



www.pipelinepub.com

Volume 18, Issue 2

IT and Telecom Technology Industry News

By: [Jara Kern](#)

It's the most wonderful time of the year...when we get a peek at what was and what will be. Top trends topped the headlines, ranging from the acceleration of digital transformation and the rapid adoption of 5G and cloud technologies to the continuing threat of cybersecurity breaches and the increasing sophistication of cyber criminals. From predictions of the top technologies to transform 2022 to when we can expect our self-driving cars to hit the lot, we heard it all.

The top telecom industry news stories from the month are summarized below. To view all the news as it breaks, check out *Pipeline's* [News Center](#) or [subscribe](#) to receive our telecom industry news summary.

Top Trends News

In a world driven by rapid digital change, what will be the most important technologies in 2022? According to [IEEE's new survey of global technology leaders](#) from the US, UK, China, India, and Brazil, artificial intelligence and machine learning, cloud computing and 5G top the list. And of these, 95 percent of respondents agree that AI has the potential to drive the most transformative change over the next decade. Other trends gaining momentum include robots, connected devices, and security technologies. [IDC](#) shared its own predictions for the future of digital innovation, unveiling 10 key ways software innovation is changing business now and over the coming decade. In a complementary list, [IDC](#) also revealed 10 predictions for the transformation of digital infrastructure built on resiliency and trust.

Future-gazing continued to drive top trends news, as [Mobileum announced new research](#) findings that reveal that 56 percent of operators ranked enhancing the customer experience as the top priority for 2022, followed by ensuring a well-performing and reliable network, mitigating security and risk threats, and cutting costs.

Looking into 2022, we see that 5G will continue to be a key enabler of transformation and business success across industries. A [new analysis by Frost & Sullivan](#) finds that 5G will unlock transformation across APAC with particularly significant growth opportunities and revenue upsides for operators. As 5G is gradually launched across the region and backed by government initiatives, market revenues are expected to grow from \$2.13 billion in 2020 to \$13.90 billion in 2025 at a compound annual growth rate of 45.5 percent.

With an eye to progress elsewhere in the world, five of Europe's leading telecommunications companies have collaborated on a [report](#) based on findings from Analysys Mason. Together they are urging policymakers, EU Member States, and industry stakeholders to collaborate and urgently prioritize building an Open Radio Access Network ecosystem to ensure that Europe continues to play a leading role in 5G as well as in 6G.

While there is still a lot of innovation ahead for 5G, many projects identified as 'Next G' and '6G' are already underway globally with significant leadership from the Americas. [5G Americas](#) outlined them with detail on what to expect as wireless communications for consumers and enterprises evolve beyond what we know as 5G today. The year ahead certainly does seem like a key year for wireless connectivity innovation as Wi-Fi 6, 6E, and Ultra-Wideband adoption accelerates across a growing number of end markets.

Bringing up the rear of this robust round of insights and predictions, Rackspace announced the results of a new [global survey conducted with Google Cloud](#) that highlights the increasingly rapid pace of cloud adoption. According to the survey, the question is no longer whether organizations should migrate to the cloud, but how they can leverage the cloud for innovation, efficiency, and growth.

Network Evolution News

Telecom industry network news included the announcement that the first-ever high-capacity subsea cable system between Europe and Latin America is in full operation. The new system by [Equinix and EllaLink](#) boosts network performance by 50 percent between data centers in Brazil, Portugal and Spain when compared to routes that had to previously transit through North America.

800G is having its moment, too. [CityFibre](#) in the UK successfully deployed its first 800 Gb/s backbone wavelength in partnership with leading network technology solutions vendor Ciena, part of its plan to build infrastructure to reach up to 8 million premises in the UK. In Poland, [leveraging Ciena's technology, T-Mobile Polska](#) is bringing the first 800G network to the country, with 400G long-haul service to enable growth in remote work, learning, and entertainment.

To enable intelligent automation for mobile networks, [Ericsson has launched its Intelligent Automation Platform](#) for service management and orchestration. The solution facilitates AI and

automation, which improves network performance, operational efficiency, and customer experience to help create smarter networks.

5G News

As we near the end of 2021, 79 nations have either commercialized 5G or are conducting 5G trials. According to [IDTechEx](#), the 5G market is just about to take off. By the end of 2032, consumer mobile services are anticipated to generate \$800 billion in revenue, and 5G macro infrastructure markets will expand seven times larger than in 2020. Subscription increases bear this out, with 264 million 5G subscriptions worldwide. [ABI Research](#) forecasts that the 5G market will continue to accelerate and reach 2.6 billion subscriptions, a significant contribution to mobile operator revenue of \$942 billion in 2026.

Worldwide, 5G deployments continued across the world. Highlights include a partnership between [Nokia, Telia, and Digita](#) that has delivered a 5G standalone private wireless network to support advanced Industry 4.0 use cases and digital transformation for northern Finland's mining industry. In addition, Nokia has upgraded its [5G testing lab](#) located in Guadalajara, Mexico to support testing across new use cases. The facility will enable the testing of new 5G products, as well as support growing sales and supply chain operations in the region.

5G news headlines gave us a glimpse into the promise of the technology and its use cases. An innovative [5G robot connectivity trial by Ericsson](#) in Denmark has enabled a teenage student to join his classmates in real time, inside and outside the classroom, during the school day despite having a medical condition that prevents him from physically attending school. Ericsson is also backing the [5G Ride self-driving bus project](#), which has moved closer to full operations following a successful trial of remote digital monitoring and on-board digital safety services near Ericsson's company headquarters in Kista, Stockholm, Sweden. And a new report by [ABI Research](#) compares 4G and 5G to analyze how new generations of wireless can significantly improve carbon efficiency. To quantify the impact of enterprise 5G, the paper considers the direct energy efficiency of network infrastructure and end devices, and its indirect effect on carbon dioxide emissions, revealing how 5G can advance the global imperative of sustainability.

It's not just new use cases that offer promise—5G maturation is also going to benefit the bottom line. According to the new 5G Pacesetters report from [Ericsson ConsumerLab](#), the frontrunning CSPs driving global demand for consumer 5G are three times more likely to retain customers and almost twice as likely to grow average revenue per user and mobile services revenues compared to other CSPs.

Security News

New cybersecurity research continues to reinforce the imperative of protecting our systems and data amid proliferating security threats. The 2021 [Thales Global Cloud Security Study](#) reports that

40 percent of organizations have experienced a cloud-based data breach in the past 12 months. Despite increasing cyberattacks targeting data in the cloud, the majority of businesses are still failing to encrypt half of the sensitive data they store in the cloud, raising even greater concerns as to the impact cyber criminals can have.

New products and services are addressing this need. Among other key headlines, [AT&T](#) launched an integrated, managed cybersecurity solution to help U.S. federal agencies modernize and protect their IT infrastructure in compliance with Trusted Internet Connection 3.0 cybersecurity guidance. AT&T Government Trusted Internet brings together software-defined wide area networking technology, security capabilities and fiber connectivity in a 24/7 managed solution through a single provider. [Fortinet](#) is expanding its collaboration with Microsoft to deliver the industry's first next-generation firewall and Secure SD-WAN integration with Microsoft Azure Virtual WAN. [Quantum Xchange and Thales](#) are partnering to provide network security that protects data in motion through quantum-safe and crypto-agile capabilities. The solution enables end-users to future-proof the security of their data and communications networks; overcome the vulnerabilities of present-day encryption techniques and protect against man-in-the-middle, harvesting, and future quantum attacks. And [BT](#) has developed an epidemiology-based cybersecurity prototype, 'Inflame,' which uses deep reinforcement learning to enable enterprises to automatically detect and respond to cyber-attacks before they compromise a network. Using the spread of viruses in human populations as a model to inform its AI, Inflame is a key component in BT's recently-announced Eagle-i platform.

Leaderboard, Transformation, and Innovation News

In innovation news, self-driving cars are taking steps toward commercial reality. Aurora, which focuses on self-driving, has [built key partnerships](#) across logistics, rideshare, and manufacturing verticals with FedEx, Uber, Toyota, and North American OEMs to transform how goods and people move through the world. These are key steps toward commercializing self-driving technology. [Qualcomm announced the extension of its collaboration with BMW](#) to bring the latest advancements in driver assistance technologies, and products of its Snapdragon Ride Platform, to BMW Group's next generation of advanced driver-assistance systems and automated driving platforms. And [Anritsu and Toyota](#) shared the development of the world's first 5G OTA1 RF text system, a step toward realizing the simultaneous communications with near-zero latency that self-driving vehicles will require.

[C.P. Group and Telenor Group](#) have inked an alliance to explore the creation of a new telecom-tech company comprising True and dtac. Orange has inaugurated its [Open RAN Integration Center](#), dedicated to Open RAN technology, a reference technology for future mobile networks. This testing and integration space, which will enable companies from the Open RAN ecosystem to test and validate their products and services, and thus accelerate the development of this technology, is the first of its kind to open in France.

In acquisitions news, [Verizon](#) has completed its previously announced acquisition of TracFone Wireless and its family of brands. [Ericsson will acquire Vonage](#) for \$6.2 billion to spearhead the creation of a global network and communication platform for open innovation.

To read more telecom industry news stories, be sure to visit *Pipeline's* [News Center](#) and [subscribe to Pipeline's weekly and monthly newsletters](#). You can also follow *Pipeline* on [LinkedIn](#), [Twitter](#), or [Facebook](#) to get telecom industry news alerts in real-time. To have your company featured in this column, send your breaking news and press releases to pressreleases@pipelinepub.com for consideration.