MESSAGES BY HON'BLE MINISTERS OF THE GOVT. OF INDIA

Nitin Gadkari
Union Minister for,
Road Transport & Highways

"Supporting the Government of India's vision of 'Digital India', 'Make in India', and 'Smart Cities Mission', the two leading expos provide a one-of-a-kind international forum to showcase 'Brand India' and focus on unlocking new opportunities in India's economic revolution."

Piyush Goyal
Union Minister for Commerce & Industry, Consumer Affairs, Food & Public Distribution, and Textiles

"These events will serve as a unique platform for showcasing 'Brand India' and exploring opportunities in India's economic transformation. This will contribute to the growth of industries and serve as a catalyst for building a technologically advanced and sustainable India."

Gajendra Singh Shekhawat
Union Minister for Jal Shakti

"The nation is set for a major expansion in water supply and distribution infrastructure and 'Har Ghar Jal' will be crucial to achieve this..... I applaud the efforts that are being made by those associated with the water and associated segments in helping India realise its dreams."

SCAN TO READ THE FULL MESSAGES BY THE HON'BLE MINISTERS

MARUTI SUZUKI

N E X A

AWARDS. RECORDS. INNOVATIONS.
ONE SUV RULED THEM ALL.

1st Anniversary celebrations couldn't get better for the Advanced Grand Vitara as it becomes the fastest to achieve 1 Lakh* sales in the segment. In just a year, it has won awards, broken records, and set new benchmarks.

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- ESP
- SEAT BELT PRE-TENSIONERS WITH FORCE LIMITERS
- ISOFIX CHILD SEAT ANCHORAGES
- COMPLIANT WITH
  - FULL FRONTAL IMPACT
  - SIDE IMPACT
- PEDESTRIAN PROTECTION COMPLIANCE

Features and accessories shown may not be part of standard fitment. Black glass shade on the vehicle is due to lighting effect. Images used are for illustration purposes only.

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THE ADVANCED
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NEXA Safety Shield
- SUZUKI-TECT BODY
- DUAL FRONT AIRBAGS
- ESP
- SEAT BELT PRE-TENSIONERS WITH FORCE LIMITERS
- ISOFIX CHILD SEAT ANCHORAGES
- PEDESTRIAN PROTECTION COMPLIANCE
- COMPLIANT WITH -
  - FULL FRONTAL IMPACT
  - FRONTAL OFFSET IMPACT
  - SIDE IMPACT

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MESSAGES BY HON'BLE MINISTERS OF THE GOVT. OF INDIA

Anurag Singh Thakur
Union Minister, Information & Broadcasting, and Youth Affairs & Sports

"Convergence India has played a vital role in nation building by supporting government initiatives. I am sure that the hard work and dedication of the entire team of Exhibitions India, Smart Cities Mission and ITPO will make these forthcoming exhibitions a grand success."

General (Dr.) Vijay Kumar Singh
Union Minister of State for Civil Aviation, Road Transport & Highways

"An integrated and robust transport infrastructure has the potential to create an environment conducive to economic growth. For this, the government is using the Gati Shakti portal to spot infrastructure gaps in last- and first-mile connectivity. The expo will provide a perfect platform for all stakeholders to come together under one roof and strategise the future of India's transport and highway sector."

Krishan Pal Gurjar
Union Minister of State for Power and Heavy Industries

"The Ministry of Power and MNRE have jointly launched a national mission to identify emerging technologies in the power sector and develop them indigenously for deployment. MAHIR will follow the technology life cycle of 'Idea to Product' to leverage them as the primary fuel for future growth."

Pankaj Chaudhary
Minister of State for Finance

"The government is looking to empower startups to grow through innovation and design, create job opportunities, especially in Tier II and III cities, and contribute towards economic growth."

SCAN TO READ THE FULL MESSAGES BY THE HON'BLE MINISTERS

A legacy of bridging India's digital, social & economic divide

Chandrika Behl, MD, Exhibitions India Group

What are the highlights of this edition of the expo?

The 31st Convergence India & 9th Smart Cities India expo is India's largest Tech & Infra expo, so, really, it's the go-to event for anyone interested in India's advancing role in the realms of digital and urban development.

Through digital inclusion and keeping the citizen at its core, the 2024 edition will cement the expo's legacy of bridging the country's digital, social and economic divide. The platform is also a showcase of India's emergence as a digital powerhouse and a clear leader in this field.

This year, the expo is bigger and better than ever, with over 1,200 participants from 40 countries, including 250 startups, all of whom will unveil the latest innovations across sectors and congregate to chart a course for the future. 50 conference sessions will see senior speakers from government and industry provide an insightful perspective on the most pressing issues of the day and their vision for overcoming these issues in future.

Over 50,000 visitors will get a chance to interact, explore and make alliances in one of the fastest-growing markets in the world. The expo will be graced by the presence of Ministers and senior dignitaries from the Government of India, along with industry leaders, Smart City CEOs, city planners, Mayors, Ambassadors and stakeholders from India and around the globe.

The Startup Hub will feature startups displaying innovations across the verticals of emerging technologies, ICT, and Smart City applications. There are also mentoring sessions from the pioneers of the ecosystem, specially curated conference sessions, a Startup Pitch Competition, and an Investor-Startup meet.

Other significant attractions include global product launches, curated marketing support, business matchmaking, a City Leader's Conclave, and industry awards. The event will also see Country Pavilions from Russia and Armenia, and a National Smart Cities Mission pavilion showcasing award-winning projects from across the country.

What sectors are being showcased at the expo?

Convergence India has remained at the forefront of promoting technological advancements in the fields of telecom, satcom, broadcast, wired & wireless technologies, 5G & 6G networks, IT solutions, AI, smart solutions, M2M, mobile & accessories, IoT, embedded tech, blockchain, and FinTech – the entire gamut of digital solutions. We aim to create a comprehensive technology showcase, such that is provides a true representation of the way forward.

Meanwhile, the Smart Cities India expo is a display of India's emerging modernisation and development landscape by showcasing the integration of transformative technologies with the key pillars of urban development – green buildings, rooftop solar, renewable & clean energy, clean environment, clean water, water conservation, urban mobility, and the use of innovative ICT solutions for optimising resources that make cities smart and sustainable. Together, these offer a comprehensive platform for domestic and overseas players, innovators, technologists, startups, and leaders in sustainable technologies to unleash the power of physical networking, expand business opportunities, and make new alliances.

What message do you have for the industry?

The path to our success at EIG (Exhibitions India Group) runs through that of our partners and clients! Our philosophy has always been to create an enabling environment for the success of our partners and customers, as we know this is the only way to ensure long term success. We believe that this philosophy has served us exceedingly well over three decades, and will continue to do so going forward – which is to say, as India grows on the world stage, not only do we aim to ride on the coattails of this growth but we aim to continue facilitating this growth, as we've done throughout our history.

So, what I would say is no secret: India is poised not just for lasting growth, but for accelerated growth. And, at EIG, we intend to play our role of facilitator with renewed dedication and enthusiasm.

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#CI2024 #SCI2024

mahindra *Rise*

ALL-ELECTRIC
ALL-NEW INTERIORS

Starts From
₹15.49 Lakh*
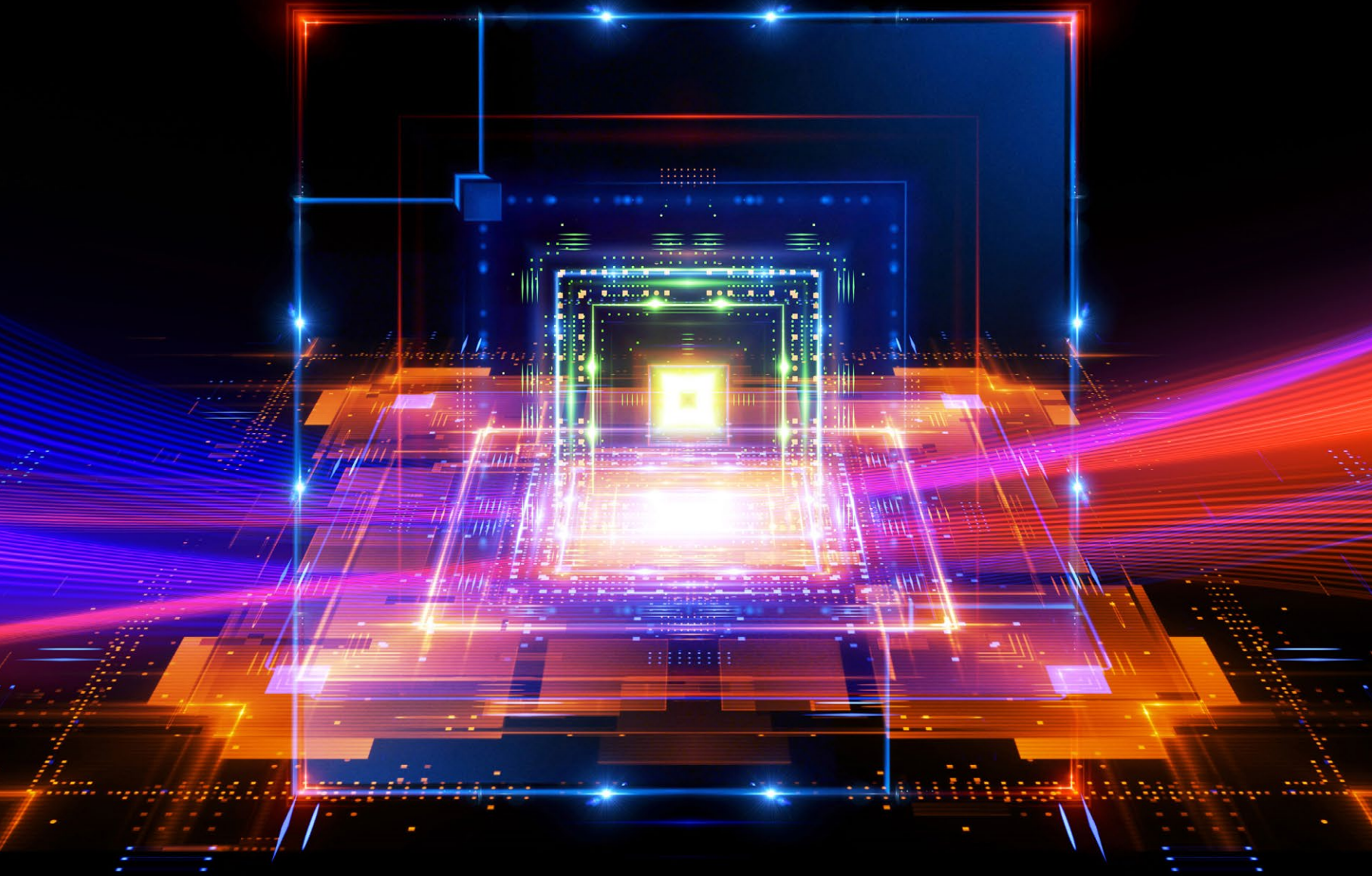*Ex-Showroom Price. T&C Apply.

INTRODUCING THE ALL-NEW
XUV400

BOOST THE COUNTRY'S
COMPUTING POWER

A. Dhanalakshmi
Joint Secretary,
Ministry of Science
& Technology,
Government of India

Please share something about the National Supercomputing Mission and the National Mission on Interdisciplinary Cyber-Physical Systems.

The National Supercomputing Mission was launched in 2015 to provide the country with supercomputing infrastructure to meet the increasing computational demands of academia, researchers, MSMEs, and startups. It is a first-of-its-kind attempt to boost the country's computing power. The first supercomputer, PARAM Shivay, was assembled indigenously and installed in IIT (BHU). Since then, 15 such installations have been done across reputed institutions in the country. They are equipped with applications for domains like weather and climate, computational fluid dynamics, bioinformatics, and material science. The upcoming installations will be based on the indigenous Rudra server platform manufactured in India. They will provide a total computing power of 66 PF, 4.5 times higher than the intended computing capacity.

The indigenous efforts have resulted in the creation of 'Trinetra' high-speed interconnects, Direct Liquid Cooling units, HPC system software stack 1.1 and various benchmarks (cloud, HPC) applications. A total capacity of 24.83 PF HPC machines is built locally and commissioned nationwide.

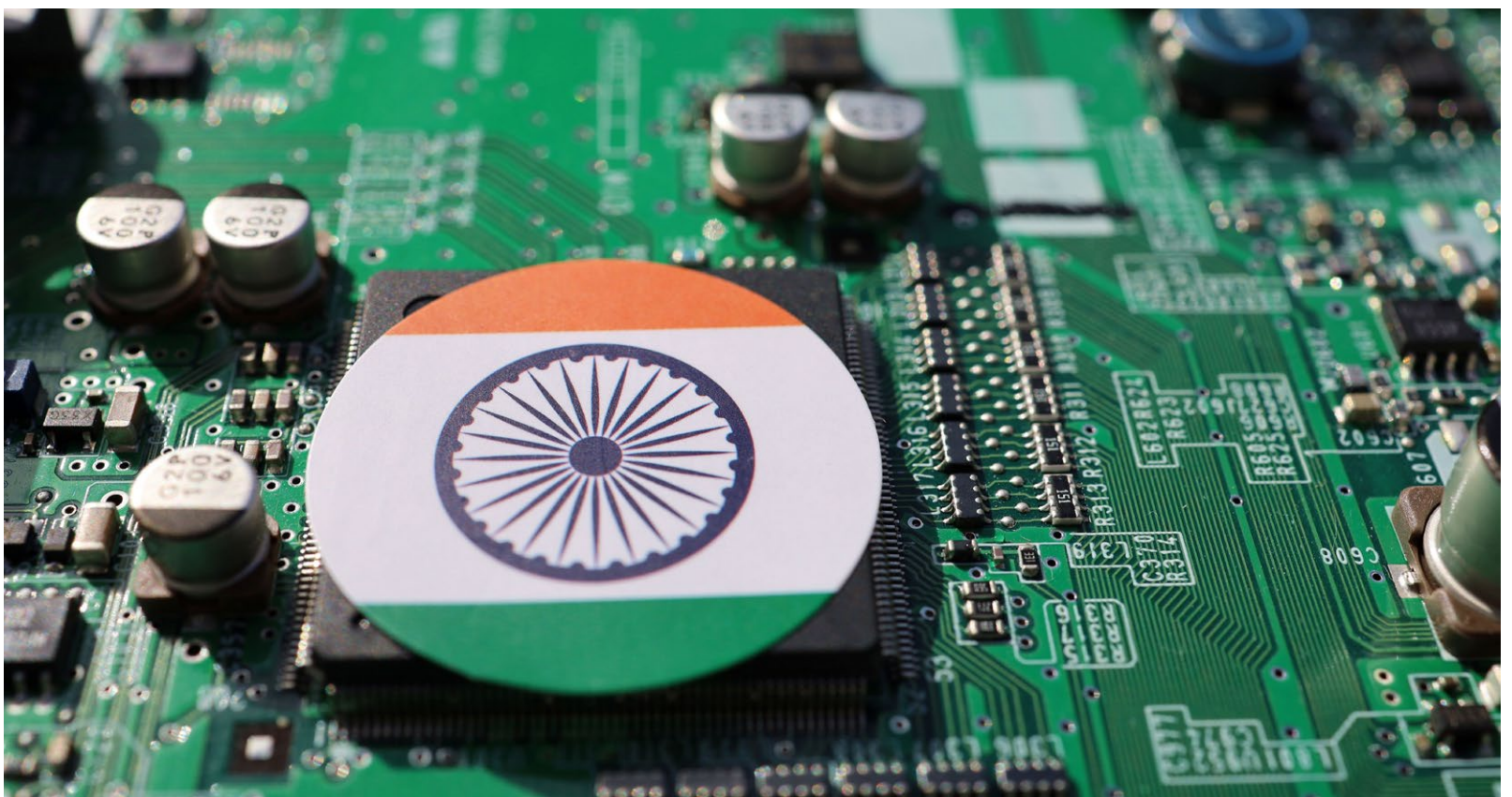Meanwhile, the National Mission on Interdisciplinary Cyber-Physical Systems was launched with a total outlay of Rs. 3,660 crore in December 2018 to boost technology development and translational research in cyber-physical domain. As part of the Mission implementation, 25 Technology Innovation Hubs (TIHs) have been established in reputed institutes across the country in advanced technologies like AI, Robotics, IoT etc. Cyber-Physical Systems (CPS) will play a significant role in areas like health and medicine, intelligent transportation, and smart manufacturing in the future. Such a role needs a change in the trajectory of CPS by introducing new technologies like AI& ML, IoT, and Robotics, which will be the future drivers of CPS.

Both missions can transform critical sectors of the Indian economy like healthcare, transportation, education, infrastructure, etc., making them more efficient, safe, and sustainable to place the nation at par with other advanced countries. They will bring a paradigm shift in the skilled workforce, creating job opportunities specific to industries. It will also create an environment for innovation, entrepreneurship and a start-up ecosystem.

Please discuss the government's thrust towards promoting R&D in technology.

India has witnessed explosive growth in technological

> **It is necessary to strengthen R&D infrastructure to maintain the momentum and further strengthen India's position in the global market. We are pushing for R&D for the development of indegenous technologies**

As part of the National Mission on Interdisciplinary Cyber-Physical Systems, 25 Technology Innovation Hubs have been established in reputed institutes across the country in advanced technologies like AI, Robotics, IoT, etc
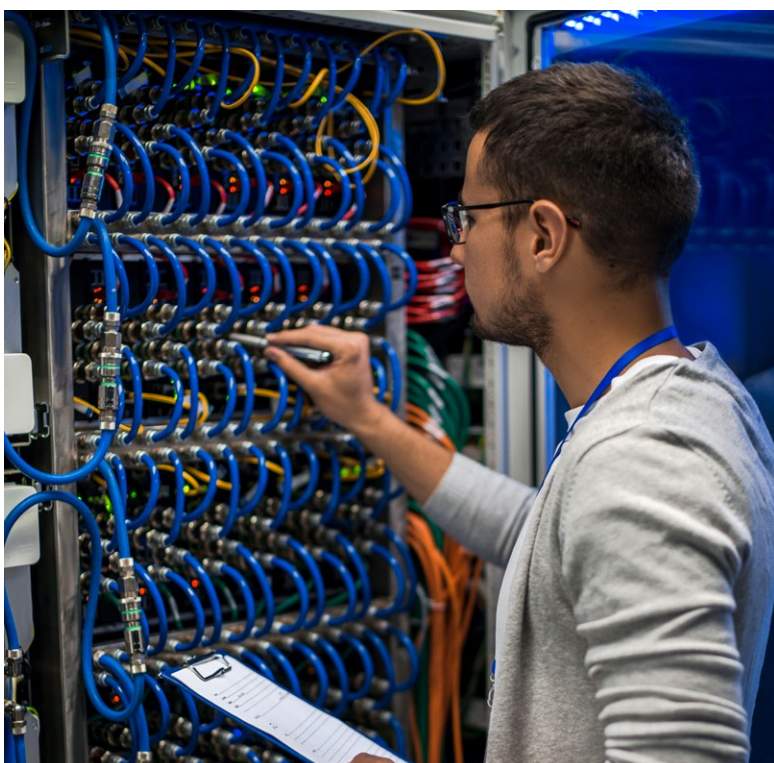
advancements in the past few years. It is necessary to strengthen the R&D infrastructure nationwide to maintain the momentum and further strengthen India's position in the global market. Accordingly, the Ministry has been promoting new areas of science and technology with particular emphasis on emerging areas. We are pushing for R&D through research institutions or laboratories for the development of indigenous technologies.

The Nano Mission builds upon the promotional activities carried out as part of the Nano Science and Technology Initiative (NSTI). The initiative achieved a significant milestone by securing the third position in the global ranking through its contribution to nanoscience and technology publications. Realising the importance of safe handling of nanomaterials, the Ministry constituted a Nano-regulatory Task Force consisting of experts to work on the guidelines and best practices for secure handling of nanomaterials in research laboratories and industries.

The Cognitive Science Research Initiative facilitates a platform for the scientific community to work for better solutions to cognitive disorders and social issues through various psychological tools and batteries, early diagnosis and better therapies, intervention technologies and rehabilitation programmes. Considering the changing requirements of geospatial science & technology in the country, the Natural Resources Data Management System (NRDMS) Division has evolved into a National Geospatial Programme (NGP). Its focus is to catalyse the National Geospatial Ecosystem to promote geospatial science and technology, policy, solution, capacity building, entrepreneurship and international cooperation.

The Ministry has initiated a special drive for R&D activities in the new and emerging areas in the university ecosystems of the North Eastern region, Jammu, Kashmir, Ladakh, Madhya Pradesh, Chhattisgarh, Jharkhand, Bihar, Telangana and Rajasthan, by providing both basic as well as sophisticated infrastructure for scientific facilities. Through the Schemes like FIST, PURSE,

SAIF, SATHI, SUPREME. All these programmes are augmenting and facilitating the R&D equipment for research activities at universities and academic organisations, besides promoting industry-academia linkages.

Please elaborate on the Anusandhan National Research Foundation (NRF) Bill, 2023.
The bill aims to set up an apex body known as 'Anusandhan National Research Foundation which will provide strategic direction for research, innovation, and entrepreneurship across mathematical sciences, engineering & technology, environmental & earth sciences, scientific, health and agriculture. It will also promote scientific and technological interfaces of humanities and social sciences to promote, monitor, and support R&D by increasing R&D spending in the country. The Executive Council of NRF is mandated to monitor the progress of the different projects and to analyse the accountability of the funding at different level stages. The bill envisages a budget of Rs. 50,000 crore for five years, of which Rs. 36,000 crore (almost 72%) will come from the industry and philanthropists, domestic and overseas. NRF is expected to transform the culture of research and innovation in the entire S&T ecosystem consist of universities, colleges, research institutions, and R&D laboratories. In the long run, it will create a conducive environment for startups to thrive and increase their contribution towards India's economy.

Any words for the participants of the show?
In this decade of transformational changes to the field of science in India, the youth must have access to quality R&D infrastructure to pursue research in science and technology and fulfil their dreams. The 31st Convergence India & 9th Smart Cities India 2024 expo in New Delhi provides a unique opportunity for budding entrepreneurs in the country to experience technological advancements and how they can contribute towards strengthening businesses. ■

Enterprise Armenia

Fostering a Supportive Environment for Investors

Enterprise Armenia is the national investment promotion agency of the Republic of Armenia, dedicated to being a reliable partner for investors seeking to take advantage of the country's many opportunities.

Our mission is to foster a supportive environment for both foreign and domestic investors, positioning Armenia as a highly desirable investment destination on the global stage. We aim to attract new foreign direct investment and promote reinvestment, driving sustainable economic growth and prosperity.

We envision a future where Armenia is recognised as a leading business destination, renowned for its dynamic and diverse economy that enriches local entrepreneurs and global business leaders.

To reach these goals, Enterprise Armenia provides a wide range of services to local and international businessmen on the principle of the 'one-stop-shop'. We strive to streamline the investment process, minimise bureaucratic hurdles, advocate for the interests of investors, ensure successful project implementation, and increase investors' satisfaction. Enterprise Armenia provides comprehensive consultations to investors on sectors and investment opportunities, legal framework, financial assistance programmes and State-provided incentives within this framework.

Our team helps identify problems encountered during the implementation of investment projects, develop a roadmap for overcoming obstacles, and establish effective communication between the state and the private sector by organising discussions among stakeholders and proposing possible solutions to the problems. Once the investment projects launch, Enterprise Armenia continues supporting investors through its aftercare service. This investment journey is accompanied by its professional team, which works to create a two-sided success story for the State and the entrepreneur.

Enterprise Armenia also extends its services globally through a network of foreign representatives from the Armenian diaspora, who enjoy prominent recognition within local business circles and possess extensive connections with Armenian and international investors. Currently, there are 15 representatives strategically positioned in 11 countries: Russia, the USA, Canada, Brazil, the UAE, Ethiopia, the Netherlands, Italy, Spain, Bulgaria, and Ireland. Our network of representatives has
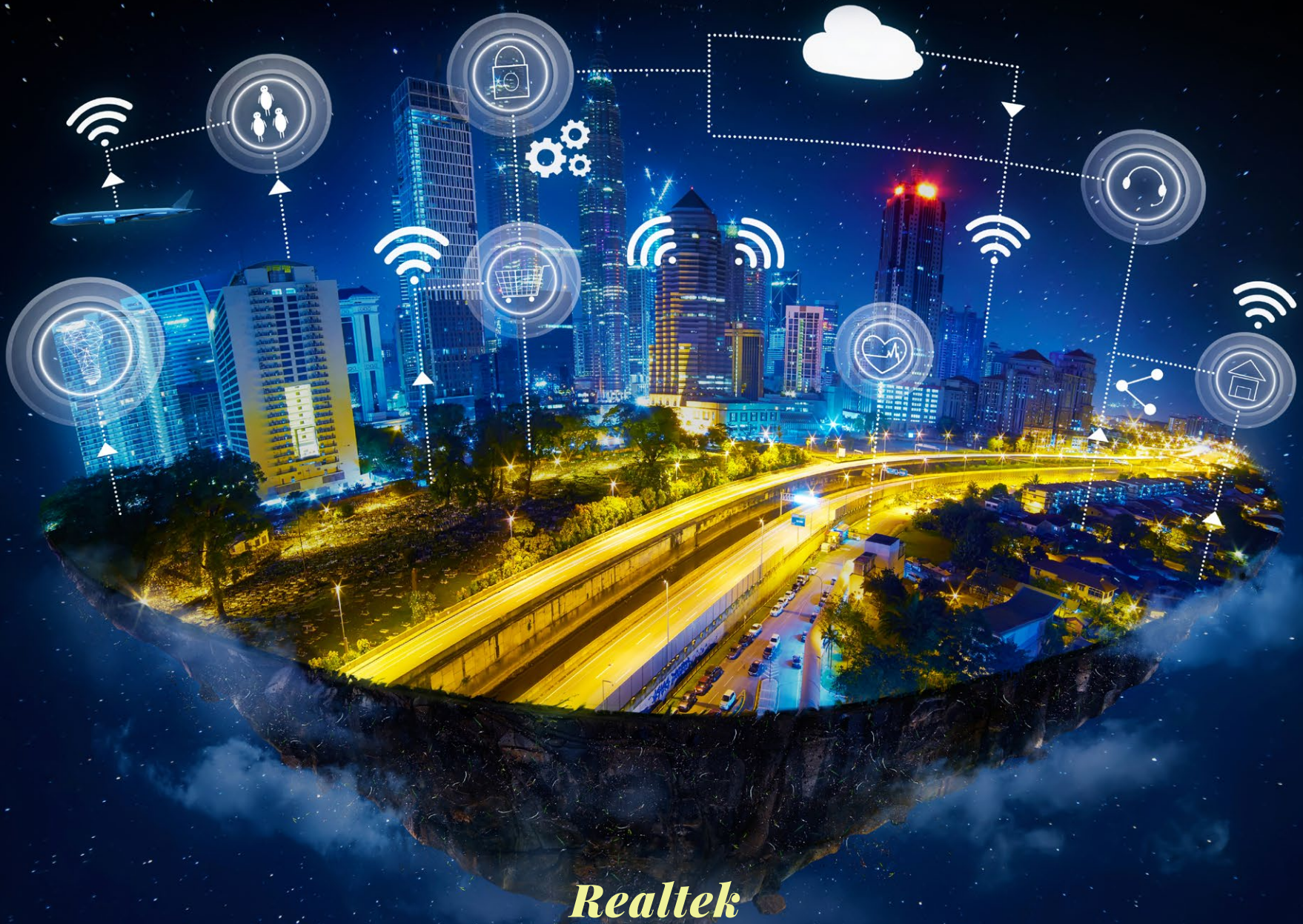
within Armenia's economy.

Information and communication technology stand out prominently among these promising sectors in Armenia. Recognising the future's trajectory toward technological advancements and innovations, Armenia, with its substantial ICT potential, is actively forging a path towards establishing a technological economy. The Government of the Republic of Armenia highlights the relevance of the growth of the ICT sector, and the strong institutional and regulatory basis proves this.

With a steady annual 20% growth rate, Armenia has become an attractive destination for technology companies and startups. In 2022, the output of ICT was $1 bn, approximately 33,000 professionals are involved in the sector, and more than 1,000 startups have received tax incentives. Artificial intelligence, machine learning, fintech, game development, and chip design are the promising areas of the Armenian ICT sector.

According to StartupBlink, Armenia's startup ecosystem was recognised as the best innovative ecosystem in the Caucasus. There are several technology hubs and innovation centres across the country and prestigious universities with a long-standing tradition of STEM education. Armenian IT products are internationalised through the diversified export to major markets.

Should you express an interest in investing in Armenia's dynamic ICT sector or any other promising industry, Enterprise Armenia will be your reliable partner through this journey. We will support your business initiatives, leveraging our expertise to navigate you through the nation's appealing investment landscape. We bring a wealth of knowledge and experience to the table, ensuring that your investment journey is seamless and optimised for success. From facilitating connections with key industry players to providing valuable insights into the local market, we are dedicated to delivering comprehensive services. ■

already proven its effectiveness and will continue to be expanded.

Enterprise Armenia's initiatives are consistent with the nation's impressive economic growth in recent years, demonstrating a noteworthy development of 12.6% GDP growth, earning the country the 4th spot among the fastest-growing economies, according to the IMF in 2022. This robust growth trend persisted in 2023, with the economy growing by over 10% in the year's first half. Key sectors such as information and communication technologies, agriculture, tourism, winemaking, food processing, pharmaceuticals, textiles, and jewellery are desirable

Realtek

Connecting a Smart Future, Enriching Lives of Everyone

Realtek Semiconductor Corporation is a world-leading IC provider that designs and develops a wide range of IC products for connected media, communication networks, computer peripherals, multimedia and smart interconnect applications. Realtek offers full-featured, high-performance, low-power, and competitive total solutions.

NB-IoT and Broadband Solutions drive Future Infrastructure Development

Realtek strengthens urban infrastructure with NB-IoT, xPON, and Switch technologies. It boasts the world's most integrated smart meter solution in the NB-IoT, incorporating wireless long-range Cloud connectivity and short-range wireless technology within a single SoC. Its smoke detector solutions feature rapid MCU wake-up and wireless cloud connection, enhancing public safety. Realtek's asset tracking solutions integrate Cloud connectivity, Wi-Fi indoor positioning, and short-range wireless configuration, ensuring safer asset management.

Realtek has an ethernet switch at/bt PSE + FE/GE/2.5G/10G PHY + L2/L3 for one-stop shopping, including the unmanaged switch, smart switch, and managed switch product family. In addition, unmanaged and smart switches have a worldwide No.1 market share. The 10G AnyPON of RTL9617C is a highly integrated home network equipment unit IC that contains an ARM 1GHz Quad-core, powerful offload engine, and Dual Lan PCIE for Wi-Fi-7 and Wi-Fi-6.

AP Router and IoT Solutions advancing Wireless future for Smart Living

Realtek's AP router and IoT wireless solutions are advancing the vision of a smart home. The AP router solution, equipped with a dual-core ARM A55 CPU and a dedicated RISC-V data packet engine, brings high-speed Internet experience to homes. It features two Hi-SGMII interfaces supporting 2.5GE WAN/LAN speeds and provides four GE interfaces to meet various home network needs. Introducing Wi-Fi 7 technology further strengthens network interference resistance, ensuring stability, enhancing throughput, and expanding Wi-Fi coverage.

Realtek's Ameba series supports Wi-Fi sensing, intelligent voice commands, and Matter standard in the IoT solutions. Wi-Fi sensing intelligently analyses minor changes in home Wi-Fi signals, allowing developers to tailor their Wi-Fi products' responses without additional hardware, thus ensuring privacy. The single-chip smart voice solution offers a cost-effective option, supporting local commands and voice activity detection for a truly interactive smart home experience. Additionally, it supports the IoT Matter standard, creating a more interconnected and intelligent home environment for users.

Bluetooth Solutions seamless connectivity for an Ultimate Experience

Realtek has released a 3-in-1 dongle solution that meets office needs and can connect simultaneously to Bluetooth headsets, keyboards, and mice. It supports rapid device switching, facilitating efficient transitions across multiple work tasks. As for the triple-mode gaming mouse solution, Realtek is the first in the market to mass-produce a single-chip solution that offers wired, 2.4G wireless, and Bluetooth connectivity modes.

In the wired mode, when the mouse is connected via USB, it can achieve an 8K polling rate. Similarly, a wireless mouse paired with a 2.4G dongle can also reach an 8K performance level. Additionally, it features the ability to charge while in use, which is highly convenient for long-term users. The Bluetooth helmet offers BT5.3 connectivity, supports multifunctional Bluetooth protocols, and allows for user-defined commands and prompts, giving each helmet a unique identity for intelligent riding applications. Realtek showcases its expertise in AI noise reduction and LDAC Hi-Res audio technology in the headphone domain, providing users with an exceptional auditory experience.

DHC Solutions crafts the ultimate Future Home Entertainment Experience

Realtek aims to develop the best home entertainment experience continually. Its Digital Home Center solutions, supporting the Google TV Gretzky and Netflix Hailstorm platforms, provide a high-quality system platform while reducing the certification burden for ODMs. This facilitates rapid production processes and product launches for ODMs. Utilising NPU technology, Realtek has achieved AI-powered image deblurring and target detection, improving image quality. It also launched the first 4K STB SoC supporting VVC and Multi-CAS, ensuring secure transmission of ultra-high-definition video. Realtek has earned Google and Netflix's Hailstorm certification, ensuring compatibility with streaming platforms. The OTT Dongle, equipped with AISR/AIPQ, also offers efficient smart hardware identification and processing, delivering an optimal immersive viewing experience.

Every solution from Realtek is designed to enhance efficiency and improve the quality of life, offering competitive total solutions that connect to a better future, continuously enriching the lives of everyone. ∎

What's Next in Streaming Technology Innovation?

Morten Rasmussen
Director of Solution Engineering, Video Network, Synamedia

The cloud and SaaS transition - from just-in-time video processing and IP distribution to watermarking and advertising - is finally happening and accelerating after years of false starts, allowing content owners and operators to focus on their core values and areas of expertise rather than on operating a video system.

Chasing the Money

More content is being watched online than traditional systems, but a financial model for streaming that works for all providers still needs to be invented. The excellent news is that streaming offers many monetisation possibilities, especially ad targeting and content personalisation. We will see an increased appetite for turning these new techniques into more revenue. We will also see solutions that improve operational efficiency and cut costs to take centre stage – managing subscribers' broadband devices or using AI to orchestrate CDN traffic.

AI goes beyond the Hype

When used wisely, AI is a force for improving operational efficiencies such as bitrate reduction and quality optimisation at the codec level; it also brings new experiences and ways to consume content, including personalised TV and content generation. But AI also makes it easier for pirates to syphon off revenue from content owners. This is why cyber-based counter-piracy technologies will be more critical than ever to secure content and services.

Why SaaS and Cloud?

To meet growing customer demands, a significant focus of our company's innovation is driven by accelerating the migration of media operations to the Cloud across our portfolio, including video processing, security, targeted advertising, business analytics and more. Synamedia's Video Network Cloud and SaaS portfolio has evolved to support service providers and streamers in three segments: B2B distribution, D2C streaming, and IP network optimisation. Customers can buy a service that dynamically switches to the best model for their needs at that time.

The shift to the Cloud and multi-tenant solutions makes great commercial sense for operators in terms of flexible business models and ease and speed of deployment, which all help lower TCO. Reliability at any scale is increasingly critical, and we are proud that with 26 Video Network customers with SaaS solutions in the Cloud, we had zero interruptions in 2023.

What's next?

We are committed to bringing new ways to deliver, enrich and protect a video while maximising monetisation possibilities, optimising workflows, and keeping a tight lid on TCO. One of our missions at Video Network is to ease content delivery at scale. It may sound simple, but there are multiple aspects to ensuring the existing content can be streamed easily. The two primary considerations are using technology

to scale and stream video to more people and making sure the right content reaches the right people, and second, simplification, including legalities and contracts when sending content to affiliates. So, expect many developments in these areas.

Meet with us at Convergence India
Synamedia will be in Hall 5 at booth D45 at Convergence India. Whether your goal is to drive down latency or set up a sports streaming pop-up channel at scale, the brains behind Video Network's innovations will be on hand to demonstrate how we are helping streaming customers tackle today's pressing issues:

- Connecting fans to their favourite sports
- Making it easy and fast to launch new services
- Delivering low latency with pristine picture quality
- Reliability, traffic management and scalability
- Monetisation, cost-effectiveness and ROI
- Supporting sustainability goals ▪

Video Network's innovations in sports streaming

Next Generation Technology for FTTH

Roufil N.R
AGM-ISP, GX Group

Tell us about the philosophy and vision of the company.

GX Group is a leading manufacturer of connected home products for Fiber-to-the-home (FTTH) and connectivity broadband equipment. Innovation has always been our focus since the company's inception in 2002. GX works with next-generation technology and open-source platforms, enabling an open standard that meets new security requirements and future functional demands of Quality of Service (QoS).

With their manufacturing facility, GX controls the entire supply chain for the complete product portfolio, where the company designs customer-specific products with the highest quality in India. We aim to make India a global hub for development, manufacturing and design. GX has been honoured with a sustainability award for supporting the EU with products that comply with EU sustainable regulations and meet environmental conditions.

Quality and support are our primary focus areas as we provide customers with advanced solutions. We actively work on the latest technology trends, incorporating AI solutions into our network management to provide the best-class QoS. At GX Group, we strive to be the preferred choice, offering products that exceed customer expectations.

What innovations is the company presently focused on?

Technology is evolving faster than ever before. Our customers put forward demands for higher bandwidth services. To support this, GX is focused on products with high QoS delivering functions and AI-based handling, improving performance and reducing interference and effect on capability. We are working on a platform to minimise support calls by 30-40%, enabling AI-based handling and fault analytics and enhancing the QoS.

We have also introduced our latest WiFi 6 model, 'Moksha', and our 5G device portfolio, which has been proven to be the most advanced model in the market. As a quality-focused fibre and broadband equipment provider, GX Group continues to lead the industry by delivering state-of-the-art solutions to global consumers. WiFi 6, called 802.11ax, showcases accelerated speeds and enhanced performance, simultaneously enabling seamless and uninterrupted connectivity across multiple devices.

Apart from hardware, we have also introduced the 'OpenWRT' based solution for wireless Internet devices, an innovative software product developed by GX Group called MayaOS. This professional-grade solution offers a wide range of advanced features and functionalities, enhancing security. This is an important area in which GX has contributed to the standardisation forums, making it an ideal choice for enterprises and individuals seeking a reliable and secure wireless networking solution. Innovation fuels our vision, and quality defines our commitment to market.

Please tell us about your focus areas for the future.

In the fibre and broadband industry, our focus will be on QoS. We recognise the increasing demand for faster and more reliable Internet network infrastructures and self-healing and adapting networks. GX continuously invests in cutting-edge technologies and advancements to ensure seamless connectivity for their customers. As the industry progresses, our efforts will focus on expanding network infrastructure, deploying fibre-optic cables, introducing next-generation Wi-Fi products, and embracing the potential of 5G technology.

By prioritising these focus areas, GX Group aims to deliver superior broadband services that meet the ever-growing needs of businesses and individuals, signalling an exciting future for the telecom industry.

Please elaborate on the technologies being displayed at the expo.

GX Group has been in the industry for the past 20 years, during which we have participated in advancements in Wi-Fi and fibre-powered devices. Relying on that experience, we will be displaying the below products at the Convergence India expo:

- GPON and XGSPON portfolio with ONT and OLTs
- Access Points / Routers
- Network Switches
- Management platform. ∎

Empower your journey with the best technology partner — where innovation meets reliability, and possibilities become solutions

Celebrating the Potential of the Growing India

With its "Made-in-Bharat" campaign and dedicated initiatives, CP PLUS is determined to realise India's inherent potential. Celebrating the spirit of Indianness, the brand has launched several focused endeavours to turn India into a global powerhouse.

The company's 'Made in Bharat' initiative is more than a manufacturing strategy; it is a commitment towards promoting self-reliance and innovation in the security and surveillance sector across the country. CP PLUS has set up the world's largest manufacturing facility for surveillance products. With a total capacity of more than 3 million units per month, this facility can be further expanded to cater to global security demands.

Meanwhile, the brand's rising investments in R&D are a testament to its commitment towards innovation and

≷ CP PLUS

excellence. CP PLUS has launched the ViDu series - a comprehensive range of indigenised advanced CCTV cameras designed, developed and manufactured in India, showcasing its commitment to the 'Make in Bharat' vision. "Our mission is to make life safer and smarter for a billion-plus Indians everywhere. We have introduced several India-focused innovations, making dependability more accessible. As we grow, we are stepping up our commitment to help build a truly self-reliant Bharat", observed Mr. Aditya Khemka, Managing Director, CP PLUS (Aditya Group).

The brand has also launched CP PLUS World, a network of state-of-the-art experience centres strategically located in six metropolitan cities across India. These centres provide customers, partners, and security

enthusiasts with an immersive and interactive experience of cutting-edge security solutions. In another initiative, CP PLUS is inviting its stakeholders, partners, and security professionals for exclusive factory tours of its manufacturing facility, which proudly stands as the largest in the world. These tours offer a behind-the-scenes glimpse into the meticulous processes and advanced technologies that drive the company's production.

These focused endeavours underscore the commitment of CP PLUS towards empowering its customers while driving progress in the security industry in India and worldwide. Through these cumulative efforts, the company showcases its security and surveillance industry leadership by embracing the 'Make in India' spirit. ∎

Showcasing commitment to the 'Make in India' vision by promoting sef-reliance and innovation

Tailored Solutions for Clients Needs

Pinkesh Kotecha
MD and Chairman,
Ishan Technologies

Tell us about the philosophy and vision of the company.

The philosophy of Ishan Technologies is deeply rooted in customisation and a client-centric approach. Our ethos revolves around the belief that a standardised approach to information and communication technology (ICT) may not adequately address a business's unique requirements and challenges. We aim to provide agility, competitiveness, and innovation beyond the conventional one-size-fits-all approach by embracing a philosophy of tailoring solutions to meet specific client needs.

Looking ahead, Ishan Technologies envisions itself as a leading provider of comprehensive technology solutions. With a strategic focus on network services, system integration, data centre, Cloud services, and cybersecurity services, the company aspires to offer end-to-end solutions that cater to the evolving demands of businesses across diverse sectors. This vision positions us as a holistic technology partner capable of addressing the multifaceted needs of its clients in an ever-changing digital landscape.

Please elaborate on the technologies on display at the expo.

At the expo, we will display Ishan Network services (ISP), data centre, Cloud services, and cybersecurity services.

Please discuss your focus areas for the future.

Ishan Technologies stands at the forefront as a premier ICT provider that positions us to meet our clientele's diverse needs adeptly. With a rising trend towards hybrid work, we anticipate a growing demand for robust connectivity solutions to support this transition. As data continues to be the lifeblood of modern businesses, we expect data pipelines to grow thicker, emphasising the need for scalable and reliable network infrastructure. Meanwhile, security remains a paramount concern in this digital age, and we are committed to playing an essential role in providing state-of-the-art security solutions to our clients. The symbiotic relationship between security and cloud services is evident. We foresee increasing businesses recognising the significance of comprehensive security measures in tandem with their Cloud adoption.

The rapid growth of over 4 to 4.5 crore viewers in the Over-the-Top (OTT) content consumption sector presents further opportunities. As the audience expands, Ishan Technologies is strategically positioned to provide the necessary infrastructure and solutions to support OTT providers and ensure seamless content delivery. Meanwhile, the onset of Industrial Revolution 4.0 is reshaping industries and manufacturing processes. Quality control, enriched with AI and applications, is becoming integral to businesses across sectors. Our strategy involves enabling more automation and facilitating the adoption of new trends in line with this industrial transformation.

Accordingly, the company will take a giant leap by launching its uptime Tier 3 certified Data Centre in Mumbai.

What challenges and roadblocks are faced by your industry?

In the dynamic ICT landscape, challenges such as a persistent digital divide in regions needing more robust infrastructure, ageing technology infrastructure, limited public-private collaboration, and policy misalignment hinder widespread digitalisation. These hurdles are compounded by critical skill gaps, demanding a workforce proficient in areas like AI, ML, and cybersecurity. Bridging these gaps requires effective training programmes to keep the workforce abreast of technological advancements.

Despite challenges, optimism prevails with proactive government initiatives like 'Digital India' and 'Skill India', aiming to address the digital divide and enhance skill development. The recent introduction of the Data Protection Bill further demonstrates a commitment to cybersecurity and data privacy. These initiatives and collaborative efforts from industry stakeholders set the stage for a resilient and innovative future for the Indian ICT sector. The collective focus on upskilling, infrastructure development, and regulatory frameworks reflects a shared commitment to overcoming challenges and unlocking technology's full potential for societal and business benefit.

What are your views on the Data Protection law?

The recent introduction of the Data Protection Act of 2023 by the Indian government signifies a pivotal move toward safeguarding individual privacy and regulating the handling of personal data. This legislation sets forth clear guidelines for data processing, emphasising the importance of explicit consent, the appointment of data protection officers, and the integration of privacy considerations in the design of products and services.

For ICT companies in India, this policy carries significant implications, particularly in data storage, and encourages the localisation of data within the country, aligning with the global data sovereignty trend. This shift towards local data storage enhances data security by minimising cross-border risks and stimulates the growth of the domestic data centre industry. This policy positions India as a reliable destination for digital services, creating a level playing field for domestic and international players and fostering a conducive environment for innovation and investment within the ICT sector. Overall, the Data Protection Act is poised to shape a more secure and competitive landscape for the digital economy in India.

How can your solutions be leveraged for a better tomorrow?

Our Network Services are pivotal in ensuring reliable and high-speed connectivity, enabling efficient communication in an interconnected world. Coupled with Ishan's system integration offerings, the company facilitates seamless business operations, fostering agility and efficiency. Our data centre and cloud services contribute to a scalable and accessible digital infrastructure, empowering organisations to innovate and reduce costs in the digital era while enabling resilience from cyber threats through cyber security services. ∎

Our vision is rooted in the belief that technology, when harnessed responsibly, has the power to transform lives and drive societal progress

Turning Ordinary Devices into Extraordinary Workstations

Atul Gupta
Director, Lapcare

Tell us about the philosophy and vision of the company.

We recognise the importance of diverse talents coming together to solve complex problems and drive innovation. Also, we emphasise a commitment to innovation, aiming to develop cutting-edge products that anticipate and meet the evolving needs of users and businesses. In recent years, many companies have adopted a philosophy that promotes environmental sustainability. This can involve using eco-friendly materials, reducing electronic waste, and implementing energy-efficient designs. We envision enabling digital transformation for businesses and industries, further aiming to leverage technology to streamline processes, enhance efficiency, and drive overall growth.

What innovations are being developed by the company?

Ongoing developments in wireless technology, such as Bluetooth and Wi-Fi, are influencing laptop peripherals. This includes wireless keyboards, mice, and other accessories that offer enhanced convenience and reduced cable clutter. We have developed mechanical keyboards for their tactile feedback and durability. We continue innovating in this space, introducing new switch types, customisable keycaps, and improved overall performance, further adding towards Gaming Peripherals. With the growing popularity of gaming, we are focused on developing gaming-specific accessories such as high-performance mice, mechanical gaming keyboards, RGB lighting customisation, and multi-device connectivity. There is also an increasing emphasis on sustainability in product development.

**Please elaborate on the technologies on display at the expo.**

At the expo, we will display USB-C and Thunderbolt connectivity, mechanical keyboards, wireless charging pads, docking stations, smart watches, home audio systems, ergonomic accessories, bag packs, and networking equipment.

In the future, we hope to offer solutions in wireless connectivity, enhanced ergonomics, sustainability initiatives, advanced input methods, integration with AI and smart features, gaming accessories, home audio systems, multi-device connectivity, and much more.

What are the challenges and roadblocks faced by your industry?

The rise in remote work and changing work patterns can influence the demand for specific peripherals. We have to adapt their product offerings to cater to the needs of remote and mobile workers. It is important
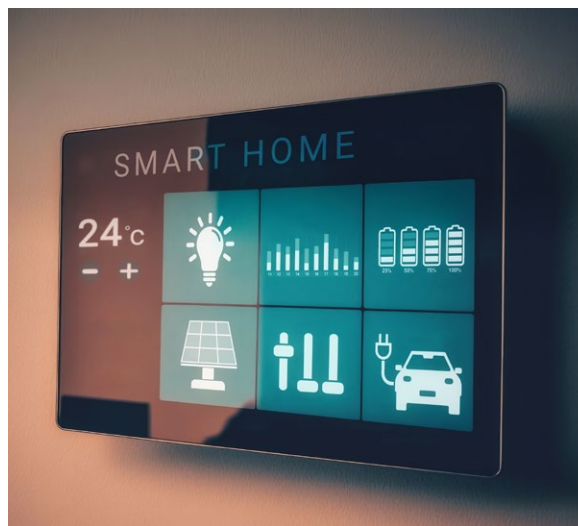
In the ever-evolving landscape of technology, IT/laptop peripherals are the unsung heroes, turning ordinary devices into extraordinary workstations. They are silent enablers of productivity

to note that the challenges faced by our industry can evolve, and new issues may arise. Industry participants must stay vigilant, agile, and innovative to navigate these challenges successfully.

Are there any modifications in the regulatory framework that you would advocate for?
As electronic waste (e-waste) continues to be a global concern, regulations promoting responsible e-waste management can be beneficial. This may require manufacturers to take responsibility for the end-of-life disposal of their products. Similarly, encouraging energy-efficient designs in IT peripherals can contribute to overall energy savings and environmental sustainability. Advocating for standards that promote energy efficiency can drive innovation in this direction. ∎

Enhancing Realtime Media Performance

Paul Schiller
Product Marketing Manager, TAG Video Systems

As a global leader in integrated IP probing, monitoring, visualisation, and analytics, TAG Video Systems is constantly enhancing its Realtime Media Performance platform. The platform is enriched with cloud-compatible features and functionalities to help broadcasters, content creators, and service providers streamline operations and scale efficiently. Bridge Technology, a key capability of the TAG solution, transforms media stream distribution by optimising efficiency and reducing network load.

In a strategic move, TAG has partnered with Beamr to incorporate the Beamr 5 HEVC encoder, ensuring high-quality video delivery with reduced bandwidth. This collaboration cuts down on egress costs and facilitates UHD content delivery with HDR, improving the viewer experience substantially.

To offer broadcasters agility and Zero Friction® operational efficiency, TAG has broadened its cloud service integrations to include giants like Google Cloud Platform and Alibaba Cloud. This complements their existing support for services such as AWS and Microsoft Azure. WebRTC support showcases TAG's commitment to innovation, enabling low-latency streaming and versatile broadcasting services.

TAG's integrations with Nevion and Dataminer underscore their capability to offer deep insights into infrastructure and content health, ensuring compliance with SMPTE ST-2110 standards and simplifying complex media workflows. The system's compatibility with data analytics tools like Elastic Search and Grafana empowers broadcasters with actionable data on video quality, including QoS and QoE metrics.

The introduction of TAG's unique Content Matching Technology, with its detection of precise video and audio synchronisation, addresses critical broadcast challenges such as latency measurement and lip sync discrepancies. Furthermore, the system's support for up to 32 subtitle tracks on a single video tile, including dual-byte languages, exemplifies TAG's dedication to enhancing global content distribution.

TAG's latest developments demonstrate its unwavering dedication to advancing broadcast technology, offering high-quality, efficient solutions and invaluable business insights that keep its clients ahead in a dynamic industry. ∎
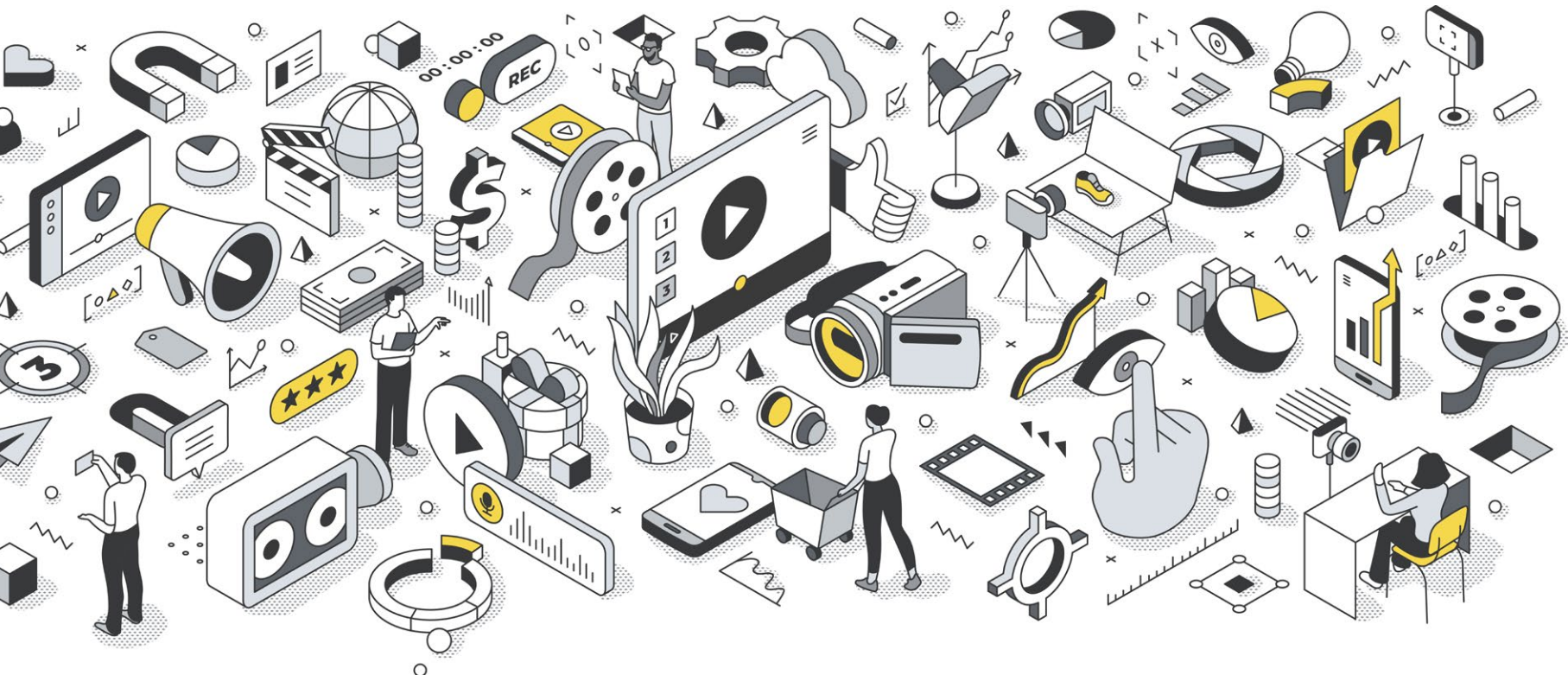
Ateme

Maximizing value for Media & Entertainment Industry

Content may be crucial in the media and entertainment industry. However, it is not sufficient. Once you have the right content, as a broadcaster or a streaming service provider, three things are needed to become profitable. First, you need to optimise the operations to reduce costs. Second, you monetise the content to make revenue. And third, captivate the audience to keep them coming back.

At Convergence India 2024, Ateme will be showcasing solutions focused on these three parameters to help players in the broadcast and streaming industry increase their profitability. The company will showcase the complete suite of end-to-end video-delivery solutions for broadcasting and OTT, from encoders to solutions, to help customers build their own CDN.

Optimise Operations
The Cloud is a great way to streamline operations, reduce capital expenditure, and achieve greater agility. Ateme will showcase its solutions that inject flexibility at every workflow step – from raw content processing to encoding, decoding, statmux, origin server/packaging, and CDN. With cloud-native solutions, Ateme enables a smooth cloud migration to major Cloud providers such as Akamai, AWS, GCP, and Microsoft Azure.

A particular focus at Convergence India will be Ateme's Cloud DVR solution in the Cloud. Selected by Swisscom in 2023 for deployment on AWS, this is the world's first large-scale Cloud DVR. The solution can seamlessly follow the growth of subscriber recordings, thus enabling new business models to increase monetisation and the stickiness of the OTT service.

Going beyond the Cloud's agility, Ateme goes further with its Software-as-a-Service (SaaS) solution, Ateme+. This easy-to-use, single-pane-of-glass solution reduces time-to-market for a complete OTT service and introduces even more flexibility, such as occasional-use channels that can run in minutes.

Monetise
In a highly competitive market with soaring content costs, it is essential to maximise the monetisation of each piece of content. This can be achieved through targeted advertising, which boosts the value of the ad spaces. Ateme will showcase its complete, end-to-end solution for Dynamic Ad Insertion, enabling regional ads by inserting ads in the contribution workflow for affiliates and personalised ads by replacing them as they reach end viewers.

Captivate your Audience
Quality is non-negotiable in video content. Ateme will showcase its solutions, enabling broadcasters and streaming service providers to boost viewers' quality of experience (QoE) with High Dynamic Range (HDR) and Dolby surround sound. HDR brings vivid colours, enhanced contrast, and heightened realism to video content. The company's integration of Dolby surround sound immerses viewers into the heart of the action.

End-to-End OTT Solutions
Ateme's presence at Convergence India is not just about showcasing individual components; it is about offering end-to-end solutions for OTT delivery. From cutting-edge encoders that ensure optimal video compression to a seamlessly integrated content delivery network (CDN), Ateme provides a holistic approach to content delivery.

Meet Ateme at Convergence India
For those eager to delve deeper into Ateme's transformative solutions, a meeting at the Convergence India expo is a must. The company will be present at Hall 4, booth C1 at the three-day event and invites broadcasters and streaming service providers to explore the possibilities of smooth cloud migration and flexible SaaS business models, monetisation strategies, and enhancing viewer experiences through HDR and Dolby surround sound. ∎

We will showcase the suite of video-delivery solutions for broadcasting and OTT, from encoders to solutions, to help customers build their own CDN

Developing Accessories to Compliment Latest Tech

Gulshan Kumar
Director, Soroo

Tell us about the philosophy and vision of the company.
SoRoo - The Future Technology, believes that technology should seamlessly integrate into our lives, enhancing our experiences rather than complicating them. The vision is clear: To be a leader in providing cutting-edge mobile accessories that redefine convenience and style. This commitment to user-centric design and functionality is the cornerstone of our identity.

What innovations are being developed by SoRoo?
SoRoo is at the forefront of developing accessories that not only complement the latest technologies but also anticipate and meet the evolving needs of consumers. From fast chargers to smart accessories that enhance user interaction, SoRoo is setting benchmarks for the industry.

In your view, what are the challenges faced by your industry?
Undoubtedly, the mobile accessories industry has challenges. Consistent changes in trends and technological advancements pose a constant challenge to stay ahead of the curve. Increasing consumer demands and expectations create roadblocks that demand strategic navigation. However, SoRoo embraces these challenges as opportunities for growth and refinement.

What will be your focus areas for the future?
The future for SoRoo is full of promise. All the members of the company are fully committed towards their assigned roles. Expanding into emerging markets and continuously enhancing customer experience through intuitive designs are also focal points for SoRoo.

SoRoo is fully committed towards its consumers. Expect a wave of accessories that not only meet but exceed user expectations. Enhanced focus on sustainability will be integral to SoRoo's future endeavours. The company is shaping the narrative of the mobile accessories industry.

Please elaborate on the technologies on display at the expo.
The expo serves as a platform to showcase SoRoo's commitment to staying ahead in the market. We will display a spectrum of cutting-edge technologies, including revolutionary materials for durability, advancements in wireless connectivity and a vast range of wireless speakers. ∎

Our vision is to be a leader in providing cutting-edge mobile accessories and we are committed to user-centric design and functionality as the cornerstone of our identity
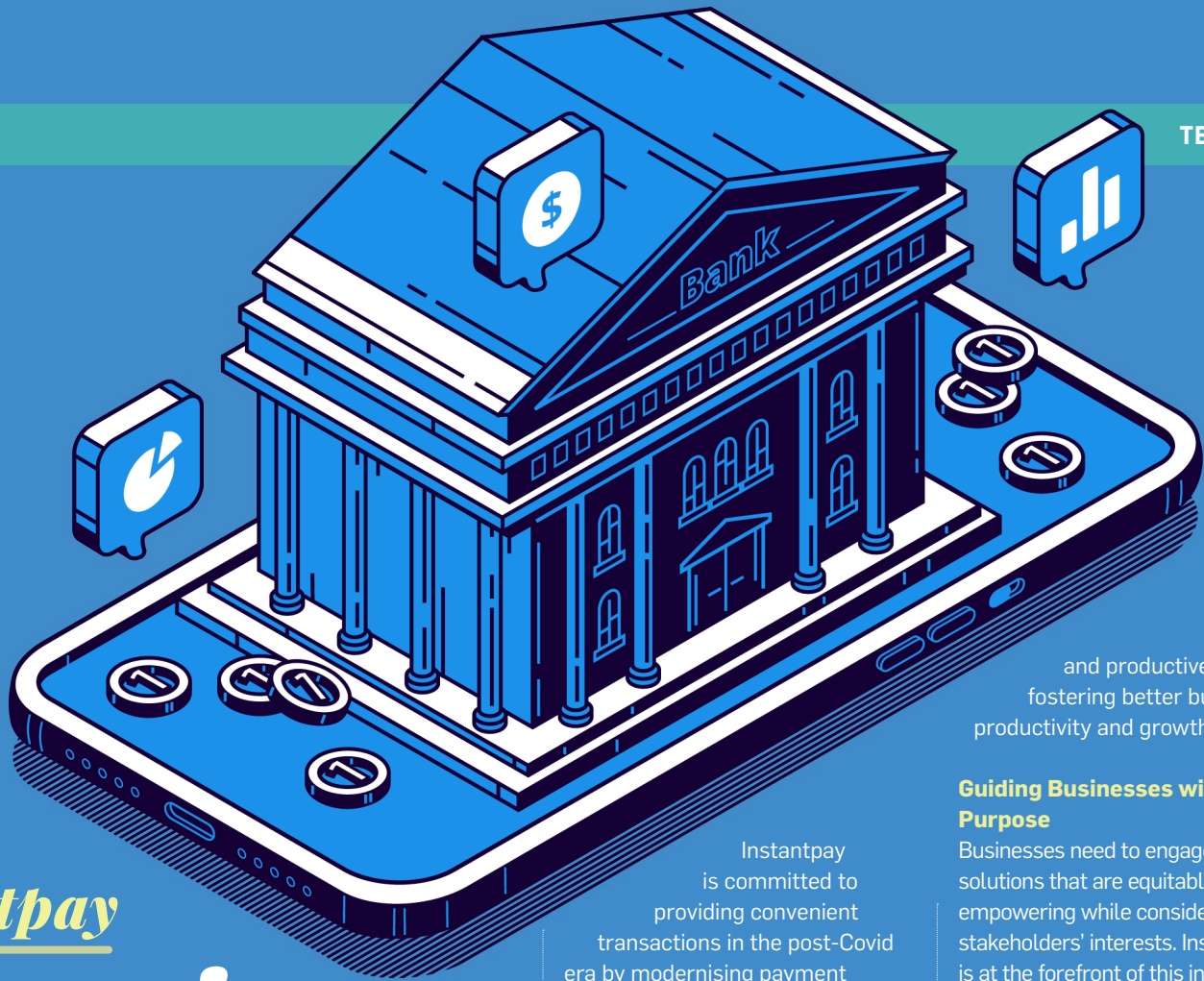
Instantpay

Powering the Future of Finance

Instantpay is leading the way in the fintech revolution by offering solutions for business banking that prioritise simplicity, automation, and seamless integration. With cutting-edge technology at its core, we are dedicated to providing access and efficiency to millions of businesses. Instantpay aims to become the most trusted fintech brand by offering valuable and ethical products that drive growth. Our mantra is to simplify business finances and unlock potential.

Onboarding Reimagined
Instantpay takes an approach to onboarding by prioritising identity verification. We offer automated solutions that prevent fraud and streamline compliance without causing any inconvenience.

The company ensures secure identities, accounts, and business verification by using document analysis, text matching, and geo-location insights. The intelligent verification APIs provided by Instantpay establish trust and convenience from the start. These tools enable customer acquisition while maintaining safety measures and regulatory compliance. It is a balance between risk mitigation and efficient service delivery.

Pandemic-proof Payments
In response to the induced changes in consumer behaviour, Instantpay quickly adapted by offering contactless payment options and friendly financial services such as lightning-fast transfers, virtual cards, and AI-powered security measures to ensure secure transactions for every payment.

Instantpay is committed to providing convenient transactions in the post-Covid era by modernising payment methods and enhancing user experiences. The company's use of APIs promotes affordability and accessibility, driving service inclusivity. With its ability to adapt and remain resilient, Instantpay is well-positioned to revolutionise the finance industry.

Streamlining Business Finances
Navigating multiple, disjointed systems often leads to inefficiencies in manual processes and complex record-keeping for businesses. Instantpay addresses this challenge by consolidating critical financial operations into a single, integrated platform. From banking and payments to accounting, identity verification, and working capital management, the company offers it all in a single space. This centralisation of services significantly reduces time spent on repetitive tasks, freeing up teams to concentrate on innovation and enhancing customer service. Instantpay transforms your finance management into a well-organised and productive hub, fostering better business productivity and growth.

Guiding Businesses with Purpose
Businesses need to engage in fintech solutions that are equitable and empowering while considering the stakeholders' interests. Instantpay is at the forefront of this initiative, working closely with financial and governmental institutions to cultivate a robust industry that benefits individuals and the broader economy. Through progressive guidelines, Instantpay drives innovation in financial services, ensuring more comprehensive access and inclusion. This approach prioritises safety and adheres to ethical standards, exemplifying a model of responsible collaboration between industry leaders and government entities to create a significant social impact.

Expo Launchboard
At Convergence India 2024, Instantpay will introduce advanced verification technology that simplifies fraud protection and compliance with automated identity and company checks. It is a trust-building onboarding solution, reducing risk without sacrificing convenience or speed. The company also showcases its easy-to-use platform that brings payments, banking, lending, and more on a single platform, offering a glimpse into the future of straightforward business finance. ■

We offer automated solutions that prevent fraud and streamline compliance without causing any inconvenience

Amani

Technology Enhancing People's Lives

Tarun Bhutani
MD, Amani

What is Amani's philosophy and vision?
Amani is driven by the belief that technology should enhance and simplify people's lives. Our vision is to be a leading force in the mobile accessories industry by providing innovative and stylish products that seamlessly integrate with the modern lifestyle.

What innovations/products is the company working on?
We are committed to staying at the forefront of innovation. Currently, we are focusing on developing cutting-edge wireless charging solutions, fast charging solutions, eco-friendly materials for our products, and incorporating smart technologies to enhance user experiences.

Please discuss the technologies you plan to display at the expo.
At Convergence India, we will unveil a game-changing power bank capable of charging phones in 30 minutes. Our showcase also includes a sustainable dual battery setup in smartphones like OnePlus, Samsung, Vivo, and Oppo. This innovation extends smartphone life cycles and ensures rapid charging, ushering in a new era of efficiency.

Please tell us about the focus areas for the future.
Our primary focus is on sustainability and customer-centric innovation. We aim to reduce our environmental footprint by introducing more eco-friendly materials in our products. Additionally, we are investing in research and development to bring accessories that meet and exceed our customers' evolving needs.

What can we expect from Amani in the times to come?
Amani will remain a trailblazer in the mobile accessories industry in the coming years. Expect a broader product range, deeper integration of sustainable practices, and a commitment to delivering products and complete lifestyle solutions that resonate with our customers' evolving needs.

Do you believe the industry has several challenges ahead of itself?
Like other industries, the mobile accessories sector faces challenges such as rapid technological advancements, global supply chain disruptions, and the need to meet customer expectations for quality and design consistently. Navigating these challenges requires agility, adaptability, and a strong commitment to continuous improvement.

Are there any modifications in the regulatory framework that you would advocate for?
A balanced regulatory framework fosters healthy competition and ensures consumer protection. We advocate for regulations that encourage innovation while maintaining high product safety and quality standards. Striking this balance is crucial for the sustainable growth of the industry. ∎

Amani's primary focus is on sustainability and customer-centric innovation, so we are investing in R&D to bring accessories that meet and exceed our customers' evolving needs

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