India’s Heart, Nagpur
Nagpur - In Smart City Context

- Population:
  - 2001: 2.0 mn
  - 2011: 4.3 mn
  - 2041: 2.5 mn

- District population resides in Nagpur: 52%

- 3rd largest UA in Maharashtra

- Emerging Health Hub in the central India

- 4% contribution to state GDP

- Best Emerging city in Education

- India Today Awards 2015

Source: Revised CDP 2041, Economic survey of Maharashtra 2015
Envisioning Smart Nagpur

e³i

“To transform India's heart-Nagpur into the most liveable Eco-friendly, Edu-city that Electronically connects people with the government to co-create an Inclusive ecosystem”

A city that seamlessly connects governments, businesses, people, spaces with intelligence to co-create a clean, green, prosperous and safe ecosystem
Strategic Blueprint to make Nagpur smart

4 Transformation Agendas

1. Smart Environment
   - Carbon Neutral & Sustainable Habitat
   - Swachh Nagpur
   - Urban Greens

2. Smart Living
   - Inclusive Living
   - Poly-centric City
   - Safe & Walkable Streets
   - Economic Vitality

3. Smart Mobility
   - Transit Oriented Development
   - Connect Places & Move People
   - Urban Regeneration with Walk-to-Work principles

4. Smart Governance
   - Digital, Efficient & Transparent Governance
   - Revive Nagpur’s image as regional economic centre and boost job creation

12 Focus Areas

- Transit Oriented Development
- Connect Places & Move People
- Urban Regeneration with Walk-to-Work principles
- Digital, Efficient & Transparent Governance
- Revive Nagpur’s image as regional economic centre and boost job creation
Combining people’s aspiration and analytics

**Consultative**

- Sensitizing Nagpurians about Smart City program
- Sustained media campaigns FGDs with domain experts
- Engaging more than 3 lakhs households to encapsulate aspirations of Nagpur
- Engaging with citizens to finalize smart city interventions

**Analytical**

- Understanding geospatial growth of the city
- Mapping of status of core infrastructure and quality of life in the city (Prabhag level)
- Identifying key intervention areas
- Mapping opportunity landscape to leverage maximum impact of proposed area based interventions

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Smart City Proposal
Extensive Citizen Engagement

**Phase-I**

Visioning Exercise

- Smart City Idea challenge
- Focus Group Discussions
- Crowd Sourcing 235,194 Households’ inputs
- Campaign by TOI and Sakaal
- Daily coverage
- Interface between citizens and NMC; 30% women participation

**Phase-II A**

Pan city intervention

- Citizens requested to register concerns and intervention preferences
- Two display vans visited 10 locations a day for 3 days
- Citizens participated in by filling forms
- 10,000 citizen inputs

**Phase-II B**

Area Based Intervention

- Existing vs proposed scenarios presented
- 11,193 households’ inputs
Citizen Engagement

Idea Challenge

Smart City
Media Campaign

Sakal Campaign for Nagpur’s Smart City Vision

Over 100 participants

Citizens want: Employment, strong public transport and clean & environmentally sustainable city
Sakal Campaign for Nagpur’s Smart City Vision

Citizens want- Center for art & culture, development of peripheral areas, public and health facilities for senior citizens
25 लाख मनांपूर्त पोहोचण्याचा निर्धार! 
आयुक्त हर्डिकर : ‘स्मार्ट सिटी’ साठी पुढाकार घेण्याचे आवाहन

उत्तर अंबाजीरा मार्ग : नागपूर महानगरपालिका व इन्फ्रस्ट्रक्चुर ऑफ इनजिनिअर्स चांगल्यावर, आयोजित स्मार्ट सिटी कार्यशाळेत उपस्थितीत सामाजिक, मशीनिक, ओय्डिगियन, सामाजिक संस्थांचे प्रतिकार, दिन सर्वेक्षण व तानाशा सर्वेक्षण ‘स्मार्ट सिटीच्या नागरिकांच्या सहभागाने आणि स्मार्ट सिटीची संस्थाना सामान्य सांगणाना महानगरपालिका आवश्यक बाध्यकर.

ताकार मार्गी नागरिकांने उपभोक्ता होती, ती कार्यक्रमात शहरातील सामाजिक, राजकीय, विधानांचे पदाधिकारी तसेच विभिन्न महानिर्माणांमध्ये शाखेचे युवराज्यांच्या व महिला संघटना मोडणे संडळे उमितात झाली. शहरातील संघां, संघांच्या तरंग महिलांना साह सांगणार्यावर पुढे जाणे शासन नाही. पाच लाख लोकांचे पोहोचण्याचे आवाहन, नागपूर महानगरपालिका पेट्रोलियम प्रैक्टिकांचे सहकार्य हवेली पुढे.
Citizens’ Aspirations captured

Nagpur Smart City Citizen Engagement Campaign

We have filled the Nagpur Smart City Citizen Engagement Form, have you?

Provide your Vision & help make INDIA’s HEART, NAGPUR SMART

Login to www.smartcitynagpur.com
Extensive use of Media Platforms

Sustained media campaign
Interviews of Mayor and Commissioner

Regular fb updates on smart city
www.facebook.com/smartcitynagpur

Regular polls on ideas, issues, feedback through WHATSAPP.

TWITTER handle. @smartnagpur

Smart city website
http://www.smartcitynagpur.com/index.html

More than 25,185 citizens visit the Facebook page

Radio Advertisements. RJ bytes

Mygov.in
Aspirations of Nagpur from citizen survey Phase-I

Top concerns of citizens

- **46%** say no access to means of **recreation** and **entertainment**
- **42%** say women don’t feel **safe**
- **40%** say no access to **employment** opportunity
- **33%** say Our locality is **not clean** and garbage free
Nagpur joined the Nexus team in 2016
- Signed an MoU with GIZ Urban Nexus and ICLEI South Asia
- Introduction of innovative engineering technologies with regard to solid waste management considering reuse of water and producing energy from waste
  - Cooperation with the National Environmental Engineering Research Institute (NEERI) for the introduction of innovative engineering technologies
  - Conducted waste characterization study to assess feasibility of innovative Maximum Yield Technology (MYT) to treat waste

Solid Waste Management also one of the Focus Area under the Smart City Proposal
Urban Nexus in Nagpur

• Training and capacity building
  – 2 engineers attended training program in Wastewater management (focusing on vacuum sewer technology) in Hanau, Germany in September, 2016
  – 2 engineers had an exposure visit to MYT Solid Waste Management Plant, Hangzhou, Zhejiang, China

• Peer-to-peer Learning Event: Mongolian delegates visit Nagpur
  – Wastewater treatment plant
  – Smart Strip under Smart City Mission
Key Policy Suggestions

• Institutionalize Nexus approach in planning phase of a project/master plan for optimum resource efficiency

• User charges/tariff plays an important role in infrastructure projects; ensures resource efficiency and increases revenue for the local government (E.g. of 24*7 water supply in Nagpur)

• Participatory approach is the key to successful implementation of project; creates demand from public (E.g. citizen engagement in Smart City)

• Knowledge sharing platforms/city-to-city learning for building capacity of officials (E.g. Urban Nexus: visits of officials to Germany and China and Visit of Mongolian delegates to Nagpur)
Thank You

Mr. Ravinder Deotale
Deputy Commissioner
Nagpur Municipal Corporation