



## World's Largest Municipal Corporation Streamlines Its Property Tax Valuation and Collections

One of the major sources of revenue for any Municipal Corporation is its property tax collection. Due to the rapid urbanization and rampant urban sprawl, the Urban Local Body often finds it difficult to upgrade their property database at an equivalent pace creating a huge gap between the official property records and the actual ground situation. Erroneous official property records have a cascading effect on revenue realization.

The project city has an area of 461 sq. km with approximately a total of 2.5 lakh properties. Mobilizing teams to survey and update property database for such a gigantic area is a mammoth task for them. As a cumulative effect, the loop-holes-ridden system drains the revenue channels. The Urban Local Body wanted to have a transparent and enterprise-wide solution that could eradicate the operation hurdles in property validation and turn it into a profitable exercise.

Genesys designed the entire solution considering the various leakage points like inaccurate property delineation and data pertaining to property usage and type of construction. The combination of state-of-the-art data acquisition technologies with customized web-based application proved to be a cohesive solution to plug-in the revenue leaks. High resolution Satellite Imagery (30 cm) and LiDAR point cloud data was used for accurate boundary delineation with a precision of +/- 5 cm. 360-degree Panoramic Imagery provided 'As-is' street-view capturing street furniture.

Authentic field data was collected using the tablet application, equipped with an in-built geofencing that ensures its activation only when inside the specified premises. The user friendly customized frontend was developed using latest web technologies. The robust database management system was designed on Postgres.

**Key benefits:**

- The solution is expected to raise the total annual revenues by significant margin
- Remote visualization of the ground reality on the desktop increased the transparency within the system
- Tapping the variable property tax from hoardings and telecom towers. Accurate dimensional data of hoardings and telecom towers can help countercheck the tax calculations which are based on size and height of the asset
- Consistency in MIS data and ground reality -
  - Easy & Fast grievance redressal
  - Convenient and regular data update
  - Generation of multiple reports