



CITY
LAYERS

DEVELOPMENT IS ALL ABOUT PEOPLE;
WHO THEY ARE, WHERE THEY LIVE
AND HOW THEY LIVE

A SMART CITY IS MADE BY SMART DECISIONS

Near real time handling of city's needs, optimizing resources to do the needful with proper planning and better financials in sectors like education, environment, water supply and waste management, property tax and peoples health.

CITY-LAYERS, JUST ABOUT WHAT YOU NEED TO MAKE A CITY 'SMART'

A new generation Geo-enabled Decision Support System (DSS) is a vital tool for g-governance by enabling near real-time service delivery, processing of large volumes of data, and better revenue management.

CityLayers enables holistic planning and functioning of a city by understanding local sensibilities with global practices. Built on global standards and tailor made for local needs, CityLayers functions on an open source environment and is open to future advancements.

CITYLAYERS

1 SUITE 4 APPLICATIONS

CityLayers Departmental Geo-portal

Departmental geoportal is an Intranet based solution for municipal officials for decision making, data visualization and data analytics, among a host of other functions such as department-wise or user-wise data control, which can be further extended to unlimited levels through spatial boundaries. The Portal offers quick geo-data visualization, sharing and analytical capabilities across platforms like desktops, mobiles and tablets.

Dedicated municipal departmental modules are equipped with basic GIS tools, attributes and spatial query modules along with bookmarks, dashboard, fuzzy searching, map print facility and advanced tools like routing and network tracing.

CityLayers Survey App

This is an application for property tagging and assessment. It incorporates measurement features for mapping a property via direct integration to Laser Measurement devices over bluetooth, updating details, assessment and tagging. Using the app, field surveyors can survey the property and fill in an assessment form that is part of the app, as well as upload all documents required for property tagging. The GIS based app provides users with an interactive visualisation of building footprints on a base map.

CityLayers connector for QGIS

The CityLayers suite consists of a built-in QGIS connector allowing the user to edit and validate spatial data hosted within Citylayers, located on the central database. Users can access the data, edit it and validate it based on the user rights provided against LDAP authentication. The connector implements a 2 step workflow with roles for Editor and Validator. The editing is logged for Audit Trail.

CityLayer Citizens' Portal

This is a web-based application with an easy-to-use interface, that enables citizens to access selected digital maps, understand their location and retrieve information on nearby facilities, to make better location-specific decisions. The app also allows the citizen to contact a specific department with complaints or feedback, enabling Municipal Departments to offer prompt responses to citizens' grievances, and to effect quick and timely measures in emergencies.



MEET THE ENTIRE REQUIREMENT OF MUNICIPAL G-GOVERNANCE

CITY LAYERS ENABLES TO VISUALISE OVERALL SPATIAL DISTRIBUTION OF SCHOOLS.

DIGITAL ELEVATION MODELS ALONG WITH GIS ANALYSIS TOOLS HELPS TO FIND OUT SAFE EVACUATION ROUTES AND ELEVATED AREAS FOR RESCUE CAMPS.

INTEGRATION WITH VEHICLE TRACKING SYSTEM FACILITATES DEPARTMENT PERSONNEL IN MONITORING THE WASTE COLLECTION ACTIVITY.

ROAD EXCAVATION ACTIVITY CAN NOW BE PLANNED BASED ON THE EXISTING UNDERGROUND ASSETS.

LAYERS FACILITATES IN IDENTIFYING SUITABLE VACANT PLOTS IN THE URBAN SPRAWL FOR DEVELOPING NEW PARKS & GARDENS.

HEALTH MANAGEMENT SYSTEM WOULD ENABLE VIEWING THE EPIDEMIC SPOTS AND HELP TO TAKE PREVENTIVE MEASUREMENTS.

UNDERGROUND UTILITY MAPPING WILL NOW HELP IN RESPONDING TO THE MAJOR BREAKS AND LEAKAGES.

DIGITIZATION OF BUILDING FOOTPRINTS ON GEOREFERENCED SATELLITE IMAGERIES GENERATES POLYGONS WITH UNIQUE IDS, WHICH ENABLED MAPPING OF TAXABLE UNITS.

LAYERS ROAD DATA MODEL CONTAINING WIDTH OF THE ROADS & BRIDGES INDICATES DEVIATIONS & AMOUNT OF ENCROACHMENT.

GRIEVANCE REDRESSAL FACILITATES AUTHORITIES TO RESPOND QUICKLY TO THE COMPLAINTS LODGED BY THE CITIZENS.

**TRANSFORM INDIA INTO
A DIGITALLY EMPOWERED SOCIETY**





CITY LAYERS: ONE PRODUCT SERVING MULTIPLE DEPARTMENTS



Land and Estate



Water Supply



Engineering



Property Tax



Park and Garden



Street Light



Education



Town Planning



Health



Slum



Disaster Management



Town Development



Sewerage and Storm Water



Child Development

INTEGRATION WITH E-GOVERNANCE APPLICATION

Building Permission

Asset Management

Birth & Death

Property Tax

Plan & Dig

Project Systems (Yojana)

License Module

Water SCADA



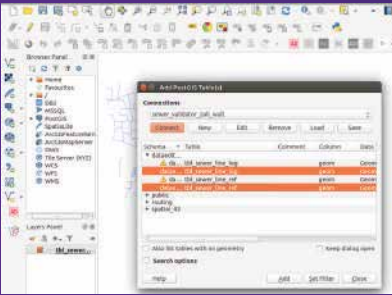
City layer has been conceptualised with the GoI vision of Digital India & Smart City.



CITIZENS' PORTAL



DEPARTMENTAL PORTAL

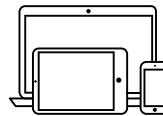


QGIS CONNECTOR



PROPERTY SURVEY APP

City Layers helps in visual representation of the city information over the map.



A web-gis tool built on an open-source environment & globally accepted OGC compliances

City layers is operational across various platforms: desktop, mobile & tablet on all web browsers.

GIS Server	GIS Desktop
Cross Browser and Cross Device	Standard Template
Map Navigation	Spatial Analysis
Query Based Report Generation	Unified RDBMS
Location Finder	Symbology Creation and Display
Supporting All Projection systems	Support for OGC map data formats
Supporting All Datums and Scales	Thematic Mapping
Platform Independent	Rule Based Map and Symbology
Spatial Query	Time Series
Deployment in Virtual Environments	Raster Analysis
SOA	Raster Georeferencing
Periodic Software Updates / Upgrades	Dynamic Labelling
OGC Compliant	Network Analysis
Centrally Managed RDBMS	On-the-fly Projections
High Availability Clustered Environment	Spatial and Non-spatial Data Relationship
Supports Unlimited Access for spatial Editing	SOA
Support Latest Web and Application Server	Export Map
OGC Complaint	Map Viewer
Temporal Data Management	Print Map
Spatial Analysis	Import Data
Access based LDAP authentication and authorization	New Report
Management of Geographic Database	Measure Tool
Support for 2D/3D Data Sharing	Access based Spatial data Editing and Validation
Basic GIS Tools	Standard RDBMS Support
Raster and Vector Analysis	Topology Creation and Validation
Spatial Data Editing	Location Finder
Spatial Analytics	Editing Tool
Network Analysis	Advance Editing Tool
Services Integration	Add Layer
Multi Device Support	Multilingual Support
Supports Cross Browser and Cross Platform	Vector Data Display
Tile Caching	Platform Independent
Vector and Raster Data Visualization	Export to Web
2D/3D Data visualization	Change Detection
Water Catchment Analysis	Layer Authentication
Metadata Repository	Report Generation
Overlay Raster	3D Map View
Cloud Hosting	LAS Tools
Integration with Third Party API and GIS Application	Metadata Management
	Processing Toolbox
	Topology Checker
	Processing Tool Box

**At nascent,
we believe
there is always
a new way of
looking at something,
beyond the rules.**

**City layers on open source is
a bold step towards the mission.**

Feel like having a word about Layers,
a discussion or a casual chat
for innovating something
for the people.


www.nascentinfo.com/citylayers

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