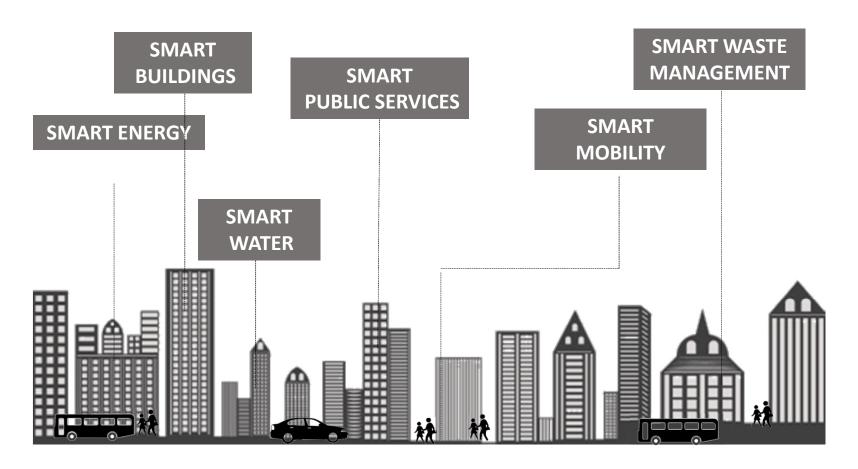
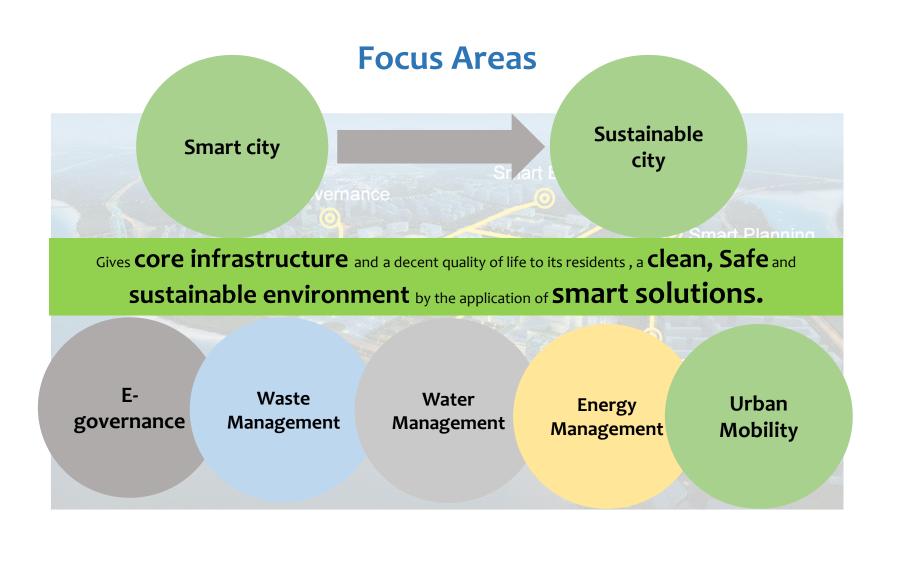


# Smart Infrastructure



# **Smart City**





# **Smart Cities Initiatives by Govt. of India**





The Smart City Mission will cover 100 cities in India in a time span of 5 years

### 5 most common themes emerging for pan-city solutions across cities



#### **Selection Process**

#### **Stage 1** - Competition (within State)

Number of potential Smart Cities have been intimated to each State, based on an *equitable* & *objective based formula* 



An intra-state competition to select proposed Smart Cities, based on the Stage – I criteria



The state to select the cities and intimate the list of cities for smart city challenge to MoUD - **Short listed Smart Cities** 

#### **Selection Process**

#### **Stage 2** – City Selection (All India Competition)

On the basis of response from the states/UTs, the **list of potential 100 Smart Cities** will be announced. The second stage will begin. (All India Competition)



Each **potential Smart city will prepare its proposal** with the help of a consultants



**Stage-2:** Proposals will be submitted by the stipulated date for the evaluation process



Selected cities will be declared- Round 1 Smart Cities

Selected cities setup SPV and start implementation



Other cities prepare to improve their proposal for next round of challenge

## **Funding**



- As a **Centrally Sponsored Scheme** Each Smart city will get Rs. 500 Cr.- First year Rs. 200 Cr. thereafter Rs. 100 Cr. every year
- State / ULBs will mobilize matching resources based on <u>50:50</u>
   funding pattern

#### **Planning**

Advance of **Rs. 2 Cr.** to shortlisted cities to prepare Smart City Proposal

#### **Implementation**

Project Management Consultants (PMC) for designing, developing, managing and implementing area-based projects

## **Implementation and Financing**

- Each city will have a **Special Purpose Vehicle (SPV).** The SPV will have complete flexibility to plan, implement, manage & operate and will be headed by a full time CEO
- At city level **Smart City Advisory Forum** will be established.
- The Smart City Advisory Forum will include the District Collector, MP, MLA, Mayor, CEO of SPV, local youths, technical experts, and representative of Associations
- The CEO of the SPV will be the convener of the Smart City Forum

# **Mission Monitoring**

National level – Apex Committee (AC) headed by Secretary, MouD



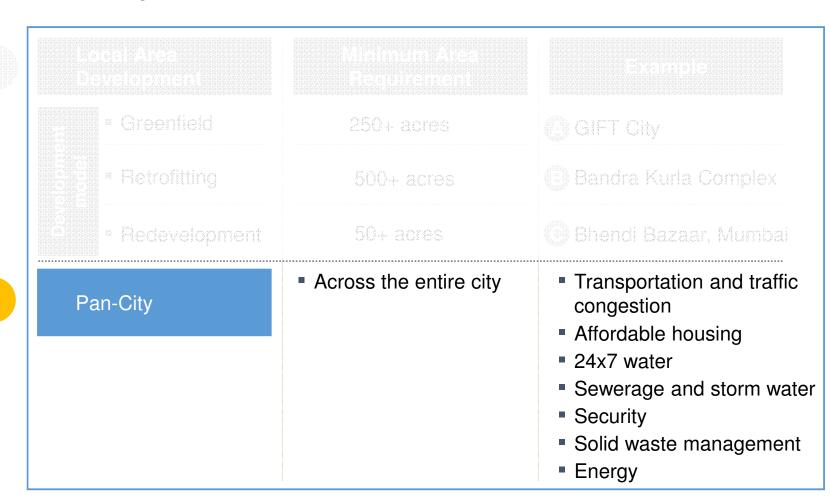
**State level** -State level High Powered Steering Committee (HPSC) - chaired by the Chief Secretary



**City Level** - CEO of the SPV is convener of the Smart City Forum

Local Area Development		Minimum Area Requirement	Example
ent	<ul><li>Greenfield</li></ul>	250+ acres	A GIFT City
Development model	<ul><li>Retrofitting</li></ul>	500+ acres	B Bandra Kurla Complex
Deve	<ul><li>Redevelopment</li></ul>	50+ acres	Bhendi Bazaar, Mumbai

### Two key elements of the 'Smart Cities' mission





### Indian Scenario – Top 100 Cities



#### **Major Smart elements**















**Smart Energy** 









# Indian Scenario – Top 20 Cities



# **Major Smart elements Smart Parking** Citizen App Wi-Fi **Smart lighting** Surveillance **Command Control Smart Energy Smart Mobility Interactive Digital Interface**



# Smart World & Communication BU



#### **About Larsen & Toubro**



One of the largest and most respected Indian Multinational Company



Headquartered in Mumbai, India



Revenue FY 14-15: US \$ 15 Billion



Global Presence : India, US, UK, Canada, Russia, Japan, Europe, China & Middle-East



Factories: 30 nos. at 23 Locations in India, 7 nos. at 5 Location outside India



Henning Holck-Larsen (4.7.1907 - 27.7.2003)



Soren Kristian Toubro (27.02.1906 - 4.3.1982)





#### **Smart World & Communication BU**

# Integrated Security Solutions

- City Surveillance
- Traffic Management System
- Security of Critical Infra
- Coastal Security



# Communications and Telecom Infrastructure

- Fiber Optic Backbone
- Microwave & Satellite Communication System
- Fiber Management System
- IP Transport / Network
   Infrastructure
- Emergency Response System



#### **Smart Infrastructure**

- Integrated Command & Control
- Smart Communication
- Smart Mobility
- Smart Energy
- Smart Lighting
- Citizen Apps



#### **Innovation Partner Network**

Domain	External Partners
ICT	
Wi-Fi	
Smart Parking	
Smart Transportation	
Other Smart Solutions	



1 Security Solutions









Commissioned Sabarmati Jail Surveillance Project, Ahmedabad

# **Executing "CCTV-based Surveillance System for Mumbai City" Project- Largest of its kind in India**



CCTV & Number Plate Cameras

 Approx. 6000 Cameras (1500 locations)

**Data Centers** 

2 Data Centers (Active – Active)

Command/ Viewing Centers  3 - Command & Control Centers

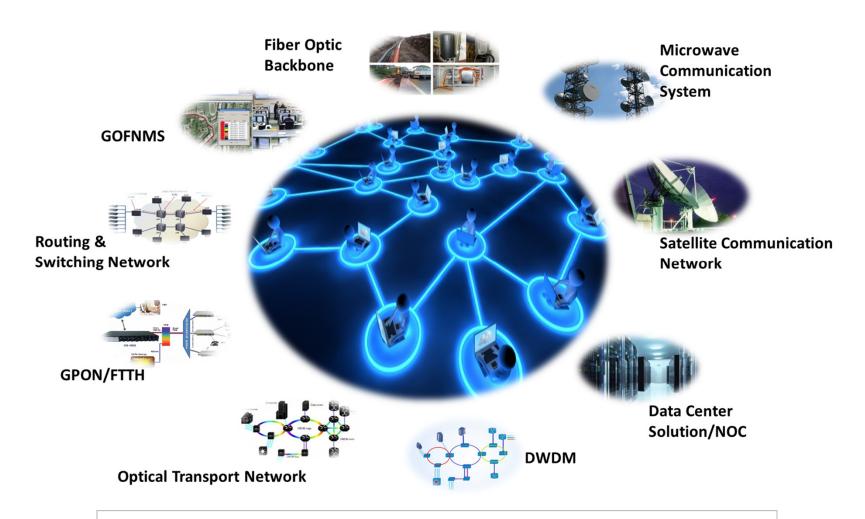
Vehicle Tracking System  Vehicle Tracking for 1000 Vehicles

Collaborative Monitoring  Receiving video feeds from 100 establishments



Commissioned "City Surveillance & Intelligent Traffic Management System" Project - 3 Cities of Gujarat



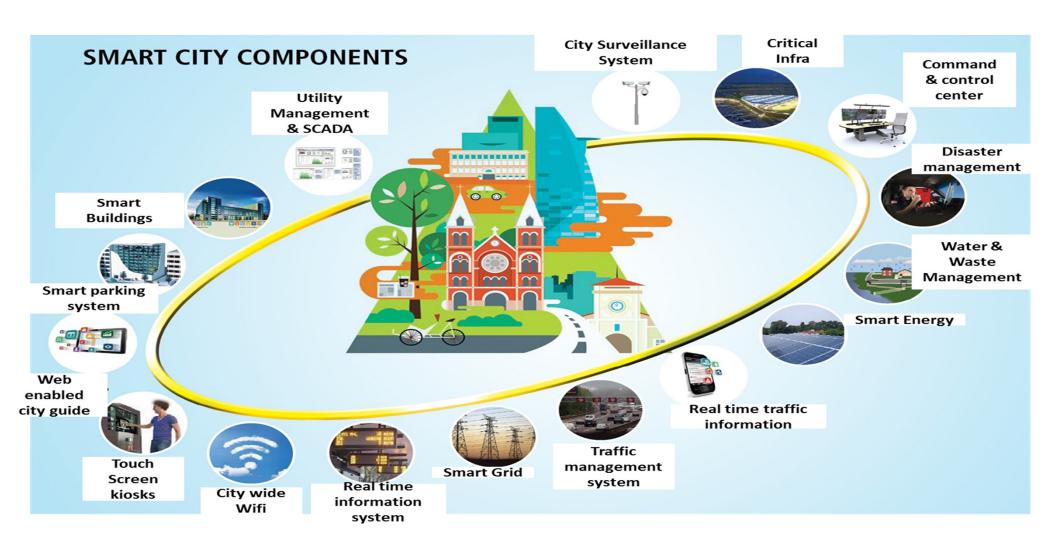


Participation in Communication Infrastructure Projects under NFS and NOFN



3

Smart Infrastructure





# Track Record



## **Jaipur – First Smart City**

Surveillance **Solution** 

150 Cameras at 20 Locations

**Remote Expert** Government **Services (REGS) 2 Locations** 

Public Wi-Fi **250 Access Points at** 30 Locations

> **Parking** Information **System**

**5 Locations** 

Central Command **Control Center**  Interactive

13 Locations

Kiosks

**Environmental Sensors** 15 Locations

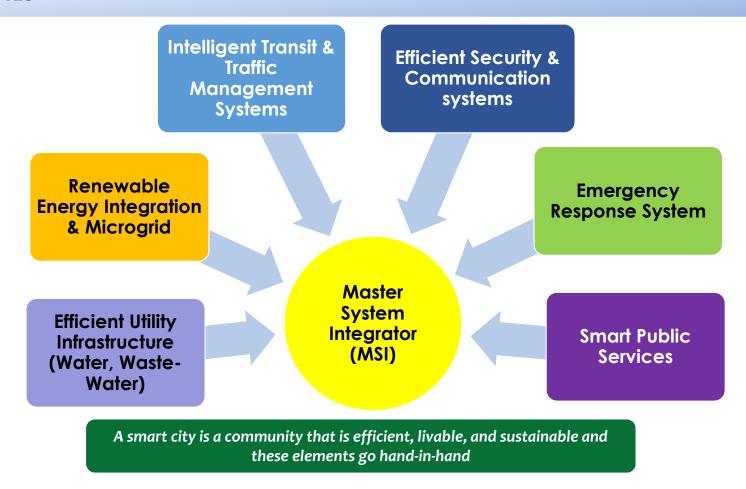


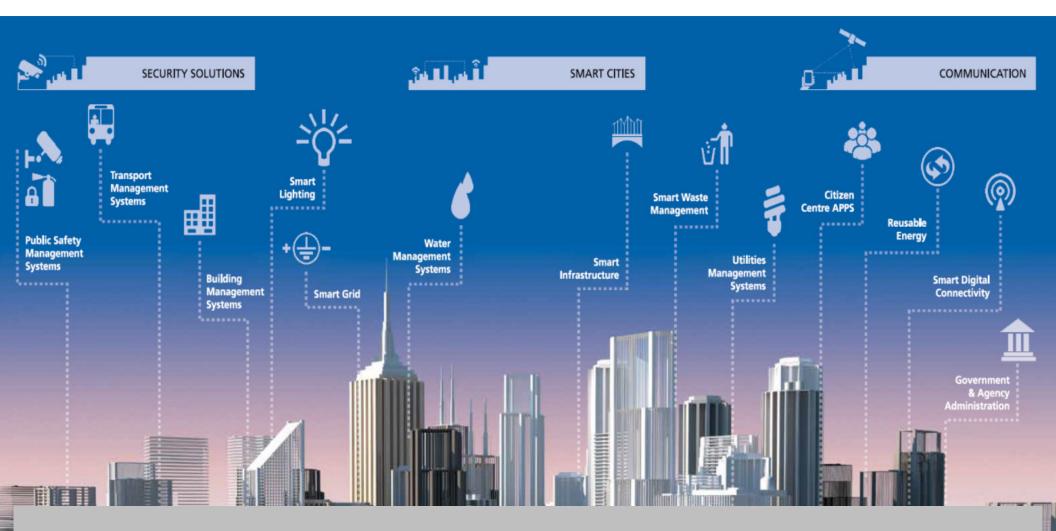






#### L&T as MSI





# THANK YOU