







FUNCTIONAL MODULES OF IMIS

- **BUILDING INFORMATION MANAGEMENT SYSTEM**
 - Maintains information about all existing and new buildings with their building footprints, sanitation system, socio-economic condition, etc.
 - Maintains information about low-income communities with their geographic coverage and sanitation system
- **PROPERTY TAX COLLECTION INFORMATION SUPPORT SYSTEM**
 - Enables to import of property tax or other revenue data into IMIS for spatial visualization of buildings or containments with their tax or revenue collection status
- **URBAN MANAGEMENT DECISION SUPPORT SYSTEM**
 - Dashboard for monitoring the situation of sanitation and other elements required for planning, management and monitoring and evaluation of CWIS
 - Dashboards for monitoring KPIs and CWIS indicators
 - Tools for real-time monitoring of the sanitation service chain
 - Spatial analysis tools
 - Query and attribute analysis tools
 - Basic navigation tools for exploration, analysis, and visualization of spatial data within a GIS environment and tools for printing maps
- **UTILITY INFORMATION MANAGEMENT SYSTEM**
 - Maintains road network information
 - Maintains water supply network information
 - Maintains sewerage network information
 - Maintains drainage network information
- **SOLID WASTE MANAGEMENT INFORMATION SUPPORT SYSTEM**
 - Enables import of solid waste management data into the system for spatial visualization of buildings with their solid waste management status.
- **WATER SUPPLY INFORMATION SUPPORT SYSTEM**
 - Enables to import of water supply bill payment data into the system for spatial visualization of buildings with their bill payment status.
- **PUBLIC HEALTH INFORMATION SUPPORT SYSTEM**
 - Maintains information about hotspot areas where waterborne diseases occurred
- **COMMUNITY/ PUBLIC TOILET (CT/PT) INFORMATION MANAGEMENT SYSTEM**
 - Maintains information about all PTs and CTs in the city with the number of users used and their feedback.
- **SEWER CONNECTION INFORMATION MANAGEMENT SYSTEM**
 - Maintains information about all buildings and their corresponding sewer network
- **FECAL SLUDGE INFORMATION MANAGEMENT SYSTEM**
 - Maintains information about all containments with their geographic location
 - Maintains information about FSM service providers and their resources
 - Maintains information about the Fecal Sludge Treatment Plant and the FS disposed records
 - Maintains the quality test record of treated wastewater and compost generated from the treatment plant
 - Maintains records of services from containment emptying to transport, and desludging of FS in the treatment plant
 - Maintains the customer feedback data

INTEGRATED MUNICIPAL INFORMATION SYSTEM

IMIS

“Empowering Local Governments to achieve SDG 6.2 through CWIS Approach”



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Introduction

The Integrated Municipal Information System (IMIS) is a comprehensive digital platform that seamlessly merges web, mobile, and GIS technologies, leveraging open-source software platforms. This innovative system offers a comprehensive solution for managing the entirety of a city's information. IMIS stands as a holistic solution designed to manage the complete information of a city, empowering local governments in the planning, management, and monitoring & evaluation of sanitation systems and services with the aim of achieving SDG 6.2 through the Citywide Inclusive Sanitation (CWIS) approach.

IMIS achieves this by integrating diverse municipal functions and data, enabling real-time reporting, fostering transparency and accountability, and facilitating the monitoring of key performance indicators. The system facilitates informed decision-making processes, ensuring efficient service delivery and optimal resource allocation for the betterment of the community.

Citywide Inclusive Sanitation (CWIS)

CWIS is an approach to achieve SDG 6.2 for safe, equitable and financially viable sanitation systems and services. CWIS ensures everyone in a city has access to safely managed sanitation, and human waste is safely managed along the whole sanitation service chain ensuring protection of the environment and human health.

CORE CWIS OUTCOMES	EQUITY	SAFETY	SUSTAINABILITY
	Services reflect fairness in distribution and prioritization of service quality, prices, deployment of public finance/ subsidies	Services safeguard customers, workers and communities from safety and health risks by reaching everyone with safe sanitation	Services are reliably and continually delivered based on effective management of human, financial and natural resources
CORE CWIS FUNCTIONS	RESPONSIBILITY	ACCOUNTABILITY	RESOURCE PLANNING AND MANAGEMENT
	Authority(s) execute a clear public mandate to ensure safe, equitable and sustainable, sanitation services for all	Authority's(ies)' performance against its mandate is monitored and managed with data, transparency, and incentives with data, transparency, and incentives	Resources–human, financial, natural, assets–are effectively managed to support execution of mandate across time/space

CWIS approach focuses on service provision and its enabling environment rather than on building infrastructure, therefore, reliable data is the key success factor for CWIS. UN Water SDG 6 global acceleration framework has also identified data and information as one of the five accelerators of SDG 6 outcomes.

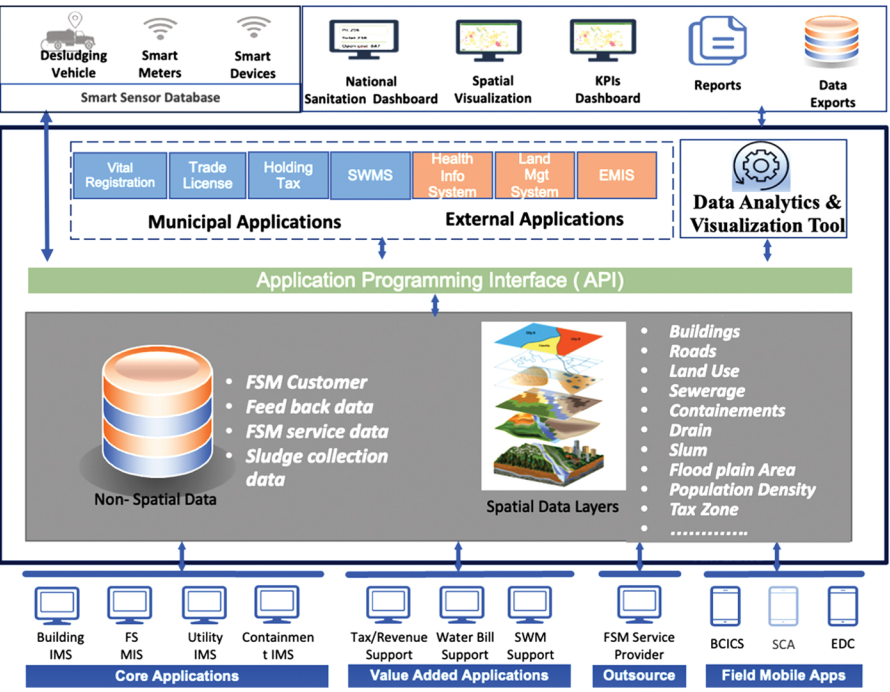
UN Water SDG 6 Global Acceleration Framework



Key Features

- Spatial context for municipal data - infrastructure, services, and resources.
- Efficient storage and management of municipal data, including infrastructure and essential services.
- Integration of CWIS data to support planning, management, and evaluation of sanitation systems and services.
- Decision support tools for decision-making based on spatial analysis and modelling.
- Real-time dashboard for monitoring KPIs and CWIS indicators.
- User-friendly interfaces with access control features.
- Scalability to adapt to the evolving technology and information needs.
- Mainstreaming CWIS service chain into the city's business process.
- Interoperable with external data sources, including tax/revenue, public health, emergency response data and more.
- Robust security measures to safeguard sensitive data, ensuring city data privacy compliance.

System Architecture



IMIS Driven Service Model

Digitalizes the entire sanitation service chain, starting from customer requests for emptying service to the disposal of fecal sludge in the treatment plant, and reuse/recycle of the treated waste.

