Smart City Proposal Muzaffarpur

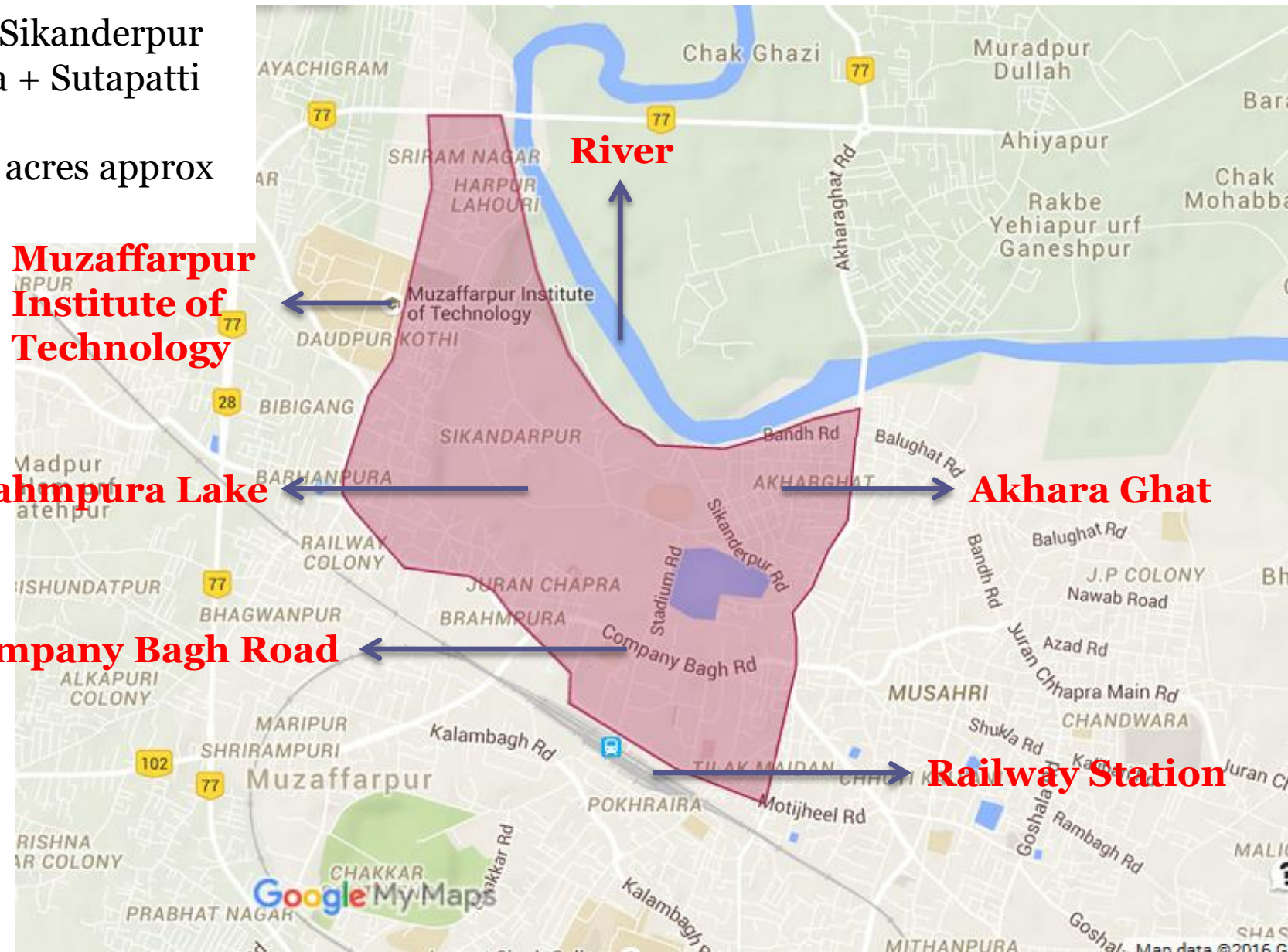## Smart City Proposal to Participate in Smart City Challenge Round 2

Draft Area Based Development and Pan City Initiative

Area Based Development

Location : Sikanderpur
Mann Area + Sutapatti

Area : 920 acres approx

Key components of the Area Based Development

1. **River Front Development**
   - An upstream Wetland for river cleaning
   - Ghats/Eco Park/recreational Park
   - Urban Haat for local artesian

2. **Brahmpura Lake Front Development**
   - Rejuvenation of lake edge with added activities
   - Iconic Structure for the city
   - Pedestrian/Green links.

3. **Open Spaces and Landscaping**
   - Rejuvenation of Large open spaces with added activities
   - Landscaping along road edges, new parks and natural drainage channels.

4. **Development of Stadium Complex**
   - Better infrastructure for existing stadium
   - New sports complex

Key components of the Area Based Development

4. **Development of Central Business District**
   - De-congestion of Sutapatti commercial area.
   - Development of new markets

5. **Transport Infrastructure**
   - Road surface improvements, and junctions reorganization
   - Pedestrian friendly Road sections (improvement)
   - Smart parking, Intelligent Traffic system, Regalised vehicular and pedestrian zone, energy efficient street lighting.

6. **Core Infrastructure**
   - 24X7 water supply and dual pipe system
   - Sewerage system with SBR – STP, Recycling waste water
   - Drainage system and Smart SWM system.
   - Power Infrastructure for assured 24 hour supply, underground wiring

Key components of the Area Based Development

1. **Smart Informal sector and inclusiveness**
   - Better infrastructure for existing setups.
   - New formal vending zones with Smart Kiosks
   - In situ up gradation of slums, mobile schools, Night shelters

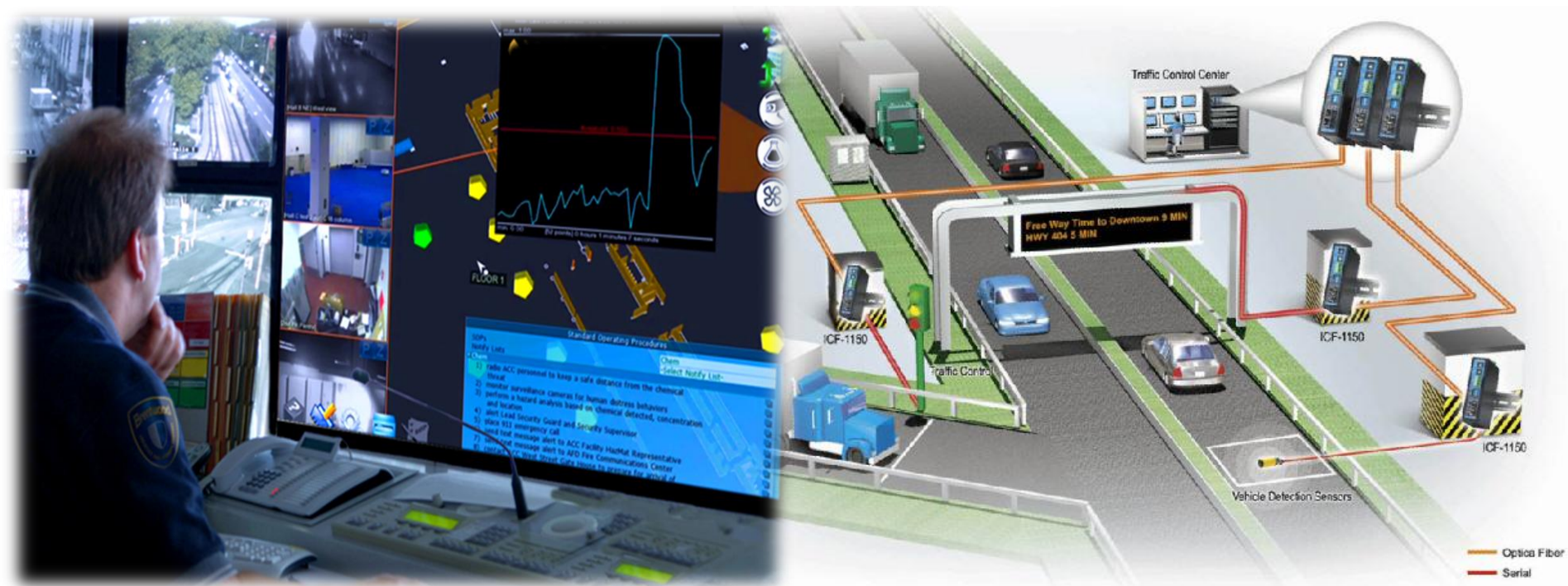7. **Smart Buildings**
   - IT enabled Smart facilitation center
   - Converting Municipal Corporation Building & Civil Hospital into Green Building.
   - Renovation of cultural institutes, Public Digital library

8. **Other Smart components**
   - SCADA, Digitalization of Municipal Services, Smart meters
   - Free Wi Fi connectivity at select places.
   - Biodegradable Smart Toilets
   - Use of Solar Power in all government buildings
   - Smart warning system for flood and backflow.

Pan-City Initiative

1. Intelligent Transport System
2. Intelligent Street Lighting

Key Components – Pan-City Proposal

- **Command & Control Center (CCC)**
  - *Setting up of Video Surveillance System*
  - *Video Management Software,*
  - *Commissioning of surveillance application,*
  - *Integration with VMS and training to staff,*
  - *Incident Alert System in case of fire, law & order violations*
  - *Automated disaster management system*

Key Components – Pan-City Proposal

- **Intelligent Traffic Management System (ITMS)**
    - *Establishment of Traffic Control Center (combined with CCC)*
    - *Real-time Public Information System*
    - *Traffic Mapping on Web and Mobile App*
    - *Installation and commissioning of Traffic Signals, CCTV Cameras and Traffic sensors at different designated locations*
    - *Dynamic Traffic Signaling System*
    - *Incident Detection and Management*
    - *Listing of Parking services on GIS Map*
    - *Real-time occupancy status of parking*
    - *E-Challan system*
    - *Automated Traffic Discipline Detection*
    - *Public Feedback and Redressal monitoring system*
    - *Public Awareness for Traffic Rules and Regulations*
    - *Integration of GPS enabled para-transit system*
    - *Multimodal transit management system*

Key Components – Pan-City Proposal

- **Intelligent Street Lighting**

"SMART GRID" STREET LIGHT
- Photocell Control
- 0-100% dimming
- On-Demand Light Levels

CONCEALED PLACEMENT SPEAKER (CPS)
- Music
- Announcements
- Alerts

DIGITAL STREET SIGN

FACADE LIGHTING
(Color Changing)

PUSH TO TALK SYSTEM "BLUE BUTTON"
(Emergency Call Station)

WIRELESS DUAL BAND MESH TRANSCEIVER

RGBA NOTIFICATION
(Indicator Light)

IMAGE SENSOR
- Proximity Sensors
- Pedestrian Counter
- Homeland Security

DIGITAL SIGNAGE
- Way Finding
- Traffic Direction
- Alert Notification
- Civic Information
- Revenue Generation
(via advertising)

MAIN ST

Please give us your suggestions
- Thank You