LATINOSAN

VI CONFERENCIA LATINOAMERICANA DE SANEAMIENTO

BOLIVIA 2022

#SaneamientoUn LlamadoALaAcción

Importancia de los sistemas de información de Agua y Saneamiento para la toma de decisiones y planificación

Annie Feighery, CEO, mWater

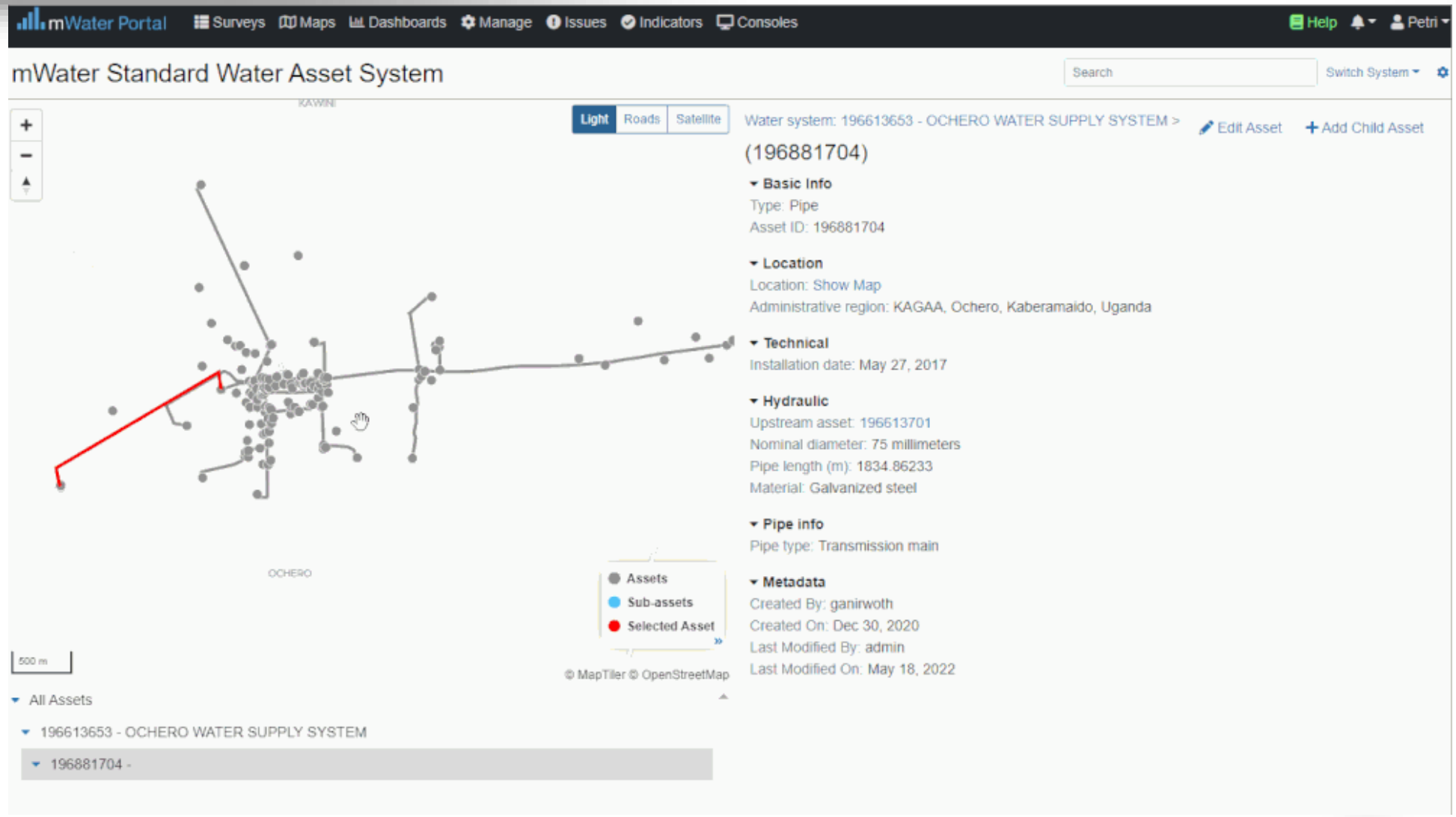
mWater

VI CONFERENCIA LATINOAMERICANA DE SANEAMIENTO
BOLIVIA 2022

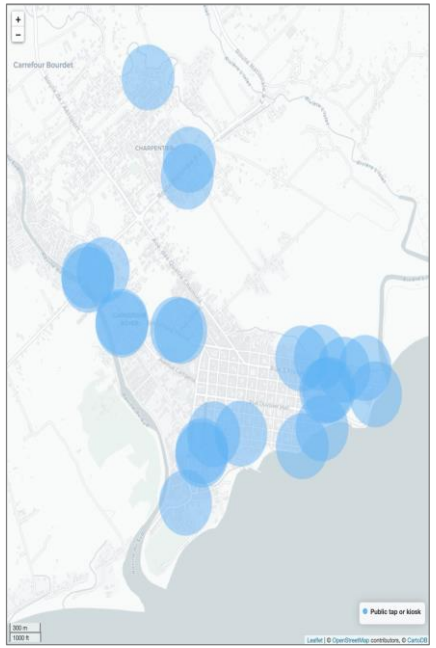
The mWater Platform

Strengthening people and processes

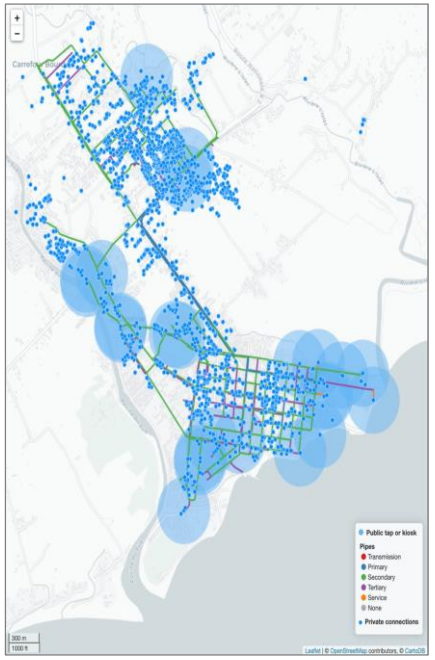
- Build local data expertise, within government and the private sector
- Align organizational incentives
  - Updating terms of reference
  - Recognition and awards
  - Friendly competition
- Develop a short list of high-priority Key Performance Indicators
- Build a data-driven culture


mWater Portal
Surveys
Maps
Dashboards
Manage
Issues
Indicators
Consoles
Help
Petri
mWater Standard Water Asset System
Search
Switch System
Light
Roads
Satellite
KAWINE
OCHERO
Assets
Sub-assets
Selected Asset
500 m
© MapTiler © OpenStreetMap
Water system: 196613653 - OCHERO WATER SUPPLY SYSTEM >
Edit Asset
Add Child Asset
(196881704)
Basic Info
Type: Pipe
Asset ID: 196881704
Location
Location: Show Map
Administrative region: KAGAA, Ochero, Kaberamaido, Uganda
Technical
Installation date: May 27, 2017
Hydraulic
Upstream asset: 196613701
Nominal diameter: 75 millimeters
Pipe length (m): 1834.86233
Material: Galvanized steel
Pipe info
Pipe type: Transmission main
Metadata
Created By: ganirwoth
Created On: Dec 30, 2020
Last Modified By: admin
Last Modified On: May 18, 2022
All Assets
196613653 - OCHERO WATER SUPPLY SYSTEM
196881704 -

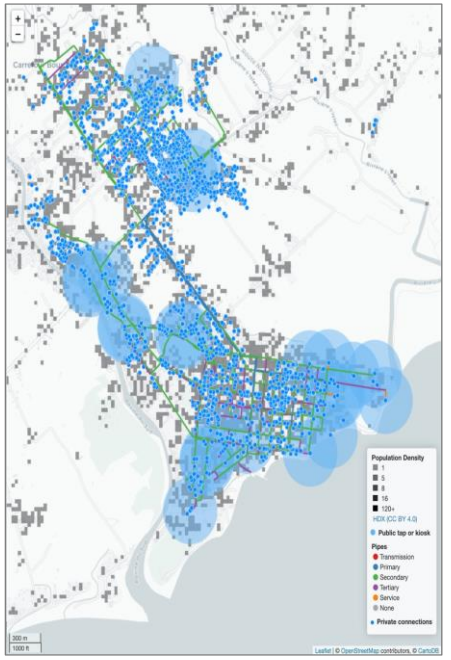
From water point data



To a static map



To water utility management



Implementing the utility management system in Haiti

Problem Definition & Prioritization

- Stakeholder meetings and office visits
- Needs assessment and prioritization workshop
- Software landscape assessment

Deployment and Iteration

- Definition of monthly key performance indicators
- Creation of data collection forms and dashboards
- Training workshops and field support

Expansion and institutionalization

- Integration of financial data into monitoring system
- Standard operating procedures for CTE staff
- Training curriculum and online learning courses

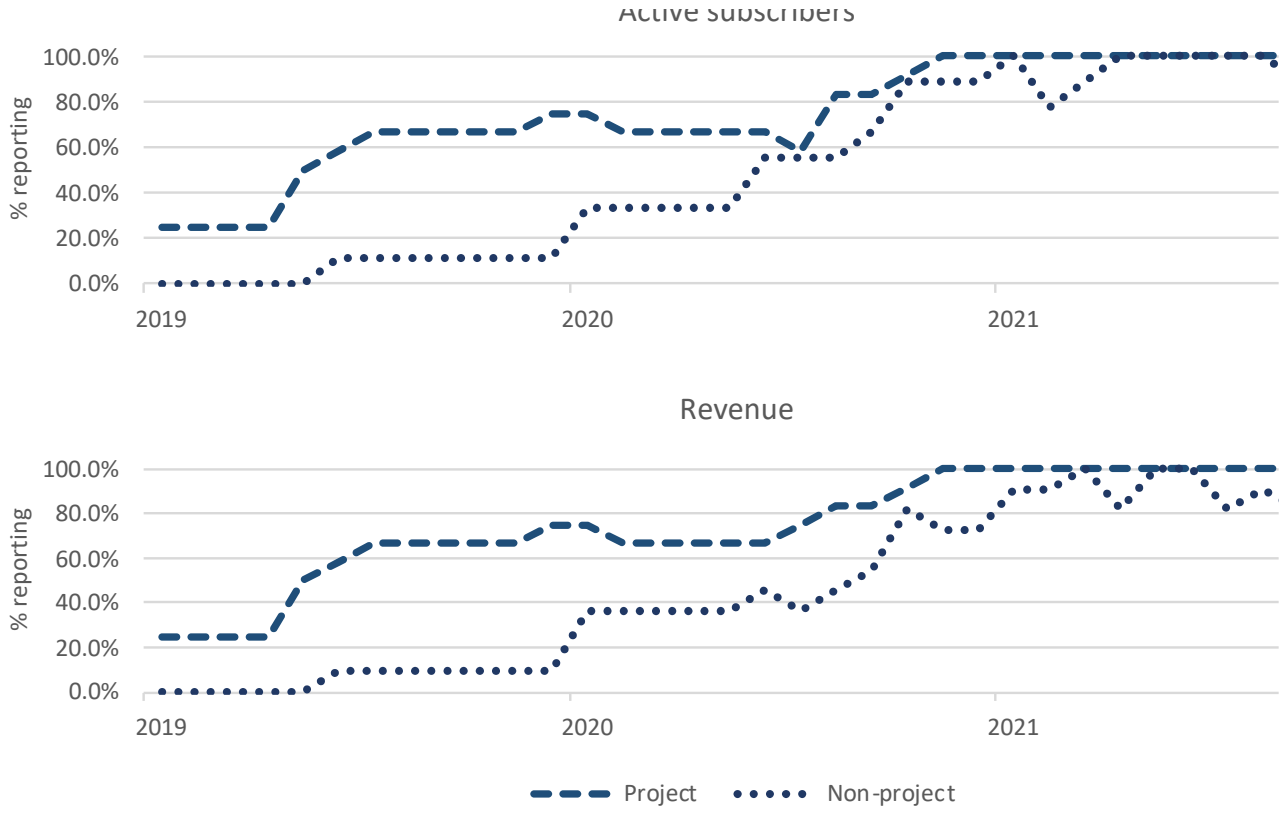
Uptake and use of the reporting system

By 2021:

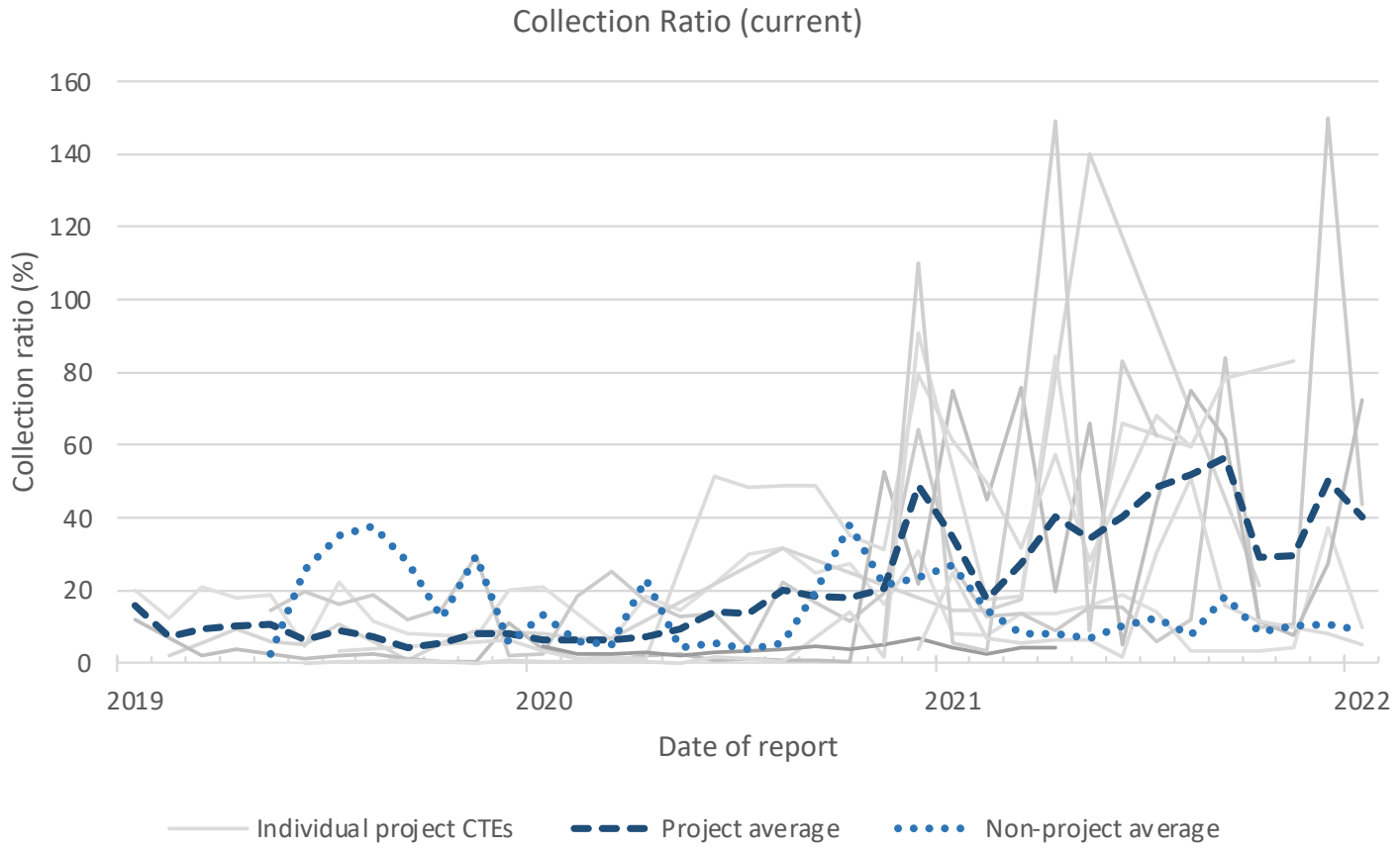
100% of project-supported CTEs reported most indicators

80-100% of non-project CTEs

Percentage of key indicators reported:



Positive trends in KPIs reported



Donor Alignment

2015 — NGO Haiti Outreach uses mWater to map water points

Hurricane Matthew

2017 — USAID supports development of urban utility (CTE) monitoring system

Civil unrest

2019 — DINEPA expands monitoring system to all 26 CTEs

2020 *Covid-19 response*

DINEPA expands system to include rural piped systems

2021 — DINEPA, WB, IDB, and UNICEF agree to use mWater as basis for integrated WASH sector monitoring system (SIEPA)

Major Earthquake

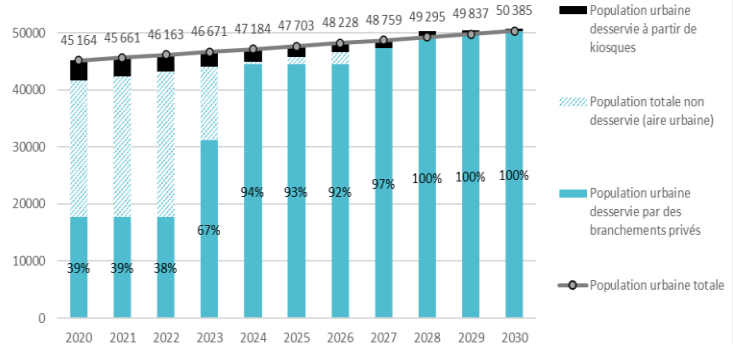
2022 — IDB invests in expansion to sanitation technologies

Plannification

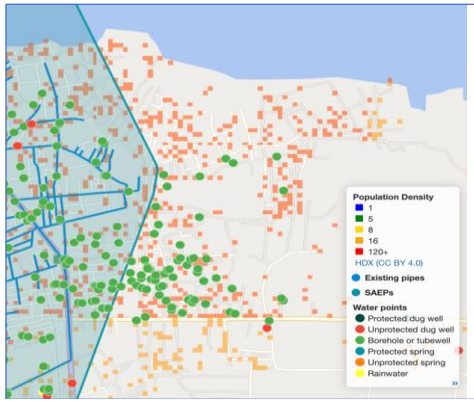
mWater Portal | Surveys | Maps | Dashboards | Manage | Issues | Indicators | Consoles

Access

% population with different service levels



Scenario Planning



Analysis:

Total population: 36,403

Service levels:	Current	Scenario 1	Scenario 2
Piped to home:	15%	15%	65% (+50%)
Kiosk (500 m)	20%	20%	35% (+15%)
Basic service	35%	65% (+30%)	
Limited service	10%		
No service	20%		
Cost ($k)		$85k	$350k

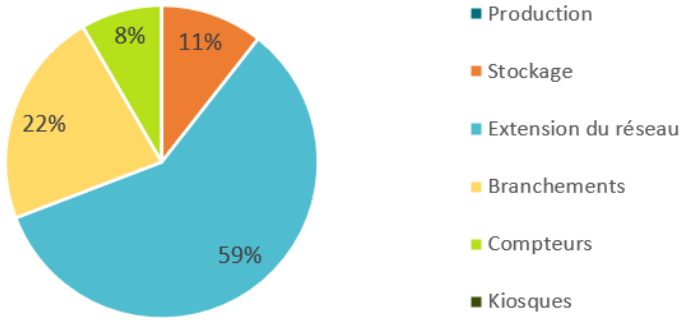
Scenarios:

1: Borehole construction / basic service

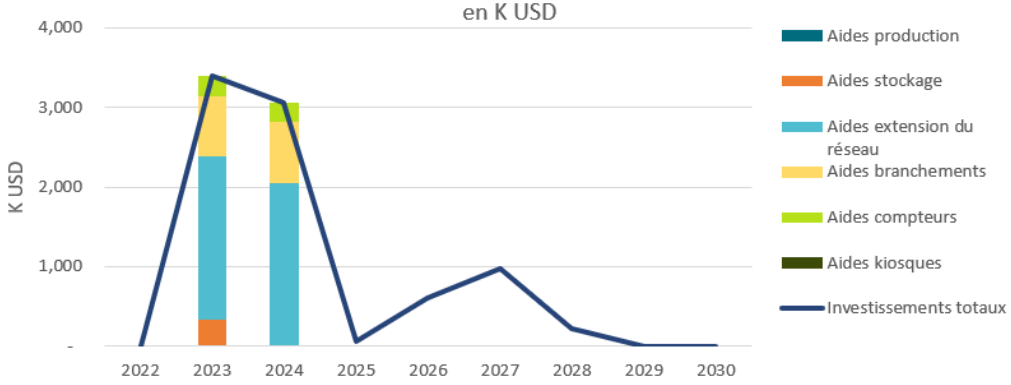
2: Expand piped network/basic+ service

Costing

Répartition du programme d'investissement par type de dépenses



Echéancier des investissements du PNI et aides versées par type de dépenses - en K USD



Sanitation Assets

- **Asset hierarchy**

  Users decide how to nest their system assets

- **Standard asset types and data field definitions**

  Pumping stations, valves, manholes, treatment, etc.

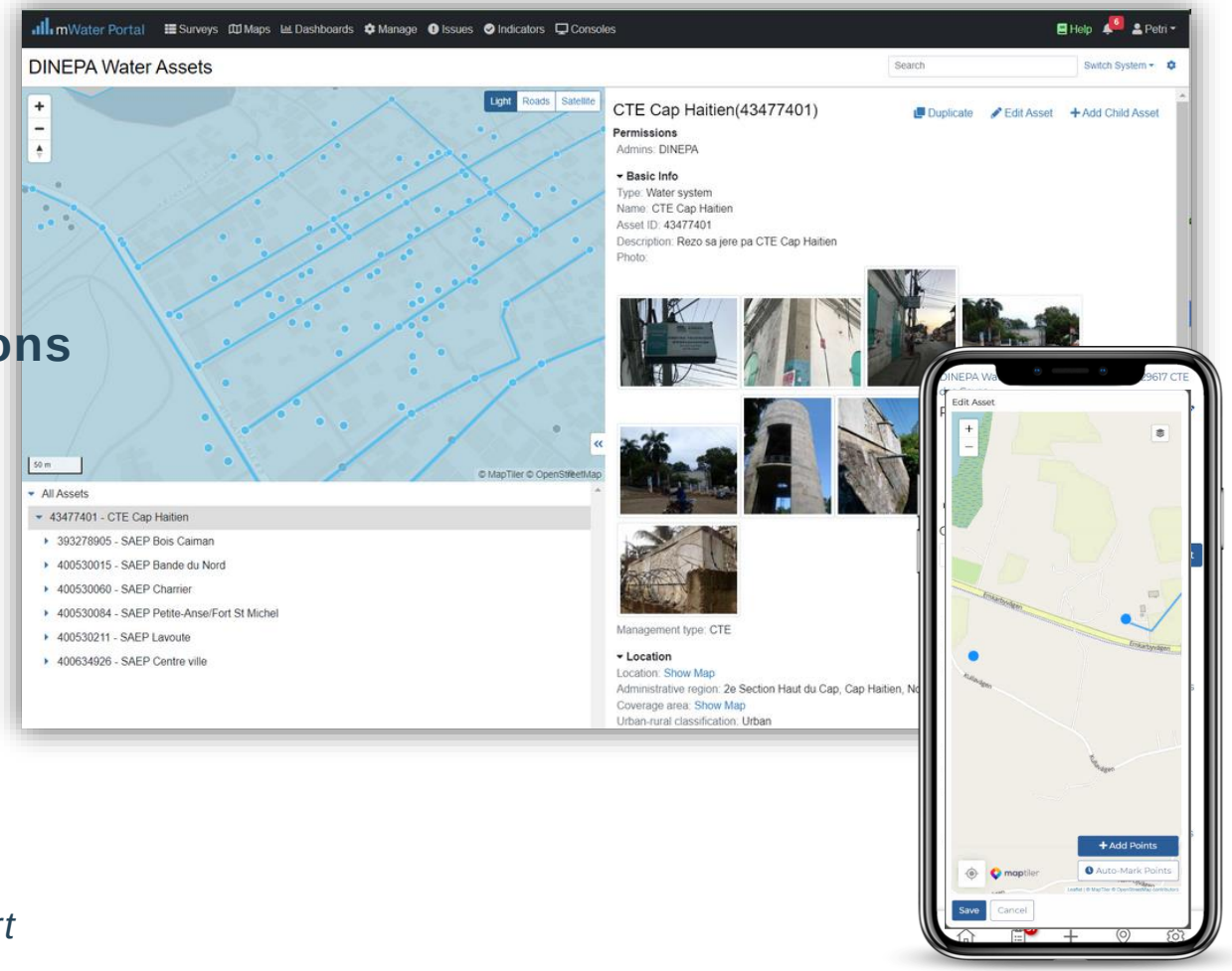
  Users can add their own data fields and deactivate others

- **Water pipes -> Sewer pipes**

  Elevation, location, connections, type, etc.

- **Data use**

  Maintenance, repair, expansion, prioritisation, import/export



VI CONFERENCIA LATINOAMERICANA DE SANEAMIENTO
BOLIVIA 2022

#SaneamientoUn
#LlamadoALaAcción

GRACIAS!

VI CONFERENCIA LATINOAMERICANA DE SANEAMIENTO
BOLIVIA 2022