

12, 13 & 14 FEBRUARY 2020
PALACE GROUNDS, BENGALURU



16TH INTERNATIONAL EXHIBITION
& CONFERENCE ON **SMART &
SUSTAINABLE CITY SOLUTIONS**

FUTURE CITIES





future cities
a 360 degree event on city development

CAPEX
Construction Architecture Planning Engineering

MUNICIPALIKA
SMART & SUSTAINABLE CITIES

ARCHITECTURE
IN THE AGE OF MILLENNIALS

12, 13 & 14
FEBRUARY 2020

PALACE GROUNDS, BENGALURU

MUNICIPALIKA: A BRIEF HISTORY

Municipalika is India's exclusive annual exhibition cum conference that focuses on urban development, management and governance. It has been organised in Mumbai, Navi Mumbai, Hyderabad, Bengaluru, Chennai, Jaipur, Ahmedabad, New Delhi and Kolkata for the past 16 years.

HYDERABAD

2003

DELHI

2003 | 2005 | 2013

JAIPUR

2015

CHENNAI

2012

2010 | 2014

AHMEDABAD

2004

KOLKATA

2004 | 2008 | 2009
2017 | 2018

MUMBAI

2011 | 2019

BENGALURU





INTRODUCTION

Municipalika is an international platform dedicated to building a smart and sustainable India. Explore the latest technologies, decode innovative projects, discover global success stories, learn policies and strategies that can help improve urban performance.

Municipalika is a place to discover the use cases of new players, evolving wisdom of the experts and expectations for achieving intelligent and sustainable living in cities. With a streamlined vision, the show is uniquely appealing to Mayors, Architects, Municipal Commissioners, Smart City CEOs and Public Representatives, Planners, Engineers, Researchers, Private Consultants and Industry Experts.

The Exhibition cum Conference organised by Fairfest Media has an all-encompassing approach, covering the entire urban ecosystem. Some of the segments addressed by Municipalika include water and wastewater management; solid waste management and recycling, cleaning technologies and conservancy; environment protection; pollution control; sustainability; urban infrastructure development; safety, security, disaster management; urban transportation and traffic management; urban e-governance and IT solutions to construction and building technologies and much more.

- Showcase technologies and solutions for urban development.

- Create a culture of social inclusion and promote an active lifestyle for city dwellers.
- Innovations to propel economic growth and create sustainable, prosperous, intelligent and healthy cities.
- Successfully integrate and harness the potential of digitalization into existing urban systems
- New talents and skills to help meet the rising urban challenges of today and tomorrow.
- Innovative solutions to optimise urban services.
- Learn the latest research, global achievements and innovative projects to improve urban performance

ABOUT INDIA

A major chunk of the world's population lives in cities. Research shows that at least two-thirds of the world population will be living in cities by 2050. India is no exception when it comes to the rapid spread of urbanisation. The spread of urbanisation brings with it the concern of mass migration, leading to the problem of slums in urban spaces. Therefore, it is imperative to optimise urban spaces.

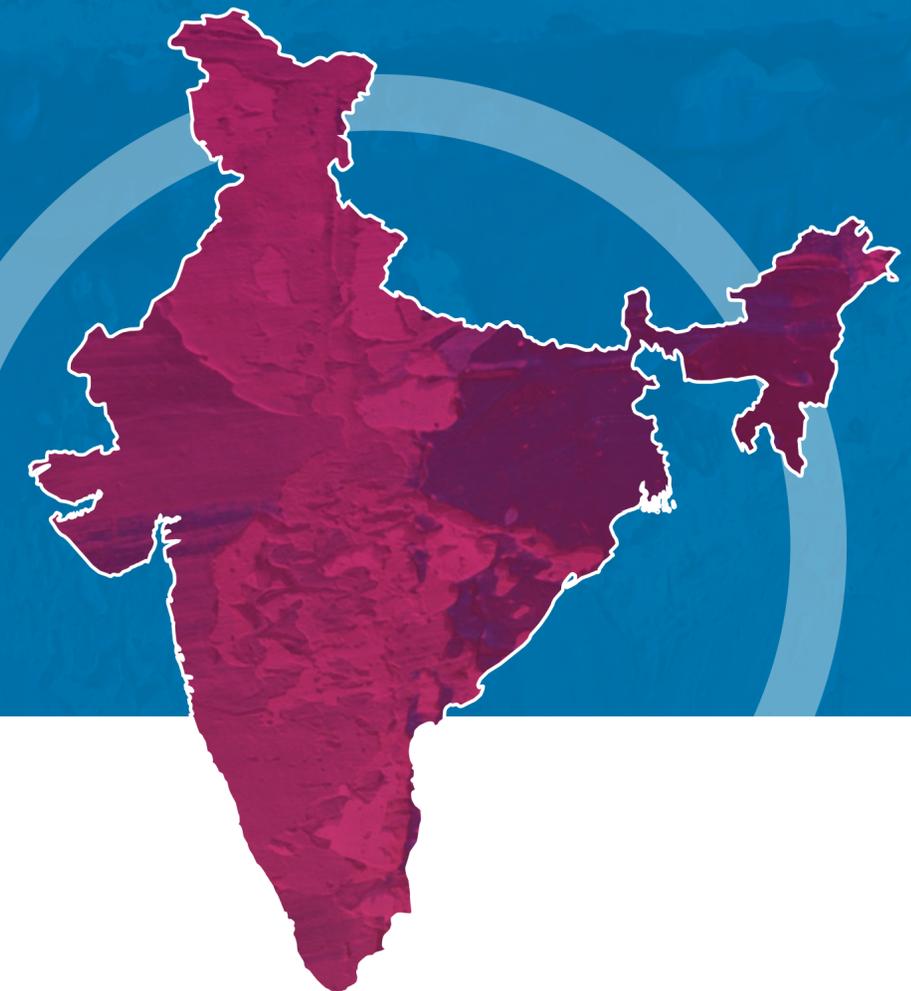
India is one of the most rapidly growing countries in the world. It has huge potentials in housing,

real estate and construction sector. As per United Nations, by 2030 India will have seven cities with more than a population of 10 million, with an overall population of 600 million in urban centres. India Brand Equity Foundation (IBEF) estimates the real estate sector in India will reach a market size of US\$1 trillion by 2030 from US\$120 billion in 2017. It will contribute 13 per cent of the country's GDP by 2025.

Even though cities consume only 3 per cent of the total land on Earth, 60 to 80 per cent energy

consumption and 70 per cent carbon emissions can be attributed to cities. Any effort in making urban living spaces sustainable will ensure new career and business opportunities, safe and affordable housing, and building resilient societies and economies.

“
By 2025 India will have 69 cities with a population of more than one million each.
”



ENABLING THE TRANSFORMATION TO A SUSTAINABLE INDIA, WITH THE SUPPORT OF THE **INDIAN GOVT.**

Since its inception, Municipalika has received ample support from various central, state and local government authorities in executing an international quality show.

MUNICIPALIKA 2010 Ahmedabad was supported by Government of India Ministries of Urban Development, Housing and Urban Poverty Alleviation, Communications and Information Technology and Department of Urban Development and Urban Housing, Government of Gujarat. Ahmedabad Municipal Corporation was the Host City, while Surat Municipal Corporation was the Partner City. Bhopal Municipal Corporation was the Associate Sponsor, along with the US Department of Energy, and Brookhaven National Laboratory. Municipalika was supported by Urban stake holders institutions like National Institute of Urban Affairs (NIUA), City Managers Association of Gujarat (CMAG) and others.

MUNICIPALIKA 2011 was attended by 35 Mayors and 40 Municipal Commissioners, Secretaries of government from 10 states, urban planners, professionals, technology providers and other stakeholders, including civil society groups.

MUNICIPALIKA 2012 was attended by 20 Mayors and 131 Municipal Commissioners, Secretaries from 17 states from all over India.

MUNICIPALIKA 2013 was organised with

the active support of the Government of India, the Ministry of Urban Development and the Ministry of Housing and Urban Poverty Alleviation and under the patronage of UN-Habitat, as well as other states, national and international urban stakeholder institutions.

MUNICIPALIKA 2014 was organised with the active support of Government of India, Ministry of Urban Development, Housing and Urban Poverty Alleviation, Host State Government of Gujarat and under the patronage of UN-Habitat, as well as other states, national and international urban stakeholder institutions.

MUNICIPALIKA 2015 was hosted by Pink city Jaipur with Jaipur Municipal Corporation as the Host City for the event. A large number of urban and housing sector officials, representatives of 176 local bodies, 40 Mayors and Chairpersons and Municipal Commissioners, Secretaries from 24 states and 300 cities and over 500 Municipal Counsellors were present at the 3-day event.

Smart Cities Council of India, National Institute of Urban Affairs, Central Ground Water Board, National

Water Mission, Central Pollution Control Board, Gujarat Pollution Control Board, Centre for Green Mobility, National Real Estate Development Council (NAREDCO), Rajasthan State Real Estate Development Council (RAJ REDCO), HUDCO, Rajasthan Avas Vikas And Infrastructure Limited (RAVIL), National Remote Sensing Centre of ISRO, Bharat Sanchar Nigam Limited (BSNL), EMBARQ India, Indian Renewable Energy Development Agency (IREDA), Bureau of Energy Efficiency (BEE), Sulabh International, Indian Heritage Cities Network (IHCN), Central Public Health and Environmental Engineering Organisation (CPHEEO), Centre for Environment and Development Studies, Centre for Study of Regional Development (JNU), Institute of Urban Transport, CEPT University and many more supported the event.

In **MUNICIPALIKA 2017**, over 150 Mayors and Chairpersons, Municipal Commissioners, Secretaries from 25 states and 10 countries and 300 cities comprising of governing leaderships, Ministers, Secretaries, Mayors, Commissioners, Urban Planners, Architects, Engineers, professionals, technology providers, financial specialists, ICT and other stakeholders including civil society groups.

OUR ESTEEMED GUESTS SAY:



I am happy to know that the 14th edition of Municipalika-India's recognised tradeshow and conference focused on Smart, Clean and Sustainable Cities is being organised in Navi Mumbai. Maharashtra is the most urbanised state of the country. I hope that Municipalika will offer a unique opportunity to its participants to showcase and source technologies, innovations, products and services, further to State Government's mission of affordable housing and smart sustainable, cleaner and greener cities. I extend my warm wishes to the organisers and all participants and wish the conference a grand success.

DEVENDRA FADNAVIS - Erstwhile Chief Minister Government of Maharashtra



I am glad to know that Municipalika gives priority attention to the key areas to make cities self-sufficient, sustainable, smart and vibrant through Swachh Bharat Mission, 100 Smart Cities Mission, Housing for all by 2022, 500 AMRUT Cities and HRIDAY. On the housing front, the enactment of RERA and major reduction in interest rates for different segments of affordable housing will give a major fillip. I do hope that policymakers and city managers across the country will richly contribute to and benefit from the same.

M VENKAI AH NAIDU - Vice President, Government of India



Municipalika has a great role in bringing together various stakeholders like city managers, domain experts, consultants, government bodies for exchange of best practices for developing our urban spaces. It has been a pleasure to participate in this event.

MAHENDRA JAIN - IAS, Additional Chief Secretary, Government of Karnataka



I am happy and confident that at Municipalika 2018, officials and delegates from the host state as well as all the other states will benefit from the strategies, technologies and solutions that will be discussed, displayed and demonstrated.

HARDEEP S PURI - Minister of State (I/C), Housing and Urban Affairs, Government of India



We are happy to have extended our support to Municipalika for last many years. I hope Municipalika 2018 will garner wider participation from all the urban stakeholders from across the country who will get a lot of solutions to urban and housing challenges.

DURGA SHANKAR MISHRA - Secretary, Ministry of Housing and Urban Affairs, Government of India



GLIMPSES OF THE SHOW



ARUN KUMAR MISHRA
SECRETARY
MINISTRY OF HOUSING & URBAN POVERTY ALLEVIATION, GOVERNMENT OF INDIA



DURGA SHANKAR MISHRA
ADDITIONAL SECRETARY
MINISTRY OF URBAN DEVELOPMENT, GOVERNMENT OF INDIA



RAJPAL SINGH SHEKHAWAT
HON'BLE MINISTER OF URBAN DEVELOPMENT AND HOUSING, GOVERNMENT OF RAJASTHAN



DR K V PRATAP
ECONOMIC ADVISOR, MINISTRY OF URBAN DEVELOPMENT
GOVERNMENT OF INDIA



DR SUDHIR KRISHNA
SECRETARY, MINISTRY OF URBAN DEVELOPMENT
GOVERNMENT OF INDIA



S. SURESH KUMAR
HON'BLE MINISTER OF URBAN DEVELOPMENT, MUNICIPALITIES,
LAW & PARLIAMENTARY AFFAIRS, GOVERNMENT OF KARNATAKA



MAHENDRA JAIN, ISA
ADDITIONAL CHIEF SECRETARY, URBAN DEVELOPMENT
DEPARTMENT, GOVERNMENT OF KARNATAKA



B R BHATTACHARYA



R ROSHAN BAIG
MINISTER
URBAN DEVELOPMENT AND HAJ, GOVERNMENT OF KARNATAKA



GR ALORIA
ADDITIONAL CHIEF SECRETARY, URBAN DEVELOPMENT &
URBAN HOUSING, GOVERNMENT OF GUJARAT



BABULAL GAUR
FORMER CHIEF MINISTER OF MADHYA PRADESH



PRADIP NARAYAN GHOSH

GLIMPSES OF THE SHOW



SMART CITY BHOPAL PAVILION.



GOVERNMENT OF RAJASTHAN PAVILION.



URBAN DEVELOPMENT DEPARTMENT & GUWAHATI DEVELOPMENT DEPARTMENT OF ASSAM PAVILION.



MUNICIPAL CORPORATION OF GREATER MUMBAI.

AJMER MUNICIPAL CORPORATION PAVILION.



KANPUR SMART CITY PAVILION.



MUNICIPAL CORPORATION OF GURUGRAM PAVILION.



JAIPUR MUNICIPAL CORPORATION PAVILION.



JAIPUR DEVELOPMENT AUTHORITY PAVILION.



VIJAYAWADA MUNICIPAL CORPORATION PAVILION.

MUNICIPALIKA: 2018 STATISTICS

VISITOR STATISTICS

5925
Total Visitors

5215
Private

625
Government

85
Media

TRADE VISITORS

1752
CEO, MD, President, VP

1165
GM, AGM, Managers

1680
Engineers
Consultants

618
Architects, Interior
Designers

GOVERNMENT VISITORS

91
Mayor, Chairperson

20
Corporators / Councillors

220
Principal Sec, Sec, MD,
Hod

37
Consultants & Interior
Designers

32
Architects

116
Engineers

21
Town Planners

88
Commissioner, CEOs

EXHIBITOR DATA

200+
Total Exhibitors

The Exhibition showcases various modern technologies, and solutions for urban development. The scope ranges from water and wastewater management, solid waste management and recycling, cleaning technologies and conservancy, environment protection, pollution control, sustainability, urban infrastructure development, safety, security, disaster management, urban transportation and traffic management, urban E-governance and IT solutions, construction to building technologies, etc.

DIFFERENT EXHIBITOR CATEGORIES





SMART CITIES

Municipalika is dedicated to enabling cities in identifying innovation for the urban built environment and utilising digital intelligence to ensure a good quality of life. It promotes social innovation, establishes partnerships and identifies business opportunities. Municipalika is a unique meeting point for the entire smart city ecosystem. The event is based around the values of social inclusion, sustainability and empowerment and is dedicated to promoting awareness, understanding and critical reflection on the smart urban revolution.

THE INDIAN CONTEXT

Smart and sustainable living has been at the epicentre of envisioning green cities ever since the launch of the 'Smart City Mission' in 2015. The 20 Smart City Project has seen massive growth, with the worth of projects completed reaching INR

79,780 crore in February 2019 from INR 19,041 crore in January 2018. With various states like Andhra Pradesh and West Bengal building sustainable cities, the scope for smart and sustainable city development is looking more promising than ever before.

As Indian cities grow smarter, they become more livable and more responsive. Finding the insights helps municipal governments respond to fluid situations, allocate resources wisely and plan for the future. Access to real-time information helps companies to make informed decisions and play a more active role in shaping the city's overall performance.



CONFERENCE THEMES:

- Sustainable & Progressive Cities
- Digital Cities, E-governance Roadmap
- Geo-spatial solutions for Urban Planning
- Green Cities-Energy, Environment & Ecology

SPEAKERS:

The Smart Cities Conclave has participation from several Smart City CEOs, industry experts and technology providers - dealing with challenges and opportunities arising out of the Smart Cities Mission. The 2018 session was chaired by Kunal Kumar, National Mission Director, Smart Cities mission.

KUNAL KUMAR
National Mission Director,
National Smart Cities Mission

KAREN SHWARTZ
Associate Vice President,
Carleton University Canada

R SRINIVAS
Town and Country Planner
Head, Metropolitan & Union Territories
Division, TCPO

HRYDAL DAMANI
Associate Director, CRISIL

GAUTAM AHUJA
Associate Director, IoT Sales
TATA Communications

J NIVAS
CEO, Vijaywada Smart City

URBAN MOBILITY

The rapid pace of urbanisation directly impacts the volume of passengers and freight in urban spaces. Urban mobility is currently in its fourth phase, which is unfolding at varying paces all around the world. The era of integrated urban mobility has seen a rise in ride-sharing and cab-hailing services, changing the way people move across the transport network.

Municipalika is the meeting ground for Traffic, Road Department and Consultants, GIS, GPS and ICT Professionals, Builders and Construction Entities, Central, State, City and Regional Authorities, industry experts and innovators to develop business connections, discuss use cases and engage in networking among peers to ensure well-integrated urban mobility systems for a better connected urban India.

THE INDIAN CONTEXT

In India, 12 million people are added to the workforce every year. With the population density

set to increase by 22% by 2030, the country needs a public transport system that matches the demand and is self-sustaining in terms of revenue generation. The Indian government is already planning to restructure the National Highways Programme, investing in projects such as industrial corridors, DFC, Bharatmala, Sagarmala and UDAN schemes, etc. Budget 2019 has given a massive impetus to connectivity and infrastructure. Urban transportation needs service providers who can improve connectivity in Indian cities through technological innovations.

"A platform to get together and make it possible for us to think more about our urban mobility problems, solutions and what cities can do to bring about improvement."

- **Dr. M Ramachandran**, Former Secretary, Urban Development, Government of India; Chairman, Indian Heritage Cities Network Foundation



CONFERENCE THEMES

- A paradigm shift in Urban Mobility with Effective Public Transportation
- Transport and Traffic
- Infrastructure and Parking
- Non-Motorised development and Walkability
- EV cars and Buses
- Transit-oriented Development
- Technology-led transport services
- Safety and Traffic Management Technologies

SPEAKERS:

DR. M. RAMACHANDRAN
Former Secretary, Urban Development, Govt. of India

DLN MURTHY
Chief, Transport and Communications Division, MMRDA

NARSING RAO PYRASANI
Founder Director, UDRI

SANJAY BHATIA
TATA Motors Electric Buses

NITIN MUNOT
Director, Technocrats Kohlauer Infrastructure, Widemar Spruijt, ISU

VIJAY SALUJA
Former Chief Engineer

D. DHANURAJ
CPPR





DIGITAL CITIES

With the global urban population estimated to grow by 75 per cent to reach 6.3 billion by 2050, the need for building all-inclusive, self-sustaining urban environment is a top priority among nations. However, digital cities are a product of multiple factors including city governments, city service providers, residents, private stakeholders, innovators and others. Digital cities utilise the best of cutting-edge technology along with city data to create a safe, optimised surroundings for the maximum fruitful utilisation of resources without wastage.

THE INDIAN CONTEXT

Over 9 crore urban residents will be influenced under the Government's digital and smart cities mission. But realising digital cities requires a confluence of IT, telecommunication, building management systems, use of geo-spatial devices for a range of development activities at the building and city level. In India, disaster prediction and mitigation including both manmade and natural calamities is also a major component of building self-sustaining cities.

The session on Digital Cities and Geo-Spatial solutions for Urban Planning included a vast range of presentations on the use of IT, telecommunication, building management systems, use of geo-spatial devices for a range of development activities at the building and city level, prioritizing projects based on the hazard and vulnerability risk assessments of settlements. Disaster mitigation

CONFERENCE THEMES:

- Digital Cities, E-Governance Roadmap
- E-Governance: Solutions for Municipal Services
- City Communications
- Geo-Spatial Solutions for Urban Planning
- Innovative use of GIS-GPS in City Management
- Infrastructure design using geo-spatial technology

SPEAKERS:

A K MITTAL
Convener, Group 4 NBC IT

SATISH JAYANTHI
NRSC

GOVIND SINGH CHAUHAN
Executive Director Business Development
ABM Knowledgeware

NIRAJ PRAKASH
Senior Director – Solution Engineering Oracle

PAWAN KUMAR
Town Planner, TCPO

ABHIJIT EKBOTE
AKAH

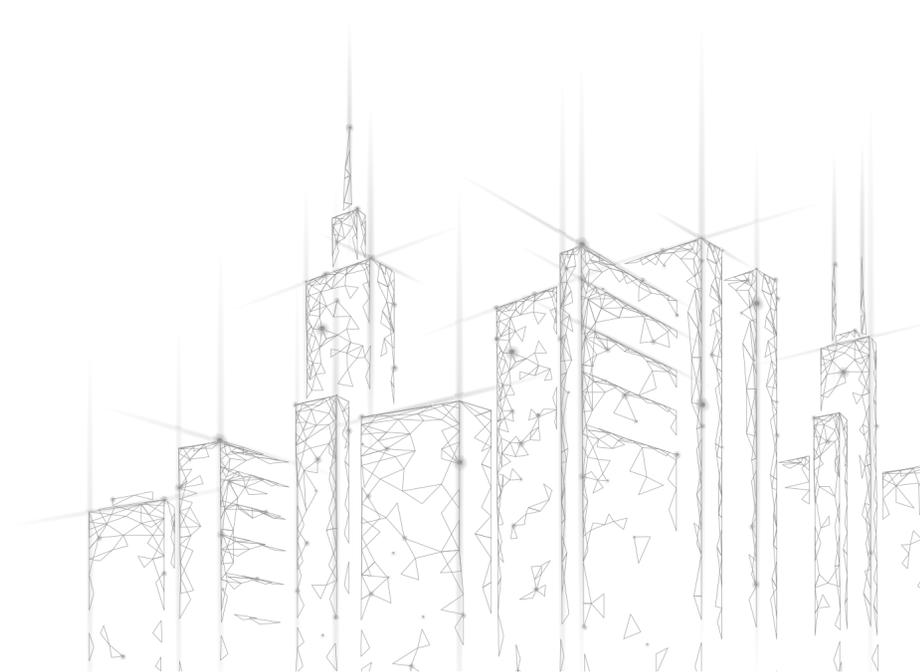
DR. G.P GANAPATHY
Professor and Director, Center for Disaster
Mitigation and Management, VIT

PRADEEP THOMAS
Division Head – Presales Consulting, Esri India
Technologies Ltd

RUCHIK VOHRA
Director, Superwise Solutions

RAVI CHOPRA
GIS Consultant for Smart Cities, Wipro India

MANUKRISHNA NAIR
Independent consultant



RESILIENT & SAFE CITIES

According to the UN, 55 per cent of the global population resides in cities and this figure is estimated to reach 68 per cent by 2050. Low income group dwellers across 49 countries will be prone to fatal urban hazards by 2030. Global losses to disasters and unsafe living conditions will surmount to USD 415 billion at the same time.

Ensuring the well being of urban dwellers lies at the base of safe and resilient cities. However, constant unmonitored migration to urban areas poses a set of challenges in ensuring safe living in cities. Environmental pollution, lack of proper infrastructure, overuse of natural resources natural and manmade disasters and unequal division of wealth are some of the top factors impacting modern cities.

In order to address the concern of unsafe living conditions in cities, Municipalika brings together stakeholders in the framework of Natural Disaster Management, Fire and Public Safety and local governments on one platform to help build safe and resilient cities.

THE INDIAN CONTEXT

In a country as populous as India, building urban resilience is of prime importance. Research shows

the East and Southeast Asian parts of the world are susceptible to a host of natural disasters. Most coastal cities stand the risk of submersion due to rising sea levels. 45 million people, including those residing in Mumbai and Chennai have already suffered loss of livelihoods, homes and much more in 2017. India is also one of the most fire hazard prone nations worldwide.

"I am very happy to come here as an NGO participating in Municipalika, a wonderful forum mixing the public and the private sector by getting policy makers and thinkers in one forum."

- Onno Ruhl, Global Head | Aga Khan Agency for Habitat

"Municipalika is a very well-organized event. It has covered all the aspects of the built environment. Both the conference sessions and the exhibitions were very encouraging and enlightening."

- Harinder Saroup Dogra, Chairman | Bureau of Indian Standards

CONFERENCE THEMES

- Disaster Mitigation and Management
- Community based Security Support Systems
- Policing, Surveillance, Command and Control Centres
- City Fire Safety and Protection Capabilities of cities
- National Building Code of India 2016 on Fire & Safety

SPEAKERS

DR. VINOD MENON
Former Member, NDMA

SURESH MENON
On behalf of National President
Fire & Security Association of India (FSAI)

SANTHOSH S. WARICK
Chief Fire Officer & Fire Advisor
MIDC Fire Services

R.A.VENKITACHALAM
Advisor, Center for Safety Engineering, IIT
Gandhinagar

SANJAY PANT
Scientist/Director & Head of the Civil
Engineering Department, Bureau of Indian
Standards (BIS)

DR. AMOD MANI DIXIT
Executive Director, National Society for
Earthquake Technology - Nepal

LUBAINA RANGWALA
Managing Associate, Resilience Cell, WRI

TIKENDER SINGH PANWAR
Former Deputy Mayor of Shimla, All India
Urban Forum

SUREKHA GHOGALE
CEO, Aga Khan Agency for Habitat

DR. G.P GANAPATHY
Professor and Director, Center for Disaster
Mitigation and Management, VIT

S K DHERI
Convener, National Building Code of India



GOVERNANCE & FINANCIAL STABILITY

As cities evolve, the governments around the world need to keep pace with these changes. Efficiency gains in public administrative systems can fast-track processes, improve the transparency of systems, increase participation and fight corruption. Technology is a big enabler in improving existing administrative processes. Innovations such as Blockchain offer a non-manipulable and accessible platform to provide more agile governance.

However, the idea is to carefully implement new technologies, in a manner that is eco-friendly. Smart governances set a global standard to adhere to and adopt best practises in implementation. Good Urban Governance is based on two pillars: good institutional framework and an enabling regulatory framework.

THE INDIAN CONTEXT

With improved focus on developing urban infrastructure in the country, India is attracting key global players and in turn, foreign investments. For India to fulfil its dream of sustainable development, at least INR 50 trillion must be invested. Thankfully, initiatives like Housing for All, Pradhan Mantri Awas Yojna (PMAY), Smart City Mission and others have already triggered interest and attracted investment in infrastructure, construction and innovation. The construction development sector has attracted a Foreign Direct Investment (FDI) of USD 25.05 billion as of March 2019.

CONFERENCE THEMES

- Provisions in Building Regulations, Development Control Rules and Codes to permit innovative options
- National Building Code 2016 Review
- Safe construction and Quality Standards
- Ease of doing business and Speedy Approvals

"A great opportunity to attend impressive exhibition, conference and dynamic sessions promoting good urban governance. Municipalika has a very strong foundation and I wish the organisers good luck for their future editions."

- R K Vijayvergia, Senior Town Planner, Directorate of Urban Administration, Government of Rajasthan- 2017

"Municipalika conference is leading to ideas which can be implemented throughout the country. A platform for knowledge-sharing, experience-sharing, sharing of best national and international practices demonstrating different technologies in the urban governance sector."

- G R Aloria, IAS, Additional Chief Secretary, Urban Development and Urban Housing, Government of Gujarat- 2014



INNOVATIVE URBAN BUILT ENVIRONMENT

The construction industry is a major contributor to environmental pollution. Data shows that construction activities alone contribute to 35 per cent of the global CO2 emissions. As urban spaces grow in density, there is an urgent need to find the balance between urban built environment and energy consumption. Eco-design for urban built environment with a sharp focus on materials, building components, construction technologies and energy-saving designs, etc. can help create a safe and sustainable built environment.

CAPEX, through its conferences brings to light the latest technologies, innovations and in urban built environment as well as explore use cases of successful implementations.

THE INDIAN CONTEXT

India is all set to become the fifth-largest economy globally with buildings representing 30% of the country's overall energy consumption. However, with efforts being made to conserve energy and define sustainable growth, India is steadily inching towards developing a sustainable built environment. Infrastructural innovations, coupled with innovative technologies can help achieve this goal.

EXHIBITORS

- Zonta infratech pvt ltd
- APL Apollo tubes Ltd
- Chakr innovation
- Getzner India pvt ltd
- Geocarte Radar Technology pvt ltd
- Saint Gobian pvt ltd- glass business
- Armstrong world Industries (I) Pvt Ltd
- Sintex Bapl Ltd
- Shree premix industries
- Technocrat kohlhuer infrastructure
- Beardsell Ltd

"Municipalika is a phenomenal event that brings together visitors from both the government and private sectors to discuss about urban development and related issues. I am glad to be a part of this event and hope that the event keeps growing in the times to come."

Manoj Kumar Soni, Project Director (Housing)
Rajasthan Urban Drinking Water, Sewerage and Infrastructure Development Corp. Ltd. (RUDISCO)



CONFERENCE THEMES:

- Energy Saving Design
- Innovative use of Recycled Materials
- Building Automation
- Light, Ventilation and Air conditioning
- Green Products
- Landscape : So and Hardscape
- Material technology and innovations
- Use of Architectural Concrete
- Scaffolding and formwork

SPEAKERS:

JOSE KURIAN
Convener, CED2, National Building Code 2016

MOHAN RAMANATHAN
Managing Director, Advanced Construction Technologies Pvt. Ltd.

JEYSON SAMUEL
L&T GeoStructure

GANESH KAMAT
Technical Advisor, Consulting Engineer Architect, Ganaka Engineers Architect

MAJID HASHMI
Managing Director, KMH Engineering

DEVENDRA PANDEY
Ultratech

BALAJI S M
GM Projects, Nippon Paints

RAJESH GOEL
CMD, Hindustan Prefab Ltd.

DEEPAK GAHLOWT
Architect Director, XEBEC, CCPS

SJ VIJAY
Salmon Leap

RAJ PILLAI
MD, Star Worth

JOSE KURIAN
Convener, NBC Concrete

COL. ADSAR
BG Shirke



GREEN CITIES

Urban areas account for 70 per cent of the total greenhouse gas emission globally and contribute to two-thirds of the total energy consumption. Building green cities is the primary step towards achieving sustainable living in urban centres. Investments in sustainable energy and resources have seen an increase of USD 6.72 trillion in recent years. Global leaders are looking at innovative technologies, policies and much more to create future cities.

Municipalika provides a forum for academia, government, civil society, UN agencies and the private sector to come together and share practical solutions to achieve Sustainable Development. It is the annual event for green building professionals worldwide to learn and source cutting edge solutions to improve resilience, sustainability and quality of life in our buildings, cities and communities.

THE INDIAN CONTEXT

In India urban centres and their economies are expected to grow rapidly over the next few decades. Sustainability of the Indian economic growth is threatened by climate change, depleting natural resources and urban energy consumption. But, India is one of the top five nations worldwide

to have invested in renewable energy. India is aiming at a total green energy tendering capacity of 500 Gigawatt. In this regard, US\$ 500 billion will be invested in energy generation, along with another US\$ 250 for grid expansion and adaptability to renewable sources. Achieving the goal of green cities is slowly becoming a reality in places like Nagpur, Lakshadweep, Pondicherry, etc.

EXHIBITORS

- Terracon Ecotech Pvt Ltd
- Archar interiors
- Armstrong world Industries (I) Pvt Ltd
- Bajaj Electrical
- Philips India
- Crompton
- Samudra

"We are proud to be a part of Municipalika as the Green City partner. Municipalika gave us the platform to share the success story of IGBC Green Cities amongst the town planner, city corporations, mayors and commissioners. We are grateful to Municipalika team for organising such an event."

- Dr P C Jain, Chairman,
Indian Green Building Council

CONFERENCE THEMES

- Pollution-Free Cities
- Passive Design for Energy Efficiency
- Green City Ratings
- Energy Efficient Street Lighting

SPEAKERS

JAYESH HARYANI
Co-chair, IGBC Ahmedabad Chapter, IGBC

M ANAND
Deputy Executive Director, IGBC

SWATI SINGH SAMBYAL
Program Manager, Centre for Science and Environment

DR. SUJATA GOVADA
MD/CEO, UDP International

BHARTI SINGLA
Director, Chakr Innovations

AJAY PODDAR
MD, Enviroics

SHAKTI LEEKHA
Senior GM, Head - Marketing
Bajaj Electricals

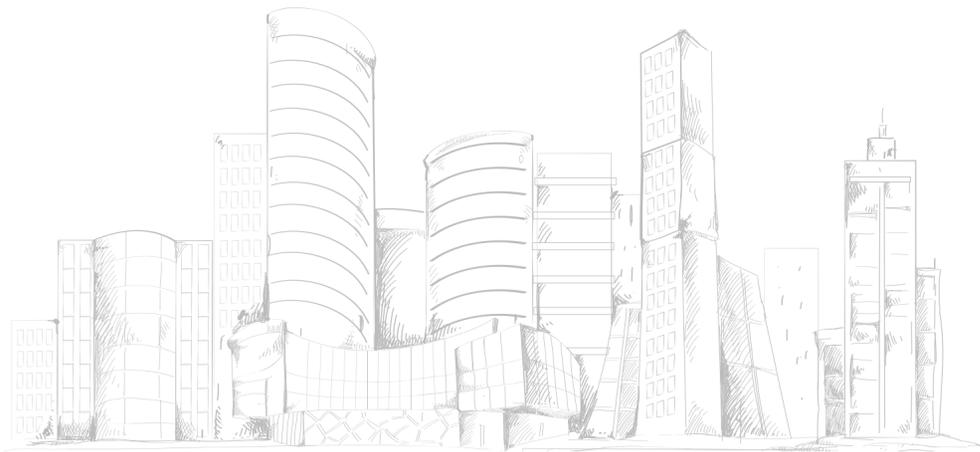
SACHIN PUKALE
Product Management for Smart Cities and Utilities, TATA Communications

DR. V RAMACHANDRA
Ultratech

SANJAY GOEL
Director, Smart City of Ludhiana

ASHOK JAIN
Managing Director, Terracon Ecotech

PROF. NARAN PINDORIYA
IIT Gandhinagar



SANITATION, SOLID WASTE MANAGEMENT & RECYCLING

Safe sanitation and proper solid waste management is very crucial to urban wellbeing since it influences public health as well as environmental pollution. Lack of proper sanitation and improper solid waste management can pollute surface as well groundwater, posing further threat to settlements.

Municipalika's conference on Waste Management is designed for service providers and investors across the environmental services industry. Operators dealing in the waste management, e-waste, recycling and solid waste management services business as well as municipal authorities, equity firms, national urban development agencies and others take part.

THE INDIAN CONTEXT

In India, 960 million tons of solid waste is generated. 350 million ton comes from agricultural sector, 290 million ton is inorganic in nature and at least 4.5 million ton hazardous. Out of this, 62 million ton is municipal solid waste. That may seem like a small fraction compared to the total amount of waste generated. However, only 43 million ton of municipal waste is collected while only 11.9 million ton is treated. The rest is dumped haphazardly in landfills.

Providing proper sanitation facilities in slum areas is imperative in ensuring a safe living environment. In addition, solid waste management processes will generate employment opportunities. There is immense potential for improving and innovating the segregation and treatment of solid waste in urban areas.

EXHIBITORS

- Tata Motors
- Mahindra & Mahindra Alfatherm
- Radonatura
- Solwaerth
- Belmaks Pvt Ltd
- Borkar Polymer
- Samki Group(DD Global)
- Greenrich Grow India Pvt Ltd
- Karcher Cleaning Systems Pvt Ltd
- Solwearth Ecotech Pvt Ltd
- Excel industries
- Organic Recycling Systems (P) Ltd
- Vega Aviation Products Pvt Ltd
- Sadhana Enviro Engineering Services
- Aruna Green Ventures
- Everlast Composites
- Ensol Multi Clean



CONFERENCE THEMES:

- Collection, Segregation and Transport
- Waste to Energy
- Composting and RDF
- Waste management of e-Waste,
- CND waste, bio-medical waste

SPEAKERS:

V. K. CHAURASIA

Advisor in Charge, CPHEEO

DR. R. AJAYAKUMAR VARMA

Executive Director, Suchitwa Mission

SURAJ NANDAKUMAR

Director, ReCITY

MOHAN RAMANATHAN

Managing Director, ACT

MAYURI SISODIA

Architect, Mad(e) in Mumbai

DR. SHRIKAR DOLE

Founder & CEO - SDG Foundation, Member of Global Compact Network India

MIREK BYCZYNSKI

Founder and Director, Challenger Sweepers



WATER & WASTE-WATER



Municipalika is dedicated to identifying crises in urban development-focused human water needs and its greater impact on the environment. It seeks to address the pressing issue of water scarcity through efficient water conservation and wastewater management. Municipalika is a unique meeting point for the water and wastewater consultants, experts, municipal water authorities, etc. to discuss and tackle the problem of 'water gap'. A set of measures to boost efficiency, augment supply, or lessen the water-intensity of the economy must be considered to prevent water crisis in future.

THE INDIAN CONTEXT

India ranks 120th out of 122 countries in global water quality index. Even though 85 per cent of India's cities have access to drinking water, only 20% of water meets health and safety standards, according to the Niti Aayog report. As much as 70 per cent of water in India is contaminated and has high levels of salinity and heavy contaminants such as fluoride, iron, arsenic, chromium and manganese.

Efforts are being made to address the concern of water scarcity and contamination in India. The Union Budget of 2019-20 has allocated INR 9,150.36 crore for National Rural Drinking Water Programme as a part

of National Rural Drinking Water Mission with a sharp focus on rainwater harvesting, groundwater recharge and wastewater management. INR 8245.25 crore has been allocated to the Department of Water Resources, River Development, and Ganga Rejuvenation.

EXHIBITORS

- American Water Works
- Amiad Filtration Systems (I) Pvt Ltd

"Our experience in Municipalika was really great and we received a lot of footfalls in the three days. With stakeholders interested in knowing what we are doing and also what change this mission can bring in the urban space."

- L.I. Madhava Kumar, Sr Economic Financial Analysis Specialist, National Mission for Clean Ganga



CONFERENCE THEMES:

- Water Supply, Treatment and Distribution
- Water Metering Technologies
- Waste Water Recycling
- Ground Water and River Rejuvenation
- Arsenic, Fluoride and Salinity issues
- Reduction of T&D losses and NRW

SPEAKERS:

ROZY AGARWAL
Executive Director, Finance
National Mission for Clean Ganga

RK VIJAYVARGIA
Addl. Chief Town Planner, RUDSICO

SK GOYAL
Project Director (UI), RUDSICO, Local Self-Government Department

NIRAV SARAIYA
Partner, N.S & B Associates

JAYESH MANDLIK
Consultant Water Division, Bluegreen Consultants

V. K. CHAURASIA
Advisor in Charge, CPHEEO

M N ASHISH GANJU
Architect, GREHA

URBAN HOUSING

Access to clean, safe and affordable housing is fundamental to the health and wellbeing of urban residents. Yet, urban housing is in dire straits worldwide. Current trends in urban migration and income growth predict that by 2025, approximately 440 million urban households around the world will be crowded, inadequate, unsafe or financially stretched.

Backed by the experience of 15 years, Municipalika provides a platform for key stakeholders to come together to discuss, partner, learn and improve the lives of the people housed in urban India. Some thrust areas include affordability, business transformation, leadership, technology, offsite construction, placemaking, fire safety, finance, politics and of course, housing management and welfare reform.

Municipalika is the must-attend event for local authorities, housing associations, key partners and suppliers, government, housebuilders and

developers. It brings the sector together to drive forward collectively.

THE INDIAN CONTEXT

Uncharted urbanisation, supplemented by increased migration from villages to cities invariably leads to a housing crisis. An estimated 900 million people will inhabit Indian cities by 2050. There is a massive urban housing crisis plaguing India, especially with most homeless people belonging to the Economically Weaker Section (EWS) and Low Income Group (LIG) category. However, with schemes like Pradhan Mantri Awas Yojna (PMAY), a lot of reform is underway. Under PMAY, the grant for 1.17 lakh houses have been approved. The Affordable Housing in Partnership Scheme (AHP) has an additional 25,407 units in the pipeline. That said, only 58 per cent of these houses have reached completion and a lot remains to be explored in future.

CONFERENCE THEMES

- 50 million homes by 2022
- Mortgage and Project Financing options
- Affordable and Good Quality
- Housing for All
- Credit-linked subsidy
- Micro-finance

SPEAKERS:
MN ASHISH GANJU
Architect, GREHA

BINU FRANCIS
Director, Kudumbashree

JAYASHREE KURUP
Head-Content & Advice, Magicbricks

CA RAMESH PRABHU
Chairman, Maharashtra Societies Welfare Association (MSWA)

SANJEEV JAIN
SE, MDDA

PROF. PSN RAO
Director, SPA

N.S. GANESH
CEO, Habitat for Humanity

SANJAY VARSHNEY
Executive Director, Signature Global

PREM NATH
Architect, Premnath Associates

GSV RAMU
International Housing Finance Consultant



GLIMPSES OF THE SHOW



A PANELLIST ADDRESSES THE SHOW ATTENDEES.



CANADA PAVILION.



ZONTA PAVILION.



A DIGNITARY ADDRESSES THE ATTENDEES.



ATTENDEES AT A KNOWLEDGE SESSION.



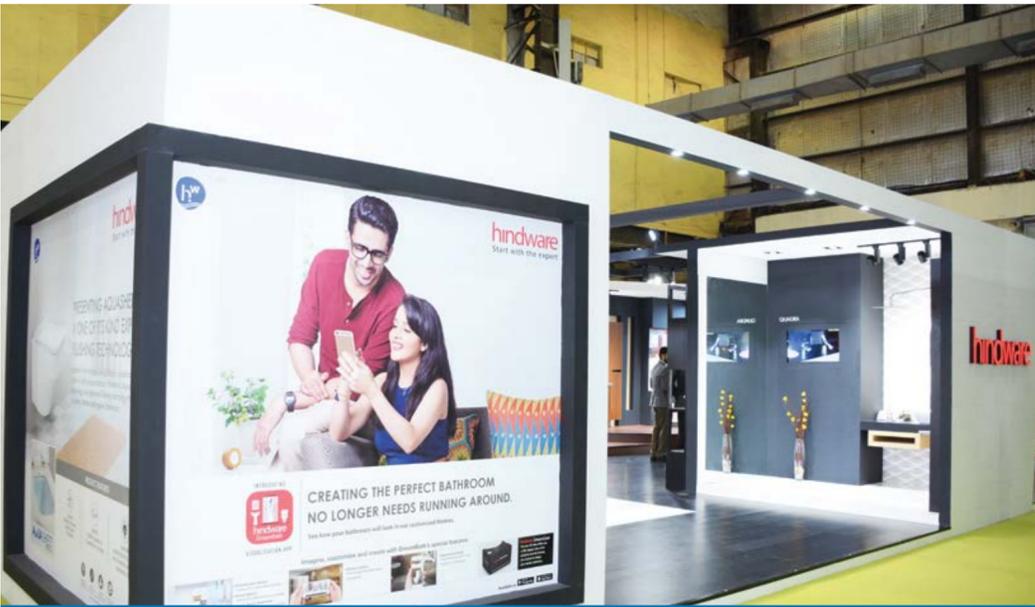
EXHIBITORS AT THE SHOW.



BUSINESS INTERACTIONS UNDERWAY AT THE SHOW.



ATTENDEES AT A KNOWLEDGE SESSION.



HINDWARE PAVILION.



SINTEX PAVILION.

GLIMPSES OF THE SHOW



GUESTS ALONG WITH SANJIV AGARWAL, CEO, FAIRFEST MEDIA AND V SURESH, PRESIDENT, GOOD GOVERNANCE INDIA FOUNDATION AT THE INAUGURATION CEREMONY.



BUSINESS MEETINGS UNDERWAY ON THE SHOW FLOOR.



BUSINESS INTERACTIONS UNDERWAY AT THE SHOW.



EXHIBITORS AT THE SHOW.



CONFERENCE SESSION AT THE SHOW.



CONFERENCE SESSION AT THE SHOW.

GLIMPSES FROM THE CONFERENCE.



ATTENDEES RAPT IN ATTENTION AT A SESSION.



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Q&A UNDERWAY AT THE SHOW.

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ARCHITECTURE
IN THE AGE OF MILLENNIALS

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