

Technology Trends to Keep an Eye on Throughout 2022

The technology that will guide business
operations in the new year and beyond

White Paper



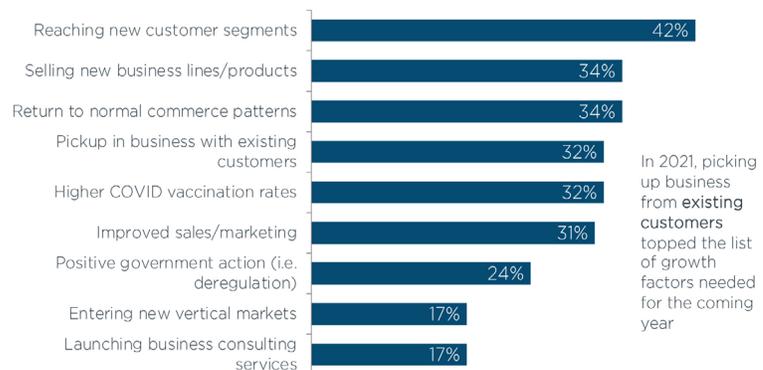
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Introduction

Uncertainty and unpredictability have ruled the past two years, leaving several businesses and employees insecure about their future. As a result, many companies sidelined their broader strategic goals and initiatives as a means to keep afloat. And the immediate priorities became apparent: pay your employees, hold onto customers, keep lights on, and maintain the status quo.

However, history tells us that you can't remain in a bunker forever. Eventually, you'll have to climb out. Luckily, things became a bit better in 2021, and apart from Omicron, all signs point to progress. 2021 provided businesses and communities with a range of practical technological breakthroughs that helped them overcome pandemic difficulties.

Contributing Factors to Ensure Positive Growth in 2022



Source: [CompTIA - IT Industry Outlook 2022](#)

Will 2022 be the same? Only time will tell, but the top technology trends for the new year are sure to be game-changers for various digital businesses. Before we jump straight to discuss the digital transformation trends, let's discuss [how technology affects businesses and other organizations](#).

Industry Overview

In various forms, the line is becoming fuzzy between technology development and its influence on every aspect of life and business. For example, various studies show how tech has paved the way for worldwide economic growth. And companies giving technology a key place in their identity experienced significant growth. Since 2015, these businesses and organizations have contributed more than 50% of the entire market-value growth.

In addition, some 20% of the growth comes from enterprises having tech-led strategies that augment more conventional models. Another report reveals that [technology has a direct impact of over \\$2.0 trillion](#) (10.5% of the United States economic value).

Apart from this, it has a range of indirect impacts. For instance, any software development and IT services job leads to an approximate 4.7 additional job creation and support through indirect, induced, or direct means.

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Also, in 2022, the estimated spending on the global technology industry [will surpass \\$5.3 trillion](#), out of which \$1.8 trillion (33% of the total spending) will be done by the US alone.

Some of the vital technology categories encompassing the US market include:

- Software
- Devices and infrastructure
- IT and business services
- Emerging tech
- Telecom services

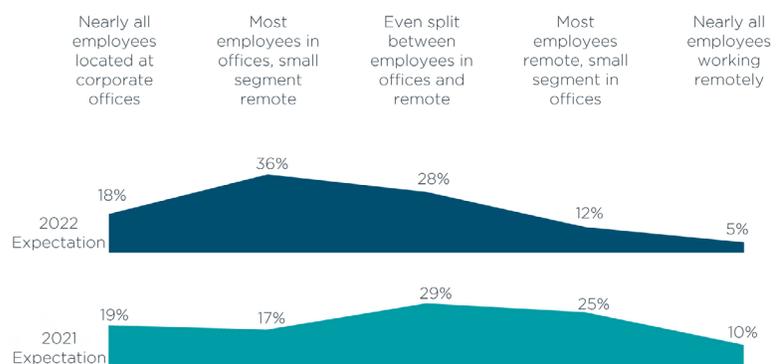
Top IT trends in 2022

Work Shift / Anywhere Operations

Now that we've gone over the impact technology has on businesses and organizations let's explore some of the top IT trends for 2022!

As a result of the pandemic, businesses and other organizations worldwide were compelled to change their workflow. Hence, they shifted to virtual or remote work. Many assumed it was temporary until the outbreak ended. However, remote working has continued even after the COVID-19. IT professionals, for example, in the US saw a considerable shift in the workflow when the Coronavirus outbreak forced [66% of employees \(two-third\) to work virtually](#). Though the numbers are declining with time, there's still a big chunk of the workforce working from home.

Expected Shifts in Workforce Location



Source: [CompTIA - IT Industry Outlook 2022](#)

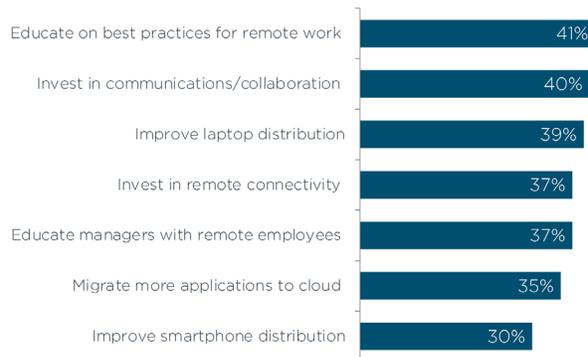
With this in mind, organizations and businesses of all sorts and sizes will have to integrate technologies that allow seamless collaboration without regard for the location. Anywhere operations refer to an IT operating model which:

- Allows employees to perform their duties from anywhere
- Supports the business development services throughout the distributed infrastructure
- Works seamlessly with various mobile devices, providing ease and convenience to customers

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Whether services have to be accessible on tablets, mobile phones, desktop computers, laptops, or other devices, corporations – big, medium, or small – have started to assimilate the technologies they need to provide smooth services.

Actions to Support Workforce in 2022



Source: [CompTIA - IT Industry Outlook 2022](#)

The opportunities for the industry are limitless, with AI-powered video conference cameras to platforms of infrastructure and software ecosystems that offer teams digital headquarters.

Focus On AI And Automation

Some [2.5 quintillion bytes of data are generated every day](#). With the increasing relevance of the Internet of Things (IoT), this data generation rate will grow even more prominent. However, the usage of such massive data depends on the systems installed to manage, evaluate and regulate it. Since employees can't perform such huge tasks manually, organizations turn towards artificial intelligence.

AI engineering and automation provide companies with a better way in their various AI projects. Developing transparent AI engineering processes will be critical to success, including DataOps, ModelOps, and DevOps elements.

- Help different projects reach timely development
- Increase Return on investment (ROI)
- Improve the performance, reliability, and scalability of artificial intelligence models, in general

(Hybrid + Multi) Cloud

Though the cloud isn't a new trend, organizations not making the most of it are lagging behind. Therefore, businesses must develop and use different cloud platforms to benefit more. As organizations encounter a range of data security and access challenges, it's high time to look for the ideal mix of private and public solutions, such as hybrid clouds.

According to one survey, teams that used multi-cloud or hybrid cloud software program deployments were [1.5 times more likely to achieve their business performance targets](#) than those using conventional cloud strategies.

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In 2022, the new norm will be resorting to hybrid or multi-cloud to solve various business or organizational challenges and needs. And sooner or later, it will become a need for every other organization's operations.

5G

The need for smart city and home systems and high-speed internet has pushed organizations to develop and adopt 5G technologies. This cellular tech is one of the most highly anticipated techs globally and will be widely expanded in 2021.

So, it's pretty apparent that big enterprises along with small startups will start to create advanced applications and infrastructures in 2022 to:

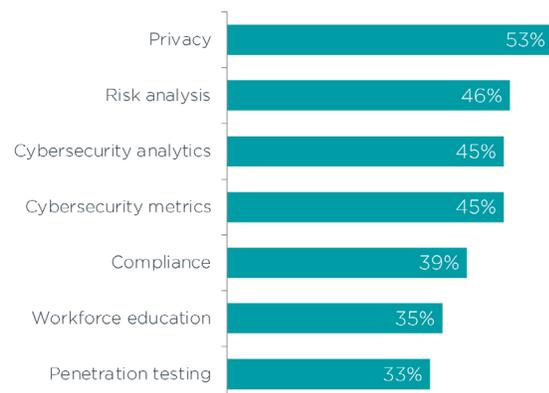
- Improve employee productivity
- Create new job opportunities
- Provide immense IoT opportunities
- Transform customer experience
- Aid mission-critical communications

5G is mainly becoming the ideal network for forward-thinking businesses and organizations because of its performance and reliability. According to one report, the worldwide infrastructure market size of [5G is projected to hit approximately \\$80 billion in 2027](#). Enterprise usage begins with reports evaluating that this cellular technology will drive long-run secular growth.

Active Threats

As more data-protection-related legislation matures, privacy will gain prominence, requiring privacy-enhancing computations. The [privacy-enhancing computations](#) will secure data in usage while maintaining its secrecy and privacy, which is exceedingly critical in untrusted environments and multiparty data analytics.

Critical Areas Within Cybersecurity



Source: [CompTIA - IT Industry Outlook 2022](#)

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However, the number of businesses that will use privacy-enhancing computations in 2022 is quite challenging to forecast. That's because many organizations didn't give the focus required on privacy. But, this behavior is also changing, thanks to worldwide privacy legislation. In addition to international privacy laws, customers also start noticing.

With so many data users, social media websites, and apps, questions are often raised about usage and why and how data is being collected in the first place. Organizations will have to seek new data sources and come clean in their management to achieve the best customer experience.

Work With Computer Resources of America

Like 2020 and 2021, Covid-19 will affect how enterprises do their businesses and employees work in 2022. As the usage of virtualization and digitization accelerates, the demand for security, cloud, automation, and privacy will increase further.

Transformation is feasible, and all trends mentioned above will help [businesses push forward in the tech future](#).

At Computer Resources of America, we are well aware that various technology trends will have a different impact on numerous businesses in several ways. Our 30 years of expertise has provided businesses with the essential technology tools to boost operations. Need an IT assessment for the new year? If so, choose CRA! For more info, visit our [website](#) or [contact us](#) directly!



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