



# IMPLEMENTATION OF GIS-BASED PROPERTY TAX IMPROVEMENT IN ULBs









**DECEMBER 2015** 

Madhya Pradesh Urban Infrastructure Investment Programme (MPUIIP)

## GIS-MPHS (Multi-Purpose Household Surveys) IMPLEMENTATION

GIS-MPHS project started in Burhanpur, Dewas, Katni, Khandwa & Singrauli towns in 2011. The survey comprises of 2 components: (a) Revenue Surveys for all properties; and (b) Socio-economic Surveys of Slums.

### **Objective of Revenue Surveys**

- To provide complete coverage of all properties using latest high resolution satellite data
- To create a robust database of all properties through a door-to-door 'contact' survey.

#### **Process followed**

#### **Satellite Data Procurement**



**Property Mapping** 

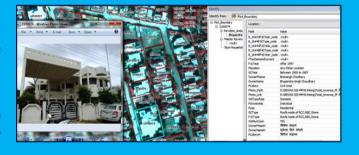


**Door-to-Door Survey** 

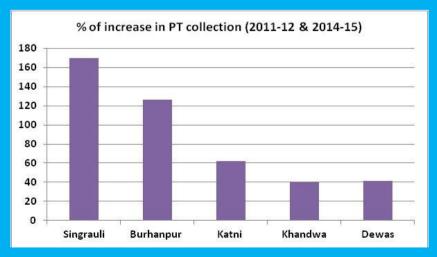


#### **Outcomes / Results**

- Created database of all properties including property tax (PT) assessment parameters.
- Identified un-assessed (34%), under-assessed (43%) and parameters for PT not available (23%) properties.
- Established link between property location onto GIS map and its corresponding property details with photograph.



Direct and indirect impact of MPHS-GIS has led to 70% increase in PT collection in last 3 years.



## **SUPPORT PROPERTY TAX IMPROVEMENT (SPTI)**

SPTI project initiated to support five ULBs (Burhanpur, Dewas, Katni, Khandwa & Singrauli) in updating property tax demand based on MPHS-GIS findings in January 2015.

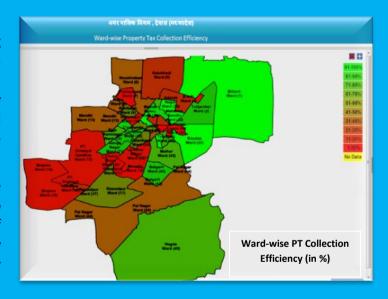


GIS-based Property Tax Improvement System (GIS-PTIS) has been developed to support municipal property tax administration. It allows municipal officials to perform procedures for PT administration and generate standard MIS & GIS reports.

GIS-PTIS solution is the exclusive property of the GoMP, who may use (after some customisation) it in any number of ULBs within the State as it may deem fit.

PT demand is being updated based on MPHS-GIS data using GIS-PTIS in five pilot wards in each ULB. The initial results indicate an average increase in PT demand by over 100%. Updating PT demand process will be rolled out in the remaining wards in all 5 ULBs.

With the help of GIS-PTIS, the municipal officials will able to oversee the spatial coverage of properties including property details and collection of property tax on the GIS map.



GIS-based property survey and updating tax demand is a complex reform. A step by step process has been designed and followed to implement the GIS-based PT reform.

#### State Level Initiatives

- Implementation of GIS-based MPHS and updating PT demand rolled out to over 100 ULBs.
- State plans to implement GIS-based MPHS and support in updating PT demand in all ULBs by 2018.



## **Urban Development & Environment Department (Government of Madhya Pradesh)**

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