INDIA MOBILE CONGRESS
01 02 03 04 OCT 2022

New Digital Universe

IMC 2022 - Glimpses

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Foreward

India Mobile Congress - Asia's largest technology forum - where voice, data and a billion minds converge. IMC, since its inception, has established itself as a leading forum for bringing together industry, government, academia, and other ecosystem players to discuss, deliberate, demonstrate and display the latest in the world of TMT.

India Mobile Congress 2022 was scheduled from October 1, 2022 to October 4, 2022, and was inaugurated by the Hon'ble Prime Minister of India, Shri Narendra Modi. IMC 2022 attracted the biggest names in the TMT space all over the world and was bigger and better.

The pivotal conference held at Pragati Maidan, New Delhi, focused on the evolutionary path of dynamic network technologies with a special focus on 5G, and what it holds for businesses and individuals for the future through ground-breaking industry applications and meaningful dialogues among thought leaders of the TMT industry who are shaping our connected world.

IMC 2022 paved way for India's 5G revolution through pivotal launch of the 5G services, promotion of entrepreneurship, facilitation of supportive regulatory & policy frameworks and increase in the number of technology exports by the country. The landmark event also gave impetus to grass-root manufacturing with the notion of 'Sabka Digital Saath, Sabka Digital Vikaas' and our Prime Minister's vision of India becoming a developed nation by 2047 and goal of being the global leader in 5G technology.

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Inauguration of India Mobile Congress 2022 and Launch of 5G Services by Shri Narendra Modi, Hon'ble Prime Minister

Executive
SUMMARY

India Mobile Congress (IMC) 2022 the largest digital event in India and Asia organized by the **Department of Telecommunications** (DoT) and **Cellular Operators Association of India** (COAI) was held from 1st to 4th October 2022 at New Delhi. Recognizing the immense benefits of digital technology advancement, the 6th edition of IMC-2022 with the theme of **'New Digital Universe'** had the objective of promoting India as a communication leader globally.

Inaugurated by Hon'ble Prime Minister **Shri Narendra Modi** on Saturday, 1st October 2022 at New Delhi. IMC 2022 brought together stakeholders across the ICT industry to debate, discuss, disseminate and demonstrate the endless potential of 5G. Aligned with Hon'ble Prime Minister's vision of ensuring that benefits of digital technology to the remotest corner of India as envisioned in Antyodaya the event focused on ideating how to democratize 5G in India across sectors like healthcare, education, agriculture, animal husbandry, industrial manufacturing, environment and worker safety apart from promoting Atmanirbharta in communication sector.

The event also showcased how India is championing technology fostering international regional cooperation inspiring inclusive & sustainable development promoting entrepreneurship and innovation through startups driving foreign and local investments amongst others. IMC 2022 brought together leading thinkers entrepreneurs' innovators and government officials to discuss and showcase unique opportunities emerging from the rapid adoption and spread of digital technology which is expected to contribute 0.5% of GDP in the coming years through the advent of 5G.

The inauguration session was also graced by **Shri Ashwini Vaishnaw** Hon'ble Minister for Communications Electronics & Information Technology and Railways, **Shri Devusinh Chauhan** Hon'ble Minister of State for Communications, **Shri K Rajaraman**

Secretary Department of Telecommunications along with other government officials. **Mr. Mukesh Ambani** Chairman of Reliance Industries, **Mr. Sunil Bharti Mittal** Chairman of Bharti enterprises, **Mr. Kumar Mangalam Birla** Chairman of Aditya Birla Group also participated in the inaugural session along with other industry stakeholders.

The inauguration session had participation of **Shri Bhupendra Rajnikant Patel**, Hon'ble Chief Minister of Gujarat from Ahmedabad, **Shri Eknath Sambhaji Shinde**, Hon'ble Chief Minister of Maharashtra from Mumbai, **Shri Naveen Patnaik**, Hon'ble Chief Minister of Odisha from Bhubaneswar, **Shri Yogi Adityanath**, Hon'ble Chief Minister of Uttar Pradesh and **Shri Vinai Kumar Saxena**, Lieutenant Governor of Delhi connected remotely.

During the course of the four days the event was also graced by **Shri Piyush Vedprakash Goyal** Union Minister of Commerce and Industry, **Shri Mansukh Laxmanbhai Mandaviya** Hon'ble Union Minister of Health and Family Welfare, **Shri Pralhad Venkatesh Joshi** Union Minister of Parliamentary Affairs Coal and Mines, **Shri Rajeev Chandrasekhar** Minister of State for Electronics & Information Technology and Skill Development & Entrepreneurship, **Shri Bhanu Pratap Singh Verma**, Minister of State for Micro, Small & Medium Enterprises and Secretaries as well as senior officials from various ministries and public departments of Government of India.

IMC 2022 was one of its kind technology events held in person after two years which attracted over one lakh attendees including students, more than 1,300 CXO's, over 6,900 government delegates, over 1,900 representatives from start-ups and MSMEs, more than 350 speakers and 239 exhibitors.

Event Summary

Asia's largest Tech Event

100,210
Attendees

Connecting **100**
START-UPS

26k sqm
Exhibition area

239
Exhibitors

94 LIVE
5G Use-case Demo

150
GOVT. DEPTs.
Participated

#IMC2022

750 Mn
Social Media Impressions

15.4Mn
Video Views

1,247
Media persons

2,530
Media coverages
(Print, Electronics)

33,008
Tweets

54,187
IMC 2022
App downloads

New Digital
Universe

"New India will not be a passive consumer of technology but would actively participate in its production and deployment."

Hon'ble Prime Minister Shri Narendra Modi gave his vision and guided the nation, stressing that today's meeting is global but its ramifications and directions are local. He said India's tremendous progress in the 21st century begins today. The nation and telecom industry are giving 130 billion Indians a great gift of 5G today. 5G is the start of a limitless vista of possibilities.

"With 5G India is setting an international standard in telecom technology"
He also highlighted the government's efforts on developing the four pillars under Digital India.

- Cost of the device
- Digital connectivity
- Cost of data
- Digital first

Hon'ble Prime Minister appealed the leaders of the telecom industry to unleash every aspect of 5G to bring about a revolution in the country. The address closed with congratulatory wishes to the citizens of India on the launch of 5G and the goal of making India a global leader in technology.

Shri Ashwini Vaishnav, Hon'ble Minister for Communications, Electronics & Information Technology and Railways heralded 1 October as a day to be marked as a golden day in the history of Telecom Industry in India. He highlighted the reforms undertaken by his Government under Honourble PM Shri Modi's guidance who has categorized the 'Telecom Sector' as a 'Strategic Sector', emphasizing the importance of telecom in the growth story of India.

He highlighted that INR 35,000 Crore rupees have been sanctioned so that the 5G technology could reach to every village of the country.

He was proud to demonstrate India's 5G technology and optimistic about India's telecom technological leadership in the next years.

Shri Devusinh Chauhan, Hon'ble Minister of State for Communications acknowledged the day as a historic day for our country. Highlighting the reforms made in the industry, he attributed the success of the sector to Hon'ble Prime Minister's vision of ease of living for the citizens, ease of doing business for the industry and promoting Atmanirbharta which had led India to become a 4G enabled country earlier, and now ushering a new era with launch of 5G. He communicated his confidence in the launch of 5G, which will propel India to new heights and will be pivotal for the growth of India in the years to come.

Reliance Industries Chairman, Mukesh Ambani noted that our revered Prime Minister Shri Modi shares the aim of India being a developed nation by 2047 and that every government action and policy is carefully crafted to achieve this goal. He believes 5G stands for five goals that could transform our nation which includes inexpensive high quality education and skill development, affordable high-quality healthcare, digitalization and intelligent management of agriculture, commerce and other industries, economic efficiency in making India an innovation hub and shift to AI in all sectors.

It will lead to the acceleration of growth by building a 40-trillion-dollar economy by 2047 and "Inclusion in Development" by raising India's per capita income from $2000 to $20000 by 2047. 5G will accelerate "Sabka Digital Saath Sabka Digital Vikaas" in India.

By December 2023 Mr. Ambani projected nationwide 5G connectivity.

Delhi Kolkata Mumbai and Chennai will have Jio 5G before Diwali.

Sunil Bharti Mittal, Chairman of Bharti Enterprises congratulated and praised Shri Narendra Modi for his interest in and ambition to use emerging technology for national progress.

He said traffic moved to villages and residences during the pandemic yet the nation's heartbeat never stopped. He also praised Make in India and Digital India mission for making India worldwide electronics manufacturing hub and providing acceleration to India's Digital Dream. He hoped more unicorns from India with 5G.

Airtel will launch 5G services in eight cities on 1 October 2022 and nationally by March 2024.

Aditya Birla Group Chairman, Kumar Mangalam Birla said 5G is a gamechanger that shows India's global prowess and reinforced telecom technology's role in India's economic progress. He praised the Hon'ble Prime Minister of India Shri Narendra Modi for his vision and leadership which helped India become a global power and for supporting the telecom industry throughout the pandemic and for the industry's innovative communications reforms.

He predicted that the digital economy would add a trillion dollars to India's $5 trillion economy in the years following 5G's deployment. He predicted that 5G would significantly improve services in areas like Industry 4.0, automated manufacturing, smart cities, smart cars, smart homes, immersive gaming and other creative business and consumer solutions. Immersive education remote health care and intelligent agriculture can accelerate inclusive growth and prosperity in rural India with 5G.

Vodafone Idea has created the 5G ecosystem 5G use cases for Indian enterprises and consumers and acquired 5G spectrum through a well-designed auction.

Digital India Conference

Catalyzing *New India's* Techade

As 5G heralds a new era for growth, IMC hosted a Digital India Conference of State IT Ministers to charter a roadmap of future ready communication ecosystem through enabling legislations. The conference was held for 3 consecutive days at IMC with key dignitaries including **Shri Ashwini Vaishnaw**, Hon'ble Minister for Communications, Electronics & Information Technology and Railways, Government of India, **Shri Devusinh Chauhan**, Hon'ble Minister of State for Communications, Shri Rajeev Chandrasekhar Hon'ble Minister of State for Electronics & Information Technology and Skill Development & Entrepreneurship, Shri Alkesh Kumar Sharma, Secretary, MeitY, Shri K. Rajaraman, Chairman & Secretary DoT and IT Ministers from various States and UTs.

Rs 26,000 crore approved to install new **25,000 towers** in next 500 days

Support extended for Special assistance to States for capital expenditure worth **Rs 2000 crore**

Key Highlights

Inauguration of IMC 2022 by Hon'ble Prime Minister Shri Narendra Modi

Launch of 5G services in India by Hon'ble Prime Minister Shri Narendra Modi

Use-cases for Nation building (EduTech, HealthTech, AgriTech, Environment)

Launch of Digital India Conference of State IT Ministers

Indigenously developed 4G/5G products

Launch of TSuM, Launch of TTDF by Shri Ashwini Vaishnaw Hon'ble Minister for Communications Electronics & Information Technology & Railways

Installation of 100 5G labs across the country announced by Shri Ashwini Vaishnaw Hon'ble Minister for Communications Electronics & Information Technology & Railways

India Global Connect-Buyers Sellers meet

IMC 2022 Awards

IEEE certification program on 5G and IoT

Indigenously developed 4G/5G solutions

International Conference on "Towards Advanced 5G and 6G"

Key
Launches

01 Union Minister of Parliamentary Affairs Coal and Mines Prahlad Joshi launched QoSec Mining Solutions developed by Sensorise

02 Union Minster Mr. Ashwini Vaishnaw launched Sensorise SenseIT Energy MAID it is Make in India IoT solution launched under Atmanirbhar Bharat drive

03 HFCL announced launch of 5G 8T8R Macro Radio Unit

04 Mavenir announced 2G 4G and 5G Open RAN Made in India radios

05 STL launched Multiverse - India's first Multicore fibre and cable

06 STL unveiled 5G cosmos to help telcos fiberize their networks

07 Lava unveiled its first 'affordable' 5G smartphone Blaze 5G

08 Keysight extended MoU with IIT Madras to enable testing beyond 5G into 6 research

09 MediaTek will roll out 5G routers and Wi-Fi solutions in collaboration with Invendis
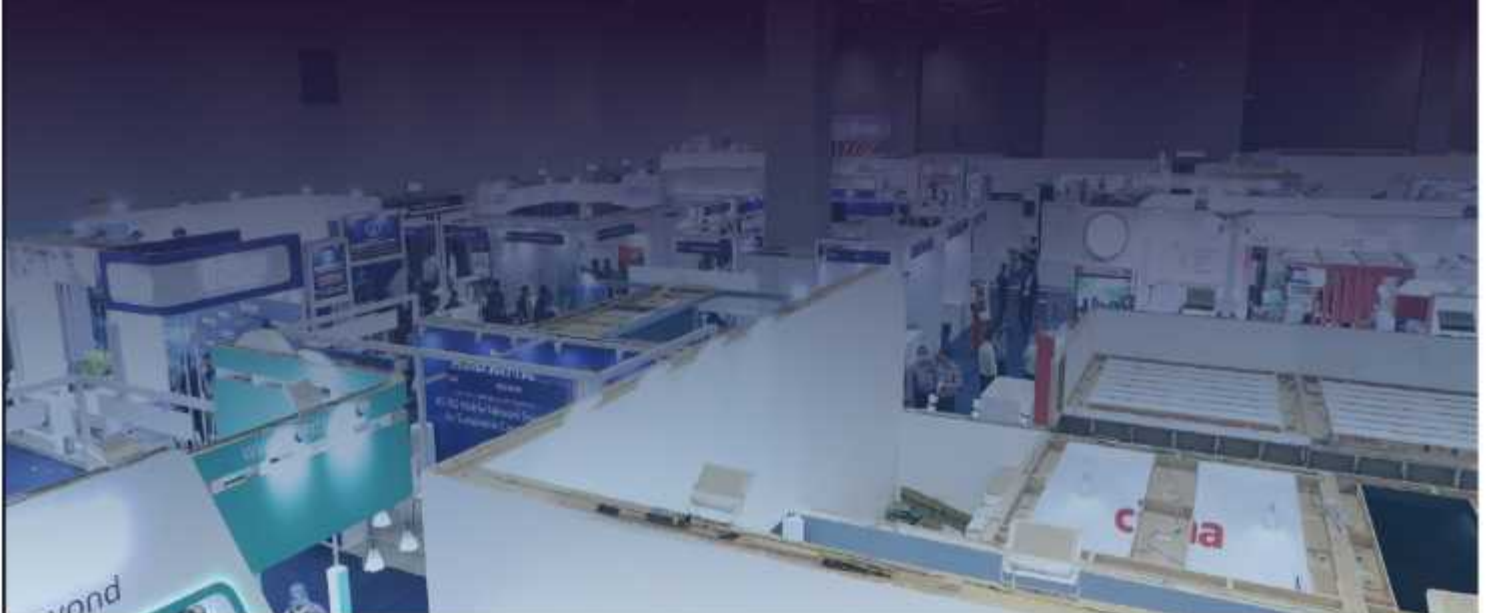
10 Anritsu India Pvt. Ltd. launched Rubidium state of the art RF MW Analog Signal Generator

11 Qualcomm hosted exhibits of its technologies and partner use cases such as 5G technologies 5G Wi-fi IoT auto devices and many more

12 Tejas Networks demonstrated end to end 5G/ 5G network based indigenous products
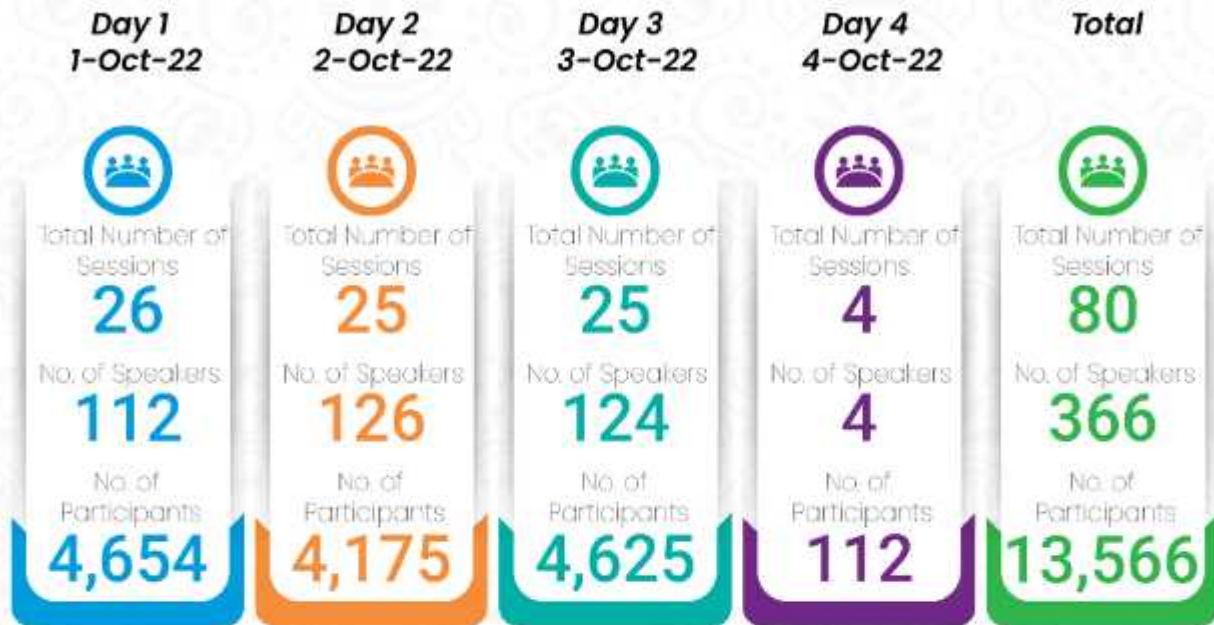
Day wise attendees

Categories	Day 1 Hon'able PM - Inaugration Program	Day 1 (Including PM Program)	Day 2	Day 3	Day 4	Total
Student & Academia	395	5,195	5,085	12,063	10,745	33,086
Chief Executive's	276	276	256	607	232	1,371
Start-Ups & MSMEs	238	507	321	761	312	1,901
Delegates	1,434	2,034	416	987	467	3,904
Government	872	929	777	1,843	3,365	6,914
Media	317	473	199	472	103	1,247
Visitor	NA	6,857	6,857	16,266	14,560	44,540
Exhibitors	NA	1,811	1,811	1,811	1,811	7,244
Total	3,532	18,082	15,722	34,811	31,595	1,00,210

Day wise conference

	Day 1 1-Oct-22	Day 2 2-Oct-22	Day 3 3-Oct-22	Day 4 4-Oct-22	Total
Total Number of Sessions	26	25	25	4	80
No. of Speakers	112	126	124	4	366
No. of Participants	4,654	4,175	4,625	112	13,566

Shri Narendra Modi
Hon'ble Prime Minister

Ropda Primary School - Ahmedabad

Launch of 5G in India at the inauguration of the 6ᵗʰ edition of India Mobile Congress 2022 by the Hon'ble Prime Minister of India Shri Narendra Modi.

Recognizing the importance of the communication sector in nation-building Hon'ble Prime Minister Shri Narendra Modi graced the industry's marquee event. After inaugurating the exhibition at Pragati Maidan in New Delhi he visited telecom operator and technology provider pavilions to see industry innovation firsthand.

At Reliance Jio's pavilion the Hon'ble Prime Minister was briefed on the indigenous end-to-end 5G technology created by a team of young Jio engineers. In addition he observed the show 'True 5G' gadgets and experienced the use case with Jio Glass. The Honorable Prime Minister saw remote diagnostics technology that connects doctors and patients. Community clinics can close the country's doctor-patient ratio using technology. This would increase access to quality OPD consultation from their local health center resulting in prompt medical treatments and better quality of life across India.

Hon'ble Prime Minister was explained about the indigenous end-to-end 5G technology developed by a team of young Jio engineers at Reliance Jio's pavilion.The company showcased agritech, healthtech, edutech solutions which has a potential to significantly contribute towards upliftment of India.

To promote start-up culture and encourage the youth to develop Make in India hardware and software solutions for 5G the Hon'ble Prime Minister visited few startup pavilions including Nav Wireless Technologies, Kenstel, Resonous and Nivetti S.

The Hon'ble Prime Minister unveiled the C-DoT-developed 5G Non-Standalone (NSA) Core at the pavilion. C-DoT 5G NSA Core at BSNL Chandigarh and 5G Radio Access Network showed end-to-end 5G calls. The Honorable PM was shown a novel use case of remote medical support by making video calls to Primary Health Centers in Bhran Kala village of Haryana and Matiana village of Himachal Pradesh utilizing the 5G NSA system and start-up e-health technologies. 5G allows catastrophe alerts/flash messaging on DD news/All India Radio/mobile phones.

Bharati Airtel presented the Hon'ble Prime Minister with many use cases pertaining to health and agriculture starting with 5G con nected a mbulance which can remotely link doctors to patients to check their vitals in real-time and respond quickly to make the most of the golden hour. Moving on to Ambu Pod a "Rural Mobile Clinic" which provides live medical consultations to distant communities. Remote locations in India will receive fast safe and efficient medical treatment via the 5G network. The next use case was Smart Farming where a 5G connection can connect lakhs of sensors and relay real-time data to improve agricultural productivity. Farmers will receive real-time crop fertility moisture and other data from sensors and AI cameras in the fields.

Hon'ble Prime Minister Shri Narendra Modi remotely drove a car in Sweden from the Ericsson pavilion using the newly rolled out 5G technology. Qualcomm showcased various ideas and technology to Hon'ble Prime Minister by Indian Startups under the Make In India campaign. Vodafone Idea limited demonstrated its SmartAgri initiative to Hon'ble Prime Minister. The Hon'ble Prime Minister virtually interacted with SmartAgri beneficiary farmers from Madhya Pradesh and Maharashtra on live Vi 5G network.

The key sessions conducted on Day 1 were Digital Billion : How to make it a reality, Technology infusion in Indian Army for future warfare, Built-In India - Open Wifi Networks (TIP), Skilling India for the new 5G paradigm, The Digital India Conference of State IT Ministers, Digital enablement through policy intervention, Towards Advanced 5G and 6G - An International Conference organized by DoT & TSDSI, Power of AI in 5G enterprise suite, Conversational AI: Elevate customer experience, Journey towards new possibilities for 5G use cases, Decoding metaverse, Cloud: Opening the realms of next generation operating models for Telcos. The sessions highlighted the government's role in enabling 5G, the emerging trends and how the potential of Digital Bharat can be unlocked.

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Shri Narendra Modi
Hon'ble Prime Minister

Highlights of Day 02

5G set to become a connectivity fabric for the country

The event covered the introduction of enterprises from the TSuM TTDF and VoICE consortiums. Shri Ashwini Vaishnaw Hon'ble Minister for Communications Electronics & Information Technology and Railways stated that the government will create 100 5G laboratories and institutes around the country and turn at least 12 of them into telecom incubators to educate students and promote R&D. In addition the government will give basic facilities and resources for students to experiment with various 5G use cases while industry experts have been tasked with providing technical knowledge and environment.

Key sessions conducted on Day 2 included Affordable devices: Future proofing India's Digital Success, The Security: A business priority in a connected world, Gati Shakti - Revolutionizing India's digital infrastructure, Open RAN: Building Innovation and Vendor Diversity in the marketplace, 5G test beds: From the lab to the field, Automated Networks for 5G workloads, Network as a Service (NaaS): new business models in a 5G era, Preventing spam - How blockchain is driving the RegTech revolution, Data Privacy & ethics: Doing the right thing, Regulatory and Spectrum : Bedrock for Digital Innovation, The Digital India Conference of State IT Ministers, Towards Advanced 5G and 6G - An International Conference organized by DoT & TSDSI and India Global Connect Buyers Sellers meet (TEPC).

Among other key highlights KPMG report '5G driving the next growth wave for Digital India' was launched.

This paper assists ICT organizations in repurposing reengineering and repositioning their products for a business environment that is becoming increasingly complicated and demanding. It offers a 5G road map and implementation recommendations.

FOR A SUCCESSFUL 5G ROADMAP AND IMPLEMENTATION THE FOLLOWING KEY ASPECTS COULD BE CONSIDERED:

- For Operators:

  In the 5G monetization journey resilient networks and routes to market are essential. Safeguarding margins by reducing the cost of ownership and becoming a connected enterprise via the cloud where traditional settings are transformed and made nimble.

- For Government:

  A forward-looking strategy that enables affordable services and compatible devices and accelerated architectural deployment that connects the world from the last mile. In addition strong regulations and defense architecture against cyberattacks and bringing privacy to life are of paramount importance adding dedicated steps in this regard will amplify connectivity and self-reliance.

The Draft Telecommunication Bill 2022 is a step in the right direction as it consolidates the legal framework replacing existing laws with future-ready legislation and aims at reducing ambiguity and promoting ease of doing business. The industry bodies enterprises as well as government should consider brainstorming and building consensus on operationalizing this framework.

100 start-ups exhibited at IMC 2022

Investment and Funding Opportunity in Digicom Startups/MSME

Shri Ashwini Vaishnaw Hon'ble Minister for Communications Electronics & Information Technology and Railways talked about the Telecom bill and told that according to recent interactions with the Telecom leaders four main points were observed as a voluntary undertaking credit penalties straightforward language and clearly defined spectrum. He emphasized organizing a roundtable with the experts and leaders for better implementation of the bill and promised to launch 100 5G labs and institutes across the country. He requested the Telecom leaders to help convert a minimum of 20 of these to incubator level for the students to test different 5G use cases and encouraged people to make India a leading country in 6G tech in the future.

Shri K. Rajaraman, Secretary, Department of Telecommunications talked about the relentless efforts of Department of Telecommunications to take forward the dream and vision of Atmanirbharta and enabling all the industry players especially with focus on startups, MSMEs and ecosystem players. He stated that under the guidance of the Hon'ble ministers, DoT brought together many initiatives under Telecom Startup mission which will enable the activities and facilitations required with all the departments and industry.

Yezdi Nagporewalla the CEO of KPMG in India said "5G will be a catalyst to India's path of reaching 20% digital GDP (by 2025). Today amongst others digital transformation initiatives through the smart factory remote healthcare and digital school are real and functioning. With 5G many of these initiatives will achieve scale and acceleration. The Indian telecom market offers the right ingredients to have its justifiable impact. This impact could range up to 0.5% of incremental GDP growth due to elements of flexibility low latency and expansive connectivity all of which will have a positive impact on businesses and their users (direct and indirect)."

Highlights of Day 03

Industry captains see the 5G launch as a big step for consumers and businesses

Key sessions conducted on Day 3 included Global CEO conclave: Steering India to the new digital universe, Global CTO Conclave: Building a connected ecosystem for the next Techade, Atmanirbhar Bharat: Road to self-reliance, Ease of doing business - Perceiving India's $5 Trillion vision, India EU Partnership Project Session (ETSI-TSDSI), Industry 4.0: Catalyzing the digital transformation, 5G accelerating the enterprise digital transformation, Cloud gaming: Creating experiential transformation, Harnessing the power of small-scale industries for the new digital universe and Emerging Trends in Broadcasting Sector which highlighted the various government initiatives and discussed the emerging technologies.

The key takeaway from CXO Conclave was that the 5G is covered with technology built in India. There are 4 main pillars- people technology operators and government. We must digitize procedures and provide the groundwork for a vibrant industry. As India becomes an export powerhouse for digital solutions cooperation with startups scalability affordability and sustainability of digital solutions and infrastructure will be key over the next several years. Further, the proliferation of 5G and some of the emerging technologies like IoT AI AR/ VR etc. become mainstream and a data explosion is expected in the country. To efficiently handle this requires a significant network and the 5G ecosystem.

In this age of hyper-modernization, consumerism, and macroeconomic expansion, the world around us is in a perpetual state of evolution and transformation. The needs of customers, companies, corporations, and governments are growing rapidly, with technology is at the forefront of addressing real-world issues. As more and more people in India adopt a lifestyle that is enabled by digital technology daily, the country has emerged as the market with one of the largest and fastest-growing populations of digital consumers. Similarly on the business front, while the level of adoption may be different, the entire spectrum of the corporate bandwagon from large conglomerates to SMEs is emerging as the epicenter of the digital revolution.

Telecommunication being at the bedrock of this transformation is currently concentrating on shifting from telco to techno by growing its business emphasis, cloud and managed services, edge computing, unified communications, Network as a Service, and citizen involvement with 5G use cases. However, companies are yet to determine the ramifications of a shift toward more opex-centric models and the effect of functions on the telecom operator industry.

Awards

The IMC Awards are highly coveted accolades, given to the best businesses, innovations and institutions. With an eminent jury comprising of technology experts and distinguished doyens from the industry, the Awards this year promise to recognize the latest and the best of the ICT and TMT industry, and in turn put up a spectacular and memorable show.

Best Digital Customer Experience Management
Technology/ Platform/Solution
Route Mobile

Best SME in Telecom Ecosystem
Amantya Technologies Private Limited

Best Made in India Telecom Innovation
Tejas Networks Ltd

Sustainable Growth Award for organization in
Telecom Ecosystem
Tata Communications Limited

Most Innovative Network Transformation Initiative
Nokia Solutions & Networks India Pvt Ltd

Most Innovative Approach to Network Security
Keysight Technologies, India

Most Innovative Telecom System Integration

HFCL Limited

Most Innovative Telecom Software/ Solution

Red Hat

Most Innovative Enterprise 5G use case
deployed in the year

Dimension NXG Private Limited

Most Innovative Telecom Software/ Solution

Mavenir Systems Private Limited

Most Innovative Enterprise 5G use case
deployed in the year

Innogle Technologies Pvt. Ltd.

Best Exhibit design of the year

Sterlite Technologies Limited

Best interactive exhibiter of the year

Ericsson India Private Limited

Highlights of Day 04
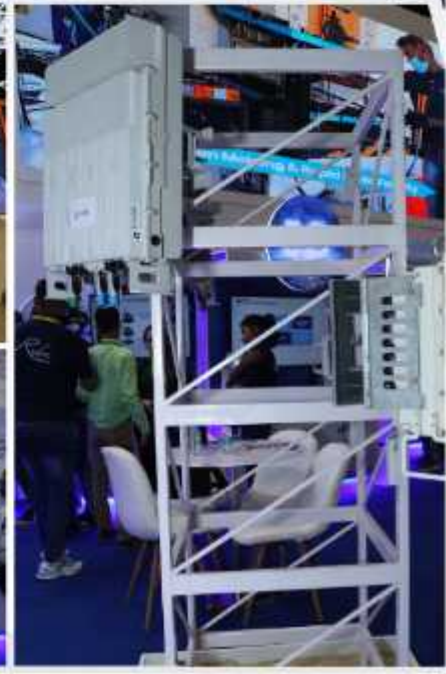
IEEE Certification Program on 5G and IoT

The fourth day also featured a certification program on 5G and IoT organized by IEEE and covering topics such as 5G, Network Architecture, Network Slicing, RAN SPLIT, 5G Test Bed, 5G Use cases and upcoming 6G wireless superseding 5G. Academics, researchers, students, independent technology enthusiasts and industry professionals participated in the program. The certification program was separated into three sessions led by Naru Pradeep from CDOT on All about 5G, Anand Mohandas from CDOT on Technology enabler to go beyond 5G and Dr. Vishal J. Rathore from CDAC on Sensor networks and IoT Proposals respectively.

Shri Prahlad Joshi, Union Minister of Parliamentary Affairs Coal and Mines, Shri PK Mishra Principal Secretary to the Prime Minister and Shri Amit Khare Advisor to the Prime Minister, Shri Tarun Kapoor, Advisor to the Prime Minister graced the event on the fourth day. Visitors were given a preview of cutting-edge technology and India's transition to a 5G future on the fourth day.

Keynotes

Shri K Rajaraman (IAS)
Chairman DCC & Secretary(T),
Ministry of Telecommunication

Shri V. L. Kantha Rao
IAS
Additional Secretary (T) – DoT

Shri A K Tiwari
Member(Technology),
Department of Telecom

Shri Anand Singh
IAS
Jt. Secy.(Telecom.) – DoT

Shri Alkesh Kumar Sharma
IAS, Secretary – MEITY

Shri Amit Agrawal
IAS
Additional Secretary – MEITY

Shri. Abhishek Singh
IAS, Managing Director &
CEO, Digital India Corporation
(DIC) – MEITY

Dr. P. D. Vaghela
IAS, Chairman – TRAI

Shri Pravin Kumar Purwar
CMD – BSNL

Shri. V. Raghunandan
Secretary – TRAI

Alex Rogers
President – Technology Licensing
(QTL) and Global Affairs,
Qualcomm

Abhijit Kishore
COO – Vi

Ajoy Menon
Senior Managing Director
& Cloud-First Lead, Advanced
Technology Center, Accenture

Akhilesh Tuteja
Partner and Head,
KPMG in India

Anand Bhaskar
Managing Director,
Service Provider Business,
Cisco India & SAARC

Ankit Agarwal
Managing Director, STL

Keynotes

Arvind Nevatia
Chief Enterprise Business
Officer, Vi

Azhar Sayeed
Chief technologist,
Global Telecommunications,
Red Hat

Denis Ng
Director Technology,
ProseTechnologies, India Pvt Ltd

Devin Brinkley
Engineering Lead,
Project Taara

Dharmender Khajuria
Head – Network Partnerships,
Bharti Airtel

Dr. Durga Malladi
SVP & GM,
Cellular Modems & Infrastructure,
Qualcomm Technologies, Inc.

Magnus Ewerbring
Vice President, CTO APAC,
Ericsson

Gen. Manoj Pandey
Chief of Army Staff,
Indian Army

Hari Om Rai
Chairman/CEO/Co-Founder,
Lava International

Jason Phipps
Sr. VP Global Customer
Engagement, Ciena

Kumar Vembu
MD and Co-founder &
CEO and founder, Angel Investor,
Zoho Corporation & GOFRUGAL

Landolt Fritz
SVP - S&BD, Huber + Sunher

Ludvig Landgren
Head of Digital Services,
Market Area South East Asia,
Oceania and India, Ericsson

Mahesh Krishnaswamy
Director & Project Lead,
Project Taara

Manish Goel
Director,
Field System Engineering,
Ciena

Mathew Oommen
President, Reliance Jio

Keynotes

Michael Tadault
Chief Technologist Telco,
Red Hat Asia Pacific

Narendra Narayana
Managing Director & President,
India, Rakuten Symphony

Nunzio Mirtillo
Head of Market Area,
South East Asia, Oceania & India,
Ericsson

Panch Chandrasekaran
Director,
Segment Marketing, ARM

Puneet Sethi
SVP & GM,
Radio Access Networks
Business Unit, Mavenir

Rajesh Agarwal
Secretary,
MSDE

Rajesh Chainani
CTO and Managing Director,
Service Provider Architectures,
APJC, Cisco

Randeep Sekhon
CTO, Bharti Airtel

Sanjay Malik
Senior Vice President,
Head of India Market, Nokia

Satish Dhanasekaran
President & Chief Executive Officer,
Keysight Technologies

**Shri Y.G.S.C.
Kishore Babu**
DD(GS.R.I.), Department
of Telecommunication (DoT)

Sunil Gopinath
CEO, Rakuten India

Vinay Ravuri
CEO | Founder, EdgeQ

Vinayak Godse
CEO, DSCI

Vineet Sirpaul
Sr. Vice President, Space World

Vishy Ramaswamy
Vice President,
5G & Digital Solutions,
Tata Communications

Speakers

Abhayications, Abhay Savargaonkar, VP, CSP GBC Head of technology, Nokia

Abhishek Shukla, Director & Regional Head, Telco Media and Entertainment, Red Hat India & South Asia, Red Hat

Ajay Chitkara, CEO – Airtel Business, Bharti Airtel

Ajay Jain, SVP – Networks, Bharti Airtel

Ajay Nijhawan, Director & Head Networking & Communication sales, Intel

Akanksha Saxena, Director, KPMG in India

Akhilesh Kumar, Deputy DG Department for Promotion of Industry and Internal Trade(DPIIT)

Akhilesh Tuteja, Partner and Head, KPMG in India

Akshaya Moondra, Chief Executive Officer, Vi

Alekh Tiwari, Partner, KPMG in India

Alok Shukla SVP - Product, Bharti Airtel

Amit Chaudhary, Business and Practice Head Cyber Security & IP, Bharti Airtel

Amit Mathur, Head Data Regulation and Data Architecture, Reliance Jio

Amit Satpathy, EVP – Head IoT Enterprise Business, Vi

Anjali Hans, SVP-Public Policy & Regulatory, Vi

Anku Jain, Managing Director MediaTek India, MediaTek

Ankur Agrawal, Senior Vice President, Sinch

Anuj Agrawal, VP Sales APAC, Radian Arc

Anurag Vats Senior Vice President and Business Unit Head- Telecom Lepton Software

Arnob Roy, COO, Tejas Networks

Arun Dudee, CTO, Dehaat

Arnob Roy, COO, Tejas Networks

Ashwini Bakshi, Chief Sales Officer, STL

Atul Gupta, Partner and Head, KPMG in India

Atul Lall,Vice Chairman & MD,Dixon Technologies

Atul Sachdeva, EVP, Bharti Airtel

Ayush Gupta, Director, KPMG in India

Azhar, Sayeed Chief technologist, Global Telecommunications, Red Hat

Badri Gomatam,Group Chief Technical Officer, STL

Bala Shanmugakumar, Head of Business Solutions – Telecom, L&T Smart World and Communications

Bala Shanmugakumar, L&T Smart World and Communications, L&T Smart World and Communications

Balram Sharma, Regional Sales Head - India, STL

Bejoy Pankajakshan, EVP - Chief Technology & Strategy Officer, Mavenir

Berjesh Chawla, MD and Lead – Communications Industry, Accenture Accenture

Bharat Chaddha, Partner, KPMG in India

Bhuvnesh Sachdeva Vice, President - Product Development, HFCL

Bradley Mead, Head of Network Managed Services, Ericsson

Bryan Tan, Director - Meta Connectivity Ecosystem Meta Platfor, Inc.

C B Velayuthan, Global MD, Equinix

Chaitanya Gogineni, Partner, KPMG in India

Chetan, Hebbalae Connectivity Technologies and Ecosystems Manager, Meta

Daniel Lin, Business Development Manager , MediaTek

Debashish Bhattacharya, Sr DDG, Broadband India Forum

Deepak Virmani, MHA

Dev Tyagi, Co-Founder Boston and CSMO, Boston India

Speakers

Digvijay Sharma, Senior Director - India North, SAARC, Local DC and Blue Planet, Ciena	Jayanta Dey, Executive President - 5G Business , HFCL
Diwaker Uppal, Director, KPMG in India	Jeanette Whyte, Head of Public Policy, APAC, GSMA
Dr K K Raman, Partner, KPMG in India	Jeetender Singh, CFO, VVDN Technologies
Dr. Anju Sharma, Principal Secretary, Gujarat Skill	Jobi George, Director — Protocol Carrier Acceptance R&D, Keysight Technologies
Dr. NS Kalsi, Chairman, NCVET	Julian Gorman, Head of Asia Pacific, GSMA
Dr. Rajendra Bangal, Registrar, Mahrashtra University of Health Sciences	Kailash Narayanan, President - Communications Solutions Group, Keysight Technologies
Faisal Ghazaleh, Vice President for Middle East, Africa and India, Infovista	Kamal Ballout, Head of Nokia Enterprise, MEA, Nokia
G S Rao, Senior Director, Business Development, Qualcomm India Pvt. Ltd. , Qualcomm	KG Purushothaman, Partner and Head, KPMG in India
Ganesh Lakshminarayanan, CEO — Enterprise Business Bharti Airtel	Koel Chakrabarty, Director, Syste Engineering, Service Provider Business, Cisco India & SAARC, Cisco
Gautam Billa, Vice President — International Sales Engineering, Ciena	Laurence Feijt, Director of Partner sales, Telco, Media and Entertainment (TME), Red Hat Asia Pacific, Red Hat
Gilles Garcia Senior Director, Product Marketing, Data Center and Communications Group, AMD	Lt. Gen Dr. SP Kochhar AVSM** SM, VSM, ADC, KIGA., Director General, Cellular Operators Association of India (COAI
Gopalkrishnan R, EVP Technology Enterprise, Vi	
Gulshan Khurana, EVP-Transmission & Core Planning — Technology, Vi	Mahalingam Ramasamy, Managing Director , Netcon Technologies India Pvt Ltd
Hardeep Saini, Senior Director, Engineering, Qualcomm	Mahipal Singh, Vice President Regulatory Affairs , Reliance Jio
Hariprasad Gangadharan, Vice President and Head of Silicon Engineering, EdgeQ	Mandar Kulkarni, Chief Product Officer-Cloud, Reliance Jio
Harish Laddha, CEO - Emerging Business, Bharti Airtel	Maneesha Garg, Co-Head, Managed Services Management, KPMG in India
Harpinder Matharu, Senior Director, Product Marketing, Data Center and Communications Group, AMD	Manish Gangey, Head - R&D, Bharti Airtel
	Manish Sinha, CMO, STL
Harsha Razdan, Co-Head for Clients & Markets, KPMG in India	Marshal Correia, Vice President and General Manager, India, South Asia, Red Hat
Heera Gupta, President Network and Service Operations Reliance, Jio	Mathan Kasilingam, EVP — Technology Security, Vi
Jagbir Singh, CTO, Vi	Milind Pathak Group Chief Business Officer, Route Mobile
Jaideep Redkar, President, Head of Global supply chain , Prose Technologies India Pvt Ltd	Mohan Rao Goli, Corporate VP and CTO, Saung Research

Speakers

Mombasawala Mohmedsaeed, Manager - SEO, Keysight Technologies	Pramod Goel, Senior VP – Sales & Acquisition, iBus Networks
Monika Gupta, Vice President, Capgemini	Pranav Arora, MD and Lead – Applied Intelligence, Accenture in India, Accenture
Dr K K Raman, Partner, KPMG in India	Prateek Joshi, Head- Devices, Innovations & 5G, Bharti Airtel
Murali Ranganathan, Meta Connectivity technologies and Ecosyste Manager, Meta Platfor, Inc.	Prateek Pashine, Enterprise Head, Relaince Jio
Mysore Madhusudhan, Executive Vice President, Collaboration and Connected Solutions, Tata Communications	Praveen Arora, Vice President, Internet of Things (IoT), Tata Communications
Narendra Narayana, Managing Director & President – India, Rakuten Symphony	Praveen Cherian, Chief Executive Officer -Global Services Business, STL
Neeraj Vyas, Head of DGS Digital Business Solutions, Southeast Asia, Oceania & India, Ericsson	Priyanka Anand, Head of People, Market Area South east Asia , Oceania and India, Ericsson
Nick Parmar, Vice President CCS-Cloud Communications product, Tata Communications	Puneet Sethi, SVP & GM, Radio Access Networks Business Unit, Mavenir
P Balaji, CRO, Vodafone India	Radhey Sarda, SVP & Head Advanced Technologies, Reliance Jio
Pankaj Mohindroo, Chairman, ICEA	Raghavan Sampath, Director Business Development, MediaTek
Pankaj Sharma, Country Head, Edgecore Networks	Rahul Hakeem, Partner, KPMG in India
Parag Kar VP, Government Affairs, Qualcomm	Rahul Rekh, Partner, KPMG in India
Parag Naik, Co-Founder & CEO, Saankhya Labs	Rahul Vatts, Chief Regulatory Officer, Bharti Airtel
Pawan Kumar Kolahal, Head of New Business & Enterprise, Market Area Oceania Asia & India, Ericsson	Rajeev Mehta, EVP-Channels & SOHO – Enterprise , Vi
Peter Weimann, CTO, HFCL	Rajen Vagadia, VP, Qualcomm India Pvt Ltd & Presdisent Qualcomm India, Qualcomm
	Rajesh Chainani, Cisco

Partners

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EDGEQ		IEEE Advancing Technology for Humanity	KPMG	Pavilions and Interiors India private limited	PertSol	tsdsi	Telecom Sector Skill Council

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Exhibitors

Adapt Ideations Pvt. Ltd.	Concinnity Agro2o
Adapt Loggers	Coral Telecom Ltd.
Adiuvo Diagnostics Pvt. Ltd.	COSGRID NETWORKS
Agram Agro Tech	DIC-Digital India Corporation
Aheesa Digital Innovations Pvt. Ltd.	DIGICROP SOLUTIONS PVT. LTD.
Dimensions NXG Pvt. Ltd. (Ajnalens)	Digitos Technologies Pvt. Ltd.
AI Testified Pvt. Ltd.	Dirghadhi Technology Pvt. Ltd.
Amantya Technologies Pvt. Ltd.	DSCI-Data Security Council of India
Anritshu India Pvt. Ltd.	Dtown Robotics Pvt. Ltd.
Arivation Fashiontech Pvt. Ltd. (Arista Vault)	Dyotis Technologies Pvt. Ltd.
Arkin Labs Pvt. Ltd.	Echelon Edge Pvt. Ltd.
Artelus	Eigen Technologies Pvt. Ltd.
Astrome Technologies Pvt. Ltd.	Eikonsem Services Pvt. Ltd.
Astromeda Space Pvt. Ltd.	Electro Rent India Pvt. Ltd..
Awpara Technologies Pvt. Ltd.	Elena Geo Systems Pvt. Ltd.
Bagmo Pvt. Ltd.	Enhanced Communications & Technologies Pvt. Ltd.,
BKC Aggregators Pvt. Ltd.	Eranext Auto Pvt. Ltd.
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Birla Cable Ltd.	Evigway Technologies Pvt. Ltd.
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Blue Arcus Technologies Pvt. Ltd.	FIMO India Maufacturing Pvt. Ltd.
C2C marketing Pvt. Ltd.	Finaara Technologies Pvt. Ltd.
CDAC-Centre for Development of Advanced Computing	Fitnano Technologies Pvt. Ltd.,
CEQU Labs Pvt. Ltd.	Frog Cellsat Ltd.
ChipSpirit Technologies Pvt. Ltd.	Galore Networks Pvt. Ltd.
Check Point Software Technologies Pvt. Ltd.	Gen Elek Technologies
Cientra Techsolution Pvt. Ltd.	GO IP Global Services Pvt. Ltd. (SYROTECH)
CLOUDCONNECT COMMUNICATIONS PVT. LTD.	Gramepay
Cognitensor Technology Pvt. Ltd.	Graylogix
COGNITICA AI PRIVATE LIMITED	

Exhibitors

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iAcuity Fintech Pvt. Ltd.	MATRIX SHELL TECHNOLOGIES PVT LTD
I-cube Access Global Pvt. Ltd.	Matrecomm Technologies Pvt. Ltd.
IDRBT-Institute for Development & Research in Banking Technology	MASHMARI
IISc-Indian Institute of Science, Bangalore	MMMUT-Madan Mohan Malviya University of Technology
IIT- Indian Institute of Technology, Chennai	MyGov
IIT-Institute of Technology, Delhi	NABSTRACT TECHNOLOGIES PRIVATE LIMITED
IIT- Indian Institute of Technology, Hyderabad	NAV WIRELESS TECHNOLOGIES PRIVATE LIMITED
IIIT-The International Institute of Information Technology, Hyderabad	Nano Comtel
Indly	NeGD-National eGovernance Division
InstaCash	NIELIT-National Institute of Electronics & Information Technology
ILOGITRON TECHNOLOGIES PRIVATE LIMITED	NICSI-National Informatics Centre Services Incorporated
INDIO NETWORKS PRIVATE LIMITED	Niral Networks Pvt. Ltd.
Infinity Labs Ltd.	Nivetti Systems Pvt. Ltd.
INFORMATION TECHNOLOGY DEVELOPMENT AGENCY (ITDA)	Nivox Technologies
INNOGLE TECHNOLOGIES PVT. LTD.	NIXI-National Internet Exchange of India
INVAS TECHNOLOGIES PVT. LTD.	NMS WORKS SOFTWARE
INVENDIS TECHNOLOGIES INDIA PVT. LTD.	Nreach Online Services Pvt. Ltd., (Xo Xo Day)
ITI LIMITED	NUNAM TECHNOLOGIES INDIA PVT. LTD.
KANHHA CABLES PVT. LTD.	Nxtgen Datacentre and Cloud Technologies
Kenstel Communications Pvt. Ltd.	Optimus Logic Systems India Pvt. Ltd.
KHUSHI COMMUNICATIONS PVT. LTD.	Orangewood Research & Advancement Ltd.
KRATIKAL TECH PVT. LTD.	Parry Technology India Pvt. Ltd.
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Leeway Sof-Tech Pvt. Ltd.	Planys Technologies
LinkeZ Technologies Pvt. Ltd.	POWER GRID CORPORATION OF INDIA LIMITED
LIVEON TECHNOLABS PRIVATE LIMITED	Pragyogik Technologies Pvt. Ltd.
LivNSense Technologies Pvt. Ltd.	PRECISION ELECTRONICS LTD.
LivNSense Technologies Pvt. Ltd.	Probots Technologies Pvt. Ltd.
LOGICBOOTS PRIVATE LIMITED	Prophaze Technologies

Exhibitors

PRP Services Pvt. Ltd.	SYSTEM INFRA SOLUTIONS PVT. LTD.
QPi AI INDIA PVT. LTD.	Taqbit Labs Pvt. Ltd.
Quickproto Research Labs	TCIL-Telecommunications Consultants India Ltd.
QUNU LABS PRIVATE LIMITED	TCoE India-Telecom Centers of Excellence Indi
RAILTEL CORPORATION OF INDIA LTD.	TEC-Telecom Engineering Centre
RAPHE MPHIBR PVT. LTD.	TECHXR INNOVATIONS PRIVATE LIMITED
RESONOUS TECHNOLOGIES PVT. LTD.	Techie Amigos
ROHDE & SCHWARZ INDIA PVT. LTD.	TELIMART INDIA PVT. LTD.
ROSMERTA TECHNOLOGIES	TIDALWAVE
SAMRIDDHI AUTOMATIONS PVT LTD (SPARSH CCTV)	TRISPACE TECHNOLOGIES (OPC) PVT. LTD.
SANKO TECHNOLOGIES SDN. BHD.	TSDSI-Telecommunications Standards Development Society India
Scytale Alpha Pvt. Ltd.,	Tubelight Communications Pvt. Ltd.
Sensorise Digital Services Pvt. Ltd.	UDYOGYANTRA TECHNOLOGIES
SENSORISE SMART SOLUTIONS	UIDAI-Unique Identification Authority of India
Signalchip Innovations Pvt. Ltd.	UIET infity (Menthosa, UIET, Punjab University)
SIGNALTRON SYSTEMS PVT. LTD.	Ushva Clean Technology Pvt. Ltd.
Simnovus Tech Private Limited	Uttarakhand - (ITDA, Dehradun)
Skyware Automation Pvt. Ltd.	VELMENNI RESEARCH AND DEVELOPMENT PVT. LTD.
SMPS CONTROL PRIVATE LIMITED	VERIS-DIGICRED TECHNOLOGIES PVT. LTD.
STPI-SOFTWARE TECHNOLOGIES PVT. LTD.	Vi Innovations Pvt. Ltd.
Sooktha Consulting Pvt. Ltd.	Vista Information Systems
SPVSS Pvt. Ltd.	Vizzbee
STARGAZE MEDIALABS PVT. LTD.	VOICE OF INDIAN COMMUNICATION TECHNOLOGY ENTERPRISES
Sunfox Technologies Pvt. Ltd.	VT LABS PRIVATE LIMITED
Suvaca Technologies Pvt. Ltd.	Vyorius Drones Pvt. Ltd.
Synergy Telecom Pvt. Ltd.	WISIG NETWORKS PVT. LTD.
Syook	XS INFOSOL PVT. LTD.

Few Use cases Exhibited

Agri Tech

AgroW Smart solution measures various parameter such as soil moisture, leaf temperature and controlling irrigation characteristics.	**Airtel**
5G powered Jio Krishi IoT Devices such as weather station, soil testers, etc, can simultaneously aid in data driven farming methods for precision inputs on soil moisture, temperature and chemical composition	**RJIO**
Jio's Cattle IoT device which can monitor eating, activity levels, rumination and detect early signs of diseases.	**RJIO**
Spraying Pesticides and Inspection using drone	**RJIO**
Monitoring of various environment parameters for precision agriculture	**Nokia**
Showcase of an agricultural drone for fertiliser spray and crop monitoring	**VIL**
Digital Farming Platform to Simulate different phases of crop cultivation, Irrigation requirment, Soil Nutrient Composition, Indication of Plants infected with Pest & bugs, Indication of crop stress condition through posters	**TCS**
Kadalcompass devices fixed in the fishing and researchers vessels to protect ocean workers life in real time , Realtime Profitable fishing Zone (Fish type suggestion)without by-catch and Overfishing , mining real time granular data for ocean researchers	**Innogle**

AR/VR & Metaverse

Cloud Gaming demonstration deep dives into how mobile operators can take on mobile cloud gaming and better utilize network slicing	**Ericsson**
Immersive, Real-time 3D experiences using Holographic Communication that provides a greater sense of spatial awareness, proximity, and presence.	**Ericsson**
An immersive experience using VR headsets	**Airtel**
With Virtual Reality Technologies, powered by Jio True 5G, the future of the web and shopping can become 'Phygital' in the Metaverse	**RJIO**
5G Cloud gaming that can be played without downloading application	**Airtel**
Connected Workforce at remote location can get expert advice from a central location by wearing a headend device which is having headphone, camera to capture sites situation and guides the person.	**Airtel**
Preparing the next generation of skilled Indians with Augmented Reality powered by Jio Glass and Jio True 5G	**RJIO**
Showcasing the immersive experience of great Indian Monuments like statue of Unity, Kashi Vishwanath temple (at Airtel booth)& Taj Mahal (Nokia booth)	**Nokia**

AR/VR & Metaverse

Experience of immersive Metaverse collaborative environment using VR glasses and hand gestures	**Nokia**
With ultra low latency and high bandwidth of Jio True 5G, Garners will now have OTT like service on Jio Cloud Gaming wherein they will be able to access high quality Games from anywhere without the need for expensive hardware or separate purchase of costly game titles	**RJIO**
Jio Glass and the power of Jio True 5G, India is all set to welcome a new generation of Mixed Reality Experiences that is scalable and accessible for wide audiences and consumers.	**RJIO**
This use case showcases how users can get high resolution and life like experience of any tourist/ historical/ adventure locations & events from anywhere via 360° VR (virtual reality).	**VIL**
This gives an immersive real-time gaming experience that allows the gamers to play seamlessly and without any lag thereby helping improve their gaming response time and action speed.	**VIL**
Wearable holographic computer powered by artificial intelligence, will provide immersive experience for Education and Tourism	**Ajna Lens**
Immersive and Interactive Experience 360 degrees of freedom controller which connects with smartphones to provide immersive and interactive experience like other high end devices(Oculus/Hololens).	**TechXR**
Real time remote retinal screening (Ophthalmoscope, Fundus and OCT), diagnosis (with Artificial Intelligence to assist), prescription and counselling.	**Artelus**

Edu Tech

Connected Schools with Mixed Reality-based remote education, AI/ML based learning	**RJIO**
Gurushala platform is a Cloud Classroom covering syllabus of Classes 6 to 12. Students can access the platform from their village schools or homes simply using a smartphone.	**VIL**

Enterprise

Smart office, 5G enabled services like Cloud	**RJIO**
Smart Retail with Cloud-based integration with 3D scans of industrial/consumer goods for retail sales, education & training	**Nokia**
Airtel IoT is built to massively simplify the digital transformation journey of enterprises.	**Airtel**

Health Tech

This demonstrates an urgent medical assistance intervention for a critical patient / accident victim while being taken to hospital in an ambulance.	**Ericsson**
Ambulance is fitted with latest medical equipments and feed of the ambulance is sent to the hospital with test results, photos of medical equipment to control the device. Even ambulance can also be tracked.	**Airtel**
Jio will bring remote diagnostics, for example Robotic Tele Radiology, to the remotest parts of India. Radiologists and medical specialists can operate Robotic Radiological Devices remotely using haptic controllers as camera feeds relay live patient feed and haptic feedback with no latency	**RJIO**
Timely assistance with 5G enabled connected ambulances	**RJIO**
Remote-assistance, digitization of heavy medical records, Video-based emergency services	**RJIO**
Smart Health ATM, Clinical diagnosis for more than 90 parameters within minutes.	**Superceuticals**
The treating doctor can view CT/MRI on a mobile in a traditional DICOM viewer and also in Augmented Reality Mode	**Easiofy**
Remote diagnose & consultation of all eye related diseases like Glaucoma, Retina imaging , dry eye etc, Monitoring of Heart Health parameter using wearable devices	**Nokia**
Smart Healthcare with private 5G Tele-consultation through Virtual Clinics & Kiosks; e-ICU Solution	**TCL**
an ambulance showcases how to utilise the golden time to commence diagnosis, get expert views and infrastructure ready at hospital for emergency procedures while the patient is en-route to hospital in an emergency.	**VIL**
AI based Yoga Training using video and camera a cost-effective Qualcomm Technologies based EdiFi device, connects to standard TV to provide a large-screen immersive experience locally while also linking with the back-end cloud system	**YogiFi**
A flexible transoral robot with a teleoperated configuration for swab sampling for Health Applications	**TCS**
Geriatric / Pregnant woman / Rural 5G/4G based Health diagnostics - Smart textile based health monitoring systems for telehealth applications	**Astromeda**
A flexible transoral robot with a teleoperated configuration for swab sampling for Health Applications	**TCS**

Smart Cities & Public Utilities

Description	Company
Demonstrate how 4K HD video cameras streaming through 5G network and integrated with a real-time analytics platform and AI capabilities can help improve public safety in our cities.	**VIL**
Centralized operations for traffic monitoring, smart grids, IoT based utilities to improve efficiency and wastage control.	**RJIO**
Cities enabled with smart utilities, infrastructure enablement for connected public transport, traffic management, public safety and security.	**RJIO**
Retrofit solution using AI/ML, IoT, 5G for smart cities and industrial automation to monitor water supply tank and Provides Water Pressure, Flow and Quality details on Web & App Dash boards	**Nimble Vision**
Various Nodes are deployed for measuring various parameters related to Air, Water, Energy, Smart spaces etc. The various parameters will be displayed on Centralized Dashboard.	**IIIT Hyderabad**
Various types of drone with various payload capacity, Short: Surveillance BHARAT: Manportable Surveillance, NEERAJ: VTOL Fixed Wing Drone	**Raphe m Fiber**
Monitoring Traffic and Crowded Public place using Live video feed from the drone , will be processed through real time video analytics to perform operations such as object identification, number plate recognition and the output will be shown on a separate display.	**Arkin Labs Private Limited**
Urban Aviation Infrastructure Management which offers state of the art algorithms for Strategic and Tactical Deconfliction for Aerial Vehicles while maximizing safety and efficiency	**Vizbee**
Effective and efficient parking and traffic management solution for Smart City	**Spvss Pvt Ltd**
5G Camera Bank & ATM Surveillance Solution with Shockproof Camera & Mobile NVR and 90 Days Storage	**Sparsh**
AMRs can utilize navigation algorithms, LiDAR sensors, vision technology and virtual map sharing to detect objects, think on their own and move autonomously through facilities.	**Ericsson**
Smart Energy Management platform sends electricity consumption data to a centralised platform.	**Airtel**
With efficient use of surveillance cameras, sensors, and AI, the advanced Airtel 5G network can work with facial recognition for law enforcement to identify and track criminals or missing people. Video Analytics can overhaul the future of crime detection	**Airtel**
Digitization of Water Infrastructure Optimize wastage caused due to leakages, overflows and pilferages	**Ushva Clean**
Sensorise is launching SenseIT Energy MAID an IoT device for frugal and reliable energy distribution automation	**Sensorise**

Smart Manufacturing

Containerised Prototype of Connected Factory that demonstrates fully functional assembly lines using autonomous robots and auto guided intelligent vehicles performing tedious manufacturing operations.	**Nokia**
Making Factories Safe and Efficient with Robotic-Powered Logistics	**Airtel**
IoT Autonomous Mobile Robot, 5G ready Industry 4.0 solution automates the transportation of raw materials from the production floor to warehouse without any manual intervention using AMR	**VIL**
Jio True 5G enables High Density and Ultra Low Latencies for massive machine to machine communications, thereby enabling collaborative robots to operate autonomously, precisely and efficiently across manufacturing setups	**RJIO**
A digital twin of a construction site enables video based remote supervision and helps ensure worker safety through real-time monitoring.	**VIL**
Automating mining systems, including enabling private 5G and radios in mines	**RJIO**
Robotics Arms for Manufacturing to automate the process of placing goods into pallets.	**TCS**
Driving the Future of Safer and Sustainable Mines, an integrated worker safety solution that detects proximity, mitigates blind zone accidents, and avoids collision avoidance while reducing GHG emissions by use of artificial intelligence and machine vision technologies. The solution prevents fatal injuries while saving millions of dollars in losses and insurance claims in Mining Industry.	**LivNSense Technologies Private Limited**
Surveillance Robots used to detect unwanted movement and motion to provide autonomous and remote supervision, patrolling and security to maintain a safe environment.	**Peppermint**
5G Auntonomus Rover, LiDAR based Point Map generation and autonomus navigation, IoT enabled remote monitoring and control, Inbuilt PAS with video calling facility	**Menthosa**

Indigenous Telecom Product & Services

Jio end-to-end 5G portfolio spans across radio, 5G core & Automation platforms together with OSS/BSS and network services, which enable operators to evolve to new 5G capabilities. In addition, the jio 5G stack with its Standalone (SA) capabilites is uniquely positioned to implement innovative 5G use cases with deployment options at the edge as well in the public/private cloud.	**RJIO**
4G Packet, 5G NSA solution, Applications such as - AI / ML, WayFinder, Robotic Arm, Networks – Optical DWDM, GPON, Router, NMS, Security Solutions- QKD, PQC and Cyber security, Disaster management solution- Integrated CAP, Collaboration platforms - Samvad / VC (CDOT Meet), IoT / M2M	**CDoT**

Indigenous Telecom Product & Services

Product/Service	Company
"WiFi 7 (8Tx8R) & 6 Indoor and Outdoor CPE, WiBAS 26 GHz FWA device E-Band Radio, L2 Switch (40G Capacity), Hololens for Immersive experience in Education, Skill development, Tourism, Remote Assistance, 5G 8Tx8R Radio unit in n78 Band, Fiber Duct, PON Devices"	**HFCL**
"6912 Fibre Fibre Cable, 8-16 Pair Copper cable, Closure Mounting and assessories for cable Mounting"	**STL**
Single Photon Detector Chipset, World first HTS SPD chipset	**QPiAI**
Indigenous Quantum Secure VPN solution using indigenous QRNG and proprietary software that can be used to provide secure video conference between two parties	**QuNu Labs**
Agumbe Chipset (India's first 4G/5G event), India's first 5G/NR chips, 5G NR RU, 5G/NR Ultra-compact O-RU, 5G/NR gNodeB, 4G/LTE eNodeB, 4G/LTE Ultra-compact, eNodeB, 4G/LTE Compact NIB, 4G/5G BBU/DU System	**Signalchip**
"Made In India Point to Point Optical Wireless Communication (OWC) LiFi / FSOC (Free Space Optical Communication) Solution"	**Nav Tech Wireless**
Low Power RU (n78),Band 41 RU,Macro RU(n78),Outdoor WiFi AP,Data Center Server,Franhaul Low-PHY IP and High-PHY Ips	**VVDN**
5G RU (n78), Braodcast RRH, 5G RU (n1), 4G RRH(B1), 48 Tbps OTN Core Switch, 76Tbps DWDM Transport, 300 Gbps Aggregation Switch/Router	**Tejas+ Saankhya Labs**
Smart Pole, Marine Vessel Tracking Network	**Tejas+ Saankhya Labs**
1 Tbps Router, Cyber Security Software to inspect packets of the existing network, 650 Mbps Router, 24 Port Layer 2 Switch, 4 Port PoE/PoE+ switch	**Nivetti**
Cloud Native 5G Core Network [Stand Alone]	**Resonous**
Made In India "KCP-5G-510 Outdoor 5G CPE Solution	**Kenstel**
Drone at surface/underwater simultaneously coordinate with an underwater sensor network and the global communication network	**Planys Technologies**
1) 5G NR Radio Unit 2) Vyapi 4G Network in Box	**Lekha Wireless**

Indigenous Telecom Product & Services

Description	Company
Different size of feeder and Leaky cables. Manufacturing plant in Jaipur	**Kanha cables**
RF Combiner, Splitter, Light weight SISO & 2x2 MIMO IBS solution (just do trading)	**Synergy Telecom**
GSM/GPRS/3G/4G/LTE Antennas, Wi-Fi Antennas (2.4/5.8GHz), 433 MHz 865/868/915 MHz Antennas, Multiband combo antennas	**Telimart**
Testing lab for 3G/4G, now setting up lab for 5G Core element testing at Pune. Will work in co-ordination with NCCS to act like an accredited lab.	**Matrix Shell**
Extreme 6G MIMO	**IIT Hyderabad**
LTE Base Station, NBIoT Gateway	**Sooktha**
Indigenously designed 5G Phone	**Lava International**
LTE-R, 4G/5G Private Network, Picocell ,Wireless Channel Scanner and,Recorder,MIMO Band 28 PA	**Big Cat Wireless**
1st mobile phone getting built ground-up, with 100% local design and product ownership on hardware, software and manufacturing.	**Optimus Logic**
5G RAN, 5G NIB, 5G Core	**Amantya**
A unique solution to transform conventional IoTs to 5G IoTs without a 5G Radio	**Cientra**
5G Enterprise Core	**Niral Networks**
Innominds UE (processing the Remote Controller Signal), IISc's Remote Controlled Robot , IISc's 5G gNodeB (PC+USRP device)	**Innominds +IISc**
NMS/IoT Monitoring Platform	**Echelon Edge**

Indigenous Telecom Product & Services

5G SDWAN CPE	**Infinity Labs**
PM-WANI compliant Access Points Enterprise Grade WiFi APs	**Indio Networks**
GigaMesh: World's first Multi Link E band Radio providing automatic Link alignment, Gigasat: Flat Panel Satellite terminal in Ku/Ka band for LEO/MEO/GEO constellations	**Astrome**
Software driven LTE and 5G Radio Access Networks for Public and Private cellular networks	**Tidal Wave**

Transport & Logistics

This demonstration allows people to drive a small vehicle that is in Stockholm over a commercial 5G network.	**Ericsson**
Asset Tracking Unit (these can be fixed on any device provides 100-150 m accuracy by mobile tower triangulation, it is 3 cell battery powered). The tracker location is visible on the dashboard.	**Airtel**
AGV is able to move from one location to another and picking the requisite product and to place the same. Robots at both the ends are placed to pick and drop the things.	**Airtel**
Robotics for Warehouse automation	**RJIO**
The 5G Ready IoT solution enables complete visibility, control and management of EVs and its battery & its health parameters in real time	**VIL**
Fleet Management, Dash Camera System based on SDM625, will provide High quality live videos and telematics data on demand	**Lightmetrics**
Intelligent M2M IoT connectivity solutions to Mining sector with Multi-network M2M SIMs (QoSim) and cloud-based lifecycle management portal (SenseLCM).	**Sensorise**
Assisted Car Driving for Physically Disabled Persons with Remote control of Power, Windows, Wipers, AC, Interior Lights and Remote monitoring of In-Cabin Air Quality & Temperature	**Vi Innovations**
Vehicle Location Tracking Devices with Emergency Button, AIS018 Speed Limiting Devices, Software Platform for Intelligent Transport Management for STUs, Mining, Ambulances	**Rosemerta**

Inauguration of the VoICE Atmanirbhar Pavilion, comprising of 22 member companies which demonstrated 19 product launches

5जी से और आसान होगी दूर-दराज के इलाकों में ज़िंदगी

1 दूर-दराज के बच्चों को पढ़ाई में मिलेगी मदद

2 मजदूरों की सेफ्टी की होगी निगरानी

3 केस स्टडी 'मानों सच में घूम आए मंगल ग्रह पर'

8 शहरों में एयरटेल पहुंचा

4 शहरों में आएगा जियो

वोडा आइडिया भी जल्द

पीएम ने भारत में बैठे-बैठे यूरोप में चलाई कार

5G आ गया, हमें क्या करना होगा ?

प्रधानमंत्री ने इस खास चश्मे से परखीं 5जी की खूबियां

A Vision of the Future

Bharti Airtel, Reliance Jio, and Vodafone Idea showcased India-centric 5G use cases at the India Mobile Congress as Prime Minister Narenda Modi launched 5G services in India.

Airtel's showcase had a school girl from Varanasi join the Prime Minister in a conversation through a hologram on stage at the India Mobile Congress, using high-speed 5G connection without any lags.

Reliance Jio showcased a virtual reality use case in the classroom where a teacher could teach a class of students without being physically present and using immersive models of body organs like a heart to help students visualise better.

Vodafone Idea demonstrated an industrial use case around worker safety in an under-construction metro tunnel by having cameras and sensors in place to automatically determine when a worker was not wearing safety equipment. It also showcased a holo-lens based application where an employee could create a digital twin for the PM to oversee construction at the site from the dias.

Hon'ble PM makes the first call on Vi 5G Live network from India Mobile Congress

Guwahati: Vodafone Idea Limited (VIL), has switched on its Live 5G network at India Mobile Congress 2022 in the national capital. The first call on Vi 5G Live network was made by the Hon'ble Prime Minister of India Shri Narendra Modi who used Vi 5G Digital Twin technology to take an immersive Tour of Delhi Metro under-construction tunnel in Dwarka.

अमदावाद-गांधीनगरमां अने जामनगरमां 5G सेवानो आरंभ

PM interacts with construction workers of Delhi Metro Tunnel

See you at
IMC 2023

Department of Telecommunications
Ministry of Communications
Government of India

The Department of Telecommunications (DoT) operates under the Ministry of Communications, Govt. of India and primarily works towards providing a secure, reliable affordable and high quality converged telecommunication services anytime, anywhere for an accelerated inclusive socio-economic development.

For further information on DoT, visit www.dot.gov.in

COAI

COAI was constituted in 1995 as a registered, non-governmental society. The Association is dedicated to the advancement of modern communication through the establishment of world-class mobile infrastructure, products and services and delivering the benefits of innovative and affordable mobile communication services to the people of India.

For further information on COAI, visit www.coai.com

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Asia's Biggest Platform Connecting
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