# senryo
THE THOUGHT BEHIND THE SOLUTION

Case Study: Application Development

# How a Government Organization Resolved Issues Resulting from Multiple System Platforms

## Organization
A government organization that oversees the design, construction, maintenance, and management of public infrastructures

## Challenge
Poor data quality on geographic information resulting from multiple systems used as data sources for vital organizational information

## Solution
Explored specific services for deriving master data and validation services while retaining GIS service as the single source of truth for all geographic information

## Benefits
Ensured data reliability and consistency and enhanced user experience

The client is a government organization that oversees the design, construction, maintenance, and management of public ways, transit stations, streetlights, traffic signals, signs, pavement markings, and streetscapes for sustainable infrastructure design and development. They work to ensure that these infrastructures function safely and efficiently and all projects are on track.

## Challenges

The client's application needed high quality location information — such as geographic information and addresses — which was vital for its city functions. However, the app was relying on multiple sources (such as LDB database, Streets database, and GIS database) for this information, and it was a tedious task to ensure the validity and accuracy of all the data. The application was also using multiple platforms and databases, which made it impossible to ensure periodic updates, resulting in the poor quality of data being captured in the system.

## Solution

Senryo Technologies redeveloped the client's application; the approach was to design a solution capable of deriving lookups from the Master Data while offering validation services. These new services and functionalities allowed the client to ensure dependable address validation using GIS service as the single source of truth for up-to-date and accurate data.

## Benefits

Improved reliability of address information in the system

Improved consistency across systems

Enabled inert application mapping, as required

Enabled users to enhance information related to plotted maps

Enhanced user experience