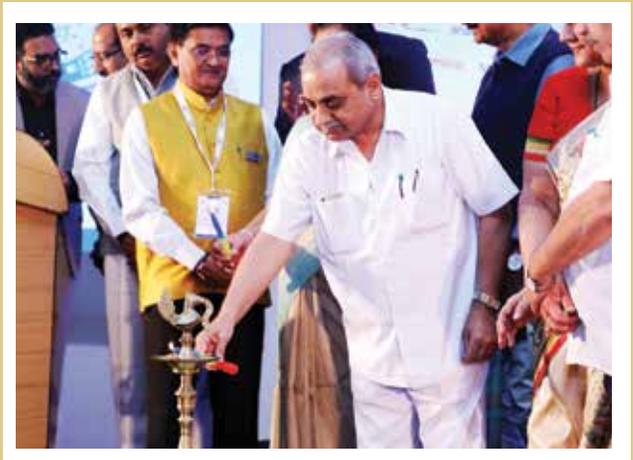


CONFERENCE REPORT



Surat Municipal Corporation in association with Elets Technomedia Pvt. Ltd. had organised an event titled 'Surat Smart City Summit' on November 24-25, 2016. It was inaugurated by Gujarat Chief Minister Nitin Bhai Patel. Highlights of the two-day programme, participated by various policy makers, industry leaders, and luminaries of related fields from Gujarat and different parts of the country, included discussions on various key issues during brain-storming sessions such as "Changing the urban development scenarios in smart cities", and "Importance of technology and eGovernance and smart solutions for a smart city ecosystem".





A new wave of development has started since Prime Minister Narendra Modi came into power. Earlier, there used to be no discussion on the development schemes. Today, the world is utilising the resources, the human strength, the power and the collective mindset of Indians.

Today, migrants are coming from different parts of the country to settle in Gujarat owing to its better infrastructure and facilities. It is our responsibility to provide more and better facilities to the citizens of our state. I am proud to say when Narendra Modi was the Chief Minister of Gujarat, he had a great vision for the urbanisation of the cities so that the citizens do not become unclean and unhealthy.

He started many schemes for cities like Vajpayee Nagar Vikas Yojana. He has decided that by 2020 no Indian citizen will remain homeless. A large amount has been given for the water project. If we want to stand up in front of the world, we need to provide more infrastructure. We have to make our administration powerful.

CHIEF GUEST

SHRI **NITIN BHAI PATEL** DEPUTY CHIEF MINISTER, GUJARAT





SMART CITIES MISSION IN GUJARAT



- **The Surat** Municipal Corporation is committed to make this diamond hub a dynamic brand.
- **The corporation** intends to develop a beautiful, self-reliant and sustainable city to provide all basic amenities for a better quality of life.

ASHMITABEN SHIROYA
Mayor,
Surat Municipal Corporation



- **We are** committed to enhance the startup environment in India.
- **A commitment** was made by the Uber founder Travis Kalanick that we will be mentoring many start ups.
- **Uber alone** has mentored as many as 90 startups this year. We are also looking at funding many of those.

SHWETA RAJPAL KOHLI
Public Policy Head,
UBER India



- **The Government** of Gujarat has approved four smart cities project namely Ahmedabad, Surat, Vadodara and Rajkot.
- **Surat Municipal** Corporation aims to provide speedy services through ICT.
- **Surat has** proposed ₹ 2,600 crore project, spreading across various projects like Surat Money, 24x7 water supply, Wi-Fi city, housing for the poor and smart transportation.

M THENNARASAN
Commissioner,
Surat Municipal Corporation



- **Bank of Baroda** is India's international bank catering to various financial spectrums, asset management, capital market, security services, deep financial services inclusion.
- **We have** 24.33 million accounts with a total value of ₹ 5,577 crore.
- **We are** leading the bank through IT initiatives for next century with new products and services, new delivery channels and global best practices.

A K CHUGH
Deputy Zonal Head,
Bank of Baroda, Gujarat





URBAN LOCAL BODIES & SPVS: DRIVING SMART CITY MISSION



- **There must** be a provision for sustainable infrastructure in the cities for development.
- **Civic bodies** should provide more parking space. We can have multiple parking lots. In commercial areas, civic bodies should provide parking.
- **In smart** cities, there should be a centre where all business services are provided.
- **There must** be a centre where all the data, all the services, all the information can be provided.



B S AGARWAL

President, Southern Gujarat Chamber of Commerce and Industry

INDUSTRY PRESENTATION

- **We create** infrastructure which is technology neutral and futuristic.
- **We have** 30,000 people across India who provides 24 X7 service to villages.
- **We are** serving Surat for past 10 years and have covered 95 % of the city in terms of coverage.



NISHITH DAVE

Circle CEO
Gujarat, Indus Towers



- **Dehradun Municipal** Corporation has started solid waste management in 2011.
- **We have** made a SPV (Special Purpose Vehicle) in 2011 for the execution of the said project.
- **We have** established this project for 15 years.
- **It's very** important to establish SPV for local bodies in terms of financial resources, resource mobilisation, execution and operations of the project.

RAMESH SINGH CHAUHAN

Nodal Officer-Smart Cities
Dehradun Municipal Corporation



- **Through a** smart city portfolio, Nokia delivers products, tools and services for city devices and sensors, city wide access for application and city cloud architecture, IoT and data correction analytics.
- **Each large** city of Gujarat should probably think of this model way. So that they can engage universities, academia, the local corporations and the private corporations.

RAVI GULATI

Head
Digital India & Smart Cities, Nokia





- **You need** to enable and train your administration staff for Smart City.
- **Water, surveillance** system, energy management system, transportation system should come on a single platform where data aggregation can happen.

VIKAS HOODA
Business Development and Solutions Lead, Future Cities and IOT, Hewlett Packard Enterprise



- **We have** developed a Bharat Banking App for places where technology is not available.
- **Through this** app we ensure that the citizens are connected through Bharat Banking app.
- **Our twitter** banking is very popular amongst the crowd.
- **We have** Hashtag banking.
- **K Pay** is a facility which enables us to send money bank to bank.

V SWAMINATHAN
Senior Executive Vice President Kotak Mahindra Bank Limited

PANEL DISCUSSION



- **Life will** be easy only if you have data in an open format.
- **All the** smart city planners should keep in mind that the data is being used and will be used for sustainability.

ALKA MISRA
Senior Technical Director, Open Government Data Platform, National Portal of India



- **As a** technology company we come as an interface to make it happen for the implementation of the projects.
- **The purpose** of public sector unit is to make things happen i.e. build architecture, provide services to all the government mandate.
- **We are** available. If you have a niche technology which nobody has it becomes easier for us to make you our partner and to that technology to any government department.

GEORGE KURUVILLA
Chairman & Managing Director, Broadcast Engineering Consultants India Ltd (BECIL)





ENSURING SAFE SECURE AND RESILIENT CITIES AND INFRASTRUCTURE WITH THE HELP OF MODERN DAY TECHNOLOGIES



- **We can** transfer any data through fibre technology.
- **Before making** any city safe and smart, we should convert the city through fibre highway so that we can make a strong network backbone for our IT solutions.
- **I strongly** believe that our nation should adapt to this fibre technology so that we can apply smart city solutions easily.

RAJENDRA N SHETH
Chairman & Managing Director,
RK Infratel



- **Data fabric** is NetApp's architecture for hybrid cloud.
- **While we** are leveraging the benefits of the cloud we are still able to use the data safely and manage it.
- **Cloud will** have a certain role to play on smart cities

MANOJ AGARWAL
Business Manager,
NetApp

INDUSTRY PRESENTATION



- **A city** needs to be instrumented, interconnected and intelligent.
- **All of us** are working to get solutions to make the city instrumented.
- **IBM Intelligent** Operations system has been implemented to five key smart city solutions of Gujarat.
- **It's a** smart platform to bring all the utilities from the city together and plan for any eventualities.

SRIVATS P KAMISETTY
Director-Partner-Smart Cities,
IBM

- **Our goal** is to reach 10,000 cities across the world.
- **Shock and** stresses can bring opportunities for cities to evolve, and in some circumstances, transform.
- **A data** centre is good but what about the flooding? We have to think about it together. We have to be smart and resilient together.

SAURABH GAIDHANI
Program Manager,
Asia-Pacific, Singapore, 100 RC





- **We need** to protect our structures coming down altogether and holding structural integrity and having a good performance for the rest of their life.
- **To prevent** the structure falling down, we should go with the option of fibres.
- **Steel bar** or steel mesh will not help you if you have a seismic activity.
- **For multi** stories we can have partial replacements because it makes the structure lighter. The total dead weight of your structure will actually reduce.

DEEPALI MAHTO

Business Development Manager
India, Low and Bonar



- **A financial** system should be sustainable for smart cities.
- **There is** a need for reformation in a citizen's mind and then only the smart people will be able to use the smart technology.
- **The new** way of financial instruments are needed to finance long term projects.
- **We will** build ecosystem platform for smart cities.

SV HARDIKAR

Regional Head,
Bank of Baroda



BUILDING SMART CITIES: CHANGING THE URBAN DEVELOPMENT SCENARIO



- **We have** set up an investment facilitation cell at Udyog Bhavan, Gandhinagar.
- **We have** set up a helpline which works during the office hours where anybody can call.
- **We have** technical and administrative staff to assist people.
- **We organised** a seminar on ease of doing business in Vibrant Gujarat event.

RN RAVAL

Joint Commissioner
Industries (MSME)

- **We need** to be extremely careful about how we plan and design our smart cities.
- **Smart cities** give an adequate opportunity not only to Urban Development Ministry but also to the Ministry of HRD including UGC to see how smart cities can better help in addressing the needs of their end user.



JYOTIRAJ PATRA

Senior Evidence Advisor
South Asia, ESPA, British High Commission



- **Aadhaar will** serve an important role in e-commerce industry and in smart city ecosystem.
- **Lucknow is** issuing Aadhar-enabled marriage certificates.
- **Digital life** certificates are already in place since the last two years.
- **Aadhaar has** enabled pensioners to get pension digitally.
- **Aadhaar enabled** e-sign enables people to use it in income tax return.

PRASHANT SINGH

Assist Director General,
UIDAI Mumbai





IMPORTANCE OF TECHNOLOGY AND EGOVERNANCE & SMART SOLUTIONS FOR THE SMART CITY ECOSYSTEM



SPECIAL PRESENTATION ON SMART SOLUTIONS FOR SMART CITIES



- **Bhopal requires** a centralised Command Centre.
- **Call centre** for fire, water and BMC services can come under the command centre.
- **Parking is** very important for smart cities.
- **Hydraulic parking** can be shifted to another area if required
- **Utility duct** is going to be important in the coming years.

TEJASWI S NAIK
Collector,
Barwani, Madhya Pradesh

- **IBM is** giving consultancy to different corporations where they are helped in the design of their processes through IT.
- **IBM uses** these opportunities to transform these processes and systems.



DEEPTI DUTT
Leader
Govt. & Smart Cities, IBM

INDUSTRY PRESENTATION



- **We are** moving towards cloud.
- **We should** think about deploying best security practices.
- **UPI is** a great initiative taken by NPCI in which they have joined payment systems like RTGS, IMPS, NEFT, ACH.
- **It is** still in its pilot phase with 19 banks implementing it. Going forward, all the wallets will be using only UPI otherwise they might perish.

RUCHIN KUMAR
Business Head – Govt. & Defence,
Gemalto



- **A reliable** data has to be made available to everybody.
- **Education, transport,** health services can be easily provided if you have a proper database.
- **A smart** grid needs to be integrated when planning for a smart city.
- **A lot of** attention needs to be paid to the electrical system. E Charging system needs to be integrated.

PRADIP DAHAKÉ
Managing Director, Gujarat State
Electricity Corporation Limited (GSECL)



- **Democratisation of** governance needs to happen and it is essential that it happens at the local level.
- **Open access** to governance cannot happen if you have end to end closes systems.
- **It is** only possible when everything is democratised by bringing transparency and accountability.



SRINIVAS KODALI
Internet Researcher,
Datameet

- **The cities** seek a better traffic management.
- **Companies will** be forced due to smart city programme to innovate, to think better, to collaborate with each other, to be able to solve the pertinent need of the cities.
- **Technology in** the smart cities are just the enablers.
- **People, public** and private partnership require all these different entities to work together and collaborate to see that the smart cities mission is a success.



NIRAV SHAH
Director,
Government & Public Sector, PwC

SMART TRANSPORTATION: BEST PRACTICES ACROSS INDIA & INTERNATIONAL EXPERIENCE



- **National Urban** Transport Policy recommends for unified metropolitan transport authority in all million plus cities supported by SPV manned by professionals.
- **Well regulated** and integrated public transport systems are needed for smart cities.
- **Various types** of city transport like city bus, taxi services and metro rail etc should operate in proper coordination.
- **Focus on** bus transport system.



GANGA PHAL
Additional Transport Commissioner,
Government of Uttar Pradesh

PANEL DISCUSSION



- **Transportation is** not a technical problem. It is a matter of public policy.
- **Surat will** require 750 km of complete streets which will have great walking, great cycling and good space for public transportation by 2026.
- **Surat will** require 3500 buses and 200 km of rapid transport by 2026.

SHREYA GADIPALLI
Regional Director
Institute of Transportation and
Development Policy



- **By using** cycle instead of a car for 1 km, your energy saving will be doubled.
- **By using** initiatives like G Bike we can save the environment.
- **We have** requested the concerned authorities to allow us to make the cycle track.
- **We have** to have the complete length of bicycle tracks just like the ones for cars because that will inspire citizens to purchase bicycles.

AM SHARMA
CEO,
Gandhinagar Urban Development Authority



SPECIAL PRESENTATION ON SMART COMPONENTS FOR SMART CITIES BY SURAT MUNICIPAL CORPORATION

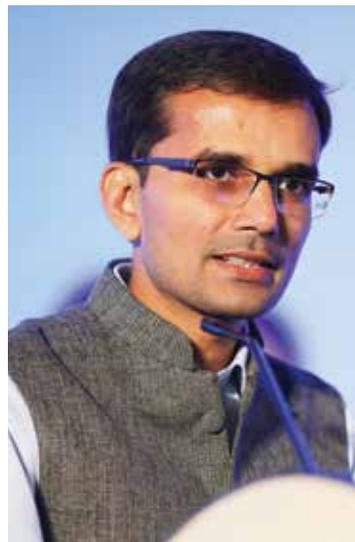
WATER QUALITY AND SMART WATER METER



- **As per** the Ministry of Urban Development, every urban city required to have surface water as the source of water.
- **We have** made provisions to install water supply meters so that all consumers have a tap on water supply and its usage.
- **Since the** city is flood prone we have designed life line water demand system.

NILESH PATEL

Exe. Assistant,
Surat Municipal Corporation



- **Surat Municipality** is the first urban local body to launch mobile app for citizen centric information and service delivery.
- **The Municipality** launched mobile app in August 2013. It has also launched facility of payments and few other features in February 2014.
- **Over 3 Lakh** requests were received during the flood like situation in the month of September 2014.
- **For three** days 20 % of the total complaints were received through mobile app.

DEVANG PATEL

Exe. Assistant, Surat Municipal Corporation -
IT initiatives by SMC

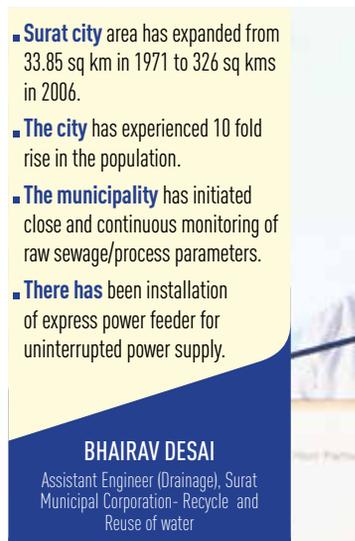
INDUSTRY PRESENTATION



- **It is** important to look into energy conservation services as it is required for the creation of a dedicated "Energy Efficiency Cell"
- **10 %** of the total energy consumption of the smart city must come from the renewable energy sources.
- **Sector wise** energy consumption shows that 8.14 % of energy is consumed for Municipal operations.

M.N. CHAUDHARI

Exe. Engineer (Street Light), Surat Municipal
Corporation - Renewable Energy



- **Surat city** area has expanded from 33.85 sq km in 1971 to 326 sq kms in 2006.
- **The city** has experienced 10 fold rise in the population.
- **The municipality** has initiated close and continuous monitoring of raw sewage/process parameters.
- **There has** been installation of express power feeder for uninterrupted power supply.

BHAIRAV DESAI

Assistant Engineer (Drainage), Surat
Municipal Corporation - Recycle and
Reuse of water





- **Surat Municipal Corporation** has a better urban health service model as compare to many other cities and states of India.
- **Urban Health** and Climate Resilience Center (UHCRC) is promoting attention to the health implications of policies and actions that occur outside the health sector such as in transportation community and economic development, housing, industrialisation, education, public safety and climate.

DR VIKAS DESAI,
Technical Director,
Urban Health and Climate Resilience Center



- **Smart City** can be defined as interaction between human and social capital and ICT infrastructures to achieve sustainable development and improved quality of life for citizens.
- **Sustainable development** is an important aspect for all the smart cities. It means creating an environment where every child and every citizen is safe and their physical and mental well being is taken care of.

DR VEENA BANDOPADHYAY
Director, Unicef,
Gujarat

INDUSTRY PRESENTATION



- **Major climate** risks that cause health-related complications are heat waves, rain (flood), sea-level rise and industrial pollution (man-made).
- **By 2017-end**, an early warning system will be developed to help people.
- **Knowledge about** diseases generated due to heat waves will be imparted at community-level.

DR SURESH RATHI
Director,
MAMTA Institute, New Delhi



- **Knowledge Management** and Innovations for Change (KMIC) , a collaboration between UNICEF and IIM Ahmedabad, aims to work with government and development partners to explore complex questions around development.
- **Infrastructure perspective** of smart healthcare is the use of available information and technology in a way that it is integrated with the community services.

DR RAJESH CHANDWANI
UNICEF Knowledge Centre,
IIM Ahmedabad



- **Healthcare infrastructure**, education and training are the major factors for smart healthcare. Latest use of technology in healthcare services is also very important for better and smart healthcare.
- **Population health** analysis, smart hospital design, smart emergency and ambulance care are the initial steps for planning of smart healthcare.

SURGEON R ADMIRAL V K SINGH (RETD)
MD InnovatioCuris & Adjunct Professor
World Health Innovation



- **In Surat**, even if certain segments of the people working in diamond and textile industry get affected, the impact will trickle down the city's GDP.
- **As part** of Asian Cities Climate Change Resilience Network and in collaboration with Surat Municipal Corporation, Urban Services Monitoring System is developed to Monitor OPD and IPD data of every hospital (Government, Public & Private) on daily basis.

MAHESH RAJASKAER
Taru



- **Hospital Services** Consultancy Corporation (HSCC) is a Mini Ratna-I and ISO: 9001:2008 Public Sector Unit.
- **Under the** Ministry of Health and Family Welfare it renders consultancy for world-class hospitals from concept to commissioning.

AK NEEMA
Deputy General Manager,
HSCC (India) Ltd



SMART HEALTHCARE IN SMART CITIES



INDUSTRY PRESENTATION



- **Most of** the diseases that came up in last five years are because of the urban lifestyle.
- **Diabetes and** Obesity is are of the rapidly growing problems among Indian population. The reason behind it is lack of physical activity.
- **Youth of** the country is suffering from heart diseases that also are caused by irregular and lazy lifestyle.

TEJASWI S NAIK
Collector, Barwani,
Madhya Pradesh

- **For awareness** about the health, there must be door-to-door surveillance and knowledge delivery in all the cities of the country especially among the people belonging to underprivileged section.
- **We have** to make people believe that government hospitals also provide same level of healthcare services as of the private hospitals.

ANILBHAI HASMUKHBHAI BISCUITWALA
Municipal Councillor, Chairman,
Health Committee, Surat Municipal
Corporation





- **Smart Healthcare** should be patient and citizen centered. It has curative aspect as well as preventive aspect.
- **It is** believed that through the smart healthcare, process will be streamlined and a patient will get professional healthcare support immediately.

DR KALPANA A DESAI
Dean, Surat Municipal Institute of Medical Education & Research, Ahmedabad



SMART TRANSPORTATION: BEST PRACTICES ACROSS INDIA & INTERNATIONAL EXPERIENCE



- **Huge investment** is required for developing rapid transport modes like Metro Rail/Mono Rail, BRTS and non motorised transport modes
- **Commuters will** shift to public transport with improvement in last mile connectivity, accessibility, comfort and convenience, journey time and cost.
- **Bus operations** managements should be continued

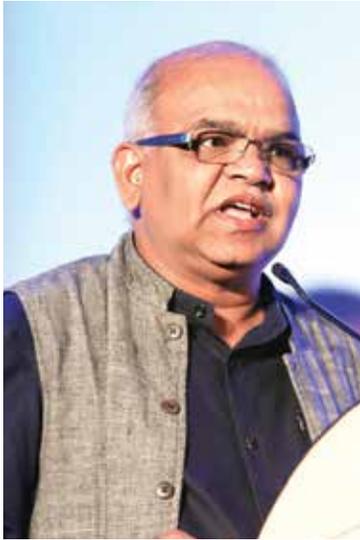
RR DESHPANDE
Deputy General Manager, BEST Undertaking, Maharashtra

- **Japan is** investing in the bullet trains between Ahmedabad and Mumbai
- **We would** like to have a seamless structure between these two states with the help of Smart card payment system
- **Data collected** at the ground should be utilised for better transportation in future

SHUMPEI FUJII
Head Transportation Business, NEC India Pvt Ltd



PANEL DISCUSSION



- **Instead of** solving the problem of congestion, we should give alternative in the form of public transport
- **99% of** the Surat will have easy transport in the form of BRT, public transport as well as the metro network
- **Only one** fare will be introduced whether you are travelling through metro or bus or any other mode of transport

SHIVANAND SWAMY
Faculty of Planning,
CEPT



- **Surat was** probably one of the first cities to dedicate a proper urban transport fund
- **Change happen** but in our country it cannot happen overnight
- **There should** be a sustainable build up of data to plan for the city for the next 10 years

DR M RAMACHANDRAN
Former Secretary (Urban Development)
Government of India

Glimpses of EDUCATION AND SKILL SUMMIT





glimpses of EXPO









Host Partners



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