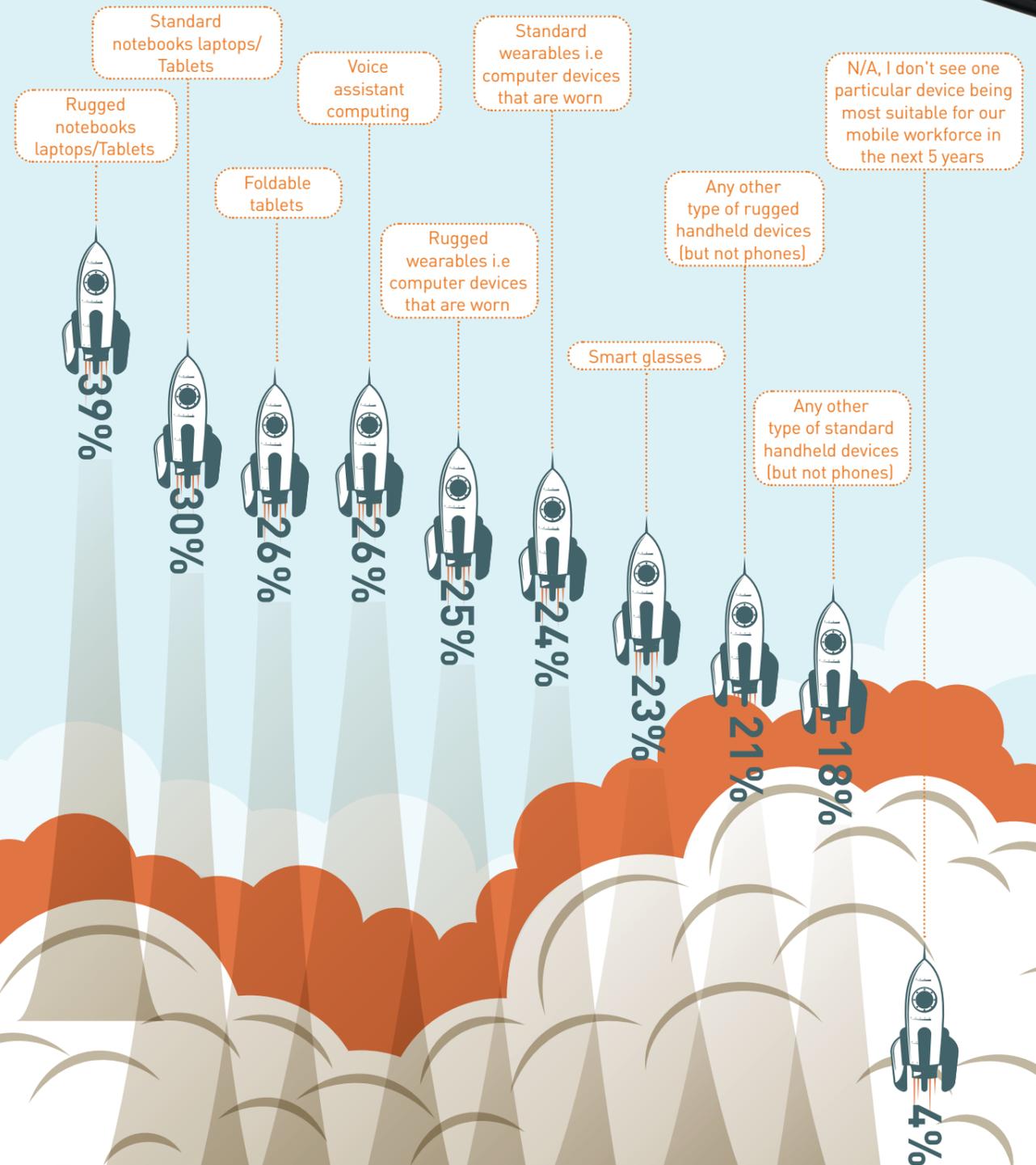
In which of the following areas do you predict your company's mobile devices will need to change most over the next 5 years to take advantage of technologies such as Internet of Things, Big Data, Virtual Reality, Augmented Reality, Wearable technology, Drones and Sensors?



Mobile device buyers also predicted the continued rise of rugged devices as critical tools for mobile workforces.

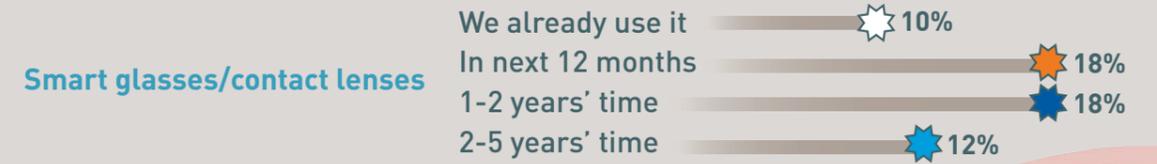
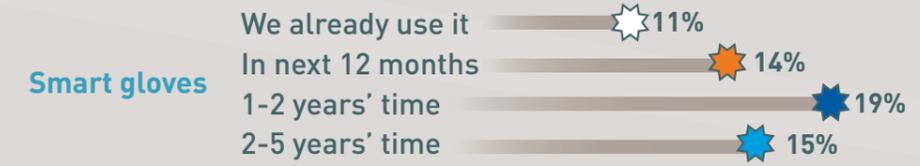
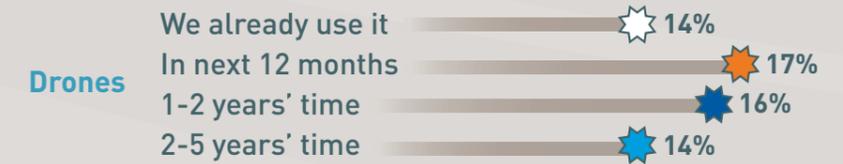
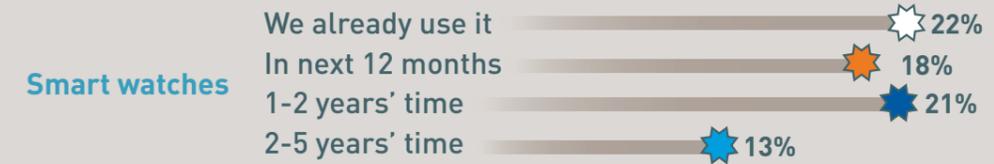
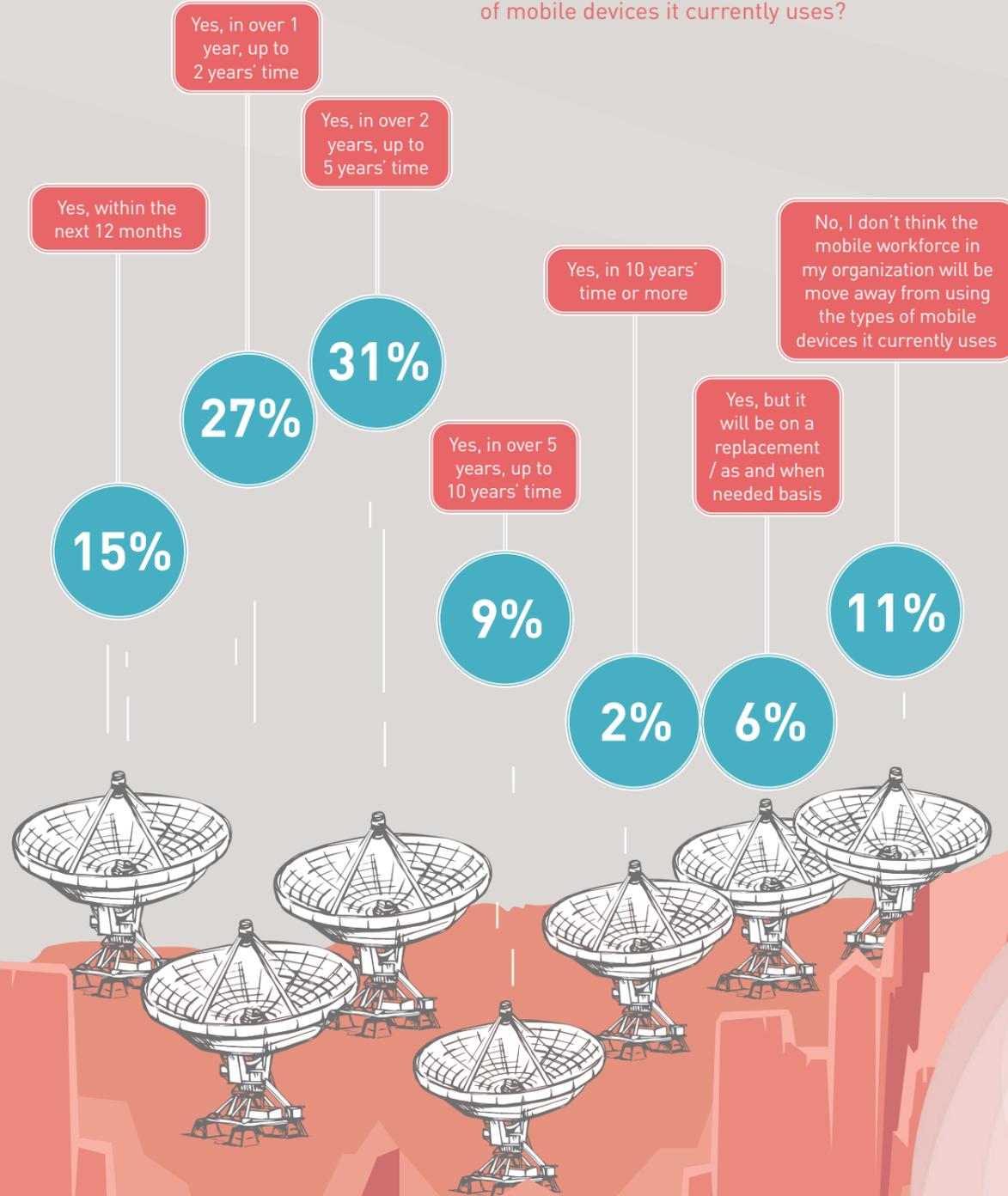


Which type of devices do you see being most suitable for your mobile workforce in the next 5 years?



However, the largest group of buyers did not expect to change the type of mobile devices they were buying until two-to five years out.

Do you think the mobile workforce in your organization will move away from using the types of mobile devices it currently uses?



Smart Technologies

The adoption of smart technologies for mobile workforces already looks well underway. Many buyers said that the implementation of smart watches, wrist bands and drone use had already been completed or was imminently planned for mobile workforces.

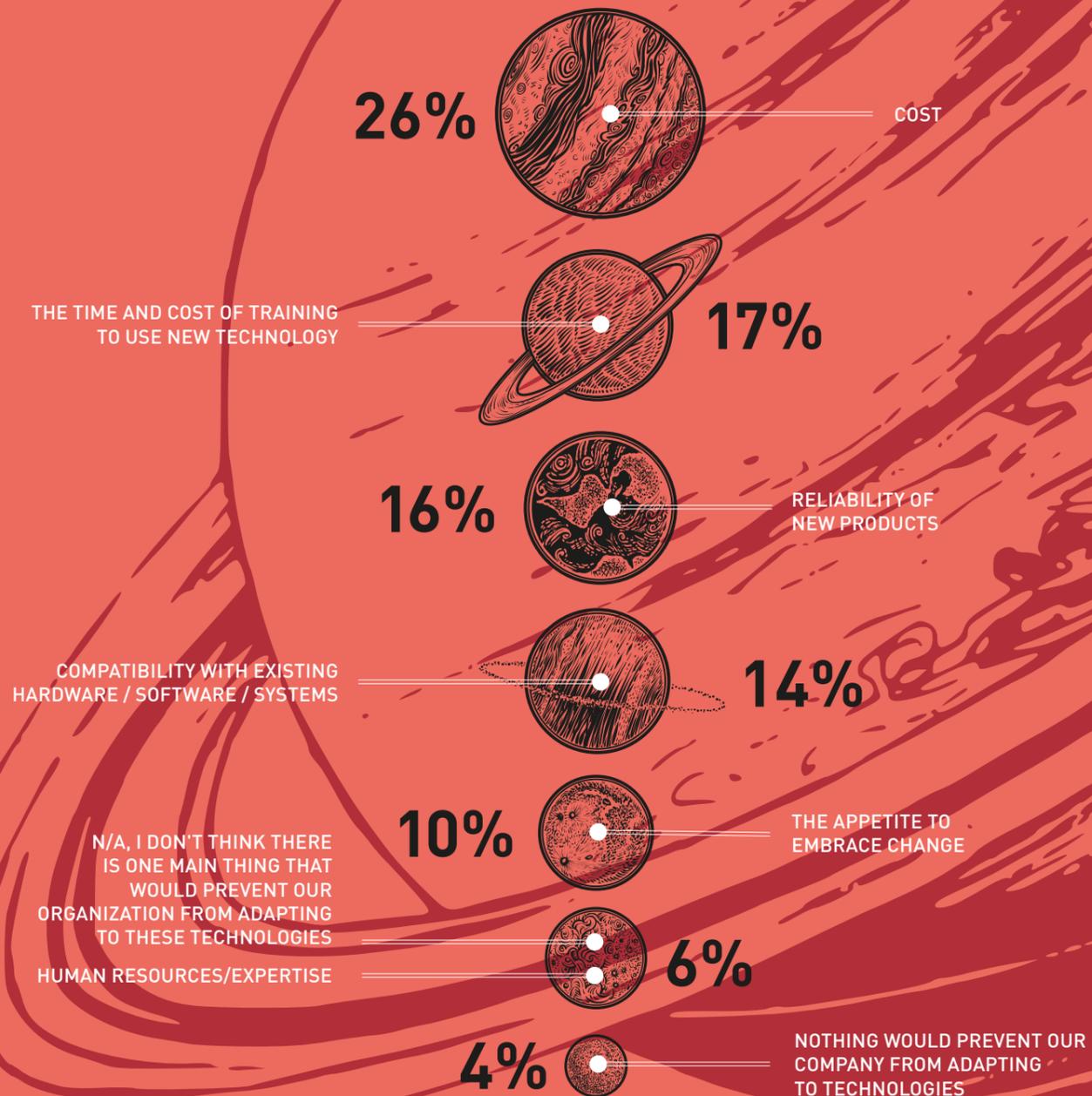
Do you think the mobile workforce in your organization will be using any of the following devices in the future?



Barriers to adoption

Cost and reliability were the biggest issues preventing organizations from adopting new technologies faster.

What do you think would be the main thing preventing your organization from adapting to technologies such as Internet of Things, Big Data, Virtual Reality, Augmented Reality, Wearable technology, Use of drones, Sensor technology?



Panasonic Computer Product Solutions help mobile workers improve productivity with its range of TOUGHBOOK rugged notebooks, business tablets, handhelds and electronic point of sales (EPOS) systems.



Take a look at our full range of rugged devices and resources:
<https://na.panasonic.com/ca/computers-tablets-handhelds>