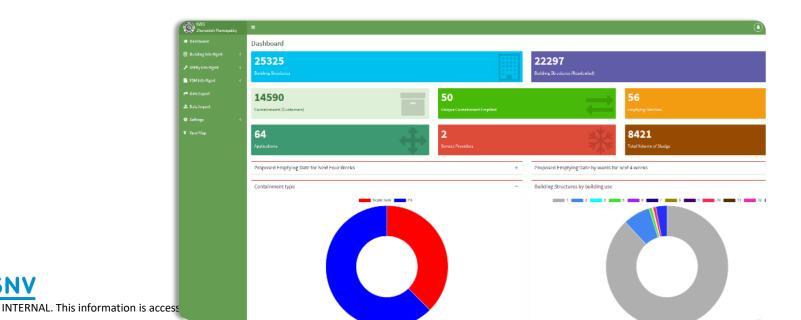
Integrated Municipal Information System (IMIS)

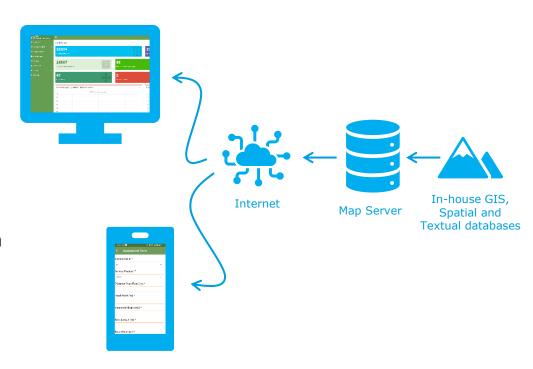
A Tool for planning and monitoring urban services



What is IMIS?

A web GIS-based information system which enables information-based decision making and planning for municipal services.

A useful management system for **government, utilities, and service provers that is** in line with smart city initiatives.





How IMIS can help municipalities?

Holding assessment and taxation

- Bill issuing and payment tracking
- Due Payment status (local taxes)

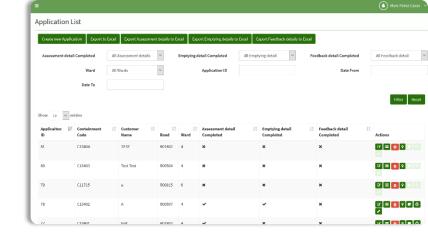
Manage service delivery (FSM/sewer):

- Applications requests.
- Services provided per ward, year, type.
- Customer feedback.
- Faecal Sludge collection and disposal.

Monitor Key Performance Indicators.

Updated GIS database (mobile Apps).

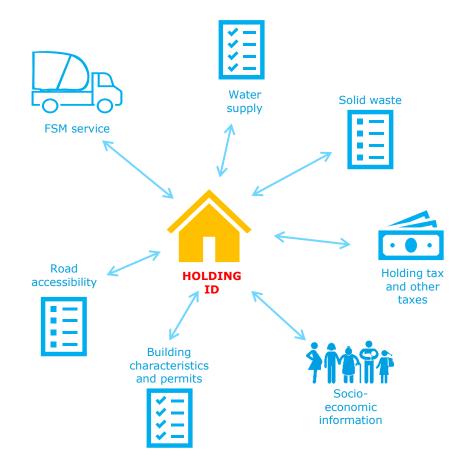
- Buildings' footprint.
- Containments.



- Plan block/scheduled FSM services:
 - Based on demand or containment situation.
- Plan Infrastructure Investment
 - Real-time picture of the city in many sector.
- Link/visualise external databases:
 - Health system (outbreaks)
 - Emergency response system
 - KWASA/KDA



One platform that links up multiple services info to residents' holding ID





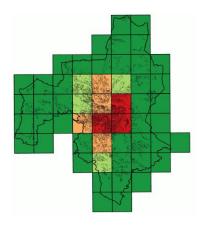
Key functions



Reporting Dashboard

Managing the services





GIS analysis

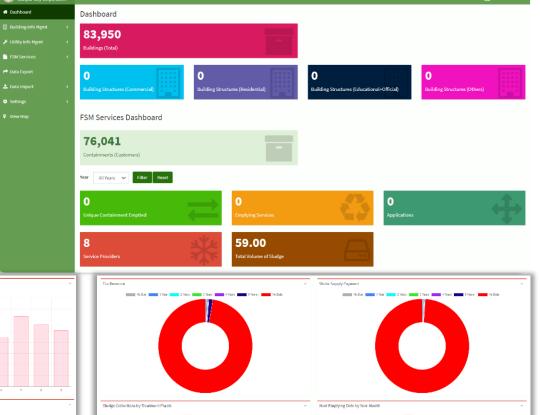
Planning and decision-making



Reporting

using a powerful
Dashboard for real-time
status of services





SNV

INTERNAL. This



Web-based App (IMIS) for desk office work

Managing services



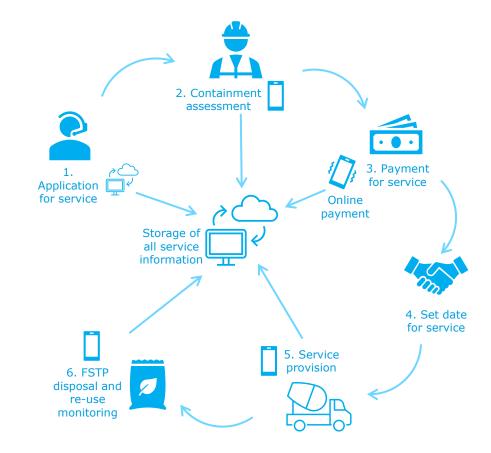
Mobile Apps for field assessment, survey and service delivery



External interfaces
For online payment or linking up to local or national databases



Process Delivering an FSM service





GIS analysis

Accurate info to better plan services and Infrastructure development

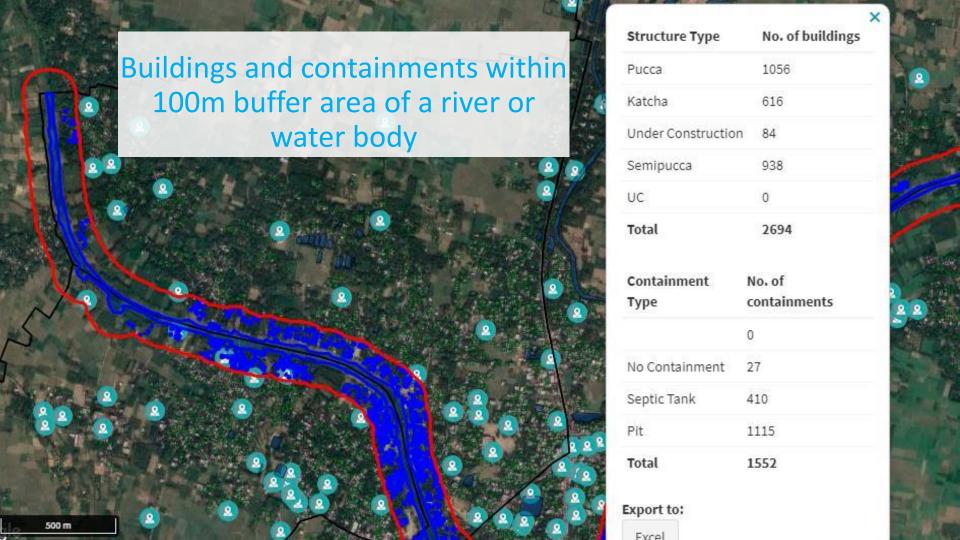


Water Supply connection status



Potential buildings to get connected to a selected drain





IMIS development stages











GIS Data Creation

- Collection of available GIS data
- Gap analysis
- Digitization of missing data layers using high resolution satellite image
- Field verification and establishment of base GIS database

(3 Months)

Survey & Attribute Data Creation

- Collect available attribute data and integrate with GIS data
- Gap analysis
- Conduct survey for attribute information of buildings, containments, utilities, etc of ULB
- Establish attribute database

(3-4 Months)

IMIS Customization & Setup

- Analyze the system's functional requirements including value added functionalities
- Analyze the ULB's policy guidelines and business process
- System customization and set up in the ULB's server

(3 Weeks)

Data Migration

 Migration of the Data in the Server and make system ready for training

Training & Launching

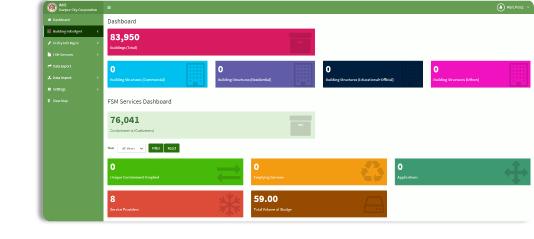
- Conduct Hands on training for operation to relevant departments
- Get feedback from trainees and update the system accordingly
- Prepare sustainability plan for system implementation
- · Launch the system

(2 Weeks)

(1 Week)



Jhenaidah's IMIS



Coverage 27,047 buildings

20,016 containments (septic tanks and pit latrines)

Features FSM services, holding tax

Layers Buildings, roads, drains, containments, water bodies, boundaries, FSTP

Users Paurashava: monitor, report and analysis

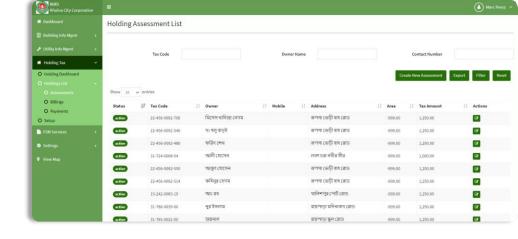
AID Foundation: FSM service, customer database (2017), IMIS (Jan 2021)

Status Launched and trained staff end 2019 & 2020

City residents' holding ID linked to building outline



Khulna's IMIS



Coverage 156,052 Buildings

67,330 containments (septic tanks and pit latrines)

Features FSM services, holding tax

Layers

Buildings, roads, drains, containments, water bodies, water logging areas, informal settlements, boundaries, FSTP

Conservancy department: FSM services

Tax department: Holding tax and trade license

Training in 2021, ready for official launch in 2021

Introduced Holding tax calculation and trade license in 2

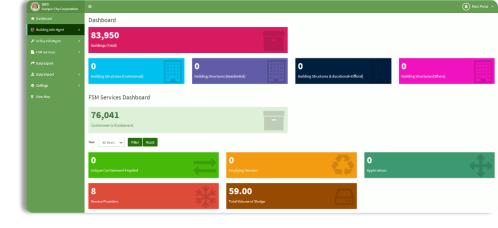
Introduced Holding tax calculation and trade license in 2021



Users

Status

Gazipur's IMIS



Coverage 83,950 (Zone 1) + 48,393 (Zone 4) Buildings

Containments in-build into building (septic tanks and pit latrines)

Features FSM services, sewer system, holding tax, water supply

Layers Buildings, roads, drains, water bodies, boundaries, water connections

Users Conservancy department (new PPP): FSM services and sewer

Tax department: Holding tax

Water department: Water supply service

Status Developed for Zone 1; Ongoing data collection Zone 4 (2030WRG/SNV)



Jashore's IMIS



Coverage 43,358 buildings

5,200 containments (only ward 5)

Features FSM services, holding tax

Layers Buildings, roads, drains, containments, water bodies, boundaries, FSTP,

Informal settlements

Users Conservancy department (new PPP): FSM services

Tax department: Holding tax

Status Pending final customisation and training

Planned containment data collection in rest of the city



Challenges

Data collection practices

- Not comprehensive enough.
- Not updated on time.
- Unwillingness to share data.

Holding ID

- Holding nomenclator.
- Not linked to roads.

Behaviour/System's change

Adopting changes in internal processes and systems.

Hosting data

- National Data Centre government services.
- Huge amounts need to be paid.
- Needed Government support





Share common databases within a city

Potential new features



Online payments



Link to national databases



Let's <u>log into</u> IMIS...







Thanks

IMIS: Strengthening local governments' capacities

For more information, read: https://snv.org/update/imis-improving-municipal-led-fsm-service-efficiency-and-accountability

Contact: Marc Pérez Casas, mcasas@snv.org

Shahidul Islam, shahidulislam@snv.org

