



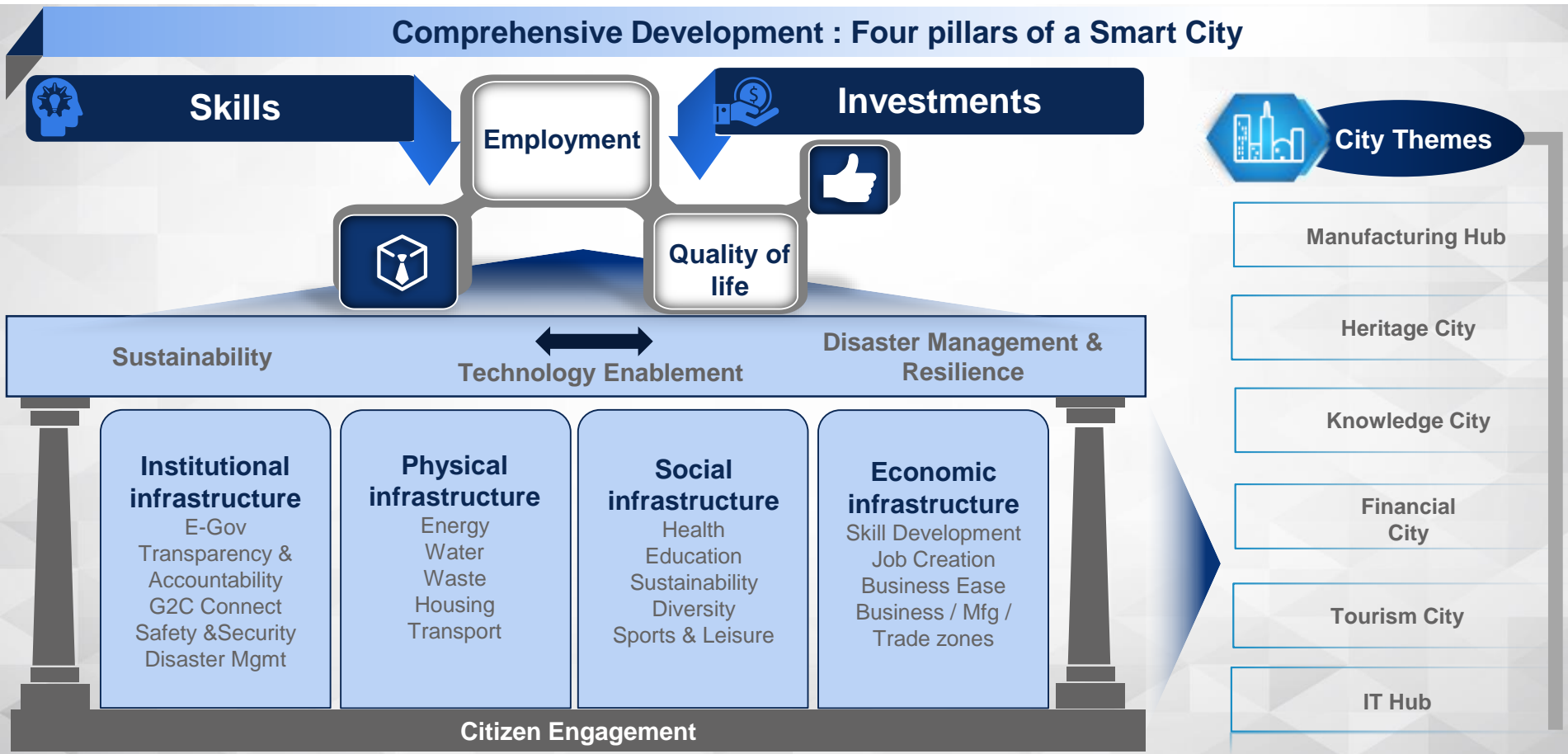
Smart Cities India

Smarter, Simpler, Better

Agenda

- **India Smart City Overview**
 - Framework
 - Charter
 - Approach
 - City Management
 - Investments
 - Financial Models

India Smart City Framework



India Smart City Charter

3 years into smart city plan by MoUD, 25% of RFPs released by SPVs / CIVIC Bodies

100 Smart Cities Program – Launched in 2015

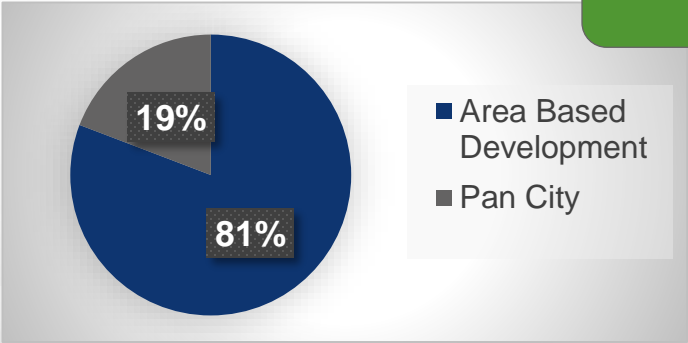


Additional 10 Cities planned

5 Year Program 2015 - 2020

US \$14 billion

Total Urban Population
Impacted
99,630,069



Approach for Achieving Smart Cities Vision

City Vision



Urban Infrastructure



ICT Enablement

Roadmap to Achieve Smart City's Vision

As is Study

- Existing Urban Infra
- Municipal/ citizen services
- City operations gaps
- E-Gov Initiatives
- ICT initiatives
- Quality of Life

Requirement Analysis

- Urban Planning
- Integrated City operations
- ICT enablement
- G2C/G2B services enhancement

Solution approach

- Urban Infra Projects
- E-Gov & ICT projects
- Resource Optimization
- Financial enablement
- ROI Modelling

Staging of Deliverables

- Project Planning
- Prioritizing projects
- Defining KRAs for the projects
- Clustering of projects

Phase wise Implementation

- Implementation Overview
- Risk Mitigation
- Stakeholder Management
- Quality Assurance

Enablers



- ❖ State Presence
- ❖ Government Liaison
- ❖ One Team Approach
- ❖ Risk Mgmt Practices

- ❖ Smart City Vision doc
- ❖ Infra / App Frameworks
- ❖ Implementation KPI's
- ❖ Smart City Templates

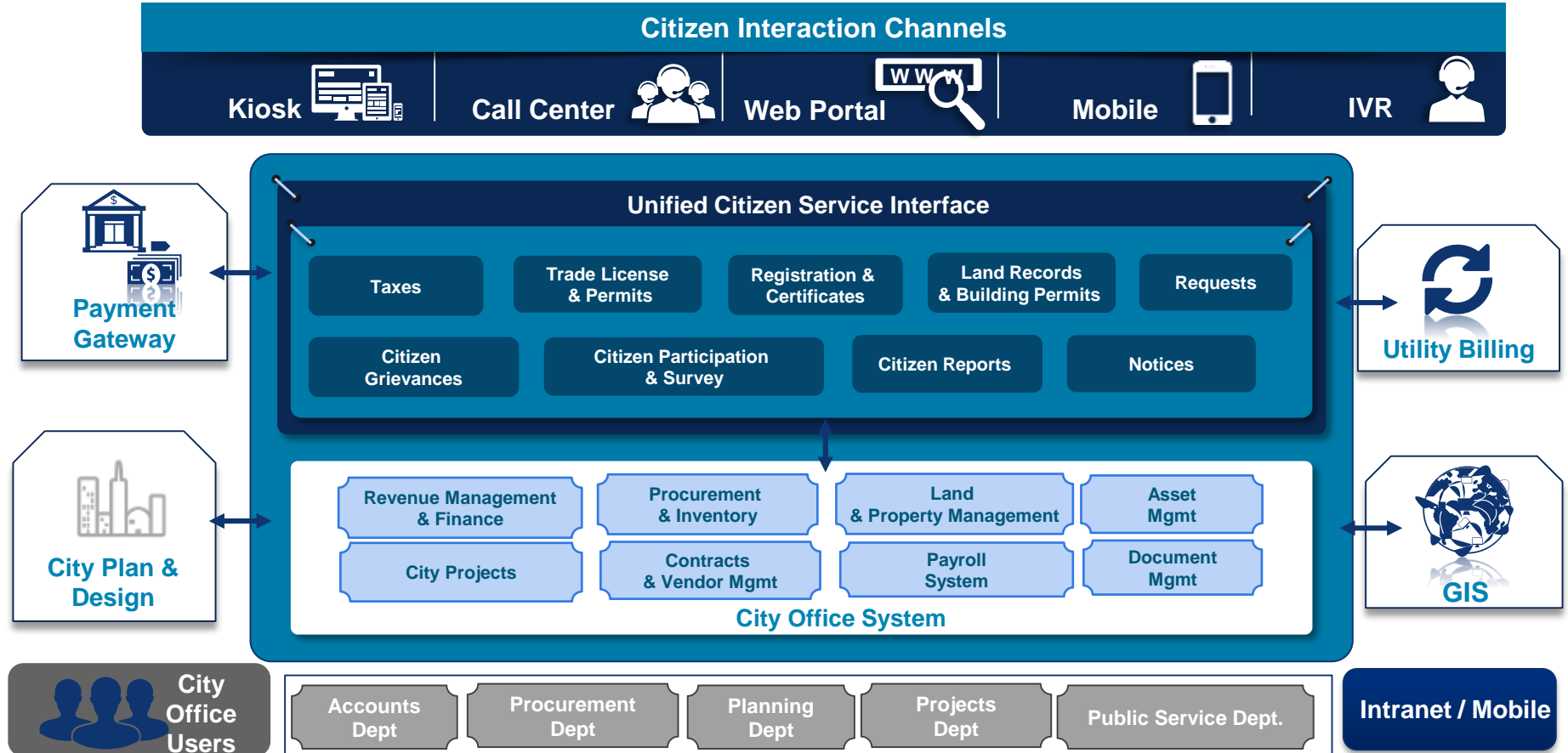
- ❖ Quality Mngt
- ❖ Process Excellence

- ❖ Smart City Ecosystem
- ❖ Global City Benchmarks

- ❖ Service Integration and Mgmt Framework

- ❖ Commercial Model Kits
- ❖ Sustainability

City Management



Investments and Open Spaces

Technology Investments till date :

- Public Safety
- ICCC with 3-5 use cases (Smart Lighting, Waste, ITMS, Parking, WiFi, Digital Signage etc.)
- Infra setup for connectivity and command center

Technology Area's Open for Investments :

- Analytics and Artificial Intelligence
- Use cases on water utilities, sustainability,
- Citizen Services enhancement
- 3d Modeling, City Twin

Other Transformation Initiatives

- Highways Management – Auto Tolling, traffic compliance & violations, safety / security
- Utilities – Smart Metering and management – AMI / AMR / HES etc
- APM and IoT based transformation for PSU's like NTPC / ONGC / HPCL / BPCL etc
- Building Automation, Management and Maintenance across sectors
- Digital Twin
- Airports and Ports Transformation

Financial Models

- SITC Contracts with 5-year support
- Bidding Options
 - QCBS
 - Two Bid
 - Consortium allowed
- CAPEX Based with NPV
- OPEX based
- PPP Model



Thank You