INTEGRATED MUNICIPAL INFORMATION SYSTEM (IMIS)

Empowering local governments to achieve SDG 6.2 through CWIS approach



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. Its core outcomes and functions are presented below:



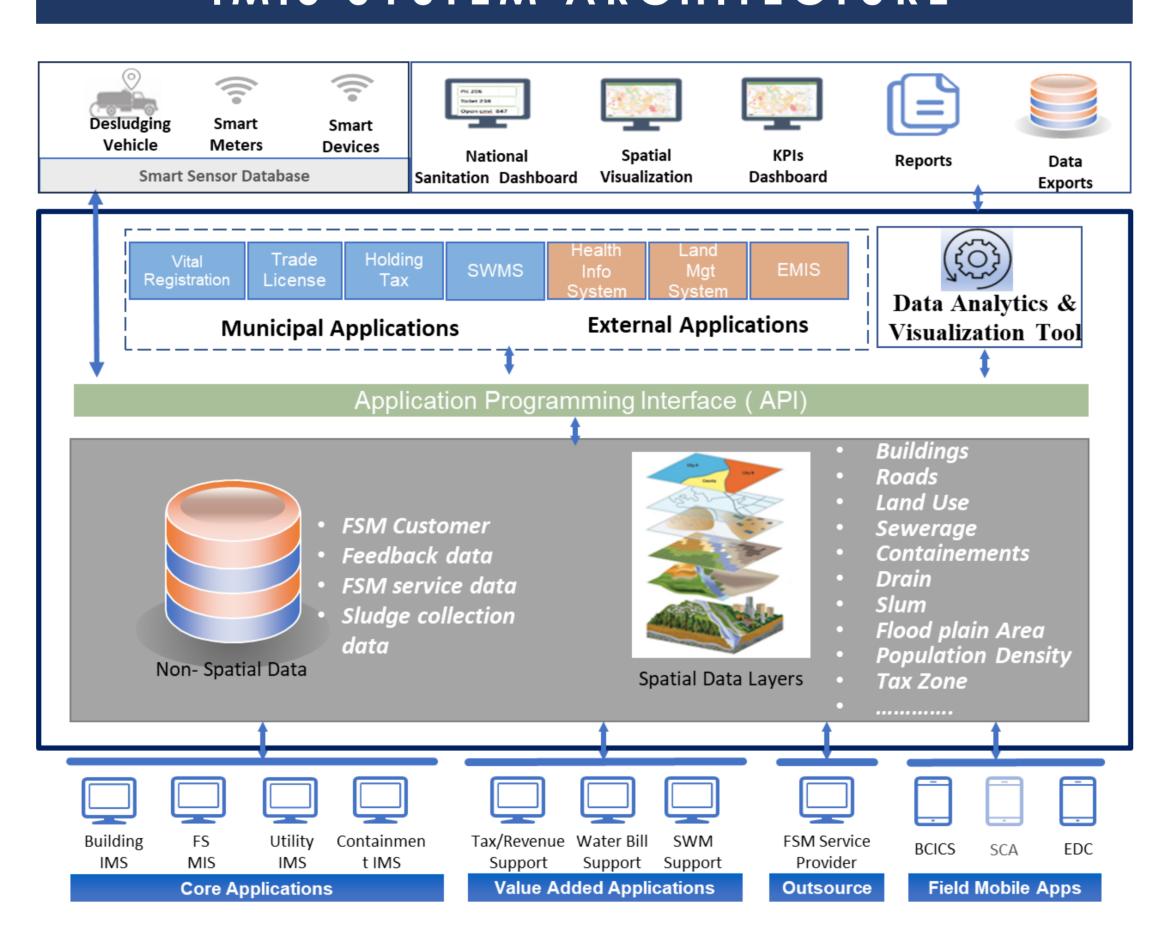
CWIS approach focuses on service provision and its enabling environment rather than on building infrastructure, therefore, reliable data is the key success factor for CWIS. UN Water SDG 6 global acceleration framework has also identified data and information as one of the five accelerators of SDG 6 outcomes.



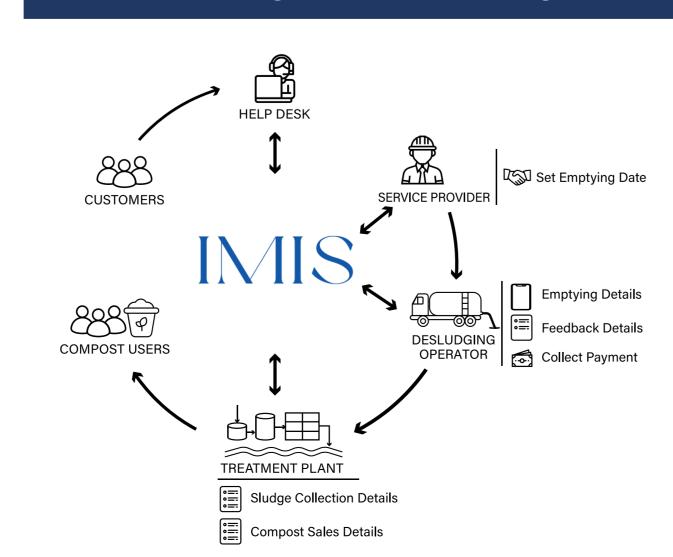
KEY FEATURES OF IMIS

- 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.

IMIS SYSTEM ARCHITECTURE



IMIS DRIVEN SERVICE MODEL



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



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FUNCTIONAL MODULES OF IMIS

FECAL SLUDGE INFORMATION MANAGEMENT SYSTEM



- Maintains information about FSM service
- providers and their resources • Maintains information about the Fecal Sludge Treatment Plant and the FS disposed
- Maintains the quality test record of treated wastewater and compost generated from the treatment plant
- Maintains records of containment emptying to transport, and desludging of FS in the treatment plant
- Maintains the customer feedback data

SEWER CONNECTION INFORMATION MANAGEMENT SYSTEM

 Maintains information about all buildings and their corresponding sewer network

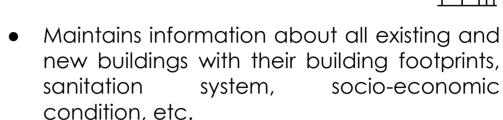
COMMUNITY / PUBLIC TOILET (CT/PT) INFORMATION MANAGEMENT SYSTEM

• Maintains information about all PT and CTs in the city with the number of users used and their feedback.

PUBLIC HEALTH INFORMATION SUPPORT SYSTEM

 Maintains information about hotspot areas where waterborne diseases occurred

BUILDING INFORMATION MANAGEMENT SYSTEM



• Maintains information about low-income communities with their geographic coverage and sanitation system

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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.

delivery and infrastructure,

socially inclusive targets.

outcomes and

d) public health and environmental

e) pro-poor, **gender** intentional and

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 sanitation and other elements required for planning, management and monitoring and evaluation of CWIS
- Dashboards for monitoring KPIs and CWIS
- 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



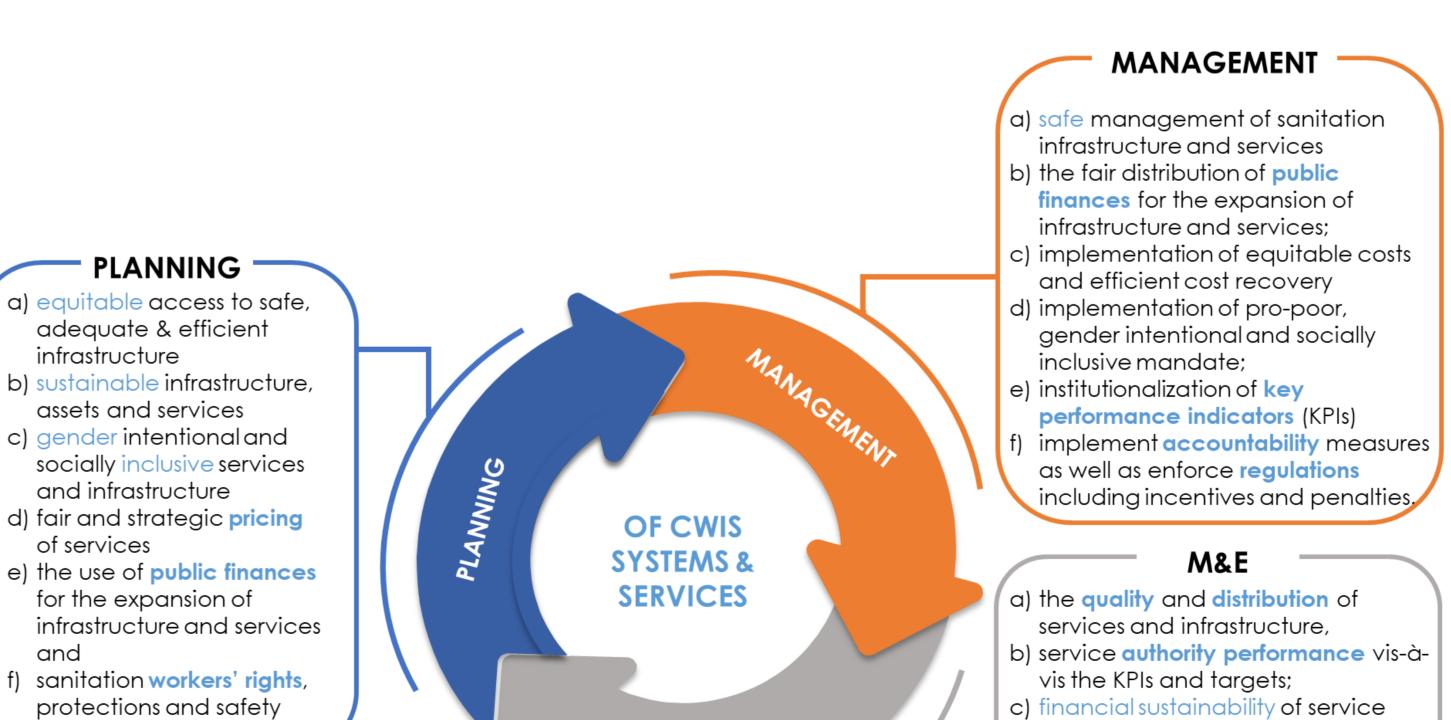
- Maintains sewerage network information
- Maintains drainage network information

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.

IMIS FACILITATES



MONITORING

& EVALUATION

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