

A first-of-its-kind  
e-governance initiative in India.



### GIS-based (Geographic Information Systems) Property Identification (PID) Number for property tax collection & assessment

As the Chairman of the BBMP Taxation and Finance Committee in 2011-12, I conceptualized and implemented the Property Identification (PID) number using the GIS methodology - a first-of-its-kind e-governance initiative in India to digitally map properties and bring them under the tax net. **What Aadhar/UID is for people, PID is for properties.**

#### How

- Geo-enabled property survey
- Zone-wise property assessment
- Area-wise information on the tax collected
- Online portal for property tax collection
- Notice generation for tax default cases
- Advanced MIS (Management Information Systems) & GIS (Geographic Information Systems) reporting

#### Impact

- Eliminated the manual payment of tax
- Helped identify illegal property encroachments
- 6x revenue growth for the BBMP

### GIS (Geographic Information System) based Road History for Road Infrastructure Management

A by-product of PID, the Road History project was implemented by me, to map all the roads and the associated government infrastructure on the roads, on the sides of the roads, and below the roads, across Bengaluru.

#### How

- GIS-based reports on the work being carried out
- Built-in inter-department coordination for effective management of road infrastructure

#### Impact

- The data including that of the arterial, sub-arterial, and ward roads were mapped to 99% accuracy

<ul style="list-style-type: none"> <li>• Single window clearance</li> <li>• Online dashboard to monitor the progress of road works</li> <li>• Citizen profile management</li> <li>• Advanced MIS (Management Information Systems) &amp; GIS (Geographic Information Systems) reporting</li> <li>• Considered to be a Mother-Document to have 100% efficiency in governance in all Urban Local Bodies (ULBs)</li> </ul>	<ul style="list-style-type: none"> <li>• Details like a drain, its size, the longitude, and the latitude, etc of over 13,000 Km of motorable roads in Bengaluru were captured</li> <li>• Improved the accuracy of the overall budgeting process</li> <li>• Transparency and accountability into various road work projects Bengaluru, ensuring efficiency in public assets management</li> <li>• Curbed rampant corruption and mismanagement in awarding contracts</li> </ul>
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Unaccounted-for Water (UFW)	
An act of curiosity to understand the water problem in the Malleshwaram constituency, led to the initiation of The Unaccounted-for water (UFW) project in 2012 - an offshoot of PID again.	
<p><b>How</b></p> <ul style="list-style-type: none"> <li>• Superimposing BWSSB connections with the PID to identify and plug the pilferages in water consumption.</li> <li>• Effective monitoring and tracking of usage</li> <li>• Revenue loss analysis</li> <li>• An online comprehensive GIS and web-enabled citizen information interface</li> <li>• Integration with other assets and infrastructure for provisioning of its functions and services</li> <li>• Advanced MIS (Management Information Systems) &amp; GIS (Geographic Information Systems) reporting</li> </ul>	<p><b>Impact</b></p> <ul style="list-style-type: none"> <li>• 2x revenue growth for the BWSSB</li> <li>• BWSSB started mainstreaming water connections and plugging pilferages resulting in drastic increase in efficiency</li> <li>• BWSSB is now eligible for directly getting and repaying loans by the World Bank Standards at subsidized rates, because of its increased efficiency.</li> </ul>

## Accolades & Recognition

- Recognized by the then **Deputy Chairman of the Planning Commission of India**. Planning Commission suggested that, under the Jawaharlal Nehru National Urban Renewal Mission(JNNURM), the PID project be implemented across the country without any changes
- Recognized & Awarded by the **World e-Governments Organisation of cities and local governments (WeGO)** in Barcelona, Spain for the PID initiative. **First Indian citizen and first urban local body in India** to be recognized by WeGO award.
- Recognized & Awarded by the **World e-Governments Organisation of cities and local governments (WeGO)** in 2014 Chengdu, China for the GIS-enabled Road History program.
- Endorsed as the **“most suitable candidate”** for Kadu Malleshwara by citizen activist group B.PAC and awarded as **“#1 Corporator”** by **“Citizens for Bangalore”**.