

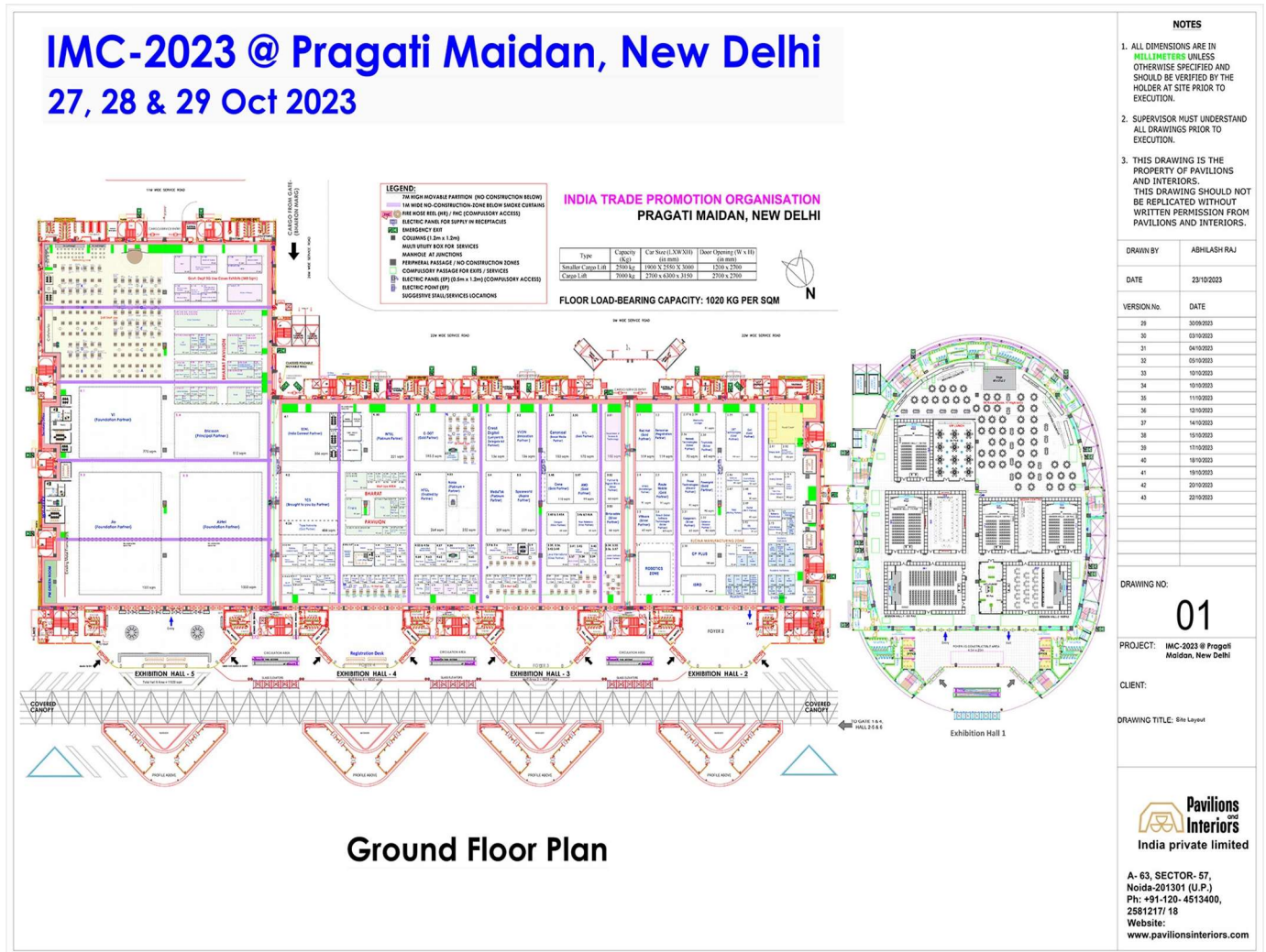
# INDIA MOBILE CONGRESS 2023

## AN EDUCATIONAL VISIT REPORT

Date: 27, 28, 29 October 2023

India Mobile Congress (IMC) 2023, Asia's premier telecom, media, and technology forum, opened its doors for an exciting three-day journey into the future of technology and connectivity. The event, jointly organized by the Department of Telecommunications (DoT) and the Cellular Operators Association of India (COAI), has brought together industry leaders, government representatives, academia, and technology enthusiasts to explore the latest trends in the world of TMT and ICT. Since its founding, IMC has made a name for itself as a premier platform for bringing together representatives from business, government, academia, and other ecosystem participants to debate, show off, and discuss the newest developments in TMT and ICT. The India Mobile Congress is not only the largest technology gathering in Asia, but it's also the largest technology-related networking event in India. Our aim is to propel India to prominence as a leading light in the global digital revolution that is reshaping the future by showcasing cutting-edge innovations in an immersive manner.

Venue: Pragati Maidan, Delhi



A group of ten young budding engineers along with their mentors Mr. Prashant Laxmanrao Paikrao, Assistant Professor, E&Tc Engineering Department and Dr. Deepak A. Zatale, Assistant Professor and Head of Physics Department were deputed for this three days congress during 27<sup>th</sup> to 29<sup>th</sup> October 2023 at Pragati Maidan, New Delhi.



SN.	Name of Student	Branch	Mobile No.
1	Atharva Sandiprao Dankhade	Computer Science and Engineering	9673845102
2	Pratham Sanjeevkumar Gaur		9730641677
3	Anuj Ravindra Dongre	Electrical Engineering	9112871267
4	Kunal Khemchand Khot		7620176931
5	Chinmay Sanjay Wadibhasme	Electronics and Telecommunication Engineering	8421536609
6	Aniket Narendra Gulhane		8600466228
7	Prem Pramod Satpaise	Information Technology	9404972389
8	Rutuj Prashant Dahake	Instrumentation Engineering	8459107578
9	Divyesh Anil Mahalle	Mechanical Engineering	9146249067
10	Mohit Uttamrao Sontakke		8421261528

**Day 1: 27 October 2023**

**Inauguration Ceremony (10:00-13:00 Hrs.):**

The IMC 2023 was officially inaugurated at Bharat Mandapam by

Hon'ble Prime Minister Mr. Narendra Modi,

Following esteemed dignitaries were present for the inaugural function of IMC 2023.

Mr. Ashwini Vaishnaw -Hon'ble Minister for Railways, Communications, Electronics & Information Technology, Government of India,

Mr. Devusinh Chauhan- Hon'ble Minister of State for Communications, Government of India,

Dr. Neeraj Mittal (IAS)- Chairman DCC & Secretary(T), DOT, Government of India,

Mr. Mukesh Ambani -Chairman, Reliance Industries Limited,

Mr. Sunil Bharti Mittal, Founder and Chairman, Bharti Entreprises,

Mr. Kumar Manglam Birla, Chairman, Aditya Birla Group.

The ceremony marked the beginning of an eventful day filled with insightful sessions and discussions.



## **Key Sessions:**

1. Session on 'Unlocking the Power of Telecom: Skilling for a Connected World' (14:00 Hrs, Session Hall 1): This session emphasized the importance of skilling in the telecom industry to meet the demands of a connected world.
2. Session on 'Innovation and Entrepreneurship for Sustainable Development (SDGs)' (14:00 Hrs, Session Hall 2): This session explored the role of innovation and entrepreneurship in achieving sustainable development goals.
3. Session on 'Building Cyber Resiliency in the New Digital Age' (14:00 Hrs, Session Hall 5): Cybersecurity was a key issue while expecting seamless connectivity, e-commerce
4. Session on 'Open RAN: Does it Hold Answers to the Evolving Telecom Landscape (Part A)' (14:00 Hrs, Session Hall 6): This session delved into the topic of Open RAN and its relevance in the evolving telecom landscape.
5. Session on 'Championing Change: Tracing the Path of Innovation' (15:00 Hrs, Session Hall 1): Innovation was at the forefront, as experts discussed the transformative power of new ideas.
6. Session on 'The Code of Innovation: Generative AI's Transformative Footprint (Part A)' (15:00 Hrs, Session Hall 3): This session explored the impact of Generative AI on various industries.
7. Session on 'Circuiting Change: Pioneering Electronic Manufacturing for the Globe' (15:00 Hrs, Session Hall 5): The discussion revolved around electronic manufacturing and its global significance.
8. Session on 'Open RAN: Does it Hold Answers to the Evolving Telecom Landscape (Part B)' (15:00 Hrs, Session Hall 6): A continuation of the discussion on Open RAN and its role in telecom evolution.
9. Session on 'Global Digital Innovation: India Driving Digital Renaissance' (16:00 Hrs., Session Hall 4): India's role in driving digital innovation was the focal point of this session.
10. Session on 'The Code of Innovation: Generative AI's Transformative Footprint (Part B)' (16:00 Hrs, Session Hall 3): The exploration of Generative AI continued, highlighting its transformative impact.
11. Session on 'Affordability, Accessibility, and Advancement: Key to 5G Adoption (Part A)' (16:00 Hrs, Session Hall 6): This session discussed the crucial factors for 5G adoption.
12. Session on 'Beaming Beyond Borders: The Orbital Voyage of Connectivity' (17:00 Hrs, Session Hall 1): The future of connectivity beyond borders was explored in this session.
13. Session on 'Affordability, Accessibility, and Advancement: Key to 5G Adoption (Part B)' (17:00 Hrs, Session Hall 6): The continuation of the discussion on key factors for 5G adoption.

Day 1 of IMC 2023 was packed with insightful sessions, engaging discussions, and visionary keynotes. The event successfully kicked off with a grand inauguration, setting the stage for in-depth explorations of next-generation wireless, innovation, entrepreneurship, cybersecurity, and more. Participants left with a sense of the immense possibilities that the digital future holds. In addition to this parallel a Mentoring Session, Fireside Chat, Angel Tour and Masterclass on Leveraging the Power of Gen AI were conducted in Aspire Arena for the delegates.

## **Day 2: 28 October 2023**

Day 2 of the India Mobile Congress (IMC) 2023 continued to be an exciting platform for industry leaders, experts, and technology enthusiasts to delve into the latest trends in the world of telecom, media, and technology. The event, organized by the Department of Telecommunications (DoT) and the Cellular Operators Association of India (COAI), featured a diverse range of sessions, workshops, and discussions.

### **Morning Sessions (10:00 Hrs):**

Session on 'Championing Change: Tracing the Path of Innovation' (Session Hall 1): This session explored the transformative power of innovation, setting the tone for a day of groundbreaking discussions.

Session on 'Innovation and Entrepreneurship for Sustainable Development (SDGs)' (Session Hall 2): Emphasizing the role of innovation and entrepreneurship in achieving sustainable development goals.

Session on 'Field Officers' Review (DoT Meet)' (Session Hall 3): This session provided insights into the DoT's ongoing initiatives and reviews.

Session on 'Monetizing Connectivity: Network as a Service for Seamless Business Growth (Part A)' (Session Hall 5): Delving into the monetization of connectivity and network services for business growth.

Session on 'TEPC Make in India Program' (Session Hall 6): This session highlighted the "Make in India" program in the telecom sector.

2nd International Workshop on 6G Standardization (Session Hall 7): The day's most important session discussed the standardization of 6G technology.

### **Mid-morning and Afternoon Sessions:**

Session on 'Monetizing Connectivity: Network as a Service for Seamless Business Growth (Part B)' (Session Hall 5): A continuation of the discussion on monetization and seamless business growth.

Session on 'Telco's Tryst with Enterprise Digital Transformation (Part A)' (Session Hall 5): Exploring the journey of telecom companies in digital transformation.

Session on 'FSC: Industry 4.0 Transformation: Greenfield vs. Brownfield' (Session Hall 1): The session compared greenfield and brownfield approaches in Industry 4.0 transformation.

Session on 'Harnessing Automation & AI: Empowering the Networks for Tomorrow (Part A)' (Session Hall 5): Discussing the role of automation and AI in network empowerment.

Session on 'Telco's Tryst with Enterprise Digital Transformation (Part B)' (Session Hall 6): A continuation of the enterprise digital transformation discussion.

Session on 'Where is the Killer 5G Use Case? (Part A)' (Session Hall 1): Exploring the search for compelling 5G use cases.

Session on 'Digital Infrastructure: Accelerating India's Growth Story' (Session Hall 4): Highlighting the importance of digital infrastructure in India's growth.

Session on 'Harnessing Automation & AI: Empowering the Networks for Tomorrow (Part B)' (Session Hall 5): Continuing the discussion on automation and AI in network empowerment.

Session on 'Role of India in the Shifting Global Semiconductor Landscape (Part A)' (Session Hall 6): Focusing on India's role in the global semiconductor industry.

Session on 'Where is the Killer 5G Use Case? (Part B)' (Session Hall 1): Continuing the exploration of 5G use cases.

Session on 'Unveiled Horizons of Industry 4.0: Benchmarking the Adoption (Part A)' (Session Hall 5): Benchmarking the adoption of Industry 4.0.

Session on 'Where is the Killer 5G Use Case? (Part C)' (Session Hall 1): The final part of the discussion on finding compelling 5G use cases.

Session on 'Bharat Rural Connectivity Resurgence' (Session Hall): Discussing the resurgence of rural connectivity in India.

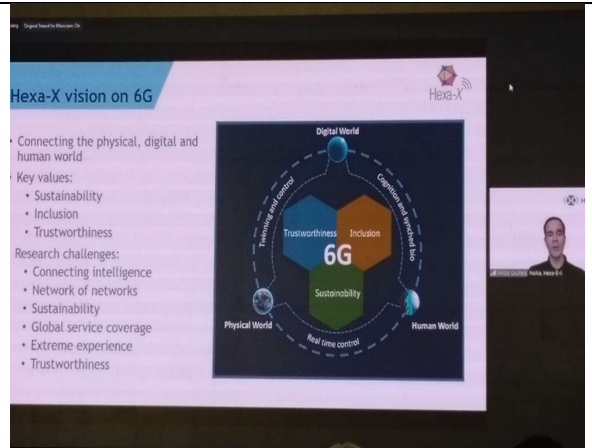
Session on 'Unveiled Horizons of Industry 4.0: Benchmarking the Adoption (Part B)' (Session Hall 5): The continuation of the Industry 4.0 adoption benchmarking.

IMC Award and Start-up Night (19:00 Hrs):

The evening brought a highlight with the IMC Award and Start-up Night, recognizing and celebrating excellence in the tech industry and the achievements of innovative start-ups.

Day 2 of IMC 2023 was marked by diverse discussions on innovation, sustainability, digital transformation, and technology trends. Participants left with a wealth of insights, new ideas, and inspiration to shape the future of telecom and technology.





### **Day 3: 29 October, 2023**

The third and final day of the India Mobile Congress (IMC) 2023 brought a culmination of the event's exploration of the latest trends in the telecom, media, and technology sectors. Organized by the Department of Telecommunications (DoT) and the Cellular Operators Association of India (COAI), IMC has been a platform for knowledge-sharing, innovation, and insightful discussions.

#### **Morning Sessions (10:00 Hrs):**

Session on 'CTO Conclave: Decoding the Success of 5G's Grand Debut (Part A)' (Session Hall 1): This session provided insights into the success of 5G's launch.

Session on 'Field Officers' Review (DoT Meet)' (Session Hall 3): A review of the DoT's ongoing initiatives and progress.

Session on 'Data Privacy Pioneers: Ensuring Digital Confidence' (Session Hall 4): A discussion on data privacy and ensuring digital confidence.

Session on 'India Stack: A Path for Global Innovation' (Session Hall 5): Highlighting India's potential to lead in global innovation through the India Stack.

Plenary Session on 'Spectrum Economics & Policy for a Digital Tomorrow (NICF)' (Session Hall 6): A day-long plenary session exploring spectrum economics and policy for a digital future.

Day-long Workshop on '2nd International Workshop on 6G Standardization' (Session Hall 7): The continuation of the critical workshop on 6G standardization.

#### **Mid-morning and Afternoon Sessions:**

Session on 'CTO Conclave: Decoding the Success of 5G's Grand Debut (Part B)' (Session Hall 1): Continuing the exploration of 5G's success.

Session on 'TMT's Eco-Drive: Sustainable Networks and Recycling for Tomorrow' (Session Hall 5): Focusing on sustainable networks and recycling in the TMT sector.

Session on 'Telecom Labs-Future & Opportunities (Sewa Vishwas ke Saath) Service with Trust' (Session Hall 2): Discussing the future and opportunities in telecom labs.

Session on 'Celebrating Inclusiveness: Women Crafting a Dynamic Tech Future' (Session Hall 5): A session celebrating the role of women in crafting a dynamic tech future.

Session on 'Edge and Beyond: Data Centers Redefined (Part A)' (Session Hall 1): Exploring the redefinition of data centers.

Session on 'Role of India in the Shifting Global Semiconductor Landscape (Part B)' (Session Hall 2): Focusing on India's role in the global semiconductor landscape.

Session on 'Electronic and Telecom Manufacturing: Way Forward for India's Economic Paradigm Shift' (Session Hall 4): Discussing the future of electronic and telecom manufacturing in India.

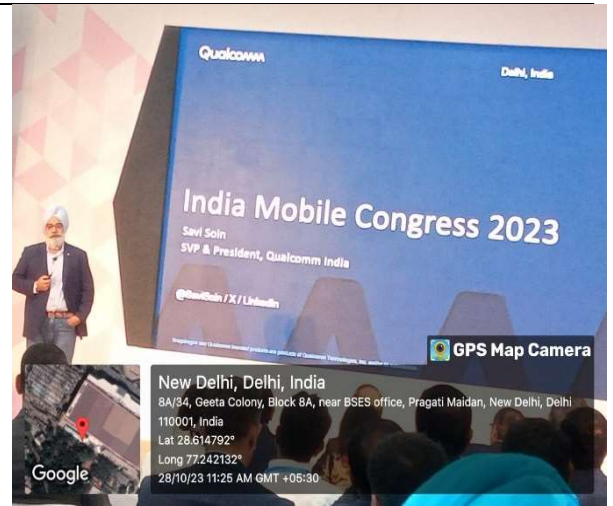
Session on 'Securing Connectivity, Safeguarding Possibilities in the Digital Age' (Session Hall 5): Focusing on the importance of securing connectivity.

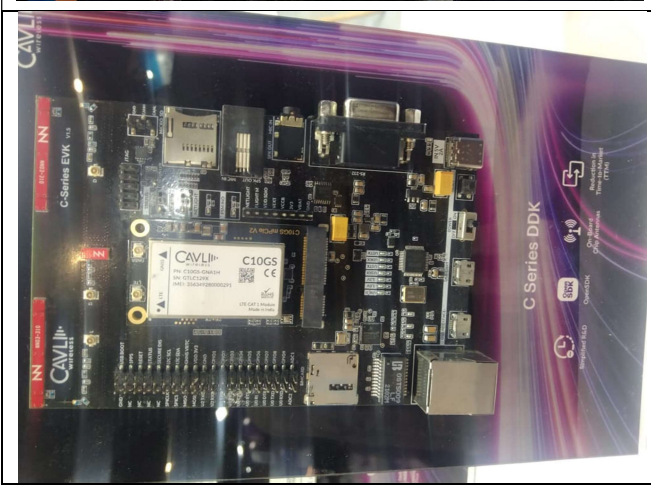
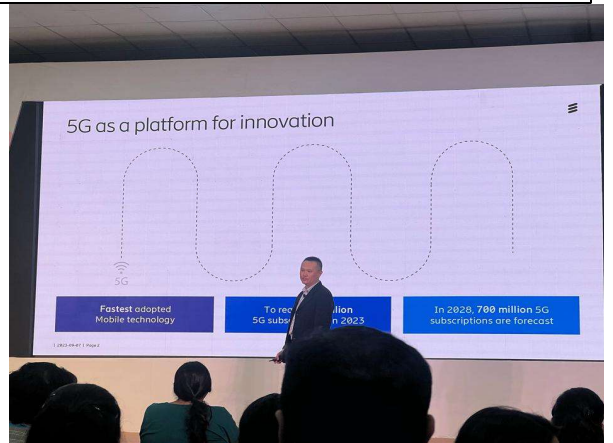
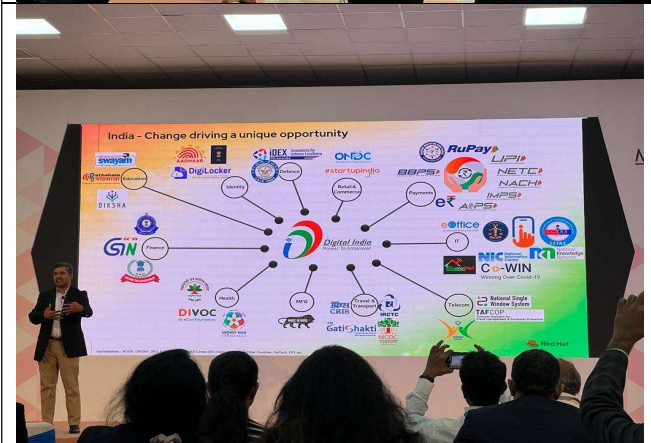
Session on 'Edge and Beyond: Data Centers Redefined (Part B)' (Session Hall 1): Continuing the discussion on redefined data centers.

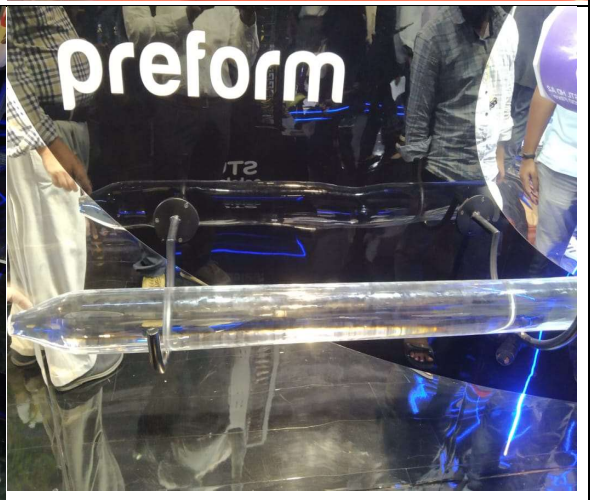


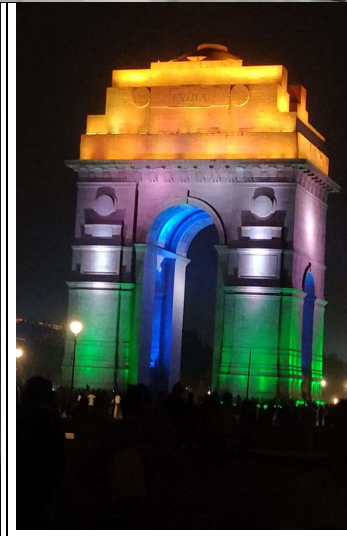
Session on 'Open APIs: The Key to Seamless Integration' (Session Hall 5): Discussing the importance of open APIs for seamless integration.

The third day of IMC 2023 was a culmination of in-depth discussions and workshops, providing attendees with a comprehensive understanding of the evolving technology landscape. The event highlighted the importance of 5G, sustainability, women's role in tech, data privacy, and India's significance in the global technology ecosystem. IMC 2023 has successfully accomplished its mission of showcasing revolutionary innovations and setting the stage for India to lead in the digital transformation of the future.









### **Some of the Seminars attended by the Group:**

1. Seminar Topic: Spectrum Valuation & Pricing for Affordable Access to Digital Communications  
By National Institute of Communication Finance.  
Venue: Session Hall 5  
Time: 11:45am to 01:30pm  
Moderator: Amit Sharma  
Panelists: Rahul Vatts, Luiz Felipe, Rohit Prasad, Mahesh Uppa, Praveen Pogiril.
  - A. Discussed analysis of spectrum valuation methods and the factors are
    - a. comparative sales
    - b. cost based valuation
    - c. income based valuation
  - B. Discussed challenges of pricing spectrum
    - a. providing subsidies to mobile operators
    - b. setting a reserved portion that offer affordable services
  - C. Financing Spectrum
    - a. Debt Financing
    - b. Equity Financing
  - D. Key Takeaways: Panelists agreed that
    - a. pricing policies are not supportive of affordable access to digital communications in India.
  
2. Seminar Topic: Celebrating Inclusiveness: Women Crafting a Dynamic Tech Future  
Venue: session Hall 5  
Time: 12:00 to 13:00pm  
Moderator and Panelists:
  - I. Manisha Garg
  - II. Dayavanti Kamath
  - III. Menakshi Gupta
  - IV. Satkeerthi M
  - V. Jeanette Whyte
  - A. Tech is very useful to grow startup and get funding
  - B. This year 40% women speaker in the world.
  - C. If you are not serious then you are spoiling somebody else's career.
  - D. It is important to create a culture of inclusion in the workplace. This means creating an environment where everyone feels welcome and valued, regardless of their gender, race, ethnicity or any other personal characteristics.
  - E. It is essential for women in tech to have role models to look up and mentors to support them.
  - F. Explained a number of ways to promote gender diversity in their workforce, for ex.
    - a. Implementation of unconscious bias training
    - b. Creating an employee resource group for women
    - c. Offering family-friendly policies
  
3. Seminar Topic: Spectrum Valuation & Pricing for Affordable Access to Digital Communications  
By National Institute of Communication Finance  
Venue: Session Hall 6  
Time: 11:45am to 01:30pm
  - I. Moderator: Amit Sharma
  - II. Panelists:
  - III. Rahul Vatts

- IV. Luiz Felipe
- V. Rohit Prasad
- VI. Mahesh Uppal
- VII. Praveen Pogiri

1. Discussed analysis of spectrum valuation methods and the factors are

- comparative sales
- cost based valuation
- income based valuation

2. Discussed challenges of pricing spectrum

- providing subsidies to mobile operators
- setting a reserved portion that offer affordable services

3. Financing Spectrum

- Debt Financing
- Equity Financing

4. Key Takeaways: Panelists agreed that

- their is need of more research to improve efficiency and utilisation of spectrum
- to promote competition to drive down prices
- Till the date pricing policies are not supportive of affordable access to digital communications in India

4. Seminar Topic: Edge and Beyond: Data Centers Redefined (Part A)

Venue: Session Hall 1

Time: 2:00 pm – 3:00 pm

Moderator: Alekh Tiwari

Panellists: Vivek Banzal, Ludvig Landgren, Peeyush Sinha, Muneyb Minhazuddin, Vidya Ratn Shukla, Saurabh Tewari

1. The Edge Revolution:Leverages smaller, local data centers or edge nodes

- Process data
- Reduce latency
- Enhances real-time capabilities
- Applications like autonomous vehicles, IoT devices, and smart cities

2. Decentralized Data Processing:

- Data processing is now distributed across a network of edge nodes
- Bringing the data closer to where it's needed

3. 5G and Edge Synergy:

- The deployment of 5G networks is a significant driver
- The high bandwidth and low latency of 5G technology
- Enable data to be processed at the edge
- Support applications that rely on real-time data analysis and response
- Data centers are structured and managed.

4. Security:

- Advanced security measures to protect data at the edge at centralized data centers
- Includes robust encryption
- Acc

## Partners, Supporters & Exhibitors

Following Government Ministries, Industries and Companies were instrumental in supporting the IMC 2023 by means of Partnership in the organization of this event. The stalls of individuals were established at the venue in order to give the latest avenues they are undertaken by them. The officials and representatives were available full time to attend the visitors to discuss and describe various programmes they run under their ministries, range of products in their industries and the research being conducted in thrust areas of Electronics Engineering, Communications, Digitization and Digitalization etc.



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सूचना प्रौद्योगिकी मंत्रालय  
MINISTRY OF  
ELECTRONICS AND  
INFORMATION TECHNOLOGY

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**PROSCEND**





## Prominent Startups:

Aspire is a pioneering startup program of the India Mobile Congress, striving to create an ethos of innovation and accelerate growth.

As an enriching and engaging ecosystem for budding entrepreneurs, Aspire is committed to fostering connections between startups, investors, and established businesses with an aim to catalyze fresh entrepreneurial initiatives and collaborations. With an anticipated lineup of 1,000 startups showcasing their cutting-edge digital and tech solutions, it seeks to be the ultimate platform to secure investments and funding. It will also boast various multifaceted zones designed to bridge the gap between startups, investors, and industry leaders. Few startups where the team visited are as follows:



The India Mobile Congress (IMC) 2023, held over three eventful days, has solidified its position as the premier telecom, media, and technology forum in Asia. Organized jointly by the Department of Telecommunications (DoT) and the Cellular Operators Association of India (COAI), the event brought together a diverse array of stakeholders, including industry leaders, government representatives, academia, and technology enthusiasts. IMC 2023 successfully facilitated in-depth discussions, showcased innovations, and explored emerging trends that will shape the future of the technology and telecom sectors.

## Key Themes:

IMC 2023 was characterized by a series of insightful sessions, workshops, and plenary discussions that revolved around critical themes, including:

- Next-Gen Wireless: With a strong focus on 6G and 5G technologies, IMC delved into the future of wireless communication and the transformative potential it holds.
- Innovation and Entrepreneurship: The event highlighted the role of innovation and entrepreneurship in driving sustainable development and economic growth.
- Digital Transformation: Sessions on enterprise digital transformation and Industry 4.0 explored the path forward for businesses and industries in an increasingly digital world.

- Connectivity Solutions: Discussions on network-as-a-service, satellite communication, and broadcasting solutions emphasized the critical role of connectivity.
- Cybersecurity: IMC emphasized the importance of building cyber resiliency in the new digital age.
- Semiconductors: The event explored India's role in the shifting global semiconductor landscape.
- AI and Automation: Sessions on AI, Generative AI, and automation examined their impact on various industries.
- Data Privacy and Security: Data privacy pioneers discussed strategies to ensure digital confidence.
- Sustainability: Sustainable networks, recycling, and green technologies were at the forefront of discussions.
- Digital Inclusion: The role of technology in promoting digital inclusion and skilling for a connected world was a central theme.
- Women in Tech: IMC celebrated the contributions of women in crafting a dynamic tech future.

#### Highlights:

- The event featured an inauguration ceremony attended by prominent figures, including Prime Minister Narendra Modi, highlighting the significance of IMC.
- A diverse range of sessions and workshops provided a comprehensive view of the evolving technology landscape.
- The IMC Award and Start-up Night recognized and celebrated excellence in the tech industry and the achievements of innovative start-ups.

India Mobile Congress 2023 accomplished its mission of serving as a beacon of all-encompassing digital transformation. The event provided attendees with a wealth of knowledge, insights, and inspiration to navigate the ever-changing world of technology and telecommunications. As Asia's largest technology event and India's foremost networking event in the technology space, IMC 2023 has positioned India at the forefront of innovation and technology, ready to lead the way into the digital future. IMC 2023 sets a precedent for the industry, emphasizing the need for innovation, sustainability, and digital inclusion in the digital age. It has cemented its status as a pivotal platform for industry leaders and visionaries to converge and shape the trajectory of technology in Asia and beyond.

- A report by  
 Faculty Incharge of the Educational Visit  
 Prashant Laxmanrao Paikrao  
 Assistant Professor  
 Electronics and telecommunication Engineering Department