

LEARNNOVATOR

S. R. LUTHRA INSTITUTE OF MANAGEMENT (SRLIM)

E-Newsletter : Vol. 1 | Issue 2 | Quarter: April - June, 2017

EDITORIAL

Smart city concept is the way forward for an economy like India which is on a high growth trajectory and where there is constant and increasing pressure of people to move from rural areas to urban areas in search of better career prospects. This concept is the need of the hour for a country like India because according to the 2011 census approximately 32% of the population lives in urban area and they contribute approximately 63% of India's GDP. With the increased rush towards urbanization it is expected that by the year 2030, 40% of the country's populations will be urban and will contribute approximately 75% of GDP. This data highlights the need of holistic development i.e. developing the whole urban eco-system in terms of physical infrastructure, institutional framework, services, etc., the backbone of which would be the state of the art information technology. This will lead to improving the quality of life and eventually attracting people and investment to the city. Surat is one of the fastest growing cities and a city in which businesses such as textile, diamond, jari, chemical have developed and flourished. The city of Surat has a very high potential for development and it attracts skilled, semi-skilled and unskilled labor from rural and semi urban areas who are in search of better employment opportunities. Surat is one among the 20 names being announced by the Government as Smart cities. The vision statement of Surat Smart city is very precise and self-explanatory.

"Smart Utilization of Surat City's potential for enhancing quality of life for the citizens by providing equal access to best quality physical infrastructure, social infrastructure and mobility through leveraging state of the art technology thus making Surat a futuristic global city with focus on enhancing economy, protecting the ecology and preserving the identity and culture of the city"

The above vision statement gives us a fair view of what our Surat would be in the years to come.

-Dr. J.M. Kapadia

Director
S.R.Luthra Institute of
Management, Surat



SURAT - SMART CITY MISSION

- Shri Nagrajan M

Deputy Commissioner, SMC

CEO- Surat Smart City Development Ltd.



Surat, previously known as Suryapur, is one of the fastest growing cities in the world, experiencing rapid industrialization and migration. Renowned for its textile trade and diamond industries, the vibrant city of Surat is considered to be the economic capital of Gujarat.

Over the years, Surat has assured the world of its incredible revitalization and capabilities. Surat's rejuvenated civic sense amongst the citizens, efficient administration, focused planning and governing reforms have continued to open several opportunities to the city. Surat Municipal Corporation had been ranked among the best corporations in the country in terms of governance; basic infrastructure facilities and also in terms of advanced facilities like mobile app, CCTV surveillance, etc. prior to the introduction of Smart Cities Mission.

Surat ranked 4th under the Smart Cities Mission competition of Ministry of Urban Development (MoUD). The vision of Surat Smart City is Smart Utilization of Surat City's potential for enhancing quality of life for the citizens by providing equal access to best quality physical infrastructure, social infrastructure and mobility through leveraging state of the art technology; thus making surat a futuristic global city with focus on

Enhancing economy, protecting the ecology and preserving the identity and culture of the city. The objective of smart city is to promote sustainable and inclusive cities that provide core infrastructure and give a decent quality of life to its citizens, a clean and sustainable environment and application of 'Smart' Solutions. With the Smart City initiative, Surat aims for organic integration of physical, social, technological and business infrastructure.

Surat Smart City has brought about an urban renaissance with the introduction of urban development projects that add to the institutional, physical, social and economic profile of the city. Surat is implementing projects in the areas of Smart Transport and Mobility Solutions, Smart Governance, Green Energy, Water Sector and Drainage, Infrastructure and Economic Development. Surat Smart City is working on implementing data-driven decision making with the help of data and analytics for better delivery of services to the citizens.

To add to the Smart Cities Mission, Resilient City helps Surat prepare and recover (if required) from the acute shocks and chronic stresses to the city. Being a coastal city lying near the estuary of the river Tapi, Surat is prone to floods. Despite Surat showing its instinctual resilience to the 1998 and 2006 floods, there is a pertinent need for comprehensive flood management and development of existing creeks. With the introduction of an end-to-end early warning system, automatic weather station and fostering of energy consumption from renewable sources, Surat has come a long way as a resilient city.

The released strategies and projects under Resilient City are being implemented along the areas of

- *Connectivity and Mobility Services and Regulation*
- *Affordable Housing*
- *Water Availability and Quality*
- *Dominant Sectors of Employment and Economic Dependency*
- *Ecosystem and Environmental Regulation*
- *Social Cohesion*
- *Up scaling of Public Health*



Surat aspires to continue its trajectory of upward curve as a Smart and Resilient city by aligning with the Sustainable Development Goals (SDGs). It continues to ensure a better quality of life by leveraging technology & infrastructure for optimum resource utilization & improving standard of living. The city aims to include women, children, elderly, special needs, economically vulnerable, etc. at the center of development plans and achieve social equality, economic viability, environmental sustainability and inclusive growth.

Leveraging on its rich cultural heritage, strong human capital and business environment, Surat aspires to become one of the most livable cities in India by strengthening its core infrastructure to support the growing needs of the bustling populace and by making its neighborhoods beautiful, clean and green.

SMART TRANSPORT & MOBILITY SOLUTIONS	WATER SECTOR & DRAINAGE	SMART GOVERNANCE	INFRASTRUCTURE	GREEN ENERGY	ECONOMIC DEVELOPMENT
<ul style="list-style-type: none"> ▶ Intelligent transit management system (ITMS) ▶ Automatic fare collection system (AFCS) ▶ Integrated transport - mobility admin center (IT-MAC) ▶ Integrated traffic control system (ITCS) 	<ul style="list-style-type: none"> ▶ Recycle / reuse of waste water ▶ Rain water recharging ▶ Water recharging (storm water drainage) ▶ 24 x 7 water supply scheme & smart water meters. ▶ French well ▶ 120 MLD water treatment plant (WTP) ▶ Zero liquid discharge (WTP) ▶ Novation of STPs with SCADA & energy generation 	<ul style="list-style-type: none"> ▶ Smart money city payment card ▶ Smart city center (SMAC center) ▶ Open data ▶ mysurat.in (Active citizen engagement) ▶ Develop ERP with GIS platform & advanced governance redressal system ▶ Connected surat WIFI - FTH 	<ul style="list-style-type: none"> ▶ Skywalk ▶ Smart parking ▶ Affordable housing ▶ Air & water quality monitoring system ▶ Visible improvement in area ▶ Smart waste collection system ▶ Remodeling & restructuring of existing creek to create open spaces ▶ Data center & DR site 	<ul style="list-style-type: none"> ▶ Solar power generation (1MW) ▶ Smart street lighting (LED) & monitoring system ▶ Biogas plant for organic waste ▶ Wind power generation 	<ul style="list-style-type: none"> ▶ Logistics park ▶ Innovation, incubation, start-up and trade facilitation center

SURAT SMART & RESILIENT CITY

INTERESTING INNOVATIONS

Merriam-Webster, the most trustworthy dictionary of American English since 1828 defines adjective Smart as 'very good at learning or thinking about things' and Resilient as 'tending to recover from or adjust easily to misfortune or change'. Noun City is 'an inhabited place of greater size, population, or importance than a town or village'. City planning has seen many different schemes for how a city should look. Grid plan in which city has different dedicated areas, much as is seen in modern city planning. Modern cities create their own micro climates due to heat island and underground rainwater ducts. Waste and sewage are two major problems for cities, as is air pollution from various forms of combustion. Other negative external effects also include health consequences such as communicable diseases, crime, and high traffic and commuting times. A smart city is an urban development vision to integrate multiple technology solutions in a secure fashion to manage a city's assets. The goal of building a smart city is to improve quality of life by using technology to improve the efficiency of services and meet residents' needs. The terms 'Smart City' remains unclear to its specifics and therefore, open to many interpretations and subject. A smart city road-map consists of four major constituents which mainly include identifying community, knowing community, developing smart city policy and engaging community. Launched under Prime Minister Narendra Modi in 2015, the "Smart Cities Mission" is an ambitious multiyear effort to boost economic development, technological innovation, and sustainable growth across 100 cities. Apart from being smart city need to become more resilient to the physical, social and economic challenges that are a growing part of the current century. Each Smart City must support the adoption and incorporation of a view of resilience that includes not just the shocks—earthquakes, terrorism, floods, economic meltdown etc. but also the stresses that weaken the fabric of a city on a day to day perennially. Examples of these stresses include high unemployment; an overtaxed or inefficient public transportation system; endemic violence; or chronic food and water shortages.

By addressing both the shocks and the stresses, a city becomes more able to respond to adverse events, and is overall better able to deliver basic functions in both good times and bad, to all populations. Urban Resilience is the capacity of individuals, communities, institutions, businesses, and systems within a city to survive, adapt, and grow no matter what kinds of chronic stresses and acute shocks they experience. Resilient systems withstand, respond to, and adapt more readily to shocks and stresses to emerge stronger after tough times, and live better in good times. Various City Resilience Frameworks are available to provide a lens to understand the complexity of cities and the drivers that contribute to their resilience, and a common language that enables cities to share knowledge and experiences. Exclusive and independent resources for urban planners, leaders and visionaries, commerce developers and academics that are looking now for solutions to tomorrow's challenges of adapting legacy urban centres to accommodate future economic and social needs are available to make a city Smart and Resilient.

Smart and Resilient City is about transformation, rejuvenation and future design and providing the data and resources that planners need. Smart and Resilient City is about the processes to be followed and evolved not a final destination. The concept of Smart City has recently emerged, often based on ICT solutions, as an appealing response to these challenges. One has to remember that resilience is deeply rooted in cities genes, in their history, their culture, their social legacy and above all in their citizens' ingenuity. All these remain present and powerful resources. In Indian context Surat, Chennai, Jaipur and Pune are readying themselves writing their smart and resilient strategies. Cities could persist, as they have for thousands of years, only if their advantages offset the disadvantages. Indian politicians, planners, city administrators, businesses and people have to work towards creating Smart and Resilient India.

- Mr. Kamlesh Yagnik

VC-II,

Sarvajanic Education Society, SURAT

Chief Resilience Officer, SURAT



Instead of sharing academic views about smart cities, I would like to share few case studies & few terminology which can really help to understand about innovation for community infrastructures people often describe as SMART CITY.

Balloons for WI-FI Reuters & Camera: Instead of Terrace towers for networking, Google suggested to have Balloons floated at significant locations which encompass networking equipment and camera system. Communities can be connected and get latest data about traffic and events happening in city. City Orbit can be defined and one layer can be spared to install low cost multi tasking balloons for smart city networking and analysis. Sensors & IOT – many interesting projects, experiments and data analysis via Internet of Things (IOT) been carried for smart cities. Various kinds of sensors available which can capture data pertaining to micro climatic which include temp, moisture, noise , air quality etc , IOT platform intelligently analyses data and suggest remedial measures which can improve local environment. Pothole project is interesting technology app, where special vehicle drive on city roads which can identify potholes, its intensity, location and material required for repair the same. Program generated to apply patches over potholes in off-peak hours

Innovative Parking Solutions are explored as it seems need of an hour for smart city. Many designs are explored but the best is to use streets and roads for effective way to park vehicles using technology and apps. Before world move ahead with driver less vehicles, parking solution for smart city would be a challenge.

Some other interesting smart city projects may cover

• **Live Traffic Management:** It's a challenge to use technology like IOT which captures live data in real time to resolve issues and best possible way.

• **Mixed Land Use Town Planning Schemes** incorporating optimum transit between home-work-school: City Planners widely adopt new age mixed planning approach to help city to evolve

• **New Age Co-working Space** to work from anywhere system: Talents are trusted so as allowed to work from anywhere. Tangible ways identified to measure productivity.

• **Solid Waste Recycle:** new interesting domain which may bring paradigm shift in communities.

• **Renewable Energy Generations** by individual units: Yes one can contribute for better world.

• **Gross Happiness for Communities:** happily misunderstood earlier and now happily adopted.

• **Green walls & Garden Islands:** individuals can have their own green space These new interesting domains of smart cities which are evolving effectively. Citizens prefer to give priorities and start considering staying and work where LIFE is VALUED the MOST.

- Mr. Sanjay Punjabi

Architectural Planner,

Designer & Project Consultant , SURAT



SURAT - DISCOVERING COMPETENCE

Smart Cities focus on their most pressing needs and on the greatest opportunities to improve lives. They tap range of approaches - digital and information technologies, urban planning best practices, public-private partnerships, and policy change - to make a difference. They always put people first.

The objective of smart cities is to provide core infrastructure and give a decent quality of life to its citizens, a clean and sustainable environment and application of 'Smart' Solutions. The focus is on sustainable and inclusive development.

The diamond city or silk city of India-'Surat' is one of the fastest growing cities in the country. The bustling, vibrant, energetic city had started taking initiatives in smart city development by adopting smart solutions, which includes waste management, traffic management, smarter energy utilization, smarter communication and many more. "Smart Cities Mission" might help in raising the standard of living of the people by providing all facilities required and it can contribute to the economic growth of the country and may also be helpful for other initiatives like Make in India, Digital India etc. This project can place India among top nations of the world and Surat amongst the top cities of India.



- Divya Balani,

Jr. Executive Trainee - Torrent Power, Surat
Alumni, S.R. Luthra Institute of Management (2015-17)



SURAT – A Smart City

Model of Indian economy is hastily shifting from agricultural to industrialization and there is massive movement of rural inhabitants not only towards state capitals but also towards tier-II and tier-III cities. The surge in population in cities cause pressure on public services to generate vast job potential, to enrich town-planning and build a living index for the citizens according to the standards of developed world. Most of the complications which urban India encounters could only be resolved and prevented in the future through smart city initiative.

What is smart city? There is no unanimously recognized description of it but the objective is to stimulate cities that deliver essential infrastructure and improve quality of life to its residents, a hygienic and sustainable environment and application of 'Smart' Solutions". Smart city mission was propelled by Prime Minister Shri Narendra Modi on 25 June, 2015. Government decided to select 20 cities in round-1 and out of 97 proposals submitted till deadline, Surat was selected at rank no.4 due to various accomplishments, initiatives and all inclusive approach.

Surat Municipal Corporation (SMC) has always taken steps in the direction to make Surat really a smart city and Surat Smart City Development Limited (SSCDL) is formed as a "Special Purpose Vehicle (SPV)" for the implementation of the Smart City projects at the city level.

SMC offers smart solutions to all stake holders like citizens, businesses, employees and government. SMC has installed user friendly bilingual (English & Gujarati) information KIOSKs with touch screen at physical civic centres to support single point access. SMC is also having a comprehensive website with more than 1200 pages which also includes virtual civic centre. SMC is the first ULB (Urban Local Body) to start vaccination alert, comprehensive mobile app and a "WhatsApp" number as a complaint redressal system. SMC also offers interactive SMS service whereby one can avail information by structured message. SMC has also started free Wi-Fi service for citizens of Surat. Surat is selected as the first "Smart City" in India which is being constituted by the Microsoft CityNext Initiative and Surat is also a first city in India to launch real-time CCTV system. So basically, smart city is not for technology but for transformation.

- Riddhish Joshi

Assistant Professor
S.R.Luthra Institute of Management



GLOBAL, CAPABLE & SUSTAINABLE SURAT

There is no universally accepted definition of a smart city. It may connote various meanings to different people. The heroic persona of a smart city expected by people can be put under one umbrella as: water recycling systems, high-tech waste management systems, sustainable, energy efficient residential and commercial real estate, Eco-friendly public transport systems with strong connectivity, efficient traffic management systems, parking management system, wide spread and fast Internet connectivity for city to connect globally, app or social media-based emergency alert and crisis response systems, and easy access and widespread use of digital money. The dream of a smart city would require commitment of its residents in the form of a well articulated realistic vision, government support, transparency in data and government policies, effective planning and implementation, identifying appropriate milestones and metrics for progress assessment, and an overall collaborative culture and public support.

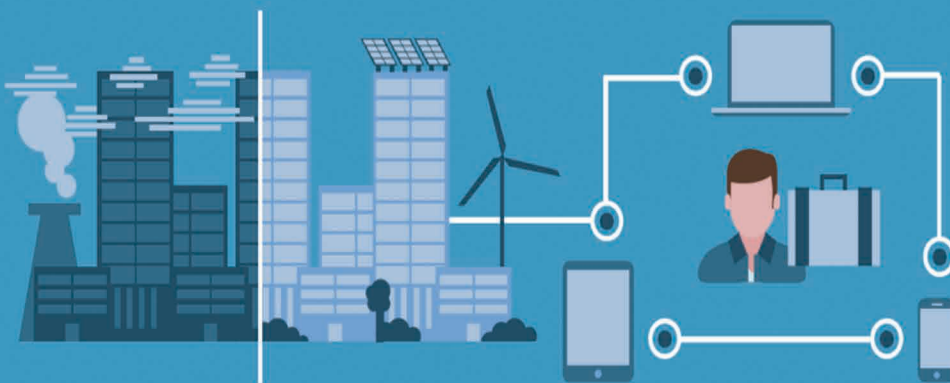
A smart city requires a collaborative effort of government, bureaucrats, businessmen, academia, and all the sectors of the society and public at large; meaning "United we stand, divided we fall"

- Sabahat Jatu

Business Analyst - Appitome Solution LLP
Alumni, S.R. Luthra Institute of Management (2015-17)



Business is a willing partner for smart city initiatives



52% of executives say that improved digital communications channels would encourage them to provide cities with feedback on urban conditions

Developed by The EIU

58%



want the government to do more to engage business in public decision-making around improvements to urban infrastructure and services

63%



believe that it should be investing more heavily in digital technologies that enable businesses to play a role in urban improvements

Businesses see benefits to being located in a smart city as it

attracts top talent to a city **53%**

offers bottom-line benefits **43%**

Developed by The EIU



FACULTY VIEWS



Dr. Ravi Vaidya

I believe my Surat city is a happier place with fun-loving people. But needs smart town planning specially parking place in manners both.



Dr. Pooja Patel

Surat is smart City as it has highest number of flyovers to solve the traffic problem.



Dr. Hiren Patel

Surat ranked at top in the country when it comes to giving services to the citizens, creating world class infrastructure.



Pratiksinh Vaghela

Though Surat being called as diamond city, city of flyovers but above all Surat is a MINI INDIA as its one of the most culturally diversified city of India.



Drashti Shah

"A diamond city - The CLEAN city - A FESTIVAL city with Road side dabba party."



Jayshree Mandavia

Surat is superb in all aspect except traffic.....
So surat is smart city in true sense when traffic handled by robot with high definition cameras inbuilt.....

Surat is a smart city because it treasures its past, lives in the present and smartly prepares for the future.



Dr. Hemlata Agarwal

My city Surat is SmartTest coz I can reach anywhere and everywhere on my bike..



Dr. Ranjan Sabhaya

With over 4 Lacs Trees 50 Gardens, SURAT is SMART with Green Heart



Mehul Mehta

SURAT....
Smart UBIQUITOUS
REMARKABLE AESTHETIC
TRENDY



Swapna Nair

Smart Surat has average 1320 passengers travelling by air with the futureprospects of being an International



Darshna Shah

Surat named for "city of sun". Surat polishes over 90% of the world's rough diamond

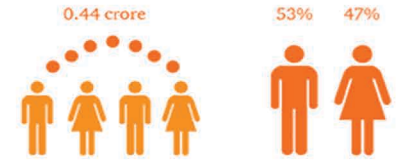


Ashish Patil

Surat

Total city area: 326.5 km²

Total population and sex ratio



Economy

State domestic product: 2,520 billion INR



City demographics

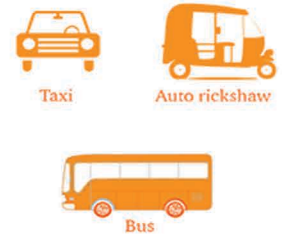
Per capita income: 4.8 lpa Literacy rate: 86.65 % Crime index: 26.46



Cost of living



Urban transport



Green cover



Social infrastructure



Technology won't make City Smart people will !

The concept of Smart cities is a unique one. It has been used like anything in India after the present government took charge. Proactive attitude of government and competitions between municipal corporations (through mygov.in) to get funding from union has very drastically forced the municipalities to act or to at least seem like acting towards building their respective cities - SMART.

Metro rails, buses running on GPS, renovating & beautifying existing public loos and e-Governance of majority of PWD's (Public Work Department) work itself won't make the city smart. Making a city smart is about making a change in the way people think! The change it will bring will be a change in life style and not a materialistic one.

Jhol in the interpretation of Concept

Probable Constituents of Smart City

- By making Living in the City Easy**
 - Commuting made easier, cheaper and faster.
 - e-governance of Public Works Department.
 - Supply of all basic necessities (water, electricity, gas and drainage)
- By making a City Happier**
 - Building a sustainable pollution free neighbourhood
 - Developing green surroundings
 - Developing recreational and public activity areas.
 - Developing basic standards to measure happiness index in city
- By enhancing the Standard of Living**
 - Slum free city by making affordable houses for all
 - Zero infant mortality, high literacy, equal gender figures, rich demographics
 - Enhancing per capita income
 - Building comprehensive and easy environment for businesses
- By inducting a Change in Thinking.**
 - Educate people to live clean by producing zero waste
 - Educate people not to use personal vehicles and use public transports
 - Educate people to ride bicycles and promote healthy lifestyle.

Smart Cycle for Smarter Commuting

- Educate people to use more and more bicycles.
- Use of Bicycles will reduce traffic on roads.
- Use of bicycles will reduce carbon emissions
- Use of bicycles will make the people healthier
- Use of bicycles will reduce road accidents
- Use of bicycles will reduce consumption of petroleum oil
- It will reduce annual demand of petrol
- Government will now buy less crude oil from OPEC
- Lesser the demand lesser will be the debts we owe to World Bank
- Lesser the debts more the emphasis on development

- Jay Gandhi

SWO - The Federal Bank , Surat
Alumni, S. R. Luthra Institute of Management (2013-15)



PLACEMENT-2017



SARVAJANIK EDUCATION SOCIETY
SMT. SHARDARANI RAMESHCHANDER

Luthra
INSTITUTE OF MANAGEMENT

Glimpse of Placement 2017



INSTITUTE & INDUSTRY INTERFACE

To make the Industry-Institute interface more dynamic, SRLIM has taken initiatives to conduct series of need based Management Development Programmes(MDP) at regular intervals.

The first of its kind was conducted on 24th June 2017 on the topic **Impact of GST on Small & Medium Enterprises**. As, Small and Medium Enterprises (SMEs) have been considered as the primary growth driver of the Indian economy for decades the industry experts feels that the SMEs and startups will be affected the most with the roll out of the GST. However, SME's are not very sure of the ways the new tax regime will affect their business and alter their bottom line. To support the Executives from SME's, CA's, Entrepreneurs, Management Consultants and Industry personnel's in gaining insights into what would be the Impact of GST on Small & Medium Enterprises, four eminent speakers have contributed their valuable observations and understanding of the subject.

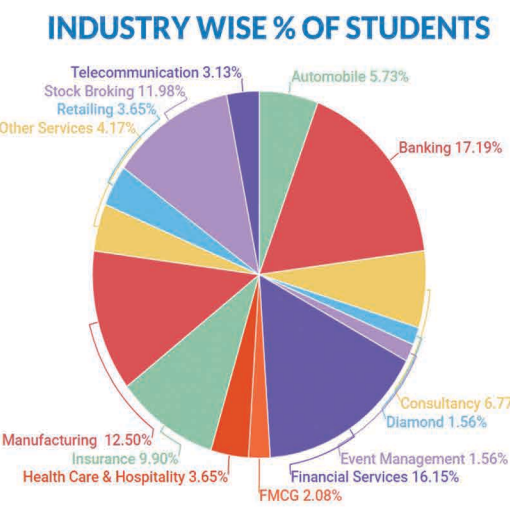
- C.A. Gaurav Singhvi enlighten the audience about the 'Journey of GST' at National and Global level.
- Advocate Krunalcecreamwala elucidated GST on 3 components - 'Supply', 'Timing of Tax' and 'Type of Tax'.
- C.A. Manish Jajoo expounded corporate techniques and strategies for three types of buyers and suppliers i.e. Unregistered, Composite and Registered on an explicit 3 by 3 matrix.
- C.A. & Advocate AvinashPoddar deliberated the 'Process of Registration', 'Migration' and 'Compliance with respect to GSTR-1, GSTR-2, GSTR-3'.

More than 70 participants took the benefit of the session and the feedback was very encouraging.

The next upcoming MDP is on Digital Marketing for Business Growth on 16th September 2017. For more details, please write to us on mdp.srlim@gmail.com.



SUMMER INTERNSHIP-2017



FORTHCOMING SUBJECT

GST & INDIAN ECONOMY

- Interested readers are invited to contribute their ideas/views/ opinion on the above subject at learnnovator.srlim@gmail.com before 31st August,2017

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