

FUNCTIONAL MODULES OF IMIS

BUILDING INFORMATION MANAGEMENT SYSTEM	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Enables 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	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Maintains road network information Maintains water supply network information Maintains sewerage network information Maintains drainage network information
SOLID WASTE MANAGEMENT INFORMATION SUPPORT SYSTEM	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> Enables 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	<ul style="list-style-type: none"> Maintains information about hotspot areas where waterborne diseases occurred
COMMUNITY/ PUBLIC TOILET (CT/PT) INFORMATION MANAGEMENT SYSTEM	<ul style="list-style-type: none"> Maintains information about all PTs and CTs in the city with the number of users used and their feedback.
SEWER CONNECTION INFORMATION MANAGEMENT SYSTEM	<ul style="list-style-type: none"> Maintains information about all buildings and their corresponding sewer network
FECAL SLUDGE INFORMATION MANAGEMENT SYSTEM	<ul style="list-style-type: none"> 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

WHAT IMIS FACILITATES

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- The diagram illustrates the cyclical process facilitated by IMIS:
- Planning:** Equitable access to safe, adequate & efficient infrastructure; Sustainable infrastructure, assets and services; Gender intentional and socially inclusive services and infrastructure fair and strategic pricing of services.
 - Management:** Safe management of sanitation infrastructure and services; the fair distribution of public finances for the expansion of infrastructure and services; implementation of equitable costs and efficient cost recovery; implementation of pro-poor, gender-intentional and socially inclusive mandate; institutionalization of key performance indicators (KPIs); implement accountability measures as well as enforce regulations including incentives and penalties.
 - Monitoring & Evaluation:** The quality and distribution of services and infrastructure; Service authority performance vis-à-vis the KPIs and targets; Financial sustainability of service delivery and infrastructure; Public health and environmental outcomes and Pro-poor, gender intentional and socially inclusive targets.
 - Management of CWIS Systems & Services:** This is the central focus, encompassing all three phases.

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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.



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.

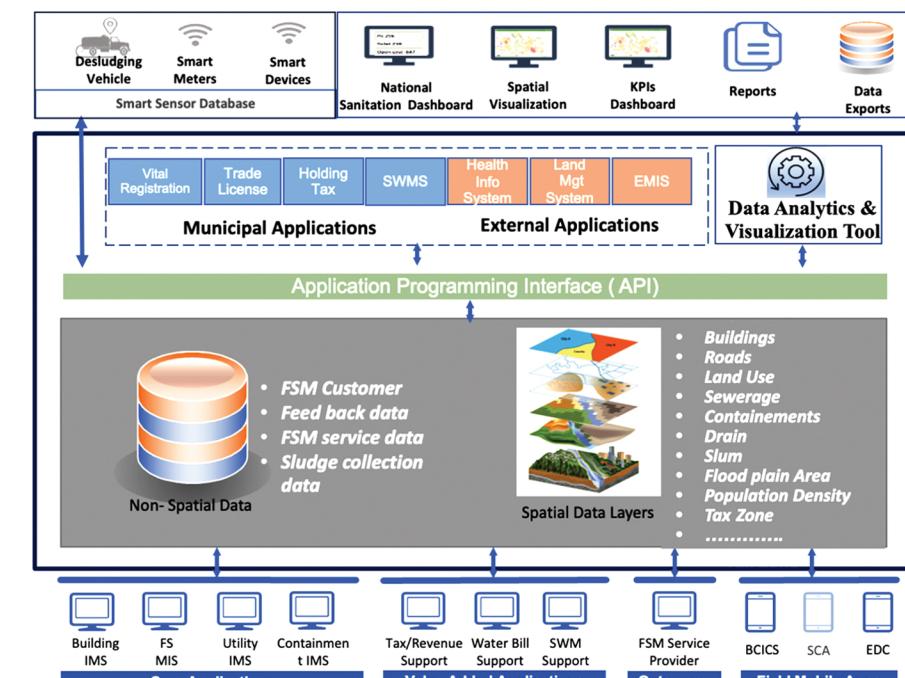
UN Water SDG 6 Global Acceleration Framework



Key Features

- Spatial context for municipal data - infrastructure, services, and resources.
- 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.
- Integration of CWIS data to support planning, management, and evaluation of sanitation systems and services.
- Interoperable with external data sources, including tax/revenue, public health, emergency response data and more.
- Decision support tools for decision-making based on spatial analysis and modelling.
- Real-time dashboard for monitoring KPIs and CWIS indicators.
- 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.

