

EXPO NEWS

28th
Convergence
India Expo

6th Smart Cities
INDIA EXPO

24-26 MARCH 2021
PRAGATI MAIDAN, NEW DELHI

NEW DELHI | 25 MARCH 2021

DAY 2

MESSAGES



Durga Shanker Mishra

Secretary
Ministry of Housing & Urban Affairs
Government of India

I am happy to learn that India Trade Promotion Organisation (ITPO), and Exhibitions India Private Ltd. are jointly organizing the 6th Smart Cities India and the 28th Convergence India at Pragati Maidan, New Delhi from 24th - 26th March 2021.

Considering rapid pace of urbanization across the country and projection of urban population in 2051 going above 87 crores, which is more than double of today, development of suitable infrastructure poses big challenge and at the same time huge opportunity for economic growth. In the last six and half years, our country has witnessed massive transformation of urban landscape,

kind of which has not been experienced in the part of globe so far. This has been spearheaded by various transformative missions like Swachh Bharat Mission-Urban (SBM-U), Atal Mission for Rejuvenation and Urban Transformation (AMRUT), Pradhan Mantri Awas Yojana – Urban (PMAY-U), Smart Cities Mission (SCM), Deendayal Antyodaya Yojana – National Urban Livelihood Mission (DAY-NULM), Heritage City Development and Augmentation Yojana (HRIDAY), Metro Rail Development and Sustainable Urban Transport (UT). Now in the current Budget 2021-22, Hon'ble Finance Minister has announced the launch of Jal Jeevan Mission – Urban

(JJM-U), Swachh Bharat Mission-Urban 2.0 (SBM-U2.0) and Scheme to Augment City Bus Services (CBS) and promote Urban Green Mobility (UGM) apart from Introduction of MetroLite and MetroNeo in tier-2 cities. All these have played quite vital role in preparing the country for New Urban India.

Smart Cities Mission has brought in a new paradigm in urban domain where engagement with citizens at large scale, selection through challenge process and focus on improving liveability, economic-ability and sustainability have taken the forefront of development. Over and above the basic infrastructure, an IT layer especially Machine Learning, Automation and Artificial Intelligence (MLAAI) have given new wings to improve the quality of life in our cities. These are lighthouses or urban laboratories whose learnings and experiences will percolate to other neighboring cities/towns to make them smart.

Smart cities have played an important role during the Covid-19 through various positive and proactive measures. They have proved to be very useful in various kinds of Disaster Management including flood, cyclone etc., and improving the quality of life through data capture, analytics, decision making etc.

I am happy that the Expo-cum-conference platform will provide an opportunity to all those who have been engaged in Smart Cities in whatever capacity to showcase their experiences and learnings from developments and innovations to each other and resolve to take the Smart City movement further to all our cities to achieve the vision of our Hon'ble Prime Minister for New Urban India which is inclusive, supportive and conducive for every citizens to realise their potential and aspirations and add to the economic growth.

I wish all the very best for successful organization of the event!

I wish the event a grand success.



Amit Khare

Secretary
Ministry of Information & Broadcasting

I am pleased to note that India Trade Promotion Organisation (ITPO) and Exhibitions India Group are organizing the 28th Convergence India Expo including IoT India expo, Mobile India, Digital Gaming, Embedded Tech India, Fintech India and 6th Smart Cities India Expos, at Pragati Maidan during 24th – 26th March, 2021.

The broadcasting sector is an important part of the economy and International exhibitions are a great opportunity for companies to meet on a global platform and exchange ideas, information and technologies. Convergence India is a leading platform that demonstrates convergence of technologies in telecom, IT, broadcast and digital media sectors.

The 28th Convergence India 2021 Expo is a praiseworthy effort in this direction. The deliberations at the 28th Convergence India 2021 Expo would be purposeful for the participants from India and overseas.

I extend my greetings and best wishes for the success of the 28th Convergence India 2021 expo to be held from 24th – 26th March, 2021.



Rameshwar Prasad Gupta

Secretary
Ministry of Environment, Forest & Climate Change
Government of India

I am happy to note that India Trade Promotion Organisation (ITPO) and Exhibitions India Group are organizing the 28th Convergence India and 6th Smart Cities India expo from 24th-26th March 2021 at Pragati Maidan, New Delhi, to bring about a conscious and amalgamated effort for a global environmental upgrade.

Biodiversity, the variety of life on earth, is vital to social and economic development, and is indeed fundamental to our survival. Over the years, retrospective wisdom and development experience have guided us in favor of the commonsensical understanding that protecting the variety of life forms and their infinitely complex interactions forms the very basis for long-lasting and inclusive development. In other words, environment, or more specifically biodiversity and its invaluable and often irreplaceable ecosystem services- from the air we breathe to the water we drink- are the very foundation on which viable long-term development rests.

India is home to varied species of flora and fauna, and is recognized as one of the world's mega-diverse countries, rich in biodiversity and associated traditional knowledge, constituting 23.39% of its geographical area under forest and tree cover. With just 2.4% of the global land area, India accounts for nearly 7% of the recorded species, whilst supporting 17% of the human population. India is among a few countries in the world where forest cover is consistently increasing.

Various wildlife conservation projects and programmes have been implemented and initiated by the Government of India, to conserve and protect wildlife species in the country. To stop illegal activities and human animal conflicts, various advisories and guidelines have been issued. The ministry has been deeply committed to protecting the country's natural environment, and has been taking all necessary steps to protect the wildlife of the country.

The challenge before India is to imbibe and translate the theme of biodiversity for sustainable development as an imperative in the light of our privileged status as a mega-biodiverse country. The future we want for our country thus depends heavily on the restorative and ameliorative action that we engage; which can only be met with broad stakeholder participation. From the right knowledge, to the right resources and the right spirit of working together for the common good, we can ensure the conservation of bio diversity for future generations to come. We need to come together and continue with the success of wildlife and nature conservation in the country, thereby striving to become world leaders in the environmental space.

My best wishes to all participants and stakeholders for a productive business event.



Ashutosh Sharma

Secretary
Ministry of Science & Technology
Government of India

I am happy to note that India Trade Promotion Organisation (ITPO) and Exhibitions India Group are jointly organising the 28th Convergence India & the 6th Smart Cities India expo at Pragati Maidan, New Delhi during 24-26 March 2021.

Science and Technology is pivotal to India's development, and the Ministry of Science and Technology plays a salient role in funding research and development institutions, in terms of both excellence and reach. The Department of Science & Technology's "Fund for Improvement of Science and Technology Infrastructure" in Universities and Higher Educational Institutions (FIST)" caters to the high-end requirements of start-ups and industries, and help them pursue the government's 'self-reliant India' Mission.

As lockdowns across the world impacted global supply chains

in an unprecedented manner, there was a sudden shortage of equipment to handle the public health crisis. Facing the enormous challenge of producing these commodities as quickly and large quantities, Government of India vigorously activated the 'Make in India' programme, and involved various R & D institutions of the country. Thousands of researchers worked around the clock to develop indigenous alternatives and solutions including testing kits, masks, alcohol-based sanitizers, personal protective equipment (PPEs), and more.

Trade fairs like Convergence India and Smart Cities India expo provide a unique opportunity to explore and experience advancements in technologies, and how they can contribute towards strengthening businesses.

My best wishes for the success of the event.



Pravin Kumar Purwar

Chairman and Managing Director
Bharat Sanchar Nigam Limited

I am happy to note that the 28th Convergence India and the 6th Smart Cities India 2021 expo, along with *Mobile India expo*, are being organized by the India Trade Promotion Organisation (ITPO) and Exhibitions India Group, from 24th to 26th March 2021, at Pragati Maidan, New Delhi.

One of the largest & leading public sector units providing comprehensive range of telecom services in India, Bharat Sanchar Nigam Limited (BSNL) is channelling all efforts to bring to our customers and stakeholders a wholesome digital experience, taking every possible step towards accomplishing the government's 'Digital India' vision.

To extend high-speed broadband connectivity across both rural and urban areas, BSNL rolled out the Bharat AirFibre service, which uses

radio waves to offer broadband technology. With this service, customers will gain access to the internet and voice services at an affordable rate. Since Bharat AirFibre was launched on the unlicensed radio spectrum, it also accords better quality and low interference.

One of the major challenges last year with enforced 'Work from Home' routines was the need for seamless functioning of internet connectivity. To address this issue, BSNL introduced a Work@home broadband plan free of cost. The service was crucial in fulfilling obligations including work from home, digital learning, buy groceries online or anything to help perpetuate social distancing, and minimize the need to step outside for any essential needs.

India's telecom revolution has found favourable tailwinds on the policy side, with the government having fast-tracked reforms, and remaining proactive in offering impetus to companies in the sector. My congratulations to India Trade Promotion Organisation and Exhibitions India Group for successfully organising this event every year.

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INNOCENT-007/21



INDIA'S BIGGEST TECH AND INFRA SHOW, THE 28TH CONVERGENCE INDIA AND THE 6TH SMART CITIES INDIA 2021 EXPO, REIGNITES TRADE SHOWS AT THE REDEVELOPED PRAGATI MAIDAN COMPLEX WITH A TREMENDOUS DAY 1.



- The first live and in-person B2B expo was inaugurated by Shri Satyendar Jain, Minister of Health & Family Welfare, Industries, Home, Public Works Department, Power, Urban Development and Transport, Government of NCT of Delhi, today at Pragati Maidan, New Delhi.
- 500 participating brands, 250 speakers and 50 conference sessions; the expo demonstrated the power of in-person networking.

New Delhi, 24th March, 2021: The 28th Convergence India and the 6th Smart cities India expo 2021 was inaugurated today with a cutting-edge exhibition showcase and engaging conference sessions, along with business meetings and knowledge papers at India's biggest tech and infra expo.

Hosted by India Trade Promotion Organisation (ITPO) and Exhibitions India Group (EIG), the expo marked the resurgence of live and physical events. The expo supports the Government's vision of transforming India into a digitally and sustainably empowered economy. Convergence India is at the forefront of India's digital revolution, while the Smart Cities India expo is a reflection

of India's emerging modernization and development landscape. The combination of these two leading expos, supporting India's Digital & Smart Cities Missions, delivered an event that accelerated technological innovation, opening with key discourses on the growth of India's digital economy and enabling entrepreneurship as a driving force for socio-economic development.

The expo was inaugurated by Shri Satyendar Jain, Minister of Health & Family Welfare, Industries, Home, Public Works Department, Power, Urban Development and Transport, Government of NCT of Delhi, who stressed the importance of events such as the Convergence India expo and the Smart Cities India expo, in creating a digital and smart India. Speaking at the opening session on 'Building Cities for People' at the Smart Cities Conclave, he said, "The idea of smart cities should also incorporate the idea of sustainability, for without it, no city can be smart. In building and developing smart cities, not only do we need to think about people but also work towards involving them in the process of planning and development. Water is going to be one of the biggest problems going forward, and we must think about solutions. Also, integrating new-age technologies such as AI (Artificial Intelligence) and ML (Machine Learning) in the making of smart cities is the need of the hour."

A key highlight of the event was a stellar line-up of senior government representatives, leaders from large corporates and young tech start-ups, along with a mix of entrepreneurs, accelerators and academia, who addressed packed rooms and responded to queries from an inquisitive audience.

Some distinguished and eminent industry experts included Shri Kunal Kumar, IAS, Joint Secretary, Ministry of Housing and Urban Affairs; Shri Shobhit Agrawal, Partner KPMG India; Shri. P D Vaghela, IAS, Chairman, TRAI; Mr. Puneet Narang, Partner, Urban Transformation and Major Projects Advisory, IGH, KPMG in India; Dr. Renu Khosla, Director, CURE; Mr. Satish Jamadagni, Vice-Chair, TSDI; Dr. S K Gupta, Secretary, TRAI; Shri Amit Kumar Ghosh, IAS, Joint Secretary, Ministry of Road, Transport & Highways; Mr. Puneet Anand, AVP-Corporate Affairs Unit, Hyundai Motor, India, and many more, graced the conference sessions to share their vision and ideologies.

Addressing the opening session



themed on 'Building Cities for People', Dr. Renu Khosla said, "Smart cities should be about the people who live in them. People from the informal sector should be at the core of these cities."

Shri Rajeev Talwar, CEO, DLF, expressed his thoughts on the importance of infrastructure at the Smart Cities Conclave, "Around 50 per cent of India's population will be living in cities by the middle of this century, and what we need now is nothing short of an infrastructure and housing revolution in the country."

Continuing on the session theme, Shri Kunal Kumar said, "Smart cities have taken different perspectives in different countries around the world. In the Indian context, the definition of smart cities is amorphous in nature. The concept of smart cities is a combination of multiple layers. Tech is one of the factors among the bouquet of what is needed to build smart cities."

At the same time, Shri PK Gupta, Chairman & MD, NBCC said, "Earlier, the word smart was associated with only a person. Now, we say smart phones, and here today we are ideating and discussing about smart cities. The idea of smart city

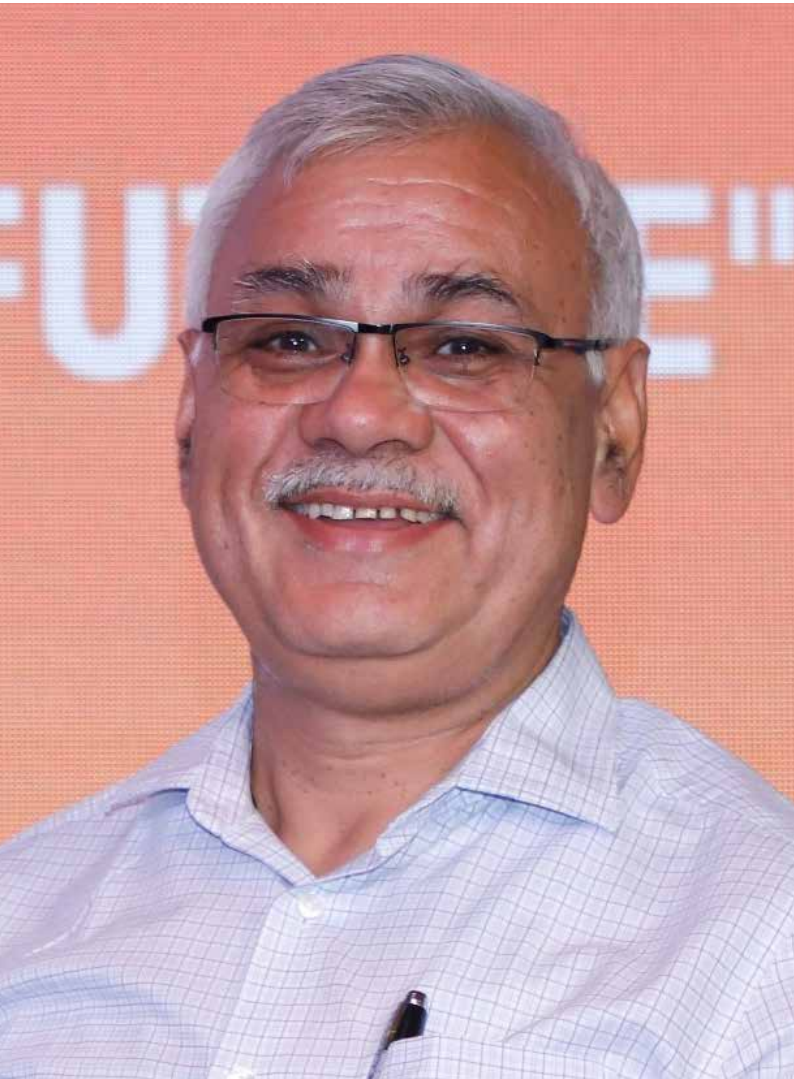
can be divided into three categories – new cities, re-developed cities and adjusting cities."

Shri Rajesh Agrawal, IAS, Executive Director, India Trade Promotion Organisation, extended the vote of thanks, saying, "Tech is playing a game-changing role in this nation building. And the focus of creating smart cities must have a people-centric approach."

During a session on the 'Future Roadmap for 5G', Shri Hari Om Rai, Lava International, explained how the mobile device industry has gained momentum, saying, "The electronics industry is a \$2 trillion-dollar industry, out of which mobile devices comprise \$500 billion; forming the core of electronics. We have manufactured 339 million devices valued at \$25 billion in 2019, and from this number we are now in looking to manufacture 1 billion devices, to emerge as the number one manufacturing destination in the world. Today our manufacturing ecosystem is 5G ready, with 5G being just a part of this entire prowess. The idea is to dream and to dream big for those who want to join this ecosystem and create something phenomenal for India."

The expo highlighted the value of interacting and networking in-person to discover innovative solutions imperative for India's socio-economic growth. The conference tracks, keynotes and sessions focused on themes including new-age technologies, renewable energy, infrastructure, and technologies for a stronger, smarter India.

About 28th Convergence India & 6th Smart Cities India 2021 expo The 28th Convergence India & 6th Smart Cities India expo, scheduled from 24-26 March 2021, at Pragati Maidan, New Delhi, is organised by Exhibitions India Group (EIG) and the India Trade Promotion Organisation (ITPO). Convergence India is at the forefront of India's digital revolution, while Smart Cities India expo reflects India's emerging modernization and development landscape. The combination of these two leading expos, supporting India's Digital & Smart Cities Missions, is supported by various Government of India Ministries & PSUs. The event attracts a large turnout of qualified visitors & delegates from government departments and private organisations.



IN CONVERSATION WITH
Durga Shanker Mishra
Secretary, Ministry of Housing and Urban Affairs, India

Durga Shanker Mishra is Secretary, Ministry of Housing and Urban Affairs in India. A 1984 batch Indian Administrative Service (IAS) officer of the Uttar Pradesh cadre, he is a premier authority on India’s Smart Cities, and the various initiatives, challenges and vision associated with India’s ambitious urbanization projects. Let’s hear from him in a candid chat.

The Honorable Prime Minister recently said that ‘Aatmanirbhar Bharat is healthy individual, healthy society, healthy economy.’ How is the Smart Cities mission in consonance with the mantra?

The objectives of Smart Cities Mission are in complete consonance with these three mantras of Aatma-Nirbhar Bharat. More than five thousand projects of Smart Cities Mission are making our 100 cities more liveable, with adequate infrastructure; reliable utilities; and better opportunities for learning and employment.

Our Hon’ble Prime Minister has also stated that “Developing infrastructure in line with requirements of 21st century will ensure economic growth”. He highlighted Smart Cities Mission as one of India’s key efforts to prepare itself for the challenges of 21st Century. India’s cities today contribute about 2/3rd of its economic output. Seventy per cent of future employment is expected to be generated in Indian cities, with emerging cities (population less than 1 million) driving consumption expenditure. With 70% of India’s built environment for 2030 yet to take shape, its impending urban transformation also represents significant opportunities for domestic and international investments

As you know, the needs of urban India are changing. It is no longer

confined to providing only roads, water supply, drainage, and sewage infrastructure to our cities. There are multiple dimensions which demand our attention like environment, economy, public health, education, safety and surveillance, technology, public transport systems and much more. This is what makes the Smart Cities Mission unique and ambitious. While we have focused missions for primary infrastructure like affordable housing, cleanliness, livelihood, water supply and sewerage lines, Smart Cities Mission with its multi-sectoral approach was envisaged to address these larger expectations of Urban India towards being ‘Atma-Nirbhar Bharat’.

Many Indian Smart Cities have successfully demonstrated the power of Smart City technologies in combating COVID-19; how do you think other cities can gain from their expertise?

Smart Cities projects were very helpful during COVID management and contributed in building effective response mechanisms to prevent, contain and address the crisis confronting the nation. It was imperative to leverage data and technology in combination with local intelligence, community collaboration and agile governance mechanisms. To do this effectively, the 49 Integrated Command and Control Centres (ICCCs) in smart cities were converted into ‘COVID 19 War Rooms’ that became essential nodes for collecting information, conducting predictive modelling, coordinating response and communicating with citizens. With 54 cities having their ICCCs ready today, another 29 cities are in advance stages of developing these brain and nervous systems of the cities to manage operations beyond disaster management. This in my opinion is ‘INNOVATION!’

It is also correct that these efforts have to now be extended to other cities of the country. Some of the efforts made to achieve this are as under:-

A. We recently published a workbook “Making a City Smart: Learnings from the Smart Cities Mission” and was launched by our Minister on 4th March, 2021. This work-book will provide a step-by-step process and act a guidebook for all cities in their pursuit to become ‘Smart’.

B. We have also taken initiatives to document our efforts in the Ministry. To give an example, each city came up with innovative efforts in COVID management. We documented them, and converted them in a book, and made it available to all cities so as to learn from best practices.

Please tell us about some of the key recent initiatives by MoHUA for the advancement of ministry’s goals.

Three national challenges have been initiated by the Smart Cities Mission, Ministry of Housing and Urban Affairs (MoHUA), Government of India.

- India Cycles4Change Challenge launched on 25 June 2020 in partnership with Fit India and ITDP India Programme as knowledge partners. Since the launch, 107 registered cities, including all Smart Cities have used a combination of strategies—awareness campaigns and promotions on social media, print publications in multiple vernacular languages, on-ground cycle rallies, training camps, and free cycle repair clinics—to prod citizens to join the transformational movement.
- The Streets4People Challenge is an initiative of the Smart Cities Mission, Ministry of Housing and Urban Affairs (MoHUA), Government of India, to inspire cities to create walking-friendly streets through quick measures, in response to COVID-19. The Challenge will support cities across the country to develop a unified vision of streets for people in consultation with stakeholders and citizens. Streets4People Challenge on 11th September, 2020 in partnership with ‘FIT India programme’ and with ‘Institute for Transport and Development Planning (ITDP) India Programme’ as knowledge partners. 113 cities have registered for the Challenge and have initiated activities in preparation.
- Nurturing Neighbourhood Challenge was launched on November 2020. It is a 3-year initiative hosted by the Smart Cities Mission, Ministry of Housing and Urban Affairs in collaboration with the Bernard van Leer Foundation and WRI India. The Challenge enables Indian cities to adopt an early childhood lens in designing neighbourhood-level improvements that promote the health and well-being of young children and their caregivers.

Some more recent initiatives include inter alia:

- Ease of Living and Municipal Performance Index: The final rankings of Ease of Living Index 2020 and the Municipal Performance Index

2020 were announced for cities with a population of more than a million, and cities with less than a million people. 111 cities participated in the assessment exercise that was conducted in year 2020. The Ease of Living Index (EoLI) is an assessment tool that evaluates the quality of life and the impact of various initiatives for urban development. It provides a comprehensive understanding of participating cities across India based on quality of life, economicability of a city, and its sustainability and resilience. The assessment also incorporates the residents’ view on the services provided by city administration through a Citizen Perception Survey.

The Municipal Performance Index (MPI) was launched as an accompaniment to the Ease of Living Index. It seeks to examine local government practice in municipalities across areas of services, finance, policy, technology and governance. It seeks to simplify and evaluate the complexities in local governance practice and promote the ethos of transparency and accountability.

- TULIP: One of the biggest steps towards Aatma Nirbhar Bharat would be to engage our youth, in our young India. On 4 June 2020, along with our Minister and the Minister of Human Resources Development, ‘The Urban Learning Internship Program (TULIP)’ was launched. This program is designed for all our ULBs and Smart City SPVs to hire fresh graduates as interns. Already more than 2.5 lakh students have registered on the platform and more than 15,000 internship positions have been opened by the cities. This is a big opportunity for our youth to get exposure of working with the government, and be more market ready. Surely, we must encourage engaging more interns through TULIP.
- City Innovation Exchange (CiX) platform was launched on 25 February 2021. The platform will be a significant addition to the growing innovation ecosystem of India and focuses on fostering innovative practices in cities. CiX, through an ‘open innovation’ process, engages with innovators to design-test-deliver on solutions to pressing urban challenges. This initiative is among the ongoing efforts of the Government to realise Prime Minister’s vision of New and AtmaNirbhar Bharat, by making cities more self-reliant and enabled to meet the needs of and provide services to their citizens.

Designed on the philosophy of ‘everyone is an innovator’, the platform will bring together Citizen Organisations-Academia- Businesses-Government to co-create for the future of Urban India in a transparent and sustainable manner. The Smart Cities Mission has devel-oped this partnering effectively with Startup India, Atal Innovation Mission, AGNIi and other initiatives in the Indian Innovation ecosystem. The Platform has more than 400 start-ups, 100 smart cities, more than 150 challenges statements and over 215 solutions at the time of launch.

- National Urban Digital Mission (NUDM): is bold step in that direction which is envisioned for digital urban transformation and seeks to create nationally shared digital public goods to foster innovation, collaboration. A Centre for Digital Governance (CDG) has been created at the National Institute of Urban Affairs to anchor and operationalize NUDM.
- India Urban Data Exchange (IUDX): IUDX will facilitate data discovery and sharing between disparate urban systems using open standards and APIs. It will help existing and new systems to evolve in their own way while providing a policy driven standard way to exchange data in a safe and secure manner, thereby providing the necessary balance between data privacy and security on one hand and data empowerment of the ecosystem on the other hand. IUDX is being created as an open-source and collaborative effort, involving contributions and support from a wide variety of stakeholders in industry, academia and civil-society organizations. A collaborative ecosystem ensures that this critical piece of national infrastructure is responsive to the needs of cities and immune to being captured or controlled by a single commercial entity.

What has been the role of Public Private Partnerships within the aegis of the Smart Cities Mission?

One of the highlights of Smart Cities Mission has been a remarkable success of PPP projects. This success is noteworthy for three reasons; (a) **First, the total value of PPP projects successful** in selecting private investor. At present, 210 PPP projects worth ₹19,389 crore have been grounded/ completed stage in the Smart Cities Mission. These PPP projects constitute 16% of the total SCM projects in WO/ completed stage of

₹1,38,308 crore. 97 projects worth ₹8,263 crore are also in tendering stage. b) **Second, is the Geographical spread of these 210 projects across 56 cities**, which include not only big cities but also smaller cities.

Row Labels	Project (Nos.)	Cost (in ₹Crore)
Work Completed	114	3,234.69
Work Order Issued	96	16,154.41
Tender Issued	97	8,263.81
DPR Approved	14	1,640.51
DPR Under Preparation	125	6,488.18
Grand Total	446	35,781.60

c) **Third is the diverse and unique sectors where the projects are being successfully implemented.** Sector wise break up of these projects in as under:

Sector of PPP projects	Project (Nos.)	Cost (in ₹Crore)
Area Development	19	1,114.95
Economic Development	11	147.7
Energy	34	2,379.93
Environment Including Pollution	3	16.1
Housing	16	8,903.70
IT Connectivity and Digitalization	18	1,156.98
Non Motorised Transport and Walkability	18	135.16
Safety and Security	3	117.37
Sewerage and Septage	2	85.33
Social Sectors Health and Education	18	79.22
Solid Waste Management	22	2,580.92
Storm Water Drainage	1	6.7
Urban Transport	39	2,626.05
Water Supply	5	12.99
Others	1	26
Grand Total	210	19,389.10

What will the Urban Mobility landscape be like, in the aftermath of the pandemic? Should we expect any major shifts in momentum?

The pandemic is still ON, and the country is addressing the challenges on day to day basis. We understand that this is the time when people are refraining themselves from use of public transport. However, we as a Ministry are upgrading the public transport facilities in cities with unprecedented zeal, be it metro development or city buses.

Where does India figure on the global stage in its pursuit of urbanization?

Urbanisation is sweeping the world. It has been said that the 19th century was the century of empires; the 20th century was the century of countries and the 21st century will be the century of cities. During 2008, according to the United Nations, mankind became, for the first time in its history a predominantly urban species. Demographers estimate that three quarters (75%) of the global population could be urban by 2050 with most of the increase coming in the fast growing towns of Asia and Africa.

Urban areas are acknowledged as “engines of economic growth” and more than 60% of India’s Gross Domestic Product (GDP) emanates from urban areas. The top 100 largest Indian cities produce about 43% of the GDP, with 16% of the population and just 0.24% of the land area. Globally it is also being recognized that rather than a ‘rural-urban dichotomy’, the phenomenon of ‘rural-urban continuum’ is the order of the day. In India too,



there is realization that planned urbanization is one of the keys to unlock India’s growth potential.

India is in a unique position of advantage in the world because it is witnessing three key growth trends: rapid urbanization and technological development, favourable demographic dividend plus increasing domestic demand. Together they create an enormous growth opportunity for our country! The Indian population residing in urban areas has been increasing 11.4% (1901), 28.53% (2001) and 31.16% (2017) to 34% (2019). According

to the UN ‘State of the World Population report’ (2007), 40% of country’s population is expected to reside in urban areas by 2030. India’s growth in the global arena, will be ably supported by its Urban story.

A few parting words on the future roadmap of Indian Smart Cities?

Government cannot make Smart Cities alone. It needs support and partnership with Industry, academia and above all citizens. We together will build smart cities, and meet the aspirations of urban India. Governments must coordinate with technology providers, to pool the expertise needed to best implement and integrate these innovative technologies for the public good.

We need to work collaboratively to ensure smart city projects include solutions to address the challenges of the country. This will make these cities not only smarter, but safer as well. We have to build cities for the people, and this is our focus.

What do you think is the role of Smart Cities India expo in furthering the cause of smart cities in India?

The role of Smart Cities India expo is to facilitate collaboration and partnerships. In my opinion, this is perhaps the best way of growing, when we grow together. We will become Smarter, when we all collaborate and contribute towards the best.

CITY LEADER’S CONCLAVE

25 March 2021 | 1000-1800hrs | In-Person Event

The pandemic resulted in widespread turbulence across the world. As part of an emergency response to the pandemic, the Indian government leveraged its Smart Cities Mission (SCM) to enable cities to effectively leverage technology in improving citizen services and overall quality of life. Being future-ready is the aim of India’s SCM. Indian cities witnessed a mammoth challenge in containing the virus while ensuring the safety and security of its citizens. With the onset of the COVID-19 pandemic, the existing smart city models proved their agility and ability to handle the challenge in executing various projects where use of technologies in cities, waste and sludge treatment, energy saving, low carbon transport systems, command control systems, etc. proved to be helpful. Even in the face of a public health crisis, social unrest, massive budget shortfalls, and mounting climate disasters, the city leaders are innovating, and taking bold steps to

tackle their cities’ most pressing challenges. City Leaders have employed new ideas and tools, in a very short time, leaving no scope for trials and errors. While responding to an unknown crisis of this scale, cities have strived to maintain the delicate balance between life and economic well-being as both ultimately meant the same thing- precious human lives had to be saved at all costs, and the quality of life of its citizens had to be improved.

The task of City Leaders to steer and shape their city’s destiny has never been so crucial, and ‘City Leaders Conclave’ is designed to hear directly from our City Leaders about their experiences, challenges, way forward. How different will Smart Cities Mission 2.0 be from the 1st phase? How can we work on a collaboration approach more effectively? How is the mission comforting industry participation? What can we do to make Indian cities more investor-friendly?

1000 - 1100hrs Opening Session: Building Better Cities
Opening Address and Setting the context: Mr. Nilachal Mishra, Partner and Head of Government Advisory, KPMG in India
Special Address: Dr. O.P. Agarwal, CEO, WRI India
Ambassador speaks: H.E. Mr. Andre Aranha Correa do Lago, Ambassador, Embassy of Brazil
Guest of Honour Address: Shri Durga Shanker Mishra, IAS, Secretary, Ministry of Housing and Urban Affairs, Govt. of India
Launch of Knowledge Paper by: Mr. Akshay Bhalla, Office Managing Partner - North KPMG in India *Road to Sustainable Smart Cities:Challenges, opportunities and emerging trends*
1100-1110hrs Break and Changeover
1110 - 1300hrs
Session: Smart Cities Response to the Pandemic
1110-1115hrs
Setting context by Session Moderator: Ms. Neetika Chhabra, Director – Infrastructure, Government & Healthcare, KPMG in India
1115 - 1130hrs
Keynote Address by: Shri Hitesh Vaidya, Director, NIUA
1130 - 1140hrs
Special Address by: Dr. Charru Malhotra, PhD (IIT-D), Coordinator (Centre of eGovernance), Indian Institute of Public Administration

1140 - 1200hrs Panel Discussion and Q/A
1200 - 1315hrs Presentation by India Cities: Part I
1200 - 1210hrs: Dr. Garima Mittal, IAS, CEO, Faridabad Smart City
1210 - 1220hrs: Mr. Aditya Singh, CEO, Bhopal Smart City Ltd.
1220 - 1230hrs: Mr. Ashish Kumar, CEO, Jabalpur Smart City Ltd.
1230 - 1240hrs: Mr. Gaurang Rath, IAS, Varanasi Smart City
1240 - 1250hrs: Ms. Jayati Singh, IAS, CEO, Gwalior Smart City Ltd.
1250 - 1300hrs: Mr. Nitin Sangwan, IAS, Ahmedabad Municipal Corporation
1300 - 1315hrs Discussions and Q/A
1315 - 1400hrs Lunch Break
Presentations by Indian Cities: Part II
1400 - 1410hrs: Setting the context
1410 - 1420hrs: Mr. Mahesh Moroney, Deputy Chief Executive Officer, NAGPUR Smart City
1420 - 1430hrs: Mr. Raj Cherubal, CEO, Chennai Smart Cities
1430 - 1440hrs: Mr. Rahul Singh Rajpoot, CEO, Sagar Smart City
1440 - 1450hrs: Mr. Mukesh Malhotra, CEO, Biharsharif Smart City Ltd.
1450 - 1500hrs: Mr. Ravi Pawar, CEO and Dy. Commissioner, Amravati Smart City

1500 - 1515hrs Discussions and Q/A
1530 - 1545hrs Networking Break
1545-1625hrs Session: Heritage as an Enablement for Effective and Usable Urban Environment
Session Moderator: Mr. Ashutosh Kapoor, Director - Infrastructure Government and Healthcare, KPMG in India
Distinguished Speakers:
• Mr. Navin Piplani, Director, INTACH
• Mr. Athar Aamir ul Shafi Khan, Municipal Commissioner, Srinagar Municipal Corporation, Jammu and Kashmir
• Mr. Khushaal Yadav, CEO, Ajmer Smart City Ltd.
1625-1630hrs Changeover
1630-1730hrs
Session: How Important is to create “Sister Cities Concept” for Smart and Sustainable Cities?
Moderator: TBD
Distinguished Speakers:
• Dr. Bernarda Irawati Tjandradewi, Secretary General, UCLG
• Ms. Fathimath Afshan Latheef, CEO, Local Government Authority, Republic of Maldives
• Mr. Ravi Ranjan Guru, DDG, AILSG
• Mr. Rafael Greca, Mayor of Curitiba, Brazil
• Mr. Junaid Azim Mattu, Mayor, Srinagar Municipal Corporation



IN CONVERSATION WITH

Please tell us about some of the recent initiatives undertaken by your city administration for the advancement of goals set out by the Smart Cities Mission.

The most distinguishing aspect of the Smart Cities Mission is the Citizen Engagement factor. Right from the selection of Projects to their feedback, the importance of Citizen Engagement has been aptly identified in the Smart Cities Mission. As far as Gwalior Smart City is concerned, the focus has always been on enriching the quality of life for its citizens. There has been some great work in the field of Heritage Conservation and adaptive reuse. Through the restoration of marvellous pieces of architecture, Gwalior Smart City has been successful in bringing these magnificent structures back to life. The North Block at the Moti Mahal Complex now serves as the Integrated Command and Control Centre, and the depleted Gorakhi complex now houses one of the most advanced Digital Museums in the country.

Many Indian Smart Cities successfully demonstrated the power of Smart City technologies in combating COVID-19. What were the key technologies and initiatives employed by your administration in battling the pandemic?

Gwalior Smart City was the swiftest in terms of unleashing the potential of technology and bringing it to action in combating the pandemic. By March 22nd last year, the centre had established itself as the control room, and as many as 4 dedicated corona helpline numbers were available to ease the panic. By March 25th, a doctor video consultation service was made available through the Whatsapp video call facility. Other technology-based initiatives included Containment Zone Mapping through GPS/GIS-based technology, Hospital Management to track real-time availability through a portal, Border Management Portal, Profiling of Municipal Wards, ILI SARI contact tracing, etc.

- The helpline number established was crucial in countering inaccurate information related to Covid-19. More than 70000 callers called on the helpline number.
- The WhatsApp video consultation was effective in identifying positive cases. People were reluctant to move out of their homes even if they had symptoms. Having a team of experienced doctors was helpful in diagnosing the symptoms.
- Border Management during the lockdown ensured that all movements were monitored and allowed for tracking anyone suspected of being infected.
- Containment Zone Mapping helped the administration to identify and restrict any possible threat of the virus escaping identified clusters.
- The effective management of home quarantine patients helped manage the stress on hospitals. Individuals in quarantine were regularly contacted for an update on their condition. In case of a deteriorating condition, a medical team would visit the person at home and determine the need for hospitalization after conducting appropriate tests.

What are the key focus areas at the moment, and what are the priorities for the city, going forward?

Gwalior Smart City has been working on promoting sustainable solutions. We have already handed over projects such as Public Bike Sharing, which has contributed immensely to the city. With more than 75000 people availing the benefit, there has been a noticeable reduction in carbon emission. We have also expanded the accessible green spaces by developing three world-class parks and three playgrounds, which can easily be termed as the city’s preferred spots.

How different will Smart Cities Mission 2.0 be from the 1st phase?

Smart Cities Mission 2.0 would be more about sustainability. While ease

of living has been the mainstay of the 1st phase, Mission 2.0 will focus on the way cities can be self-reliant and sustainable. It will also focus on developing stronger public transport, promoting healthier workspaces, and developing affordable housing and green infrastructure in the city.

How can we work on a collaborative approach more effectively and invite more industry participation?

Industry plays an important role in the advancement and development of any country, especially its economy. Government and industry are often considered as competitors, which is a wrong perception. Both industry and government can forge a partnership to move at a rapid pace and deliver breakthrough solutions. Especially in case of the Smart Cities Mission, industry participation can make an impact through innovation and modern-day solutions. Platforms such as this are welcome, as they help in inter-weaving developmental practices.

In the process of building smarter cities, what are the various initiatives to making a city cleaner, greener and climate-resilient?

There are numerous ways that a city can transform itself into a cleaner, greener and climate-resilient version of itself. A key factor that can lead to this goal can be transportation. Promoting cycling, pedestrianisation, and energy-efficient public transport can really work towards this goal. Restoration of water bodies and development of green spaces, like city forests, are other ways to achieve the goal. But these initiatives must be on the priority list of urban local bodies.

What do you think is the role of the City Leader’s Conclave and Smart Cities India expo in furthering the cause of development and urbanisation in India?

City Leader’s Conclave is a perfect platform for best-practice sharing where Smart Cities, industry and other stakeholders can showcase the latest technology, delivery and solutions. Modern-day innovations can be brought to the fore, and the concerned authorities can pick and choose according to their city’s requirements. Further, these events also offer cities an opportunity to highlight their accomplishments and seek feedback.

Any parting thoughts on the ambitious urbanisation undertaking by India?

Urbanisation is a phenomenon that has caught up in our country over the last two decades. Earlier, it was primarily restricted to metropolises and, to an extent, to state capitals. But now, most of the states have an average of 5 – 6 cities that are hubs of development. So, it seems that the government has rightly set the focus on these cities through path-breaking initiatives, such as the Smart Cities Mission, Amrut and Schemes, like PMAY, Svanidhi, and NULM.

While Urbanisation undertaken by India is a welcome step, it has been misrepresented as a process of transforming cities into concrete jungles. It is not just roads, bridges and skyscrapers that constitute urbanisation. In fact, the need of the day is just the opposite. If there are buildings that have to be constructed, the focus has to be to make them as green as possible. Treating and reusing water and opting for clean energy sources, like solar, should be the prime focus and not just the amount of concrete used in construction. Similarly, enhancing public transport should not just mean increasing the number of wheels on the road but also choosing a renewable and sustainable fuel for the fleet of vehicles.

To make the system sustainable, the revenue generation model should be made compulsory wherever possible. Revenue generation ensures the longevity of any project, for being dependent makes it vulnerable. For example, developing something like Smart Parking is a great initiative, but to ensure that it is maintained and consistent in delivering quality service, it is imperative that it has backing in terms of revenue. At Gwalior Smart City, projects like Public Bike Sharing, Digital Museum, Smart City Bus Service, etc. have been designed in such a way that their operation and maintenance have been taken care of through a self-revenue generation model.

DE-CIX INDIA: INTERCONNECTION AT ITS BEST



Sudhir Kunder
Sr. Vice President
and National Head,
DE-CIX India

EXHIBITOR CORNER

“At DE-CIX, we are forging the interconnection fabric of the future. We see the need for new interconnection services for enterprises, paired with cloud connectivity and with global capacity interconnection needs. Low latencies and high bandwidths are crucial for excellent customer experience. More than 80 per cent of customers realize that latency is the most important criterion when concluding new interconnection contracts. Our Interconnection platform provides a unique advantage of having both internet exchange and cloud exchange

benefits through the same access.

Customers can expect improved network performance, increased security, and lower costs for infrastructure with DirectCLOUD. Internet Exchange Points like DE-CIX, are key to improving the quality of performance of digital applications and digital communication wherever they are, along the shortest route and in the most secure way. Organizations are leveraging their digital strength to reshape their own business models, in turn transforming how business is done within and across sectors, including the automotive/mobility, healthcare, finance and media sectors.” says Sudhir Kunder, Sr. Vice President and National Head at DE-CIX India.

DE-CIX India is a leading carrier and data center neutral Internet Exchange in the Indian subcontinent. Interconnecting 325+ Networks, DE-CIX Mumbai is the second largest Internet Exchange in the APAC region in terms of networks connected as per PeeringDB.

DE-CIX India aims at making interconnection easy for networks. The interconnection platform serves Internet Service Providers (ISPs), Content Delivery

Networks (CDNs), OTTs, IPTV, Hostings, Telecommunication and other networks to exchange traffic locally, improving their network performance and saving costs on bandwidth too.

We ensured that data centers were connected on both paths even if they demanded personal visits during the lockdown. This gave us resilient network for the cloud connect. Our successful launch of DirectCLOUD and the amazing response received, got us multiple 10G customers on-board for various CSPs.

We are ensuring that the same world class peering and DirectCLOUD services are implemented at our Delhi, Chennai and Kolkata locations. In India, we are present in 15 data centers, with 4 PoPs in Delhi, 2 PoPs in Chennai, 1 PoP in Kolkata and 8 PoPs in Mumbai.

In Delhi, we are present at ST Telemedia Banglasahib, ST Telemedia GK1, Sify Noida, and Web Werks Noida. We will soon be launching our Cloud services at various other locations in Delhi too. All our data centers in Delhi are interconnected with DWDM deployment for network resili-ence.

TIME TECHNOPLAST: BRINGING POLYMERS TO LIFE

EXHIBITOR CORNER

Earlier, power cables of 11 KVA & 33 KVA were laid underground without any proper protection/suitable casing, with sand filling at certain depths & with one layer of bricks/tiles on top of the trench for identification. With the introduction of HDPE Power ducts in multi-layer with silicon layer on the inside, intended for buried laying of underground power cables up to 400 mm sq. as per NEMA TC-7 standard with latest amendments, TIME TECHNOPLAST LTD, has made cabling work in the Smart Cities live up to international standards.

Three-Layer Construction:

The HDPE Power Duct pipe has three concentric layers viz. outer layer, middle layer and inner layer with ribs. The outer layer is made of HDPE in red colour, the middle layer is made of HDPE in translucent (natural) and the inner ribbed layer is of solid permanent lubricant (PLB) i.e. Silicore. These concentric layers are continuous, co-extruded and an integral part with HDPE outer/middle layer and distinctively visible in cross-section under normal lighting conditions with outer layer being generally red in colour for identification purposes.

The inner layer of solid permanent lubricant does not come out during storage, usage and



throughout the life of the pipe. The Red outer colour stays uniform throughout the length of the pipe. The Inner Ribbed 7 silicon layer as per std. NEMA TC7 specification shall have the outer pipe diameter as 250mm, 200mm, 160mm, 125mm and 110mm.

Accessories

1. ABS Split Type Coupler:

Material: ABS

The coupling is to provide a durable water tight joint between the two pipes without deteriorating the strength of the pipes and to meet the air pressure test of 2 kg/cm² for a minimum period of 2 hours without any leakage, which in turn prevents water ingress.

2. ABS Spacers

Material: ABS

Spacers are required for maintaining the proper uniform distance between two power ducts in the trench. These are modular in structure which can be laid in grids and can be secured with sand.

Innovative Details in Project:

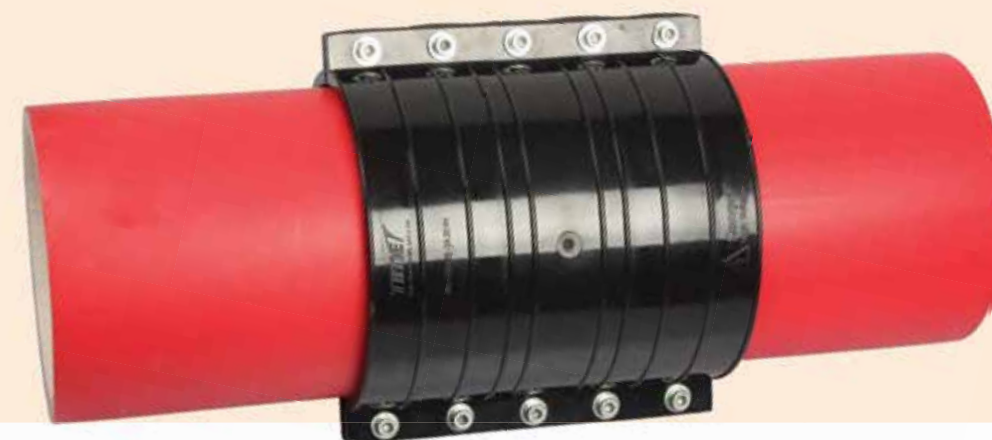
- Manufacturing Three layer HDPE power ducts in sizes 160mm, 200mm & 225mm are to be used for the first time in India, as power duct with Special Split-type Coupler joint for two pipes & spacers for cluster banks for laying of power cables 11 & 33 KVA.
- Special Red colour for identification and Special Ribbed design for lesser friction (height & nos selection) inside and Internal Silicon layer acts as self-lubricant arrangement.

Impact on Project:

- Proper formation of Cable clusters required in town plan in the utility ducts.
- Due to the necessary arrangement of future provision of cables, laying is easy & avoids cable damages.
- Easy laying/pulling of cables, makes the completion of the same fast & re-pair/maintenance easy.
- Virtually zero-maintenance & an estimated life of over 50 years under standard operation conditions.

Project Location

1. Amravati Development Corporation Ltd (ADCL, AP) / AP Capital Region Development Authority (APCRDA): supplied Through Contractor: L&T -Chennai,
2. Megha Engineers & Infra Ltd (MEIL)-Hyderabad and NCC Ltd -Hyderabad
3. Ranchi Smart City: supplied through Contractor: L&T Chennai



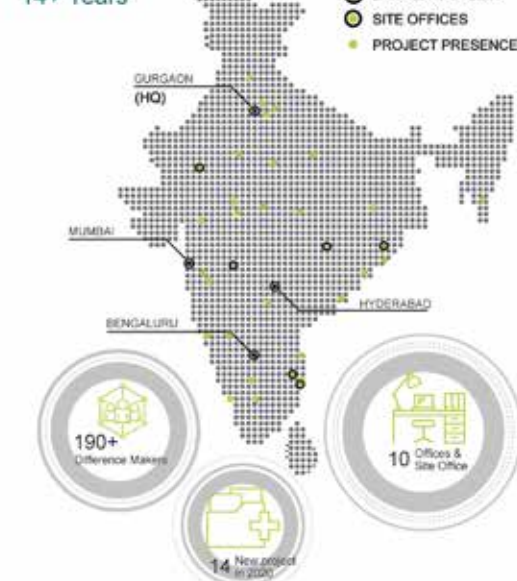
At IBI, we apply human-centred design and technology to create the resilient, connected, smart cities of tomorrow.

We are IBI Group

From high-rises to industrial buildings, schools to state-of-the-art hospitals, transit stations to highways, airports to toll systems, bike lanes to parks, we design every aspect of truly integrated cities. Our collaborative approach focuses on future-forward solutions. We're bridging the gap between design and technology, unlocking new potential in data-driven environments. We believe in cities built upon intelligent systems, sustainable buildings, efficient infrastructure, and the human touch.

Presence in India

14+ Years



Founded 1974 | Publicly Traded Since 2004

CORPORATE HEAD OFFICE: TORONTO			
COUNTRIES	REGIONS	OFFICES	EMPLOYEES
11	6	60+	2600+

THREE SECTORS OF EXPERTISE

INTELLIGENCE	BUILDING	INFRASTRUCTURE
Software Systems Design Systems Integration	Architecture Interior Design Mechanical, Structural, and Electrical Engineering	Civil Engineering Landscape Architecture Planning Transportation Urban Design

Core Services



Products for the Urban Ecosystem

All over the globe, cities rely on IBI's products and solutions to power their cities.

Smart City Platform	ITMS Integrated Traffic Management System
InForm Buildings	ATMS Advanced Traffic Management System
InForm Transportation	TMS Toll Management System
Travel-IQ	CURBiQ
Nspace	Highway Analytics TrafficIQ Data Analytics

The IBI Advantage



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ibigroup.com

IOT83: INDUSTRIAL IOT APPLICATION
ENABLEMENT AND DIGITAL TRANSFORMATION



EXHIBITOR CORNER

Iot83 Provides a game-changing path for Industrial IoT and Digital Transformation deployment. By combining our secure and scalable ‘one click deploy’ platform, our suite of Application Development tools and our agile software services, we transform the complex work of ‘big data’ deployments into a cost-effective and manageable path to an enhanced ROI.

IoT83’s mission is to dramatically reduce the risk, cost, and time to market, build, deploy and scale powerful IoT solutions. Our goal is to democratise IoT, so that businesses of all kinds can leverage its power. IoT83 Application Enablement Platform is a systemised collection of technologies and capabilities that enables and accelerates business creation and live enhancements, allowing customers to enhance and manage their business requirements. Essentially, IoT83 provides a game-changing path for Industrial IoT and Digital Transformation deployment by bringing about business transformation, leading businesses to a hyper-connected, insight-driven agile world and facilitating them to create new value.

Flex83 Secure and Scalable Application Enablement Platform: Flex83 platform is an AEP that provides customers with a clear path to a successful IoT solution. Flex83 offers an industry-leading AEP with all the capabilities discussed above in

one product. Flex83 application-enablement platform allows you to connect any device with any protocol over any network in any cloud or even as an on-premise appliance. In other words, Flex83 is a comprehensive solution that delivers all the technology, infrastructure, templates, workflows and tools you need to successfully start, execute and maintain simple, or very powerful, IoT solutions

The Platform Architecture: The IoT83 solution combines a turn-key working, scalable and secure platform (the complete big-data / IoT ‘plumbing’), Application Builder tools, which will help your team in creating new applications, and agile and cost-effective software services to get you up and running fast. Our engagement

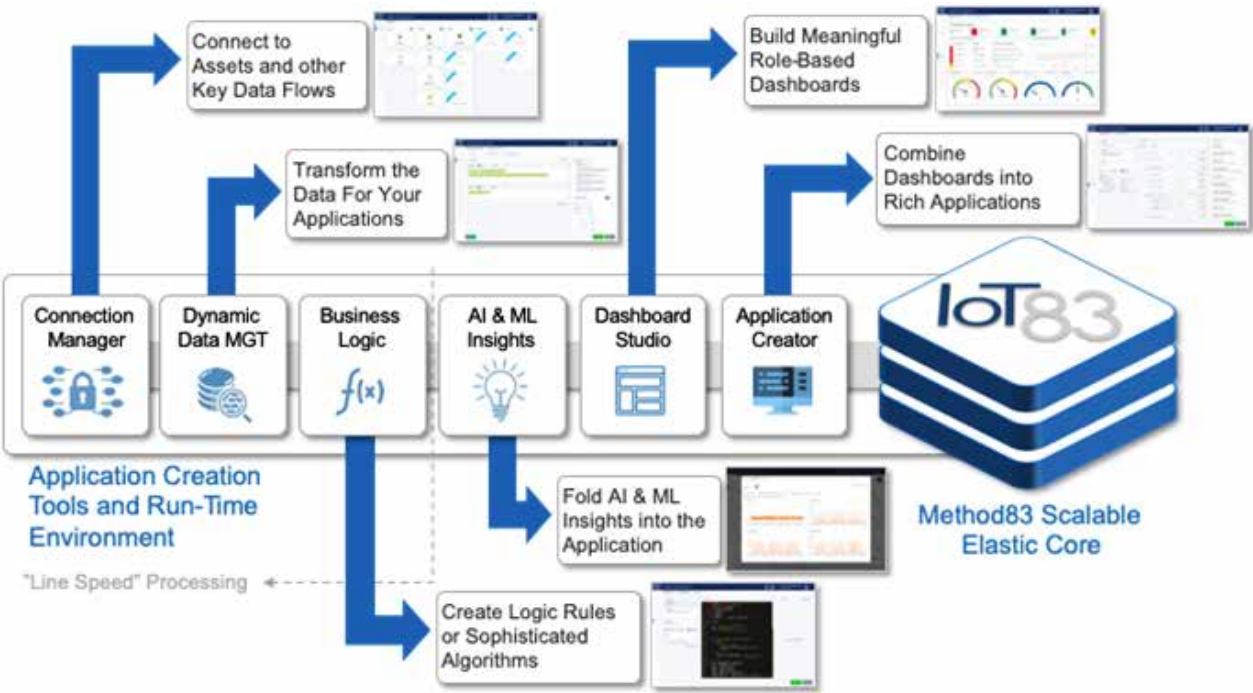
model is to leverage your team’s industry insights, know-how and strategic priorities, along with our IoT, Digital Transformation and Big-Data experience, to identify, prototype, validate and deliver new competitive advantages to our customers.

- Auto-Scaling and Self-Healing Core Proven to 65 Million Devices
- Extensive DevOps for Always-on Operational Reliability
- Portable to Public or Private Clouds or On-Premise Appliances
- No-Code/Low-Code/Custom-Code Application Builder Pipeline

Embracing IoT in the Aftermath of the Pandemic: COVID-19 has driven organisations to rethink the way they work and operate. The effects of the pandemic on the global economy

are causing small, medium and big enterprises to prioritise spending on technology and services aimed at growth or transformation. Investing in connected technologies is not a luxury anymore – in fact, it’s a necessity for survival and business continuity. Whether it is asset monitoring, management and optimisation, service automation, smart product creation, big-data analytics, integration with legacy software or next-generation operations centres, IoT83 can accelerate the deployment of your branded solution and ensure a fast path to success.

Industries and Solution: IoT83 has deployed multiple successful solutions across multiple markets. At IoT83, we have identified key ‘design patterns’ that are repeated across industrial vertical markets. Our Application Enablement Platform accelerates the deployment of these business optimisation design patterns to provide an immediate impact on operations, business metrics and profitability. Work Simplification and Operations and Service optimisation, along with Asset Fault Detection, Prevention, and Avoidance, are at the core of the ‘IoT Killer Applications’ for improving business results.



TECHNOCRATS OF
THE MILLENNIUM

EXHIBITOR CORNER

Incorporated in 1988, Vishal Pipes Ltd. is a leading manufacturer of Steel Pipes & Tubes, Steel Poles, Steel Structure (medium to heavy fabrication) and Polymer pipes - UPVC, CPVC, HDPE & MDPE Pipes. We have a strong presence in India and have expanded globally too.

Headquartered in New Delhi, we have integrated manufacturing units spread across 2,20,000 square meters at Sikandrabad in Greater Noida (Part-II), Uttar Pradesh. The units hold certifications of ISO 9001, ISO 14001, ISO 18001 & CE; and are equipped with state-of-art plant & machinery, quality control lab & equipment, PLC controlled CNC machines, galvanization baths, powder coating, surface preparation & painting facilities.

Except for mother nature, virtually all things be it buildings, skyscrapers, automobiles, bridges, railways to metro, flyovers, energy, irrigation, gas distribution, pipeline infrastructure, power distribution, rural



electrification and more, have use of pipes, tubes & steel sections in them. Pipes are the soul of constructions and industrial infrastructure! When you think about aforesaid sectors; VISHAL PIPES LTD. is the solution, where products (Brand ‘VPL India’) are epitomes of excellence in quality, corroborated with National & International Standards.

We believe in pioneering changes to cater to an ever-evolving economy by infusing superior cutting edge technology and innovation. The growth of the company has multiplied by introducing new products, improving quality and increasing productivity, bench marking the entire product line and eventually gaining the confidence of a large

customer base. Adherence to high quality and timely delivery are our USPs. Proper attention is laid on ethical issues like promoting conduct based on integrity, accommodating diversity, empathetic decision-making, compliance and governance consistent, which forms company’s core values.

TELTURE SOLUTIONS

EXHIBITOR CORNER

Telture Solutions has been at the forefront for providing the finest range of computer technology solutions in the US, Middle East and India. Our sole motive has been to upgrade the excellence of the organization. We aim for total customer satisfaction by achieving all the requirements demanded by an organization. Our advanced technologies are the ultimate requisite of every establishment.

What We Do We are into the manufacturing of Analog and Digital Voice Loggers,

FCT, Call Centre Solutions.

Vision/Mission The idea is to provide sustainable solutions to upgrade the efficiency of an organization and Enable an office to be smart with the use of latest technology in the telecom solutions for a sustainable growth.

Showcasing Smart Telecom Products for Smarter Services

- Voice Loggers
- FCT
- Gateways
- Call Centre Solutions

New Innovations

- Telis FCT with Logger
- Brisk Standalone Voice Logger

• Telis Dialer

Our Cutting Key to Embracing the New Normal Work from Home solutions for excellent customer care with centralized management.

Soft Launching

- Telis FCT with Logger
- Brisk Standalone Voice Logger
- Telis Dialer

Our Flagship Product Voice Loggers

How can our Technologies be leveraged for a Better Tomorrow? Our solutions cater to the latest developments in the telecom technology. With a strong team for research, development and designing, we keep astride by continuously

innovating products. We believe in providing futuristic solutions fully designed, developed and manufactured in India.

Quote “Our aim is to provide every business with the latest telecom solutions to enhance the efficiency of their businesses. We cater to all the verticals of the industry from micro, small, & medium enterprises to corporates. We carry multiple brands and educate the customer on the pros and cons of each solution so that they make an informed decision by keeping all the details into consideration. We have been committed to providing the customer with the best support always.” Mr. Vibin K Mathew, General Manager Sales, Telture Solutions.

ENRICHING CITIES FOR A SMARTER, SAFER & SUSTAINABLE FUTURE

INDUSTRY SPOTLIGHT

Smart Cities are the future. It is estimated that by 2050, 66% of the world's population will live in urban areas. This rapid urbanisation poses unique challenges for cities to improve the quality of life for their citizens while staying within the budget.

CIMCON has been helping cities across the globe for over 30 years with a wide range of Smart City solutions, which help cities run their operations efficiently while boosting economic growth.

CIMCON Smart Water solutions

In the current urbanisation era, water and wastewater infrastructures continue to deteriorate faster than the rate at which utilities can improve them. Asset life enhancement has never been more critical, and water management needs significant improvement. Proactive data-driven platforms for monitoring and managing water supplies are the need of the hour.

CIMCON Smart Water solutions provide real-time insights to reduce operations and maintenance costs and increase uptime and labour productivity. It collects sensor data using Industrial IOT Edge hardware and transforms it into actions using Artificial Intelligence (AI) and Machine Learning (ML) technologies.

The Smart Water solution provides early anomaly detection and diagnosis to increase a plant's efficiency, availability and reliability. Our Smart Water solutions make better use of existing water resources that a city has at its disposal to maximize its reach across the city. We have implemented successful



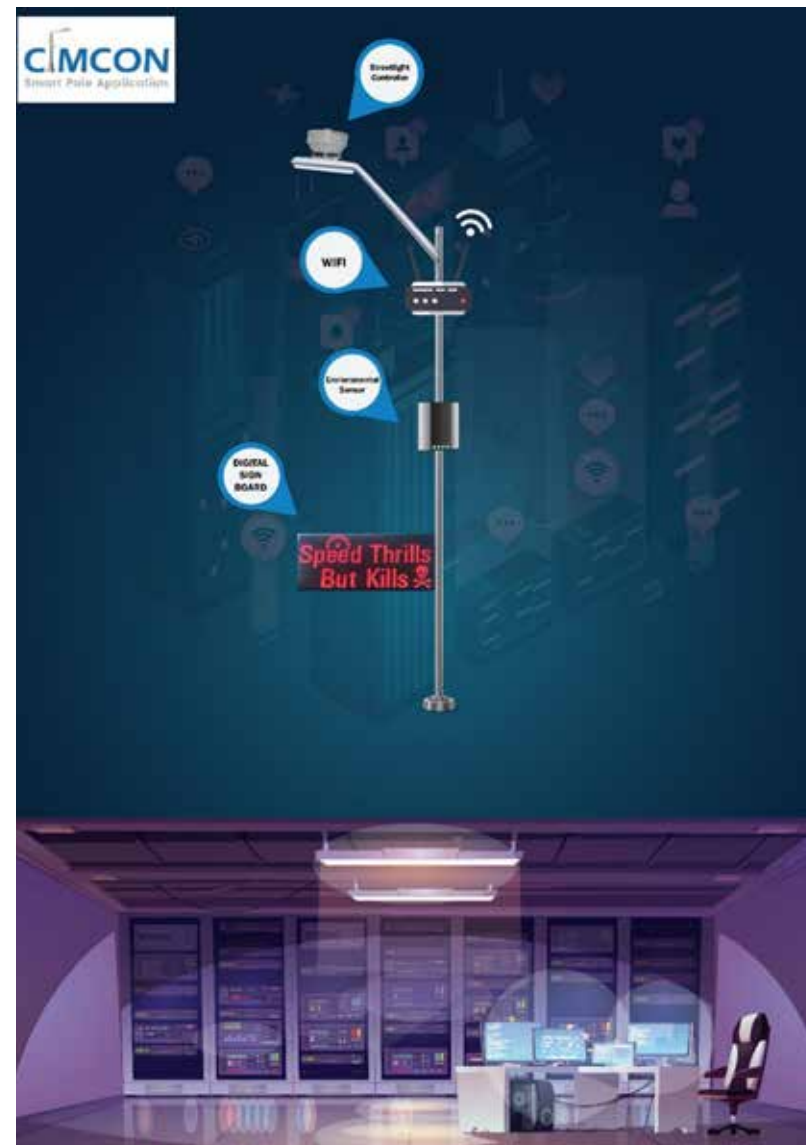
solutions across all aspects of water generation, distribution and sewage.

CIMCON Smart City Solutions

Our Smart City solutions leverage digital intelligence to solve public problems and improve liveability using big data analytics and context-aware computing for advancing sustainability. Cloud-based IoT applications receive, analyse and manage data in real-time to help municipalities, enterprises and citizens make better decisions to improve the quality of life.

CIMCON Smart City solutions make cities smarter by transforming an existing street lighting infrastructure into a Smart Pole infrastructure. New plug and play sensors can be added without needing any customisation and future upgrades.

With our edge device, a city can connect a number of devices based on the needs of the city, like streetlight controllers, air quality sensors, cameras, public announcement systems, and emergency call buttons, and predict



the changes in the city based on the data received from these devices. This, in turn, can improve the quality of light, traffic flow, reduce power consumption and improve the safety of its citizens.

CIMCON's Smart City Applications can showcase all the data on a single dashboard, thereby easing device maintenance and saving money and time.

Our Edge Computing solution offers a centralised system with asset management and life cycle management capabilities.

CIMCON Smart City solutions offer the analytics through a single

console. Our comprehensive suite of Smart City solutions is controller and network agnostic. Cities can become smarter, more sustainable and more resilient by utilising verified and secure data with edge processing and reducing the data cost by 50%.

Our smart city solutions are powered by a modern networking infrastructure platform and do not require programming; they can quickly configure monitoring and control city infrastructure based on a city's operating philosophy.

Let's connect to create a smart, safe and sustainable future.

"CIMCON IS ON A MISSION TO CREATE SMARTER, SAFER AND SUSTAINABLE PLANET BY DEVELOPING STATE-OF-THE-ART, OPEN, SCALABLE AUTOMATION SOLUTIONS, USING SOFTWARE-ENABLED TOOLS AND APPLICATIONS THAT PROVIDE THE LOWEST "LIFECYCLE COST OF OWNERSHIP" FOR OUR CLIENTS."

SURAJ GUPTA, DIRECTOR, CIMCON SOFTWARE (INDIA) PVT. LTD.

MUT SOLUTIONS FOR A WASTE MANAGEMENT ECOSYSTEM

INDUSTRY SPOTLIGHT

MUT, established in 1932 in Stockerau, Austria, is a leading waste management equipment manufacturing company in Austria. Today, it's an international company present in about 36 countries and continues to expand rapidly. About 60% of the revenues generated by MUT are from the international market.

MUT offers in-house planning, engineering, manufacturing, sales and start-up of machinery and plants in the following sectors:

1. Conveying Technology
2. Municipal Vehicles
3. Water and Waste Water Technology
4. Environmental Technology
5. Education & Training – working with Universities to educate students in various verticals of the business.

Due to our transsectoral product range, in-depth acquired knowledge and experience of more than 85 years, we are the only company, and a pioneer, in Austria providing complete solution and competency in terms of recycling economy – The Green City.

From collecting waste right from the doorstep and conveying, sorting, treating and utilising it to treating water and wastewater, we help augment the great concept of the green city, thereby increasing the living standards of a city.

We offer end-to-end solutions in designing, engineering, production, delivery, erection and commissioning of plant and machinery in all our verticals.

India Market Entry-Technologies for Tomorrow

MUT is entering the Indian market with its Compact Sewage Treatment Plant called the Sewacont. The biggest advantage of Sewacont is that the footprint required for its installation is very less. The maximum volume it can treat is 200,000 Lts per pay, and the volume that is to be treated and the automation levels of the



Sewacont can be customised according to each client's requirement. The Sewacont is being manufactured in India in a state of art factory equipped with Austrian technology.

MUT will enter the Indian market with highly efficient municipal vehicles, like waste collection trucks and road sweepers. The technology allows for very high compression of the solid waste, therefore, allowing higher volumes of municipal waste to be transported per trip to landfill/sorting plants.

MUT, over a period of time, aims to expand its portfolio to include complete conveying systems, sorting plants, water and waste water treatment plants, special vehicles and systems customised to the needs of our customers. The entire package of design, manufacture, assembly, installation and commissioning, after-sale services and maintenance would be available in India.

MUT offers comprehensive solutions to build a waste management Ecosystem under one roof.

DEVELOPING DILIGENT DIGITALISATION



Raveena Mital
Principal
Consultant,
Mazars, India

INDUSTRY SPOTLIGHT

Could we have ever imagined having to book time slots for visiting nearby stores? Or, having to forgo cash transactions, even at small kirana shops? The pandemic left us in a tight spot last year, pushing us to develop digitally-close and socially-distanced solutions in the blink of an eye.

From the rise of queue management apps, ed-tech gateways, teleconsultations and real-time e-delivery arms – the list of covid-driven innovations is endless. Even as we leave behind the era of dramatic isolation and derestrict our lives, technological advancement will continue to shape, or rather reshape, the way we live.

What to expect in 2021 and beyond? Development of diligent digitalization goals (DDGs)

DDG#1: Ensuring universal access to healthcare
Given the size of the Indian population, it has always appeared like a far-fetched dream. However, with the use of the right technological

accelerators, it can very well be made possible. By leveraging internet-of-things (IoT) and artificial intelligence (AI) with intricately-designed wearable devices, doctors can smartly manage and take care of their patients by monitoring their real-time health data, regardless of their locations.

Outcome: Everyone can receive medical attention, while only those needing hospitalisation will need to be admitted.

DDG#2: Imparting limitless education

As teaching went online in the wake of the outbreak, it taught us a big lesson: with the right set of teachers, supportive parents, authentic framework and friendly Web 2.0 technologies, even the K12 curriculum can go digital. A vast array of cognitive tools is cropping up that can allow teachers to gauge a child's focus in class and facilitate the process of creating an appropriate atmosphere and pedagogy.

Outcome: The quality of teaching can be standardised, which is even more critical with the onset of our new education policy. The only pressing issue is accessibility. Currently, only 24% of Indian homes have access to the internet. Digitisation needs to become an essential household feature.

DDG#3: Working without borders

Intertwining personal and professional lives together was not easy; however, it gave us a fresh perspective towards our own potential and that of the technology we can employ. Cloud computing has become particularly popular in this regard, which allows enterprises of all kinds to migrate their information and processes on a secured platform online and create a fully flexible work environment.

Outcome: Professionals have unlocked new ways of working online and offline, which are helping them garner new job opportunities devoid of physical barriers. Organisations, on the other hand, are getting the chance to tap into talent across the world and work without borders.

DDG#4: Shopping life omnichannel

The concept of shopping radically changed during the lockdown, as we saw the emergence of a new aspect of transacting at home. The development of 24/7 chatbots, AI-powered processes and visual search options are changing the experience of online shopping and making it more customer-oriented. The linkup with a variety of e-payment gateways has made cashless transactions a norm. With



this, a shift toward blockchain can further revamp e-store security, improve supply chain management and make e-commerce a more transparent marketplace. Given their decentralised and anonymous nature, cryptocurrencies emerge as user-friendly and safe payment mechanisms, while distributed ledger technology (DLT) can offer enhanced security for online database platforms.

Outcome: Developments here can churn out a major revolution in the way we 'shop and drop.'

There is no stopping here, as the list of diligent digitalisation avenues (and DDGs) extends to each and every aspect of our lives. The only issue, or should we say challenge, is resistance. We need to embrace the new normal and become attuned to the new 'disruptors and accelerators.'

This process of change was never meant to be simple. However, by collaborating and cooperating with a diverse range of sector experts and pitching in new ideas for further development, we can make digitalisation truly diligent both in form and spirit.

DIVE DEEP INTO THE BEST ASO TOOLS



Olivier Verdin
CEO &
Co-founder,
AppTweak

INDUSTRY SPOTLIGHT

Launched in 2014, AppTweak empowers mobile leaders to grow their apps and games with actionable insights using a simple interface. It also provides solutions for every step of an app's lifecycle, including ASO Intelligence, Ad Intelligence, App Intelligence and Market Intelligence. AppTweak is one of the leading ASO tools driven by data science.

Committed to building the most accurate, transparent and easy-to-use ASO tool, AppTweak is a trusted partner of 1500+ mobile leaders worldwide, including Farfetch, EA Sports, Khan Academy, Games24x7 and PayPal.

Despite the global pandemic, AppTweak opened its first office in Bengaluru in early 2020. It took this challenging time as an opportunity to build its footprint in India by developing key partnerships and collaborations with industry leaders, like Adjust, Clevertap, and Inc42, amongst others.

While market opportunities for app publishers and mobile marketers are huge, the lack of specialisation in App Store Optimization (ASO) represents the main roadblock for app growth in India. Also, high dependency on digital marketing agencies, with little experience in ASO, has misled the Search Engine Optimization (SEO) approach towards mobile app marketing. With these challenges cropping up, AppTweak

aims to bridge the gap between ASO knowledge and data availability from app stores.

'Today, India is the fastest-growing mobile market. With the opening of our office in Bengaluru, we aim to offer tailor-made user experiences in the Indian market and strong local support to our customers,' says Olivier Verdin, CEO and Co-founder, AppTweak

Recognised by mobile leaders for its accurate data and rapid innovations, AppTweak released 30+ new features, in the year 2020 alone, to aid app publishers and mobile marketers in growing their apps in app stores, including:

- Smart Insights & Alerts
- Overall Keyword Performance Report
- Metadata Update Frequency
- Competitor A/B Test Spy
- ASO Impact

To provide insights into an app's full in-store acquisition funnel, AppTweak also launched new Ad Intelligence features, which support Apple Search Ads and Google App Campaigns. These features are essential in building effective organic and paid strategies. Combined with a pricing model suitable for beginner and advanced ASO, AppTweak is one of the most accessible app analytics tools in the market.

At Mobile Expo India, AppTweak will feature a revamp of the Analytics Section. With a new structure and an intuitive interface, customers can now measure the impact of their ASO efforts in one place by comparing apps' category rankings, downloads and revenues with ASO events, such as metadata updates, app store features and algorithm updates.

Awarded the 'best ASO tool' by the App Growth Awards community and recognised as the 9th fastest-growing technology company in Deloitte Belgium's Fast 50 competition, AppTweak supports customers from all corners of the world, with offices in Brussels, San Francisco, Tokyo and Bengaluru.

ACCELERATE NATION BUILDING AT INDIA'S LARGEST TECH & INFRA EXPO

28th
**Convergence
India Expo**

**6th Smart Cities
INDIA EXPO**

24-26 MARCH 2021 | PRAGATI MAIDAN, NEW DELHI

NETWORK AND INTERACT WITH INDUSTRY LEADERS LIVE AND IN PERSON

**500
PARTICIPANTS**

**250
SPEAKERS**

**SMART CITIES
INDIA AWARDS**

**5G & BEYOND
LEADERSHIP SUMMIT**

**STARTUP PITCH
COMPETITION**

**CITY LEADER'S
CONCLAVE**

PARTNERS



INNOVATIVE TECHNOLOGIES TO MONETISE TELECOM NETWORKS

INDUSTRY SPOTLIGHT

Panamax Inc., the technology unit of Bankai Group was established in the year 2001. The company offers fintech solutions, telecommunication technologies and consulting services for enterprises, banks, financial institutions, telecom operators, carriers, MNOs, and MVNOs. Our comprehensive and industry-leading Digital Financial Solutions simplify online transactions, and drives financial inclusion for financial institutions, banks, telecom operators, carriers, service providers, and more. We also offer Revenue Management, Network Switching Solutions, and Managed, and System Integration Services with unmatched security, flexible configurability, and cloud-enabled multitenant system.

Panamax helps enterprises automate their processes and complex business problems with Professional IT services, Business Consultation, and Implementation Services. We work with local governments to create a sophisticated digital governance module digitizing the education, health, manufacturing, agriculture, oil & gas, retail, and BFSI industries apart from providing smart infrastructural solutions to improve the lives of citizens through data and technology. Our solutions and services encompass intelligent technologies like Blockchain and IoT to bring together the best of digitization as well as personalization. Panamax enables strategy, technology, and innovative solutions to create state-of-the-art, Smart City Solutions. We provide a modern traffic management system through IoT devices capturing real-time data, processing it, deriving data-driven patterns, and subsequently delivering effective and equitable urban mobility solutions including intelligent traffic management solution, traffic congestion service, micro-mobility management, etc.

“Technology is at the heart of the Smart Cities. Panamax consults the governments to adopt the advanced technologies by developing the right strategy and implementation for smart digitization of cities.”, says Dhaval Joshi, Vice President, Strategy and Consulting, Panamax Inc.



Elaborating further, he adds, “A tandem of multiple layers is needed to make a city smart and innovative. First is a layer of technology that would typically comprise of all the smart devices and sensors that have reached peak acceptance and high-speed telecommunications network. The second layer consists of particular applications that help to interpret raw data into insights and alerts with app developers and technology providers. The third layer is a consumption layer which the public, companies, and cities drive. Adopting here is the key, and the concept fails if agencies cannot manage public behavior changes.”

Panamax helps the governments drive economic growth and improve the quality of life of people by enabling local area development and harnessing technology leading to smart outcomes.

Integrated Command and Control Centre – Acts as a system integrator to implement, integrate, and design world-class solutions.

Smart Education – Helps education institutes to adopt advanced learning methods such as virtual learning, smart classroom, integrated education management system, etc.

Smart Utilities – Consultations for developing the right strategy and implementing the appropriate

technology and platform for smart digitization.

Smart Healthcare – Enables macro-level scalable data exchange using advanced technologies like NLP, and machine learning.

Smart Building – Provides flexibility in designing and implementing smart building solutions that help in enabling greater energy efficiency and security.

Smart Transport and Mobility – Provides the information about the available parking space, reduction in traffic load, and environmental impact.

Smart Farming – Advanced farming solutions with tools like sensors, connectivity, location, robotic process automation, data analytics, and cloud software systems.

Currently, several technologies like AI, Big Data, Blockchain, IoT, and Robotic Process Automation, are playing a huge role in the advancement of services across the industries. Through its fintech offerings, Panamax ensures the security of every transaction carried out on its wallet platform with the use of Blockchain technology to analyze consumer behavior, derive actionable insights, and enhance the security features.

Panamax delivers the most secured experience ever as it utilizes the Blockchain security mechanism

to eliminate all the possibilities of unauthorized access to data. Its super flexible and secured flagship digital financial solution — MobiFin Elite — that leverages the latest technologies to help businesses deliver top-notch financial services to their end customers. The ECC 256 algorithm used in MobiFin Elite ensures complete security of transactions and confidential customer data. Apart from this, Panamax comprises of a Banking Suite—a comprehensive platform designed to help banks, run their operations securely and efficiently by incorporating contemporary technology and safer banking practices.

Keeping up with the pace of transformation, Panamax is already experimenting with new technologies to evolve its offerings and deliver the best possible experience to the customers. In addition to this, the company is also in the process of incorporating a few of the novel technologies to deliver an improved personalized experience to the users.

Headed by the well-known industry veterans, Panamax is constantly achieving new feats through its innovative, futuristic, and well-tailored product line. The company is currently working on several new projects along with some fresh technical implementations for the platform.



REVOLUTIONISING INDIA’S COMMUNICATIONS SECTOR

PRODUCTS HIGHLIGHT

About your company: Mission, Goals and Vision
Mission: “Technology Serves People”
Goals: To pursue steady and sustainable growth, we are determined to be an outstanding and leading enterprise in the electronic and information industry.

Vision: With product specialisation, production scale, market differentiation and flat management, GOSPELL focuses on development and strictly adheres to high-quality standards. The brand aims to seize the opportunities created by the wave of innovation in TV technology and speed up the enterprise upgradation and transformation – from selling products to providing system

services and platform – ultimately achieving the company’s goals.

New innovations undertaken/ implemented by the company: (New products in 2021-2022)

a. Broadband Billing (CRM) Solution

- AAA and QoS Management
- AAA Feature
- Radius Protocol Stack
- Multiple Vendor (Dictionary Support)
- Customer Level Check and Reply Item
- Client Group and Group Level Reply Item Support
- QoS Supported (Enforced by AAA; BNG needs to apply the same)
- Local and Remote

Authentication (DB and LDAP) Support

- Audit of all Authentication Requests and Responses
- AAA CDR Management
- AAA Live Session Management
- Scalable Architecture
- Carrier-grade TPS
- Subscriber Management and Billing
- Multiple Service Support at Customer Level
- Advance, Non-Recurring and Recurring Charge Support
- Various Billing Cycle on Charge Level
- Flat and Tier (up to 3) level Tax
- Tax at Charge and Plan Level
- Discount based on Time Duration; Plan with % and Flat Support.
- Plan with Charges, Service, Quota and Basic Detail
- Dunning based on Customer/

Plan Type.

- Payment Upload and Approval
- Trial Invoice Support
- Invoice Generation and Email (PDF)
- Revert/Write off Invoice
- Invoice Template Support
- Partner Management
- Android and iOS apps

b. DVB-C Supervision Controller (Multi-Channel Receiver)

Main Features:

- Fully compliant with DVB-C digital TV reception standards
- Supports MPEG-2, H.264 and so on. The detection display of various video coding formats
- Supports GOSPELL CAS
- Supports multi-format HD or SD programmes; one screen up to 32 programs.
- Supports the detection of video black field static frames, video/



- audio/data lost, high/low volume and OSD alarm display
- Supports multiple resolution display mode
- Supports the error log save and query
- Supports TS stream analysis
- Supports web-based network management
- Supports specified programmes' audio playback
- Supports remote network video monitoring
- Supports fast customised templates manually, with any screen display proportion
- Supports USB 2.0 and OTA software upgrade

c. GSL-6401 Dual-Band Gigabit Wi-Fi 6 Router

d. Smart Home Cloud Monitor Platform:

Smart Home Cloud Monitor Platform has been developed by GOSPELL, especially to connect different terminal devices to the IOT. The purpose is to connect different kinds of terminal devices, such as IP cameras, VR, sensors and other smart home devices, to the cloud so as to provide users with one-stop cloud services.

- User/device management
- P2P video preview
- Real-time video forwarding
- Cloud/local video storage
- Alarm/abnormal message push
- Alarm video viewing
- Remote Device Upgrade (OTA)
- Cloud voice control equipment
- Video sharing with friends
- Communication data encryption
- Background server operation and maintenance management

- Supports domestic/foreign users
- Supports Android and IOS mobile APPs
- Supports APP SDK docking
- Supports APP customisation requirements

e. Binocular face recognition temperature measurement terminal

Main Features:

- Real-time alarm, user-defined temperature detection threshold, direct data display, voice warning for abnormal body temperature and no traffic.
- Automatic recognition of whether or not a person is wearing a mask, voice reminders to wear masks, prohibiting traffic, and strengthening awareness for prevention
- Face recognition, face recognition comparison, fast identification of abnormal body temperature, and improved efficiency of pre-warning and processing during the event and traceability after the event.
- Focus on control, the standard configuration of the 10,000-level face database for face control, linkage with public security population information management platform, and quick connection with third-party platforms.
- Control personnel identity information and activity trajectory and carry out key management of personnel in affected areas.
- Safe and stable, using high-performance, high-stability embedded Linux system, and



built-in high-performance AI processor.

- Quick deployment, support for gates and wall-mounted installation, optional WIFI / 4G network communication method, and rapid deployment; covers up various environmental installation scenarios, reduces the risk of cross-infection and saves manpower and material resources.
- Global management, full coverage of multiple scenarios in communities, parks, and port stations, a visual data platform, and management of regional data at a glance, including record backtracking and data analysis.
- The use of environment, an external temperature measurement module – the temperature measurement is not affected by the fuselage work – accurate temperature measurement, the fuselage IP67 protection level (except the temperature measurement module part), and a very wide temperature range of -30°C – 70°C.

f. Power Bank

Main Features:

- Different types of charging station, desktop, vertical, and mini to big, with power bank ports from 3 to 48.
- ABS flame retardant anti-leakage to ensure safety.
- Passed many strict safety tests; precise and smart controller, with thermal protection, voltage protection, over-current protection, etc., monitoring and preventing exception.
- Mobile power solution and optimised charging performance to escape false charge.
- Magnetic attraction storage for cable, which is safe, stable and convenient.
- Quick and easy deployment and fast business development.
- Lightweight applications for both the end-user and agency, simple steps and easy usage.
- Helps the end-user make payments easily, with Apple Pay, Google Pay, PayTM, WeChat Pay and AliPay
- Map view for both the agency and end-user applications to monitor/find charging stations and power banks.
- Makes it easy for the agency to monitor and manage charging stations, power banks, and view intuitive real-time income and other operation data.
- Enables the agency to monitor online and offline charging stations and online and offline power banks.
- Allows the agency to view the location of charging stations, numbers and status of charging stations and power banks, and usage of power banks.
- Self-defined charging fees, according to the place, flow of people, charging-station density, frequency of usage, usage period, etc.
- Capable of defining profit sharing between an agency and the owner of a charging station.
- Passed EU RoHS certification.
- Small battery size, lightweight, high power capacity, compatible with type-c, mi-cro-USB, iPhone and Android.

g. Android STB and Hybrid STB

- 2X8 AOSP/ ATV IP STB, Hybrid (DVB C + IP (AOSP/ ATV) STB
- OTT Headend
- OTT SW + Content (End to End solution)

HUAPTEC: IMPROVE YOUR MOBILE SIGNAL

PRODUCTS HIGHLIGHTS

- About your company: mission, goals and vision
 - WISEGO is a brand name of Huaptec Group, which is a decade-old multinational Corporation
 - Manufacturing Telcom Digital Repeaters, Digital Signage, ANPR-Powered Intel-ligent Parking Systems and Gate Entrance Solutions
 - Vision: To provide sustainable, environmental-friendly digital advertising, parking and gate entrance Solutions.
 - Mission: To create a smart world through automation and embedded computing products and solutions that empower the development of smarter occupations and livelihoods.
- Innovations undertaken/ implemented by the company
 - Ticketless & Contactless Paid Parking
 - Contactless ENTRY & EXIT Gate Solutions
 - Standalone ANPR camera



Solution

- Embracing new technologies/concepts in the aftermath of the pandemic

All Solutions from WISEGO adopts the CONTACTLESS approach, which protects the public from communicable diseases.
- Soft launch of a new product/service
 - Contactless visitor solutions for corporates with automatic temperature checking
 - App-based pre-registrations to minimize congestion at gates
- Industry challenges & roadblocks
 - Under-capacity usage of paid parking spaces
 - Slow-down in real estate development
 - Lag in smart city surveillance infrastructure
- Policy advocacy for your sector
- What's being showcased at the expo
 - Contactless Parking Solution
 - Automatic Numberplate Camera
- Special focus on any launches or any special products/solutions being displayed at the expo
 - Contactless Parking Solution
- How can your solutions/technologies/ ideologies be leveraged for a better tomorrow?
 - Our contactless and paperless technology

will minimize the usage of precious natural resources.

10. CXO/Chairman/Director quote

The local government shall create awareness for all citizens regarding why their city was selected for the Smart City project, what is the present scenario and what are changes and facilities for citizens. It would be more appropriate if local officials prepare a schedule of each activity with the start and completion timelines and make them public. Citizens shall actively participate in the maintenance of the facilities that have

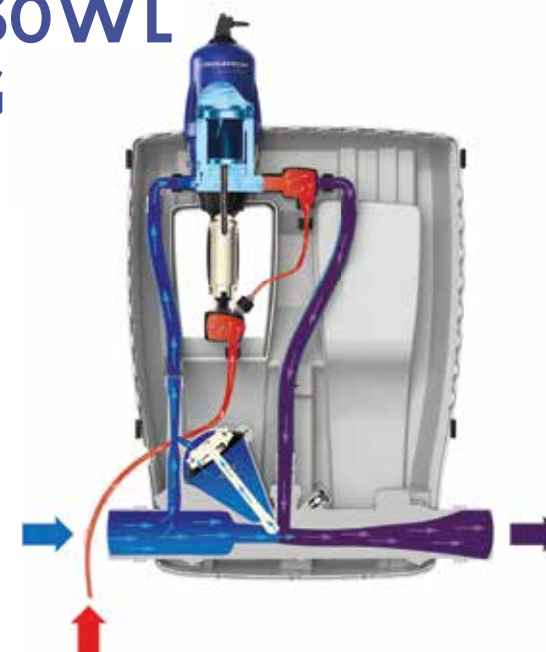
been arranged for them. If citizens do not get this feeling, then the project needs recurring funds. Citizens' involvement and participation in building a SMART City would be the right approach for the success of the project and the maintenance of the project thereon.



NEW DOSATRON HIGH FLOW D30WL METERING PUMP FOR DRINKING WATER OR DISINFECTION

PRODUCTS HIGHLIGHTS

Based on the Dosatron technology, which has been designing dosing systems that work without electricity for 40 years, are used in many fields, including those of drinking water and disinfection. The new line of D30 WATER LINE D30 WL dosing pumps offers a solution for high-flow dosing without an electrical connection. They are specially designed to dose water with alkaline or acidic additives. The additives are injected continuously over a dosage range strictly proportional to the volume of water passing through the pump. This adjustment ranges from 0.003% to 0.03%% for the D30WL30000 and from 0.02 to 0.2% for the D30WL5000 and works for flow rates ranging from 8000l/h to 30000l/h, with respective injection ranges of 0.24l/h – 9l/h and 1.6 l/h – 60l/h.



Easy to install, use and maintain, the new D30 WATER LINE HIGH flow line is characterised by a polypropylene pump body, Aflas gaskets suitable for alkaline products or Viton suitable for Acid products.

Accuracy and repeatability of the functionality of the dosage are well assured. It is self-priming, which simplifies the start-up phases, and its maintenance does not require tools.

INNOVATING FINTECH: INVOID SHOWS KYC IS NOT A BOTTLENECK ANY MORE



CXO SPEAKS

About Invoid

Identity fraud is the fastest and largest growing crime in the world. To protect the financial ecosystem against crimes, businesses need to develop trust amongst their users. Invoid enables companies to automate their KYC and identity-verification workflows. Currently, it processes more than 5 million KYCs per month and works with over 35 companies in India, including some of the leading banks, FinTechs, investment platforms and shared-economy organizations for streamlining individual onboarding and ID verification operations.

Company Vision

Invoid foresaw the need for remote identity verification ahead in time in 2018. Founded by a team with prior experience in banking, finance and building scalable AI products, Invoid aims to be the gold standard in terms of seamless user onboarding and verification. Team Invoid aims to create a trust-based ecosystem where identity is the key to access. The goal of the company is to provide genuine users with easy access to services by making them as frictionless as possible and stopping bad actors from performing fraudulent activities.

Company Values/Culture

Trust plays a significant role in every industry segment. Invoid strongly focuses on establishing reliable relationships with employees, clients and stakeholders. The team continues to build a developer-friendly product, superior customer experience and provide a secure business environment. People who are passionate about what they do possess a high energy level, along with a positive attitude, and this is what Invoid promotes as a team. The company culture encourages individuals willing to take charge and initiative to achieve client goals.

New innovations undertaken/implemented by the company

Invoid offers 2 core product experiences: Assistive KYC and Dynamic Onboarding

- **Assistive KYC:** While the user is completing KYC, real-time feedback is provided to ensure that documents have been collected in a satisfactory manner, correct information has been captured and the selfie/video of the user is of proper quality to ensure further verification and processing.

- **Dynamic Onboarding:** User demographics including age and gender are very important factors in ensuring seamless onboarding, and therefore, Invoid's modular system changes the interface type depending on the user being onboarded. For instance, the language of instruction, font size, instruction screen text and even the order of steps in the process can be changed.

Challenge and Solution

Acquiring new users is tough, and watching them drop because of a poorly designed and executed KYC process is frustrating for companies. Also, each industry has its own set of challenges, regulations to follow and unique user base, which makes it very complicated to implement KYC. Most users drop because the workflow is not assistive, feedback is not incorporated in the system or the process is highly impersonal.

Invoid provides building blocks for companies to make their own KYC workflows. The low code application allows businesses to choose documents, design interface, biometric vs no biometric, selfie checks, bank statement checks and so on. This gives the opportunity to decide the order and create the verification link in seconds. Real-time reporting and analytics are provided to make sure that only authentic users are getting on board.

How can your solutions be leveraged for a better tomorrow?

Today, India is at the peak of a great shift in the sense that the FinTech space is evolving and consumed by millions of citizens. All regulators are extremely proactive in leading digital initiatives, but there is still scope for some experimentation.

The vision of the company is to create a world where more than 95% of customers are onboarded in an extremely seamless way, using digital services, and the remaining 3 – 4% of fraudsters are stopped. Invoid's anti-fraud mechanism helps detect these bad actors from performing fraudulent activities.

Financial literacy plays an important role here, as it can help individuals in becoming independent and self-sufficient. It further mitigates the danger of facing a fraud-like situation. For a better tomorrow, the company aims to provide services that are accessible to all without facing any hurdles and obstacles by providing remote services and assisting businesses in creating a stronger ecosystem.

What's being showcased at the expo

Invoid's award-winning infrastructure helps in offering AI-based innovation to customers through a completely automated, as well as manually assisted, method. One such example is Video KYC, which helps Banks and FinTechs to lend and open accounts remotely. When the whole world went into lockdown, India was still extending financial services with a remotely permissible account opening method as suggested by RBI, SEBI and IRDAI. And Invoid contributed to the economy by facilitating different financial products through technology.

Invoid's end to end solutions including CKYC, Video KYC, Digital KYC, eKYC, Government Checks (PAN, Aadhaar, DL, Voter etc), Passive Liveness Verification, Bank Account Verification and many more will be showcased at the FinTech India Expo from 24th to 26th March, 2021, at Pragati Maidan, New Delhi.

THE CONVERGENCE



EDITORIAL

State Bank of India is the largest commercial bank in terms of assets, deposits, branches, customers, and employees. It is also the largest mortgage lender in the country. The home loan portfolio of the bank has crossed the milestone of Rs. 5 lakh crores. As on December 31, 2020, the bank has a deposit base of over Rs. 35 lakh crore and advances of more than Rs. 26 lakh crores with CASA ratio of about 45%. SBI commands over 34% market share in home loans and around 33% in the auto loans segment. The Bank has largest network of more than 22,000 branches in India with an ATM / CDM network of nearly 58,000 and total BC outlets of over 71,000. The number of customers using internet banking and mobile banking stand at 85 million and 19 million respectively.

A progressing India is digitally advanced. The country is witnessing an accelerated pace of innovation and technology adoption. As the digital economy is thriving, SBI is also moving forward with its technological developments and growing its presence in multi-channel platforms keeping itself ahead in the curve. We are committed towards transforming ourselves into a digitalized organization, supported by technology enabled backend operations.

SBI intends to be a partner of a

progressing India. As the banker to every Indian, we will continue to research and expand new ways to stay at the forefront of digital banking. With the evolution of time, we recognize the role played by technology to develop the society and make it more advanced. We are continuously investing in building the bank of the future. The digital payments landscape in India is evolving at an accelerated rate and we are playing an active role in transforming India through the digitalization of the economy.

SBI has already garnered major market share across multiple digital channels. Our flagship all-encompassing digital platform, YONO, is testimony to our prowess in delivering cutting edge digital services to millions of customers. With the current changing trends in Banking, most of customers are opting for Digital Banking rather than walk-in banking or branch banking platforms. The current pandemic has made it much more imperative to switch to mobile app banking methods. A transformational digital app that has made its way into the market is SBI YONO. The integrated digital and lifestyle platform by SBI - YONO has crossed 74 million downloads mark. YONO which has over 34.5 million registered users, witnesses 9 million logins per day. Accelerating the digital agenda, SBI has opened over 1.5 million accounts through YONO in the quarter ended December 2020

with nearly 91% of YONO eligible savings bank customers migrated on YONO. In terms of digital lending, bank disbursed pre-approved personal loan (PAPL) worth Rs. 5300 crores via YONO in the same quarter. YONO is also a global name having tasted its success in international markets as well.

Being a solution for all problems, YONO offers a variety of features:

- **Instant Account Opening** - Open a digital saving account in less than 5 minutes without leaving your home and get personalized platinum debit card, concession on Bank service charges and go paperless.
- **India's largest shopping marketplace** - Exclusive discounts and offers for SBI customers across many e-commerce merchants.
- **Banking simplified** - Easy to understand interface, simple and intuitive navigation.
- **Quick Pay** - Intelligent fund transfer with UPI enabled payments.
- **One view** - Link and view all State Bank group relationships (Bank and JVs) in one app.
- **Smart spending** - Intelligent spending analysis using smart audio-tagging and categorization of the transaction.
- **Your friend in need** - Pre-approved personal loan on the go up to Rs.1 lakh without any documentation in 2 minutes.
- **YONO Cash** is a unique feature available in the YONO platform (both on app as well as online

portal). It enables an account holder to withdraw money instantly from any of the SBI ATMs and most of SBI's Merchant POS terminals and Customer Service Points (CSP) within India without using any physical card or filling up any physical withdrawal slip.

Awards and Accolades to SBI

- Finnoviti Technology Award
- IBA Banking Technology Award
- The Best Transaction Bank in India by the Asian Banker
- The Best Payment Bank in India by the Asian Banker
- Best Performing Bank by Ministry of Rural Development for RSETI
- The Best Cash Management House in India by Corporate Treasurer
- Brandon Hall Group Excellence in Technology Awards for e RBC & e Gyanshala
- SBI Bhavan awarded the Performance Challenge Award by Indian Green Building Council
- 5 Awards at the EASE 2.0 Awards (1st in Governance & HR and Customer Responsive-ness)
- SBI Chairman is one of the Ten best Indian CEOs in the World (CEOWORLD.BIZ)
- BTVI National Award for Marketing Excellence for Best Use of Social Media in Marketing, CSR program

On social media platforms, SBI has the highest number of followers on Facebook and Twitter amongst all banks worldwide.



JHARKHAND- A LAND OF BOUNDLESS OPPORTUNITIES

EDITORIAL

Jharkhand is endowed with a rich cultural heritage, and bestowed liberally with bounties of nature. The state is a kaleidoscope of past splendors and present glory. Jharkhand is one of the richest mineral zones in the world, and boasts of 40% and 29% of India's mineral and coal reserves, respectively. Due to its large mineral reserves, mining and mineral extraction are the major industries in the state.

The vision of Government of Jharkhand is advancement in skill development, which aims at helping the youth of Jharkhand in their skill development initiatives, and to create a complete labour market of skilled resources in the state. As one of the emerging states of India, it has marked significant developments over the years,

and the endeavour is to increase employability for the youth of Jharkhand. The State Government has initiated various schemes to raise employment by way of investing in skill development, providing social security and promoting self-employment. As a result, the development of skilled manpower is a thrust area that the state has been working on, and the results so far have been fruitful.

Agriculture and allied sectors form an important component of Jharkhand's economy as a large proportion of population depends on it for their livelihood, and is the largest contributor in the rural economy. The state holds immense potential in areas like horticulture, fishery and animal husbandry. Rice is the major food crop of the state, covering 80% of the cropped area. The state's soil and climatic conditions support cultivation of ornamental plants, mushrooms, spices and tea. Owing

to the cultivable land resources of the state, Jharkhand offers high growth potential for horticulture and forest-based products.

Although, agriculture forms an important component of Jharkhand's economy, services and industrial sectors of the state have also made significant developments over the years. As forests and woodlands occupy a major chunk of the area under the state, it provides ample opportunities for the development of minor forest produce-based industries and herbal based industries.

The state has provided a large number of incentives to promote industries, especially MSMEs, and has been progressing fast on adopting best practices for strengthening an investor-friendly environment to boost investments, employment generation and welfare of the people. Knowledge and skill development are the key driving forces of economic growth and social development for any state. A skilled and high productivity manpower base is a critical enabler in the growth of agriculture, manufacturing, and services. The Government of



Jharkhand is committed to facilitate overall growth of the state through skilling of its youth, promoting entrepreneurship and private investments for encouraging skill development in several sectors of the economy.

Jharkhand, a land of boundless opportunities which offers distinct advantage for investments and industrial development. The aim of the Jharkhand Industrial and

Investment Promotion Policy 2016 is to develop the state into one of the most preferred destinations for industrial investments. Several incentives have been offered by the state to spur the growth of industrial sector and promote entrepreneurship ecosystem in the state. It has immense potential for industrialization as the state is rich in vast mineral deposits. Measures like Jharkhand Investment Promotion Board, single window clearance, online payments, online verification, third party certifications, self-certification, time bound approvals, availability of information online, standard operating procedures for approvals, deemed approvals, etc. are being adopted by various departments of the Government.

Jharkhand Export Policy 2015 that had been formulated to facilitate and provide incentives for boosting exports from the state. The major export items from the state are iron and steel, auto components, mica, motor vehicles/cars, among others. The volume of exports from the state stands more than USD 1000 million during the recent years. Around 48% share in State's exports is contributed by iron and steel sector. The volume of exports from the state is estimated to reach about USD 2000 million by 2021-2022 on the basis of speedy reforms being taken to spur industrial growth and promotion of export oriented units of the state in the coming times.

Building a high-class infrastructure is crucial for the effective functioning of the industrial sector, especially for manufacturing competitiveness. The state government is making serious efforts towards the development of infrastructure to promote trade, commerce and industry in the state. The state boasts of a good network of road, rail and civil aviation. The state has made significant strides in improving the quality of its social infrastructure during the last few years. Jharkhand is committed to providing education to all, and the concerted efforts of the government have resulted in the state to increase its literacy rate quite impressively over the past few years.

Going ahead, faster pace of skill development, setting up of more number of MSMEs, strengthening infrastructure, building strong entrepreneurship eco-system and sustainable agriculture sector could go a long way in pushing the growth of the state into higher trajectory.

IREDA: 'ENERGY FOR EVER'



Hon'ble Prime Minister, Shri Narendra Modi dedicated the 750 MW Rewa Ultra Mega Solar Power Project to the Nation on 10th July 2020. It is one of the largest single-site solar power plant financed by IREDA.

EDITORIAL

A pioneering, participant-friendly and competitive institution for financing and promoting self-sustaining investment in energy generation from Renewable Sources, Energy Efficiency and Environmental Technologies for sustainable development; IREDA is a Mini Ratna (Category - I) Government of India Enterprise under the administrative control of Ministry of New and Renewable Energy (MNRE). Established in 1987, it is a Public Limited Government Company established as a Non-Banking Financial Institution. IREDA has been maintaining its leadership position in Renewable Energy space for past 34 years and developing several innovative financial schemes/solutions for meeting the market requirement from time to time. IREDA has an excellent track record of financing more than 2800 renewable energy projects in the country with cumulative loan sanctions of more than Rs.92, 100 Crores (loans disbursed more than Rs. 59,231 cr), supporting green power capacity addition of more than 16,365 MW as on 18.03.2021.

Renewable Energy (RE) has the potential to transform the trillion-dollar energy industry across the world. Indian renewable energy sector is the fifth most attractive renewable energy market in the world. India is eyeing 450 GW from

renewables, targeting at least 40 % electric power from clean energy sources by 2030. Investing in RE would enable India to develop globally competitive industries & technologies that can provide new opportunities for growth & leadership by corporate India. With a commitment to create a cleaner and a better society, IREDA is quite conscious of the responsibility to improve the quality of life on this planet. Today, India is among the top-five clean energy producers globally, and with citizens' support, the company will try to achieve a higher ranking in the global scenario.

Renewable Energy sector in India has emerged as a significant player in the grid-connected power generation capacity. It supports the agenda of sustainable growth, while emerging as a dominant part of the solution to meet the nation's energy needs and an essential player for energy access. It is worth to note that the all India installed power generation capacity, as on February 2021 is more than 379 GW, out of which, renewables accounts for about 93 GW (more than 24%). The Wind & Solar constitutes about 39 GW each. Globally India is ranked 3rd in terms of installed RE capacity. As a matter of fact, India is now self-sufficient in manufacturing technologies in the field of bioenergy, small hydro & wind energy. Government is taking initiatives to ensure that we become self-sufficient in solar energy manufacturing in line with the Hon'ble Prime Minister's vision for Atma Nirbhar Bharat. The initiatives have created big job



opportunity in the manufacturing sector in addition to technological self-reliance. We have seen reduction in the cost of solar from around `17 per unit during 2010 to `1.99 per unit now, during the 10 years' period, there is reduction of more than 90% in solar tariffs mainly because of scale of solar installations in solar parks, discovery of tariffs through real time reverse auctions, technological advancements along with reduction in equipment costs over the years, conducive policies, and ever evolving regulatory setup in accordance with the needs of the sector.

Modern renewable energy is not only used in electricity generation; the potential is also great for heating, cooling and transport. India needs a holistic strategy for renewable energy to tap into this potential, and to make sure that market development can be beneficial for sustainable development more

generally, including local air and water quality. Potential also exists to scale up the use of bioenergy, including Energy-from-Waste (EfW), which requires robust sustainability governance.

The Government of India has taken various initiatives to boost the growth of RE sector. The Hon'ble Prime Minister has been at the forefront, advocating the development of RE sector and promoting the cause of green energy towards maintaining a sustainable growth. India is amongst the fastest growing economies of the world with rapid urbanization. With growing environmental concerns and India's commitment for a cleaner tomorrow, the Government of India has provided a sustained policy support as well as improved cost competitiveness for development of clean sources of energy.

Recently Covid-19 crisis has disrupted the flow of Business and



Shri Indu Shekhar Chaturvedi, Secretary, MNRE and Shri Pradip Kumar Das, CMD, IREDA signing the MoU for the year 2021-22 on 2nd November 2020



IREDA's 50 MW Solar PV Power Project at Ambalathara village, Kasaragod district, Kerala. The project was commissioned in September 2017

has also highlighted the importance of developing more resilient and sustainable energy systems that are capable of withstanding future shocks and improving the health and well-being of citizens. We have taken several initiatives during pandemic situation, such as rolling out new products to cater to market needs and to tide

over liquidity issues caused by the pandemic such as Top-up Loan, scheme for moratorium of term loan's Instalments for a period not more than six months, policies for resolution of COVID – 19 related Stress and for deferment of Interest Instalments and shifting of repayment schedule including residual tenor of term loans under COVID-19. GoI has supported the sector with several measures such as Time extension for completion of RE Projects, Relief package of more than Rs. 1,20,000 Crs, to Discoms to clear pending dues of generators, Emergency Credit Line Guarantee Scheme (ECLGS) etc. In order to further support the development in the RE sector, GoI have decided to infuse Rs.1500 Cr. in the form of Equity in IREDA in Budget 2021. The said equity infusion will enable IREDA to further enhance the lending in order to ensure further development of Renewable Energy sector. India a key country for global energy transition, as we can act as a pioneer by leapfrogging to a new paradigm of development and industrialization. Accelerating sustainable energy transitions away from carbon-based fuel sources is key in achieving climate mitigation promises and sustainable energy development objectives and India is poised well to achieve this objective.

LEVERAGING TECHNOLOGY TO UNLOCK A BETTER POST-PANDEMIC FUTURE FOR KIDS

SPEAKER HIGHLIGHT

There is much to talk about how the devastating COVID-19 outbreak ravaged businesses and livelihoods, disconnected people from their loved ones and hauled travel plans for long. Not enough discourse, however, is going on about our kids, who overnight, lost their vibrant school life and were left with no choice but to adopt distance learning – something that they otherwise would have only considered at the university level. Being suddenly estranged from school buildings, teachers and friends that they had become so accustomed to was tough on our little ones. What was not tough, however, was the switch to online learning. Just a laptop, a strong internet connection and some industry-grade concentration, and kids were learning new concepts through online classes, for which, we must be thankful to the technology. Tech has played a central role in giving us a semblance of normalcy in this highly turbulent time. Here is how we can now ensure that technology continues to bolster kids' lives and futures in the post-pandemic era.

Learning management systems for kids
Widely used for L&D processes for organisations, tech-based learning management systems can help teachers



Amit Agrawal
Founder, OckyPocky

prepare and deliver engaging lessons for kids. Such platforms also help teachers to streamline most of their work, such as grading tests, creating quizzes, taking attendance and sharing course materials with students. Advanced technologies also allow teachers to run a virtual classroom, track their students' progress or even take them on virtual field trips. With such forward-looking tools, teachers can not only make up for one-on-one teaching time but also enhance and personalise the learning experience for better outcomes.

Language learning through technology
Due to poor communication skills, 95% of the candidates get rejected at job interviews. The importance of the English language cannot be over-emphasised for anyone's career. The foremost benefit of tech-based learning is the immersive experience that such platforms can offer to kids. In the case of language learning,

which is becoming increasingly important today, new-age language learning platforms have introduced video-based tutorials. These videos are available in multiple regional languages, which make learning more engaging and interesting for kids. With a fun, playful mix of voice, video and vernacular, such platforms can help kids build their vocabulary.

One of the most important benefits of such tech-driven platforms is that they use innovations like AI to give real-time feedback to learners, who can then evaluate their shortcomings and progress. Videos also make learning interactive and fun, which is a great way to keep children motivated and engaged in the learning process.

Language learning is an effective way to build a foundation for improved intellectual and cognitive development. Language learning has a direct impact on the brain's executive functions and helps kids become even sharper. In fact, phonetics-based learning bolstered with interactivity and videos can create a rich audio-visual environment, which is more conducive to better learning outcomes than ever before. This also helps improve IQ, writing ability and verbal ability.

The new-age blended learning
As the impact of the pandemic finally starts to recede, the discussions about the reopening of schools are in full swing. While kids will be back in

their familiar school settings once again, it may not be the end of online education. The future is likely to see a blended approach to learning, as thousands of educators and parents now have the awareness to understand how technology can help their kids grasp concepts better and learn. Students will be encouraged to learn from home and build on the knowledge that they gain in school. In doing so, they will be able to learn independently and become more confident in their abilities. Moreover, it will help students break away from the stress of learning in a group and allow them the freedom to follow a pace that suits their needs. This will, in turn, help them perform better academically and also help them to stay stress-free. Blended learning will also help students from the remotest hinterlands of the country to learn about and unlock better opportunities for their future. Without spending too much on private schools, they will be able to bank on tech-based learning platforms to learn important subjects like languages, which can help them build a successful future. At the end of the day, the COVID-19 pandemic has offered us an opportunity to fully embrace technological solutions to augment the way we educate our kids. Let's make the most of this opportunity and raise a generation of smart learners, who go on to do great things.

THE STREAMING WARS HAVE ENDED IN A TRUCE: NOW'S THE TIME FOR OPERATORS TO GIVE VIEWERS THE BEST OF BOTH WORLDS



Gideon Gilboa
Executive Vice President, Product and Marketing, Kaltura

SPEAKER HIGHLIGHT

Over-the-top (OTT) TV streaming has been a wake-up call for pay-TV operators everywhere. They discovered they were no longer the only TV game in town. The last few years have been a time of entertainment disaggregation, with every content owner aspiring to be an app. Brands, media companies and broadcasters, all of them wanted direct connections with users, uncluttered by cable, satellite or telco TV providers. Consumers realised that with the traditional pay-TV, they were paying for a lot of content that was of no personal interest to them. So, subscribers began to search for better value elsewhere. In the following years of what the media called the Streaming Wars, it became clear that there was not one winner that could take all. With cord-cutting still happening, all is not lost for pay-TV. Traditional players are realising that co-existence with OTT is their new reality. The time is now ripe for operators to rise to the challenge, embrace 'super aggregation', bring the best of both worlds together, and give viewers what they really want. The streaming experience, as we all know, is far from perfect. Deciding which services to buy can be a big research exercise. Searching for content, browsing through each and every streaming service you pay for, all with different interfaces – some good, some not so much – and the hunt for the next show to watch, it all had become tiresome. And paying three, four, five or more separate monthly fees just for digital entertainment is downright inconvenient.

Cable and satellite providers and telcos continue to have a huge advantage of being a key gateway into the home, not to mention the long-standing customer relationships. But they're now also studying the modus operandi of those who disrupted their dominance. As the saying goes, 'If you can't beat 'em, join 'em.' Fortunately for viewers around the world, this process has begun in earnest. Pay-TV operators today are introducing Netflix and other streamers into their bundles as a priority. But simply having an extra button on a remote control isn't enough to deliver a great 'super-aggregated' service. People appreciate curation. We like it when a curator considers thousands of artworks to lovingly assemble a selection into a themed exhibition at our favourite museum. We like it when a close friend tells us about a TV programme he/she think we'd like. Technology is now enabling the pay-TV provider to be that friend. So, why isn't every viewer living this dream? What is standing in the way of widespread super-aggregation? This is, mainly, because to become a super-aggregator is to be committed to the consumer based on the following principles:

1. Always have the most popular and relevant traditional and OTT content on your service.
2. Provide the best possible user experience for discovering and watching the content.
3. Have the best bundle that leverages broadcast and OTT content.

Achieving all this takes a lot of thought, planning, partnering with specialists and, of course, commitment backed up by investment. It also requires a solid business strategy and flexible technology. Telcos are in the perfect position to become super-aggregators. They have the advantage of pricing latitude, thanks to their profitable mobile and data services. And they have ample bandwidth to play with. But many of them also have ageing and obsolete infrastructure. For a quality experience, providers must be agile and able to rapidly integrate new services. Incorporating metadata, updating billing, user interface and other key system elements also need to be nimble and well-executed. For smaller telcos with fewer resources, achieving all these objectives poses even bigger obstacles. The challenges are not only technical – in fact, getting attractive commercial agreements with content owners might even be tougher. The answer lies in a change in mindset and the adoption of new technology. Solutions that unlock access to metadata are now available, as are the technologies that offer user-friendly, seamless recommendations on a super-aggregated offering. Advanced analytics can help operators learn from what viewers are doing and what they really like. Netflix has set a new standard in terms of consumer expectations. Binge-watching – a phrase that previously didn't exist – has never been easier. Multiscreen options to continue watching shows, smart searching, recommendations and personalised profiles – all this is the new benchmark, and consumers love it. Super-aggregation is a win-win for content owners, operators and consumers. Telcos need attractive OTT content to stay relevant and to sell their quad-play offerings. OTT players themselves need reach, particularly the lower-cost distribution, which telcos provide by offering their content as part of a bundle. For consumers, this means having all the content they want and the convenience of it being in one place. The moral of the Streaming Wars for pay-TV operators is to turn your enemies into friends, embrace them and learn from them. The result is a unified super-aggregated proposition, with true mass appeal.

REMAIN GLUED TO THE DIGITAL MEDIA WITH THE MOST TRUSTED TV CHANNEL: HUNGAMA KIDS

SPEAKER HIGHLIGHT

Hungama Kids is an OTT platform owned by Hungama Digital Media. The platform was launched in 2019 with the intention of creating and providing content for up to 18-year-old kids and parents who need help in dealing with their children to understand them better. The platform offers age-appropriate content. While kids have been active users of digital devices for over 10 years, they spent most of their time on digital devices either by playing games or consuming entertainment-led content. While these platforms have been very entertaining, very few of them play become a part of their learning process. Hungama Kids, on the other



Soumini Sridhara Paul, Senior Vice President, Hungama Digital Media Entertainment Pvt Ltd

hand, has always positioned itself as a platform that helps your children to Go Beyond the Books without leaving their learning environment.

Hungama has always aimed at creating platforms that will offer greater meaning to its users, and in these difficult times of the pandemic, when education has

taken a huge hit like everything else, Hungama Kids aims to become a resource to help kids learn and stay informed. To accomplish this goal, we have partnered with an OTT solutions company, which is helping us develop a new, updated platform, which will be available across Android, iOS, and the Web. Coming April 2021, we will offer school curriculum-based content, which children can watch and learn from. Today, education has gone online, but learning does not have to be cumbersome. Therefore, we are committed to making our content not only unique but also entertaining and engaging.

The OTT space opened up a plethora of opportunities in 2020, which are being exploited by existing OTT players. However,

once a model becomes successful, everyone follows, bring more players to the scene. That is what we are going to see across the board both at regional and category levels. The pandemic gave several curriculum-based players an opportunity to create a huge market base for themselves. Now, it will be interesting to see who lasts and who is able to make an impact on the user's daily life.

Some very strict policies will be introduced on the App Store and Play Store in terms of content available for kids, which to a great extent will control the quality of content one can showcase on Apps. Consequently, an App created for kids will have the ability to truly creating an educational experience and not offer content that is inappropriate for their age group.

Hungama Kids will definitely evolve into a platform that parents can feel comfortable with in terms of both time and money. True, that digital devices may have become a part of children's daily life, but they don't have to be a source of physical harm or mental stress.

FORTUM: OUR MISSION, GOALS AND VISION

SPEAKER HIGHLIGHT

Fortum is a European energy company with activities in more than 40 countries. We provide our customers with electricity, gas, heating and cooling, as well as smart, solutions to improve resource efficiency. We want to encourage society our customers to join the change for a cleaner world. Together with our subsidiary Uniper, we are the third-largest producer of CO₂-free electricity in Europe. With approximately 19,000 professionals and a combined balance sheet of approximately EUR 69 billion, we have the scale, competence and resources to grow and drive the energy transition forward.

In doing this, we offer excellent shareholder value. In India, we operate with businesses that are contributing to a cleaner world, such as solar projects, which reduce CO₂ emission, EV charging services, which catalyse sustainable transportation, emission control services for existing thermal power

plants, and projects that convert bioresources to useful products. Starting its activity in India in 2012 with an acquisition of an operating 5 MW solar plant in Rajasthan, Fortum has created a portfolio of 685 MW (435 operating and 250 under development) solar assets in India. Fortum has formed a Joint Venture with Numaligarh Refinery Limited and Chempolis to set up a bamboo-based biorefinery plant.

The '6th Smart Cities India Expo' is a platform for us to share our learnings with a larger group of stakeholders and to exchange ideas on collaborations to take these initiatives further and wider.

Fortum Charge & Drive has been involved in an operation of a network of more than 6,000 smart-charging points in Nordic countries, of which more than 30 per cent are DC quick chargers, besides providing access to more than 200,000 charging points through our in-house aggregator model under the 'Plugsurfing' brand. Active in India since October 2017, Fortum Charge & Drive is expanding the DC



Awadhesh Jha
Vice President - Charge & Drive and Sustainability, Fortum India Pvt Ltd.

fast-charging network in the country. Fortum is presently operating in seven major Indian cities, with 97 fast-charging points at 40 locations, and growing. Fortum Charging network includes both 15/20 KW DC001 chargers and 50KW chargers and caters to low-voltage EVs, like Mahindra e-verito, Tata Tigor, Hyundai Kona, MG ZS, and Tata Nexon. We also offer a cloud solution

to EV charging-service providers and infrastructure investors. The SaaS architecture enables flexible, pay-as-you-grow models and white/grey label alternatives. This service has been configured to suit a wide array of custom requirements and is hardware agnostic.

Electric cars matter more than ever before because almost all countries are now committed to reducing their environmental footprints and emissions. This is highly significant in a country like India, which has some of the world's most polluted cities in terms of air quality. Moreover, with the Government strongly pushing for the growth of solar energy, electric cars can serve yet another important function, i.e., of balancing the power grid by drawing power from the grid during peak generation hours, storing it in their batteries when not in operation, and transferring it back to the grid when needed. As the grid becomes greener and battery technology advances, electric cars will help in driving India towards a sustainable future in terms of both mobility and power.

NEW INNOVATIONS IMPLEMENTED BY SCALLOPX

SPEAKER HIGHLIGHT

The ongoing COVID-19 pandemic has undoubtedly posed an unprecedented challenge to the whole world, but at the same time, it has turbocharged the technology revolution worldwide and, specifically, a FinTech revolution.

The pandemic has been changing the consumer behavior, to which the banking and financial services industry needs to adapt. Digital transformation has triggered as the top priority for those not wanting to be left behind.

Fintech is fostering innovation in financial services globally and changing the nature of commerce and user expectations for financial services. It is commonly considered to cover the application of AI, blockchain, cloud computing and big data in areas such as payments, clearing and settlements, deposits, lending and capital raising, insurance, investment management, and market support.

One of the many technologies within the fintech area that will play a key role in the future is blockchain, and specifically, cryptocurrencies.

Where 2020 was one of the best year for crypto currencies, 2021 is proving to be even better. We have seen not only a surge in the price of most crypto currencies, Bitcoin being one of them, but we have also seen institutional investors becoming more keen to invest in cryptos (which is probably one of the main reasons behind the surge in the price of most cryptos).

We have also seen companies like PayPal launching a new service enabling users to buy, hold and sell cryptos, as well as traditional banks like DBS, launching a digital currency exchange that will allow investors to trade in cryptocurrencies and firms to raise funds through asset tokenization. We have also seen Master Card bringing crypto onto its net-work, admitting that "Whatever your opinions on cryptocurrencies — from a dyed-in-wool fanatic to utter skeptic — the fact remains is, that these digital assets are becoming an important part of the payments world."

ScallopX, is a UK-based company that aims to be a one-stop

solution for users who wants to run Cryptocurrency trading and Banking services in a faster and efficient way, with the goal of bringing Crypto Currency into mainstream. ScallopX is the first decentralized crypto banking service provider that allows users to trade cryptocurrencies directly from any sup-ported Hardware wallet.

ScallopX is different from the other companies in the industry as it issues real time UK and EU bank accounts, which can be used for salaries and direct debits, and ScallopX wallets are normal cold hardware wallets which allows its users to send crypto currencies to anyone.

One of the services offered by ScallopX is a banking card that allows Cryptocurrency users to buy, sell and exchange their digital currencies into fiat currencies securely, instantly and with ease. Users will be familiar with these transactions as it will be similar to services currently being offered by mainstream banks and credit card providers. Hence, this gives the users peace of mind with regard to their transactions not only being safe but also familiar. This familiarity comes from the similarity of ScallopX's services to the mainstream banking products. Contactless payment, instant transactions, and mobile banking app will also be offered by ScallopX. This is how ScallopX will integrate the usage of Cryptocurrencies into everyday life.

As mentioned before, the Cryptocurrency market is expected to attract much interest from institutional investors. This will directly lead to a rise in the use of blockchain in everyday transactions, thus removing the barriers that exist between traditional fiat and crypto currencies. New blockchains like Solana and Cardano will help pave the way for new applications, such as ScallopX, to bring blockchain technology into the mainstream use. This will also mean that the adoption of crypto currencies for daily transactions will become more feasible and easier, thus enabling ScallopX to offer services, that we plan to roll out.

It is undeniable that regulators across the globe struggles to keep up with the maddening pace of balancing state of the art technology with the use of traditional regulatory schemes. While some countries like Singapore



Dr. Oriol Caudevilla
Chief Strategy Officer (CSO) at ScallopX

are permissive with cryptos, others have banned it.

However, in my opinion, there is nothing wrong with crypto currencies per se. Cryptos can of course be misused, but in the same way as any other asset can be. The market and institutional investors are starting to acknowledge this fact, hence, their interest in investing in cryptos is increasing.

In this sense, just as an example, what Singapore has done regarding crypto currencies is worthy of emulation. Singapore's new payment law came into force on Jan 28 and it requires all crypto businesses operating in the country to be registered and licensed. The Monetary Authority of Singapore said the new law will not only strengthen consumer protection but also promote confidence in the use

of electronic payments.

Singapore is one of the most important Asian country for the crypto sector due to its regulation-friendly environment. According to The Block Research, there are at least 153 crypto and blockchain companies headquartered in Singapore, across 27 different subcategories.

To sum up, ScallopX is the first decentralized crypto banking service provider that allows users to trade cryptocurrencies directly from any supported Hardware wallet. It is a one-stop solution for users who want to make Cryptocurrency trading and banking services more efficient, in a time when more and more people are starting to become interested in learning and even investing in cryptos, and when institutional investors are starting to tap into the crypto market.

LEADING THE WAY IN WATER AND ENERGY SYSTEMS AUTOMATION, WITH IOT & AI, AND SUSTAINABILITY: NIMBLE VISION

SPEAKER HIGHLIGHT

Nimble Vision focusses on smart water management processes, using IoT and AI. We are addressing the needs of the common people by bringing tech and innovation into their lives. All our solutions address the following UN Sustainability goals:

- Goal 9: Industry innovation and infrastructure
- Goal 11: Sustainable cities and communities
- Goal 12: Responsible consumption and production

Mission:
The idea is to help common people, farmers and industries in conserving water, energy and money with massive data analytics, AI.

Vision:
To become a world leader and torchbearer in the fields of water and energy system automation, with IoT & AI, and sustainability.

New Innovations:
Ni-The Water Saviour: A smart water level controller and meter, which helps in understanding the water consumption behaviour of common people and industries. It provides massive data analytics on the mobile and web about water availability, consumption, leakage and quality.
Ni-Sensu: A retrofit solution that connects the customer and vendor with purifiers, making every water purifier smart. It provides consumption,



quality and maintenance details of the mobile and Web dashboard.
Ni-The Pool Pal: A smart IoT solution makes every pool smart by providing Ph, Temperature and ORP details on the mobile. It also helps to remotely manage pool lights and water recycling motors.

Embracing New Tech/Concepts in the aftermath of Pandemic
The current pandemic has initiated a new way of life, making remote working without physical contact a priority. The basic motto of all our solutions is remote diagnosis and control without human intervention. We provide data analytics of water-related processes and systems on a mobile app and the web. These analytics help customers understand, manage and control the operations.

Soft Launch of a new product/service
Ni-The Pool Pal: Global launch of this product.

Industry Challenges and Roadblocks
Every industry faces challenges when adopting new technologies. Usually, new technologies are expensive, but our solutions are retrofit and highly affordable, as we are making existing systems smart rather than providing new systems. This approach makes everything affordable. Our solutions also come with intuitive dashboards.

Policy Advocacy
1. Apply technology in a meaningful way to get data.
2. Analyse the data and make intuitive dashboards.
3. Make all stakeholders aware about of consumption

SIMPLIFY THE WAY OF LIFE BY EMBRACING TECH & INNOVATION.

CHINNAYYA MATH, CEO & COFOUNDER

- behaviour in terms of using resources.
- 4. Conserve natural resources and makes systems more efficient.
 - 5. Use less and reduce wastage.

What is being showcased at the Expo?
Our three solutions as mentioned above – all three are available for display and demo.

Special focus on any launches or special products/solutions being displayed at the expo.
All three solutions are important in their own ways.

- Ni-The Water Saviour for the common people B2C & B2B
- Ni-Sensu
- Ni-The Pool Pal for Businesspeople B2B

How can your solutions/ technologies/ideologies be leveraged for a better tomorrow?
We believe in conserving natural resources, for we think that it's the only way to a sustainable future. This requires awareness about our consumption behaviour and pattern. All our solutions provide massive data analytics in bringing this awareness to the masses, which will in turn reduce wastage and create a sustainable society.



GLIMPSES OF THE SHOW



CONFERENCE PROGRAMME HALL A

25-26 MARCH 2021

25TH MARCH 2021

EMERGING TECH SUMMIT

1000-1130hrs Session: The Changing Landscape of Emerging Technology

Moderator: Mr. Sharat Chandra, President, GBA India and Advisor EarthID

Distinguished Speakers:

- Dr. Omkar Rai, Director General, STPI
- Shri Saurabh Gaur, IAS, Joint Secretary, MeitY
- Mr. Anil Kumar Jain, CEO, NIXI
- Dr. Rishi Bhatnagar, President, AERIS Communication
- Mr. Ankur Malhotra, Director, Mazars, India
- Mr. Anand Ramamoorthy, MD, Micron Technology
- Mr. Jim Morrish, Founding Partner, Transforma Insights

Launch of Thought Leadership Report by Mazars: Where is my cloud?

1145 - 1200hrs Networking Break

1200 - 1230hrs Presentation on Digital Transformation of Electronics Design, Manufacturing and Related Quality Processes

Industry

Presentation by: Dr. Karthik Sundarraj, Technical Manager, Indo-Pacific, Hexagon

1230 - 1300hrs Keynote: AI for Society

Moderator: Mr. Nishith Pathak, Global Chief Technologist for Emerging Technologies & Analytics, DXC Technology

Keynote Address: Ms. Anna Roy, Sr. Adviser, Niti Aayog

Special Address: Dr. Anita Gupta, Head – NSTEDB, Ministry of Science & Technology

1300 - 1400hrs Lunch Break

1400 - 1530hrs Session: It's a Smart World after all – The Role of IoT in Buildings, Education, Healthcare, Manufacturing, Utilities & Beyond

Session Chair: Dr. Rishi Bhatnagar, President, AERIS

Distinguished Speakers:

- Dr. Alok Nath De, SVP and CTO, Samsung India (Virtual)
- Mr. Vinay Solanki, Head of Digital Solutions & General Manager, Napino Auto & Electronics Ltd
- Mr. Shridhar Pandey, Managing Director, Elecorev Ramway India Pvt Ltd
- Mr. Vartul Mittal, Technology & Innovation Specialist,Formerly-IBM, Kotak Mahindra Bank, Coca Cola
- Mr. Mukesh Sinha, Managing Partner, Innovative Infratech Solution Private Limited
- Mr. Sanjay Tiwari, General Manager, Ligman Lighting Co. Ltd.

1530 - 1540hrs Changeover

1540 - 1605hrs Keynote: Impact of AI in Healthcare

Moderator: Mr. Ram Kumar, CEO, Nirog Street

Keynote Address: Dr. Anurag Agrawal, Director CSIR Institute of Genomics and Integrative Biology

1605 - 1615hrs Networking Break

1615 - 1730hrs Session: Blockchain in Action

Moderator: Mr. Sharat Chandra, President, GBA India and Advisor EarthID

Distinguished Speakers:

- Ms. Debajani Mohanty, Blockchain Author
- Mr. Amit Jindal, CEO, Felix Advisory
- Mr. Dhaval Joshi, Vice President– Strategy & Consulting, Panamax
- Mr. Aman Sanduja, Blockchain Hustler

26TH MARCH 2021

SOLAR INDIA SUMMIT

1000 - 1100hrs Session: Pathway to Green Hydrogen Economy in India

Chief Guest: Ms. Gauri Singh, Deputy Director-General, IRENA

Distinguished Speakers:

- Shri Deepak Gupta, IAS (Retd.) Hon. Director General, NSEFI, Former Chairman, UPSC (former Secretary, MNRE and former Special Secretary, MoHFW)
- Shri K. R. Jyoti Ial, IAS, Principal Secretary, Department of General Administration, Revenue and transport, Government of Kerala
- Mr. José Ignacio Sanz Saiz, VP Gas, Renewables and Power India - India Country Chair, Total Group (Virtual)

Moderator: Mr. Subrahmanyam Pulipaka, Chief Executive Officer, NSEFI

1100 - 1110hrs Changeover

1110 - 1215hrs Session: Aatma-Nirbhar in Manufacturing-Self Reliant Solar Industry

Distinguished Speakers:

- Shri Pradip Kumar Das, CMD, IREDA
- Shri Hitesh Doshi, Chairman and Managing Director, Waaree Energies
- Mr. Sujoy Ghosh, Vice President -APAC & India Region, First Solar
- Mr. Sunil Badesra, Country Head - Sungrow India

Moderator: Mr. Rishabh Jain, Manager- Market Intelligence, CEEW-CEF

1215 - 1225hrs Networking Break

1225 - 1330hrs Session: Solar PV Recycling- Action and Direction

Distinguished Speakers:

- Mr. Jan Clyncke, MD, PV Cycle
- Mr. Máté Heisz, Director of Global Affairs, SolarPower Europe

Moderator: Mr. Subrahmanyam Pulipaka, Chief Executive Officer, NSEFI

Launch of Report by NSEFI: Solar PV Recycling in Indian Context

CONFERENCE PROGRAMME HALL B

25-26 MARCH 2021			
25TH MARCH 2021		Paper by: Mr. Akshay Bhalla, Office Managing Partner - North KPMG in India	
CITY LEADERS CONCLAVE		1100-1110hrs Break and Changeover	
1000 - 1100hrs	Opening Session: Building Better Cities	1110 - 1300hrs	Session: Smart Cities Response to the Pandemic
Opening Address and Setting the context:	Mr. Nilachal Mishra , Partner and Head of Government Advisory, KPMG in India	1110-1115hrs	Setting context by Session Moderator: Ms. Neetika Chhabra , Director – Infrastructure, Government & Healthcare, KPMG in India
Special Address:	Dr. O.P. Agarwal , CEO, WRI India	Keynote Address by: Shri Hitesh Vaidya , Director, NIUA	
Ambassador speaks:	H.E. Mr. Andre Aranha Correa do Lago , Ambassador, Embassy of Brazil	Special Address by: Dr. Charru Malhotra , PhD (IIT-D), Coordinator (Centre of eGovernance), Indian Institute of Public Administration	
Guest of Honour Address:	Shri Durga Shanker Mishra , IAS, Secretary, Ministry of Housing and Urban Affairs, Govt. of India	1140 - 1200hrs	Panel Discussion and Q/A
Launch of Knowledge		1200 - 1315hrs	Presentation by India Cities: Part I

CONFERENCE PROGRAMME HALL B

25-26 MARCH 2021			
1200 - 1210hrs: Dr. Garima Mittal, IAS, CEO, Faridabad Smart City		26TH MARCH 2021	
1210 - 1220hrs: Mr. Aditya Singh, CEO, Bhopal Smart City Ltd.		CLEAN AND WATER INDIA SUMMIT	
1220 - 1230hrs: Mr. Ashish Kumar, CEO, Jabalpur Smart City Ltd.		1000 - 1050hrs	Session: Disposable Plastic Waste: Now & the Future. Alignment with the Sustainable Development Goals & Principles of Circular Economy
1230 - 1240hrs: Mr. Gaurang Rathj, IAS, Varanasi Smart City		Distinguished Speakers:	
1240 - 1250hrs: Ms. Jayati Singh, IAS, CEO, Gwalior Smart City Ltd.		• Dr. Binish Desai , Recycle Man of India	
1250 - 1300hrs: Mr. Nitin Sangwan, IAS, Ahmedabad Municipal Corporation		• Ms. Shalini Goyal Bhalla , Advisor, Sustainability and Circular Economy	
1300 - 1315hrs Discussions and Q/A		• Mr. Ujwal Desai , Managing Director, Lucro Plasticscycle Pvt. Ltd.	
1315 - 1400hrs Lunch Break		Moderator:	Mr. Ashish Sachdeva , Founder President, Green Dream Foundation
Presentations by Indian Cities: Part II		1050 - 1100	Changeover
1400 - 1410hrs: Setting the context		1100 - 1145hrs	Session: Integrated Solid Waste Management & the ‘Triple Bottom Line’ Approach to Meet India’s Waste Crisis
1410 - 1420hrs: Mr. Mahesh Moroney, Deputy Chief Executive Officer, NAGPUR Smart City		Distinguished Speakers:	
1420 - 1430hrs: Mr. Raj Cherubal, CEO, Chennai Smart Cities		• Mr. R.K. Sud , Managing Director, EESL	
1430 - 1440hrs: Mr. Rahul Singh Rajpoot, CEO, Sagar Smart City		• Mr Masood Mallick , Joint Managing Director, Ramky Enviro (REEL)	
1440 - 1450hrs: Mr. Mukesh Malhotra, CEO, Biharsharif Smart City Ltd.		• Dr. Abhinav Akhilesh , Director - Human and Social Services, KPMG in India	
1450 - 1500hrs: Mr. Ravi Pawar, CEO and Dy. Commissioner, Amravati Smart City		Moderator:	Mr. Ashish Sachdeva , Founder President, Green Dream Foundation
1500 - 1515hrs Discussions and Q/A		1145 - 1200hrs	Networking Break
1530 - 1545hrs Networking Break		1200 - 1300hrs	Session: Efficient Water Management
1545-1625hrs Session: Heritage as an Enablement for Effective and Usable Urban Environment		Distinguished Speakers:	
Session Moderator: Mr. Ashutosh Kapoor, Director - Infrastructure Government and Healthcare, KPMG in India		• Dr. Fawzia Tarannum , Assistant Professor, TERI School of Advanced Studies	
Distinguished Speakers:		• Mr. Raman VR , Head of Policy, WaterAid India	
• Mr. Navin Piplani , Director, INTACH		• Md. Mazharul Haque , Managing Director, Oasis Wfs Pvt Ltd.	
• Mr. Athar Aamir ul Shafi Khan , Municipal Commissioner, Srinagar Municipal Corporation, Jammu and Kashmir		• Mr. Chinnayya Math , CEO, Nimble VisionPvt. Ltd.	
• Mr. Khushaal Yadav , CEO, Ajmer Smart City Ltd.		• Mr Ganesh Shankar , Founder & CEO at FluxGen Technologies	
1625-1630hrs Changeover		Moderator:	Dr. Pranab J Patar , Chief Executive, Global Foundation for Advancement of Environment and Human Wellness
1630-1730hrs Session: How Important is to create “Sister Cities Concept” for Smart and Sustainable Cities?		1400 - 1600hrs	Smart Cities India Awards 2021
Moderator: TBD		Chief Guest: Shri Jibesh Kumar , Hon’ble Minister Department of IT, Government of Bihar	
Distinguished Speakers:		Guest of Honour: Mrs. Anju Bhalla , Joint Secretary, Ministry of Science & Technology	
• Dr. Bernadia Irawati Tjandradewi , Secretary General, UCLG		Smart Cities India (SCI) Awards is a unique platform designed to felicitate, recognize and encourage individuals, policy makers, companies, municipalities, government bodies and associations to illuminate the work done in both urban and rural sectors. SCI Awards is industry’s most prestigious and well recognized platforms with 800+ submission forms scrutinized and reviewed by the eminent jury in last 5 years. The winners of SCI Awards 2021 will be announced (Physical) on 26th March 2021 at Pragati Maidan, New Delhi.	
• Ms. Fathimath Afshan Latheef , CEO, Local Government Authority, Republic of Maldives			
• Mr. Ravi Ranjan Guru , DDG, AILSG			
• Mr. Rafael Greca , Mayor of Curitiba, Brazil			
• Mr. Junaid Azim Mattu , Mayor, Srinagar Municipal Corporation			



CONFERENCE PROGRAMME VIRTUAL

DAY 2: 25 MARCH 2021 (THURSDAY)	
<p>OTT SUMMIT</p> <p>1000 - 1100hrs Session: India's Evolving OTT Landscape</p> <p>Moderator: Mr. Girish Menon, Partner and Head - Media and Entertainment, KPMG in India</p> <p>Industry presentation by: Mr. Ervin Chan, VP Sales – APAC at Kaltura</p> <p>Distinguished Speakers:</p> <ul style="list-style-type: none">Mr. Tarun Katial, Former CEO, ZEE5Mr. Ali Hussein, CEO, Eros DigitalMr. Zubin Jimmy Dubash, COO- Digital, Shemaroo Entertainment Ltd.Mr. Vivek Jain, Chief Operating Officer, MX PlayerMr. Vishal Maheshwari, Board and Selection Committee Member, Venture Networks <p>1100 - 1115hrs Networking Break</p> <p>1115 - 1215hrs Session: Diversification of Content</p> <p>Moderator: To be decided</p> <p>Distinguished Speakers:</p> <ul style="list-style-type: none">Mr. Anindo Banerjee, Originals Head, HoichoiMr. Mayur Puri, Writer, Actor, Lyricist, DirectorMr. Dhruv Sheth, Chief Operating Officer, OMLMr. Sushant Tomar, Country Director, M&C Saatchi PerformanceMr. Gautam Talwar, Chief Content Officer, MX Player <p>1215 - 1230hrs Networking Break</p> <p>1230 - 1300hrs Keynote: How do Advertisers look at OTT Platforms?</p> <p>Keynote Address: Ms. Kavita Shenoy, Founder and CEO, Voiro</p> <p>1300 - 1400hrs Lunch Break</p> <p>1400 - 1530hrs Session: Enhancing the OTT Experience with Emerging Technologies</p> <p>Moderator: Mr. Uday Sodhi, Sr. Partner, Kurate Digital Consulting</p> <p>Distinguished Speakers:</p> <ul style="list-style-type: none">Mr. Hans Massart, Head of Media & Broadcast, ST Engineering iDirectMr. Aloke Majumdar, Technology Head, HoichoiMr. Bharat Mohan, CEO, SensaraTVMr. Paritosh Prajapati, Group CEO, GX GroupMr. Damien Sterkers, Product Manager, BroadpeakMr. Amey Sukhthankar, Head - Sales & Alliances, Sterlite Power Transmission Ltd. <p>1530 - 1545 Networking Break</p> <p>1545 - 1615hrs Keynote: Smart TVs and OTT: Encashing Synergies</p> <p>Keynote Address: Mr. Vynsley Fernandes, Managing Director & CEO, NXTDIGITAL Limited</p> <p>1700-1800hrs Decoding Kids' Genre in OTT Space</p> <p>Moderator: Mr. Uttam Pal Singh, Head-Discovery Kids, Discovery</p> <p>Distinguished Speakers:</p> <ul style="list-style-type: none">Ms. Soumini Sridhara Paul, Senior Vice President, Hungama Digital Media Entertainment Private LimitedMs. Gayatri Sundaram, Head-Special Projects, KidZaniaMr. Amit Agrawal, Founder, OckyPockyMr. Rajiv Chilaka, Founder & CEO, Green Gold Animation Pvt. LtdMr. P. Jayakumar, CEO, Toonz Media Group	<p>TRANSPORT INDIA SUMMIT</p> <p>1000-1130hrs Session: Boosting EV Charging Infrastructure</p> <p>Moderator: Mr. Anil Srivastava, Principal Consultant & Mission Director - National Mission on Transformative Mobility & Battery, NITI Aayog</p> <p>Distinguished Speakers:</p> <ul style="list-style-type: none">Dr. Praveer Sinha, CEO and Managing Director, Tata PowerMr. Awadhesh Jha, Vice President, Fortum Charge & Drive India Pvt. Ltd.Mr. Amit Bhatt, Executive Director, WRI IndiaMr. Abhijit B Mulay, General Manager, Automotive Electronics Department, The Automotive Research Association of India <p>1130 - 1145hrs Networking Break</p> <p>1145 - 1300hrs Session: India's Promising Energy Storage Market</p> <p>Moderator: Mr. Anish De, Partner and National Head - Energy and Natural Resources, KPMG in India</p> <p>Distinguished Speakers:</p> <ul style="list-style-type: none">Dr. Rashi Gupta, Founder & Managing Director, Vision Mechatronics Pvt. Ltd.Mr. Debi Prasad, Executive Director, India Energy Storage AllianceMr. Abhinav Mahajan, Director, IB SolarMr. Samit Jain, Managing Director, Pluss Advanced Technologies Pvt. Ltd. <p>1300 - 1400hrs Lunch Break</p> <p>1400 - 1530hrs Session: Adoption of New Strategies for Sustainable Mobility and Safer Roads</p> <p>Chair & Moderator: Mr. Manojit Bose, Sr. Advisor, Smart Cities</p> <p>Distinguished Speakers:</p> <ul style="list-style-type: none">Dr. Bhairavi Joshi, CEO and Director, BYCS IndiaProf. Sanjay Gupta, Professor and Head, Transport Planning, School of Planning and Architecture, New DelhiMr. Shantanu Sonar, Head of Driving Functions, Engineering – ADAS Systems, India, Continental AutomotiveMr. Parag Bedarkar, Manager-Sales, TomTomMr. Atul Kumar, Associate Manager - Automotive and Transportation, MarketsandMarkets <p>1530-1535 Changeover</p> <p>1535-1600hrs Keynote: Ridesharing with EVs</p> <p>Keynote Address: Mr. Vinod Kumar Poomalai, Strategic Sales Manager, TomTom</p> <p>1600-1615hrs Networking Break</p> <p>1615-1730hrs Session: Sustainable Urban Future: Experience from Brazil</p> <p>Keynote Address: H.E. Andre Aranha Correa do Lago, Ambassador, Embassy of Brazil</p> <p>Special Address: Mr. Roberto Paranhos do Rio Branco, President, Brazil India Chamber of Commerce</p> <p>Presentations by:</p> <ul style="list-style-type: none">Mr. Basilio Jafet, Director, Jafet IncMr. Aloisio Pereira DA Silva, CEO, InfracitiesMr. Thomaz Assumpção, Founder & CEO, Urban Systems <p>Moderator: Ar. Rajendra Kumar, Director, School of Architecture, Noida International University</p>



CONFERENCE PROGRAMME VIRTUAL

DAY 3: 26 MARCH 2021 (FRIDAY)	
<p>CYBER SECURITY CONCLAVE</p> <p>1000 - 1100hrs Session: Cyber Security in the New Normal World</p> <p>Moderator: Mr. Atul Gupta, Partner and Head - IT Advisory Services, KPMG in India</p> <p>Distinguished Speakers:</p> <p>Keynote Address: Lt. Gen. (Dr) Rajesh Pant, National Cyber Security Coordinator, Prime Minister's Office, Government of India</p> <p>Special Address:</p> <ul style="list-style-type: none">Dr. Muktesh Chander, IPS, Special Commissioner, Delhi PoliceMr. Shirish Bapat, Assessor Manager, LRQA SWA <p>1100 - 1110hrs Changeover</p> <p>1110 - 1210hrs Session: How Secure is your Data on the Cloud?</p> <p>Moderator: Mr. Nikhil Narendran, Partner, Trilegal</p> <p>Distinguished Speakers:</p> <ul style="list-style-type: none">Mr. Vijay K. Banda, Senior Director- Cyber Security, Qualcomm IndiaMr. Moshe Ferber, Chairman, Cloud Security Alliance, IsraelMr. Vijay Kumar, Founder, DigitalFort TechnologiesMr. Akshay Shah, CEO, iWebMr. Deepak Talwar, National Cyber Security Officer, Microsoft <p>1210 - 1220hrs Changeover</p> <p>1220 - 1320hrs Session: New Emerging Trends in Cyber Crimes</p> <p>Moderator: Mr. Vijay Kumar, Founder, DigitalFort Technologies</p> <p>Distinguished Speakers:</p> <ul style="list-style-type: none">Ms. Lopa Mudra Basu, Cyber Security ExpertDr. Balsing Rajput, Superintendent of Police, Maharashtra Cyber, Maharashtra PoliceMr. Kunal Gupta, Partner, TrilegalMr. Nikhil Mahadeshwar, Chief Technology Officer, Skynet Softtech Pvt. Ltd.	<p>EMERGING TECH SUMMIT</p> <p>1000 - 1130hrs Session: Building Embedded Systems for IoT</p> <p>Moderator: Mr. Ravi Subramanyam, Founder and President, iBot Control Systems Inc.</p> <p>Distinguished Speakers:</p> <ul style="list-style-type: none">Mr. Siddharth Verma, IOT Lead India, MicrosoftMr. Vinay Thapliyal, Technical Marketing Manager, MCD, INDIA, STMicroelectronicsMr. Amit Rao, VP - Strategy & Business Development, APAC, Trusted ObjectsMr. Deepu Chandaran, Sr. Technical Manager, LDRA IndiaMr. Nate Srinath, Founder and Director, INXEE <p>1130 - 1145hrs Networking Break</p> <p>1145 - 1315hrs Session: Industry 4.0: Reinventing Manufacturing</p> <p>Moderator: Mr. Sunil David, Regional Director-IOT (India & Asean), AT&T</p> <p>Distinguished Speakers:</p> <ul style="list-style-type: none">Mr. Arun Handa, Chief Technical Officer, Servotech Power SystemsMr. Samip Mutha, Head of Digital, RPG GroupMr. Manuj Ohri, Partner, KPMGMr. Naveen Kumar Singh, Group CEO, Napino Auto & ElectronicsMr. Sandeep Sehgal, Head Enterprises, Nokia <p>1330 - 1400hrs Startup Pitch Session</p> <p>1400 - 1600hrs Smart Cities India Awards 2021 (Physical)</p> <p>Chief Guest: Shri Jibesh Kumar, Hon'ble Minister Department of IT, Government of Bihar</p> <p>Guest of Honour: Mrs. Anju Bhalla, Joint Secretary, Ministry of Science & Technology</p> <p>Smart Cities India (SCI) Awards is a unique platform designed to felicitate, recognize and encourage individuals, policy makers, companies, municipalities, government bodies and associations to illuminate the work done in both urban and rural sectors. SCI Awards is industry's most prestigious and well recognized platforms with 800+ submission forms scrutinized and reviewed by the eminent jury in last 5 years. The winners of SCI Awards 2021 will be announced (Physical) on 26th March 2021 at Pragati Maidan, New Delhi.</p>



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