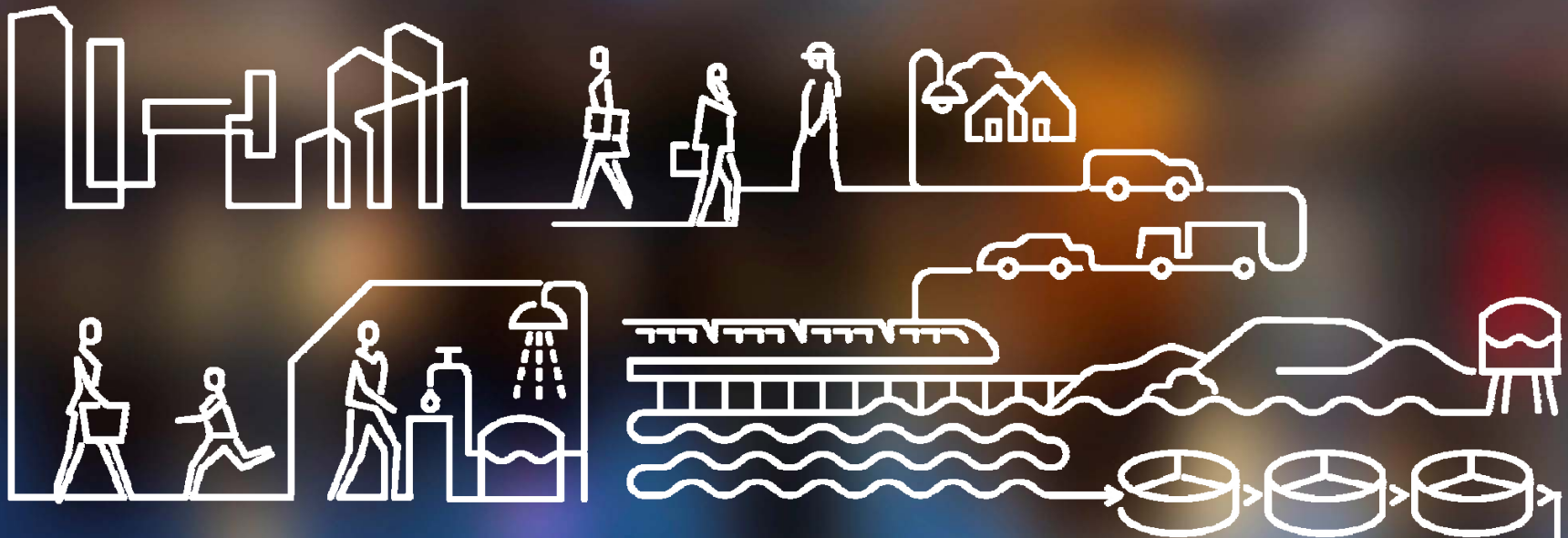


The Aurangabad Industrial City (AURIC)

One of India's first smart and sustainable cities



Boston Smart Utilities
BRA Meeting
May 25, 2016

ch2m.SM

Shendra-Bidkin Smart City, India

New greenfield, smart city that supports India's urbanization strategy

CH2M - Cisco Partnership

- One of the first smart industrial cities along Delhi-Mumbai Corridor
- Largest infrastructure program in India
- 150,000 jobs
- 300,000 residents

Implementation Begins at Shendra

Phase 1

- Master Planning
- Design Management
- Construction Management
- Technology Management
- Commissioning



Key Concepts for Infrastructure Design and Management

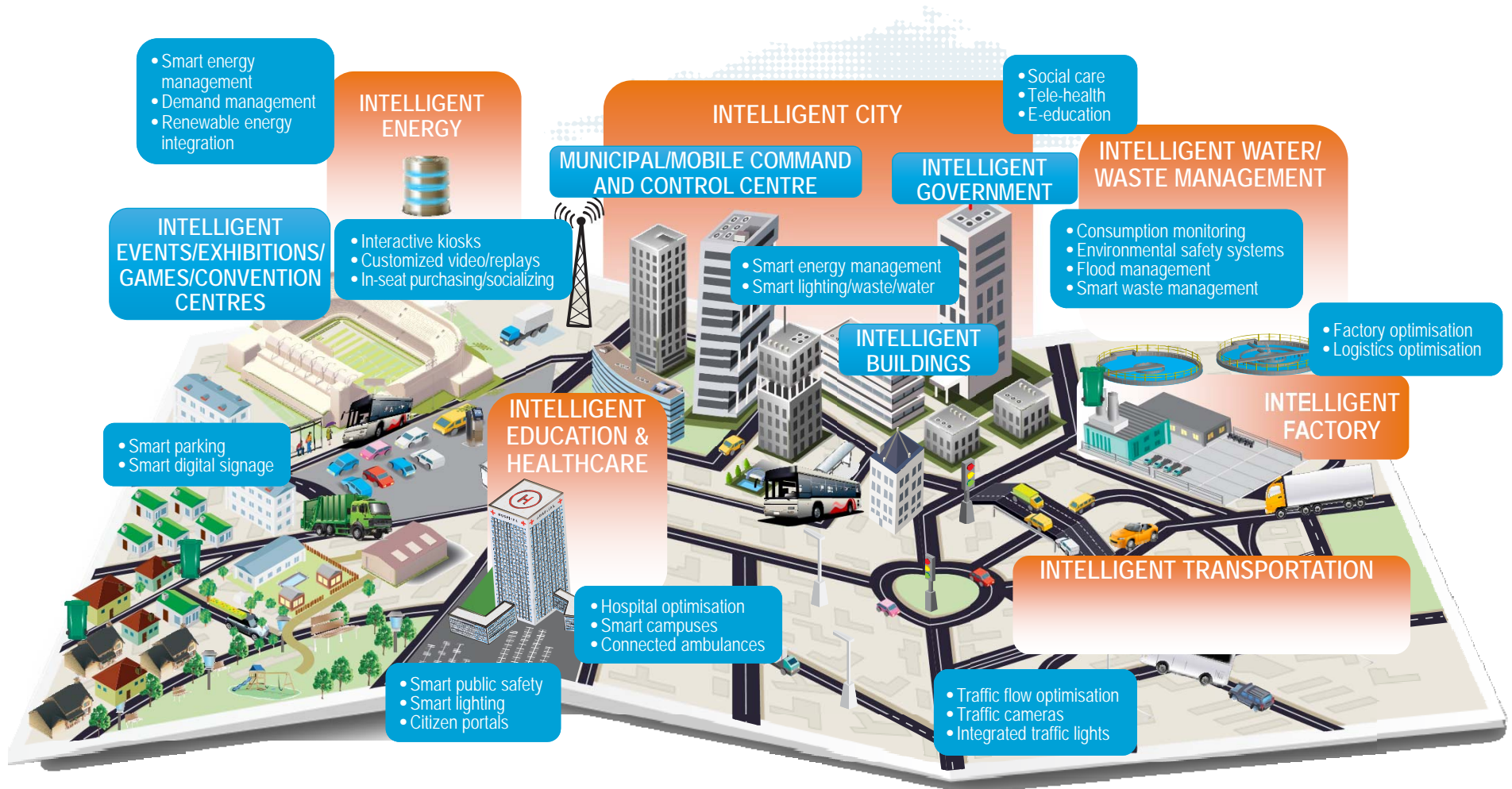
Infrastructure

- All utilities located underground with separate ducts for growth
- Zero discharge city for water. Recycled water used for conservation.
- Separate 220 KV substation for Shendra and Bidkin
- Utilities and transportation systems monitored from a Central Command Center

Management

- AITL- A City in itself- City Management Contract
 - Reduction in manpower with better cost effective ways
 - International Standard for City Governance & Operations.
 - Quick response & Customer satisfaction

Integrated Land Use and Information Technology Planning



Infrastructure & Communications Technology



1 Parking

Give citizens live parking availability information to reduce circling & congestion.

2 Traffic

Monitor & manage traffic incidents to reduce congestion and improve livability

3 Safety and Security

Automatically detect security incidents, shorten response time, and analyze data to reduce crime.

Infrastructure & Communications Technology



4 Location Services

Provide view of people flow data to aid planning & leverage location data for contextual content and advertising.

5 Street Lighting

Manage street lighting to reduce energy & maintenance cost.

→ Common Information Layer

→ Shared infrastructure Layer

AURIC

Expertise in all areas of

urban development and regeneration



Urban
planning and
design



Smart
technology
integration



Infrastructure
design-build



Delivery
management



City
operations
services