AMARAVATI DEEP DIVE WORKSHOP
14, 15 DECEMBER 2017
THE GATEWAY HOTEL, VIJAYAWADA
Liveability | Economic Powerhouse Infrastructure | Governance

ICT and Smart Cities

Amaravati Development Corp | Andhra Pradesh Capital Region Development Authority
Agenda and Target Discussion

• What are the smart components that have been incorporated in Infrastructure, and are they state-of-the-art? How are they integrated?

……*What best world class ICT infrastructure*

• What is strategy for Total Lifecycle Digital Asset Management?

……*What other platforms and services*

• What are popular e-services under Smart city? How are we making our way there?

……*What other Smart City Components*
What best world class ICT infrastructure

- High Speed Network
- Wired and Wireless Communication Systems
- Data Centres and Disaster Recovery Centres
- Integrated Operations Centre
ICT Infrastructure provisions under implementation
What Platforms and Services

- City E-portal
- Customer Relationship Management
- Sector specific – Transportation/parking, Security/Surveillance, Emergency Services, Health, Waste Management......
- Asset Management
- ........ many more
Platform and Services under implementation

URBAN ASSET AND INFRASTRUCTURE MANAGEMENT SYSTEM (UAIMS)

- Urban Spatial Data Management System
- Development Control Regulations System
- Infrastructure planning and Maintenance System
- Asset Management System
- Tax Management System
- Estate Management System
- Citizen-centric Services
- GIS Integration
What Smart City Components

- **SHARED LIFE**
  - Modular Data Centers
  - City Dashboard
  - GIS

- **CONVENIENT LIFE**
  - Smart Transportation - ITMS, Smart Parking, Integrated Public Transit, VMS, Traffic enforcement
  - Smart Power - Intelligent Inspection Management System, Intelligent O&M systems, SCADA enabled systems
  - Smart Energy Management

- **SAFE LIFE**
  - Video Monitoring - Smart Poles, Video enforcement (PTZ/Fixed cameras)
  - Urban Emergency Command – Surveillance systems, Emergency call buttons, Smart Poles, Incident Management Systems

- **HEALTHY LIFE**
  - Smart Healthcare Project
  - Smart Water Resource Management with SCADA enabled system
  - Smart Gas, Smart Solid Waste Management

- **HAPPY LIFE**
  - Smart e-government
  - Smart education
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<thead>
<tr>
<th>MUNICIPAL</th>
<th>LIVE</th>
<th>WORK</th>
<th>ENJOY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pay Property Tax Online</td>
<td>City Information</td>
<td>Job Search/Postings</td>
<td>Events</td>
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<td>Building Sanctions/Registration</td>
<td>Digital Community Centers</td>
<td>Starting a Business</td>
<td>Dining-Out</td>
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<td>Geoportal (Land Records)</td>
<td>Public Transportation</td>
<td>New Trade License</td>
<td>Things to do</td>
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<td>Pay Utility Bills</td>
<td>Emergency Helplines</td>
<td>Street Vendors Licensing &amp; Management</td>
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<td>Birth/Death Certificate</td>
<td>Real-Time Information</td>
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<td>Digital Locker</td>
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<td>Waste Management</td>
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<td>Grievances/Complain Redressal</td>
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e-Governance services – Citizen Connect
e-Governance services - Internal

- Rate Contracts
- Sub contract services
- E-Tendering
- Material & Stores Management
- Bulk Purchases
- Purchase Contracts

- Project Planning
- Project costing
- Cost & Works Monitoring
- Project Management

- Project Planning
- People Information
- Payroll Management
- Performance Management
- Recruitment

- E-Procurement & Supply Chain
- Projects & Works Management
- Financials
- Asset Lifecycle Management
- HR and Payroll

- Maintenance of over land and underground assets
- Workflow notifications
- Link with IoT
- Preventive Maintenance
- Break fix Maintenance
- KPI for SLA Management
Smart City Implementation – SCM Proposal

AREA BASED PROPOSAL – INR 1419 Cr
(A) Micro-climate Management measures
(B) Urban mobility with emphasis on TOD
(C) Blue-Green
(D) Social inclusion & Economic Development
(E) Basic services
(F) Improved governance

PAN CITY – INR 393 Cr
(A) Smart solar light pole with CCTV
(B) Smart electric buses
(C) Household smart meter connections
(D) Commercial and industrial smart meters
(E) Customer Survey
(F) Digitisation of distribution network
(G) Bulk Metering at each zone (DMA)
(H) SCADA
(I) Mobile app
(J) Consumer Awareness
(K) Leak Detection sensors
(L) Flood Detection sensors
ICT Implementation PLAN

**Phase 1: Master Plan+Design Phase**
- Requirements Gathering and Visioning;
- Detailed Engineering;
- Development of RFP & Bid Process Management;
- Award of Contract for MSI & MSI Mobilization.

**Phase 2: Implementation Phase**
- System Implementation;
- Integration, Testing & Commissioning

**Phase 3: Operations Phase**
- Operations & Maintenance

**Monitoring and Oversight**
The Panel

Rajeev Vijay, Director, Ch2M
Over 25 years’ experience in across multiple infrastructure sectors, leading planning and implementation of large scale Greenfield townships and smart cities

Raghunath Babu, Surbana Jurong
Key in setting urban systems for URA, Singapore and For last 13 years he has been actively pioneering urban systems setting up in various countries in Asia and Africa

J. Satyanarayana, IAS (R), Advisor to Hon’ble CM
Founder of e-Seva, and leading formulation of e-Governance and Capacity Building Roadmaps for states

Purushottam Kaushik, Former MD, Cisco
Experienced expert, advisor and trusted consultant across Smart cities, IOT, Digital India

NSN Murthy, Partner & Leader, Smart Cities, PwC
Leader on smart cities, designed several projects in the area of Smart Cities, Public Safety, Urban Transportation and Sanitation
What are the smart components that have been incorporated in Infrastructure, and are they state-of-the-art? How are they integrated?
1. What are the best models and technology to provide High Speed Network?
2. What type of Data Centre?
3. What are best practices in the architecture for the Integrated Operations Centre?
4. How to bring in wholistic thought and integration with multiple stakeholders?
What is strategy for Total Lifecycle Digital Asset Management?
1. What are the successful examples – integrated or with line departments?
2. How its architecture is important in the context of integrated and total lifecycle digital asset management?
3. What institutional structure to implement it?
What are popular e-services under Smart city?
How are we making our way there?
e-Gov Services

1. What are popular e-services being implemented?
2. What more expectations from citizen’s that is still to be adequately addressed?
3. How best to bring these under a common platform.
Questions welcome!!