



Smart Metering Solution

Based on AMI, Mobile Apps & Cloud Server

Sam Kim
Director
Overseas Marketing

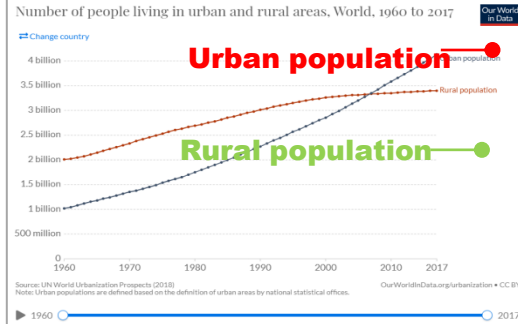
Recognition of the need for smart metering



1. Environmental Pollution



2. Population Increase → Urbanization



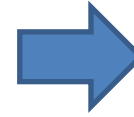
3. Global Warming



4. Leakage from Pipeline



Water Shortage



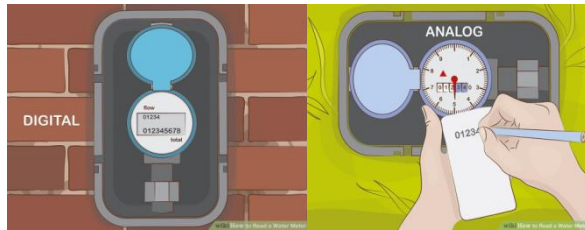
Non-Contact

Advancing Smart Metering

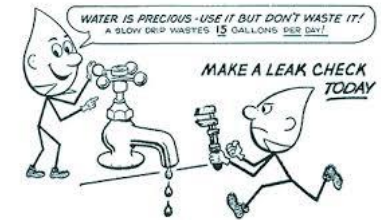
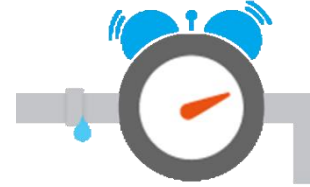
What is Smart Meter good for ?



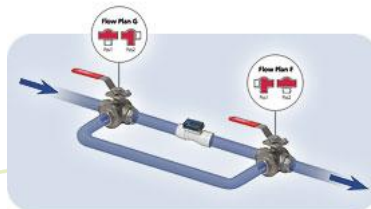
Accuracy in Meterage



Leakage Check



Manipulation Proof

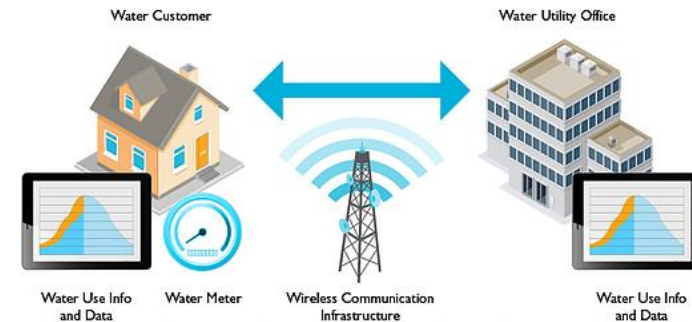


Detour check



Magnetic Proof



Easy Management by IoT



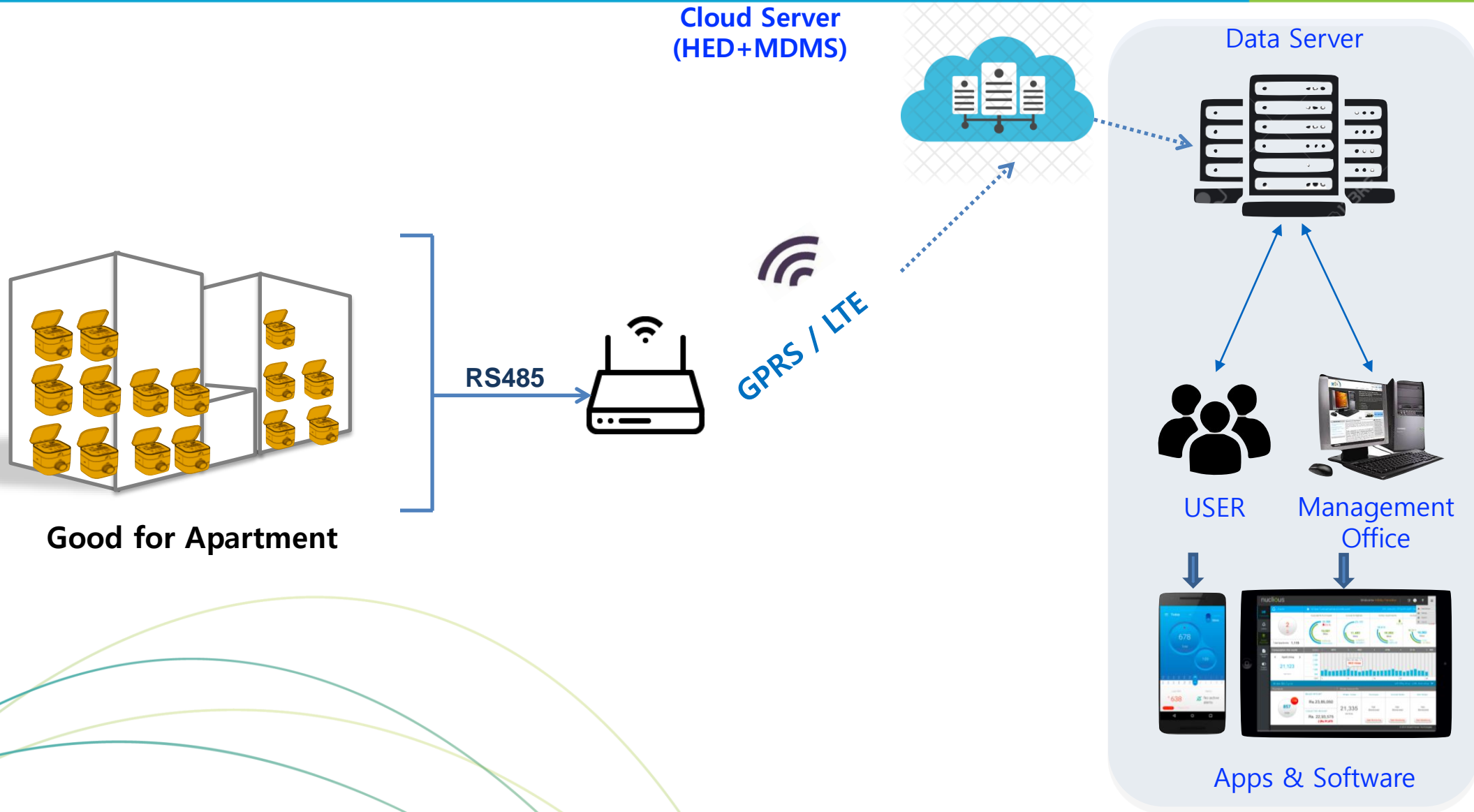
Comparison:

Mechanical VS Smart Electronic Water Meter

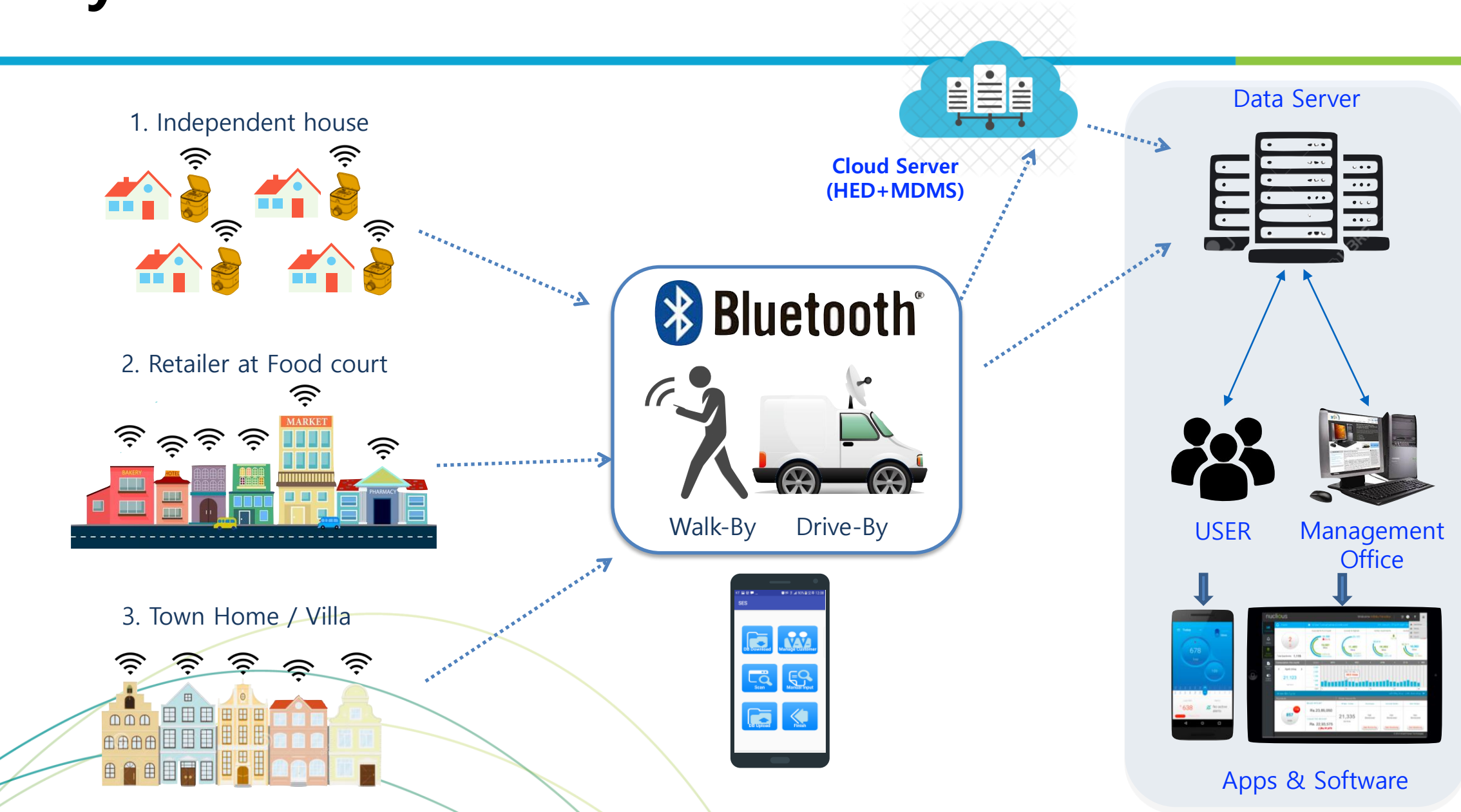


	Mechanical	Smart Electronic	Software
			
Empty Pipe	✗	Prevent illegal use from detour water pipe	Alert
Data Storage	✗	Accumulated amount of water being stored automatically	
No Wear	✗	No moving parts in the meter → Semi Permanent Use	
Reverse Flow Detect	✗	No backward flow Count	Alert
Leakage Detect	✗	specific time setting	Alert
No count air flow	✗	No moving parts in the meter	
Manipulation Free	✗	No moving parts in the meter Prevention from playing wire & magnetic attempt	

Wired Communication



By Bluetooth



By NB-IoT



(LTE)



**"Any time
Accessible."**

Cloud Server
(HED+MDMS)

Data Server



USER

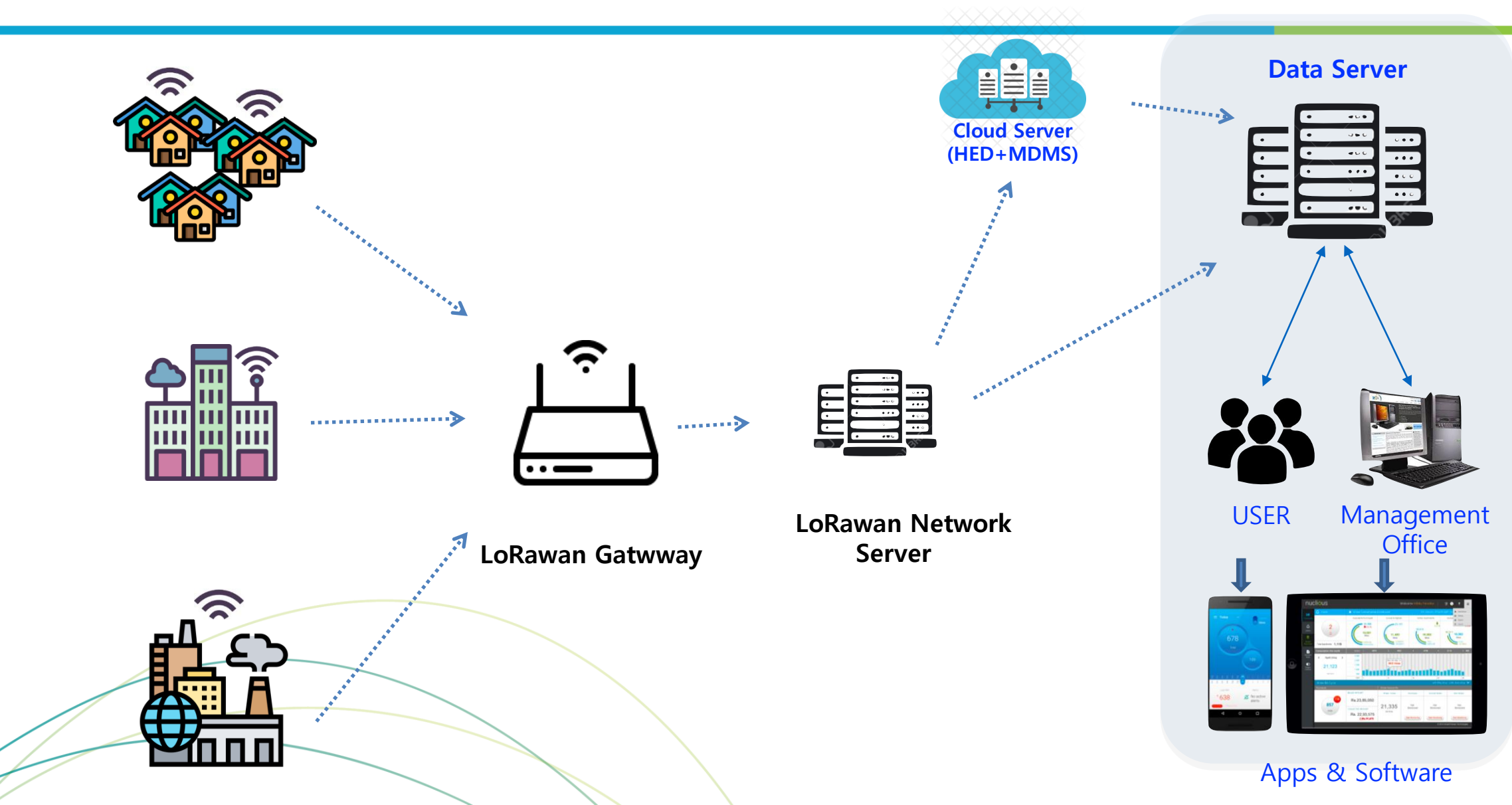


Management
Office



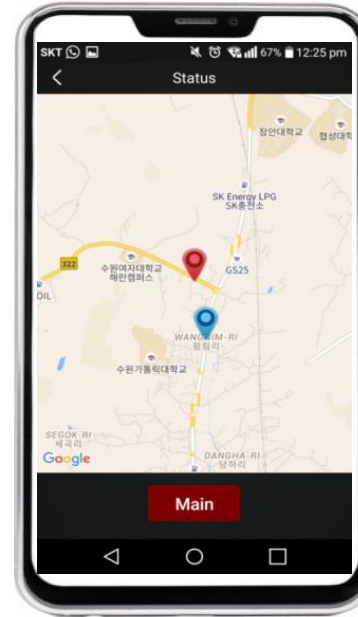
Apps & Software

By LoRa



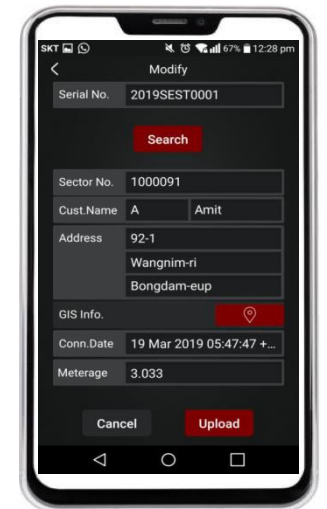
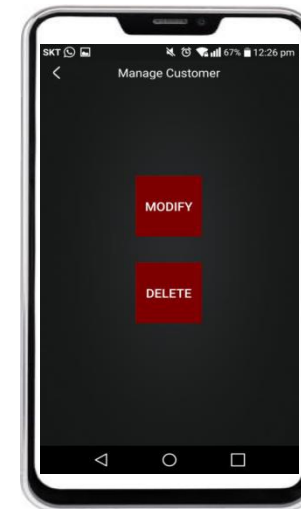
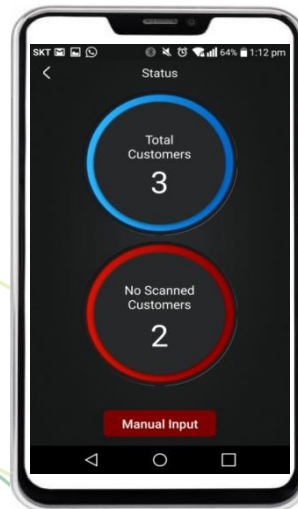


Meterman App Overview (by Bluetooth)

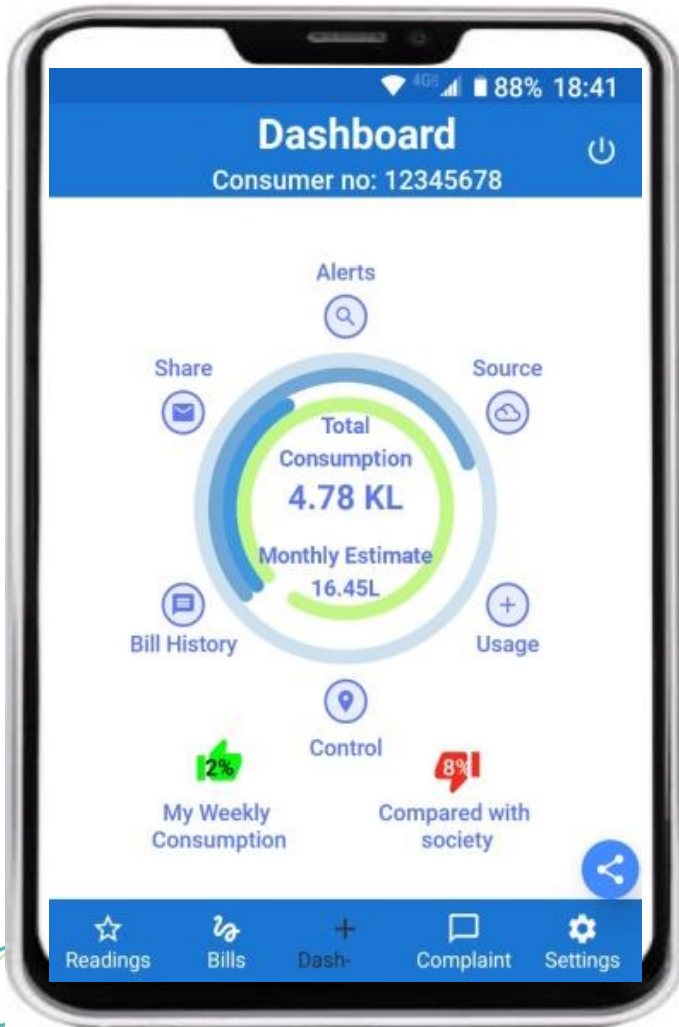


- Geo Location of Building
- Floor wise Apartments
- Apartment wise Meters
- Customer Details

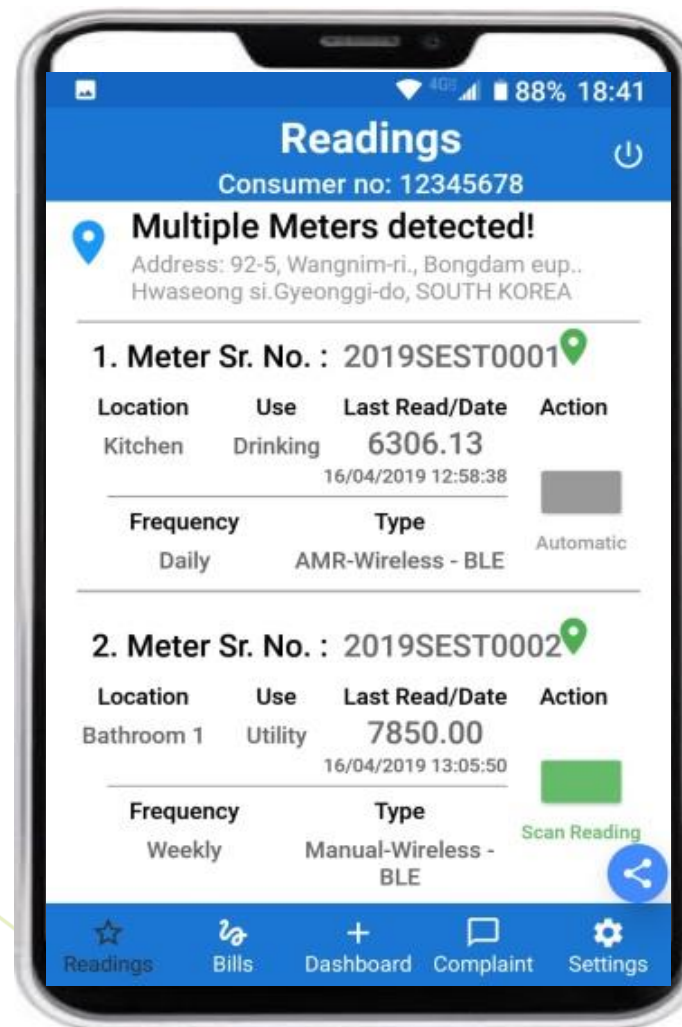
- Scanning Meterage
- Manual Input
- Data Uploading



User Overview



Dashboard



Meter Information



Monthly Use

User Overview



Complaint
Consumer no: 12345678

REGISTER VIEW STATUS

COMPLAINT DETAILS

*Complaint Type
--Select Complaint Type--

*Complaint Sub Type
--Select Complaint Sub Type--

*Description
Enter Description

Select Photo
CAMERA GALLERY

SUBMIT

Readings Bills Dashboard Complaint Settings

Vodafone IN
Consumer no: 12345678

View Bills

Due Date
25/10/2019

Balance
Rs. 4350.00

Make Payment

Billing Period From 21/06/2019 To 21/07/2019
Current Bill Date 21/07/2019
Current Bill Rs. 4350.00
Last Bill Rs. 4350.00
Total Paid Rs. 4350.00

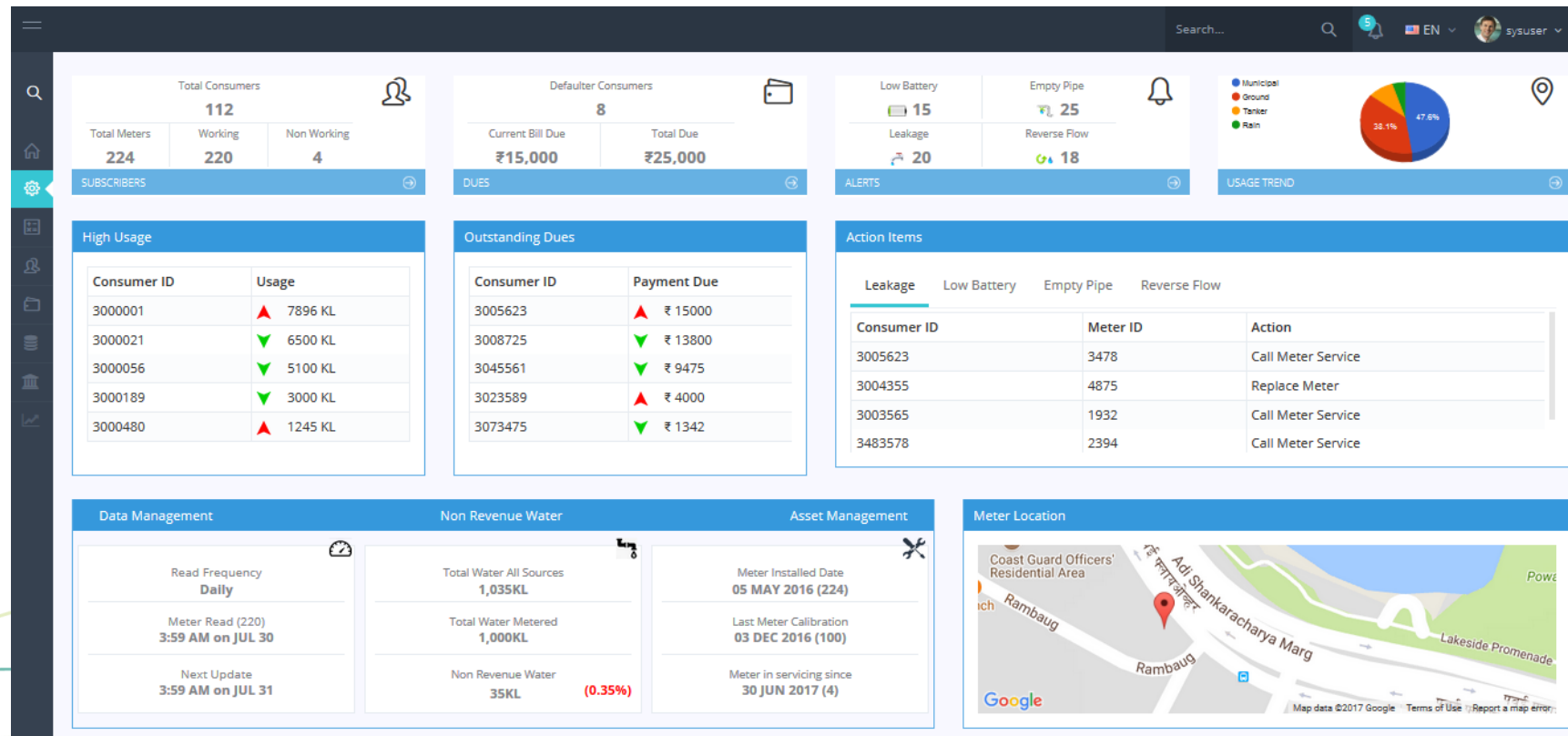
View Bill

Readings Bills Dashboard Complaint Settings

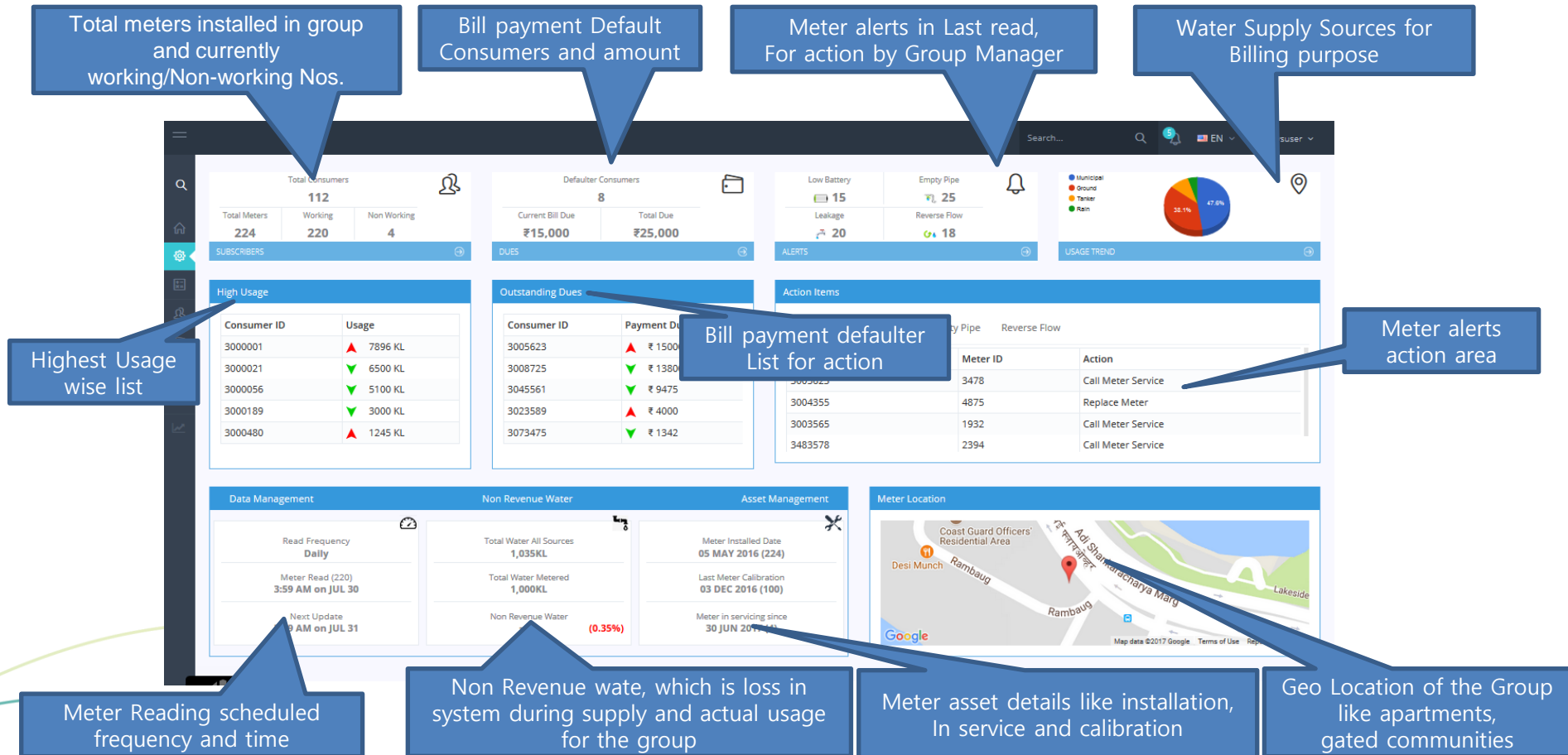
Management Dashboard



The comprehensive reporting on individual meters information **for the property managers** including alert action, high water users, bill defaulters, total supply and use, system losses etc.



Management Dashboard



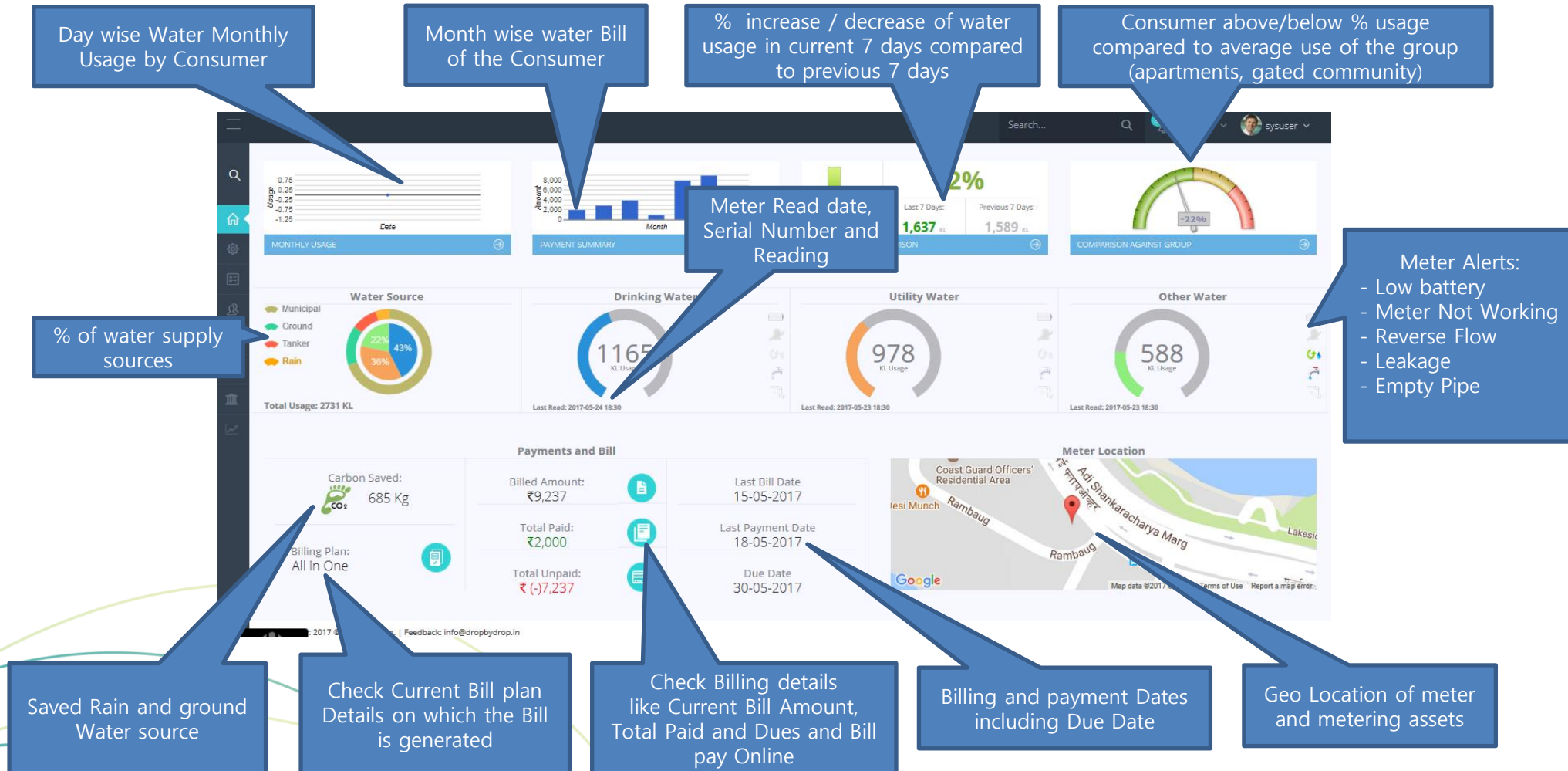
User Dashboard



The comprehensive reporting on individual meters to access graphical views with regular alert such as **Leakage, Reverse Flow, battery Status, Pending bills** etc. Apartment water Sub metering can bill each apartment exactly for their water usage.



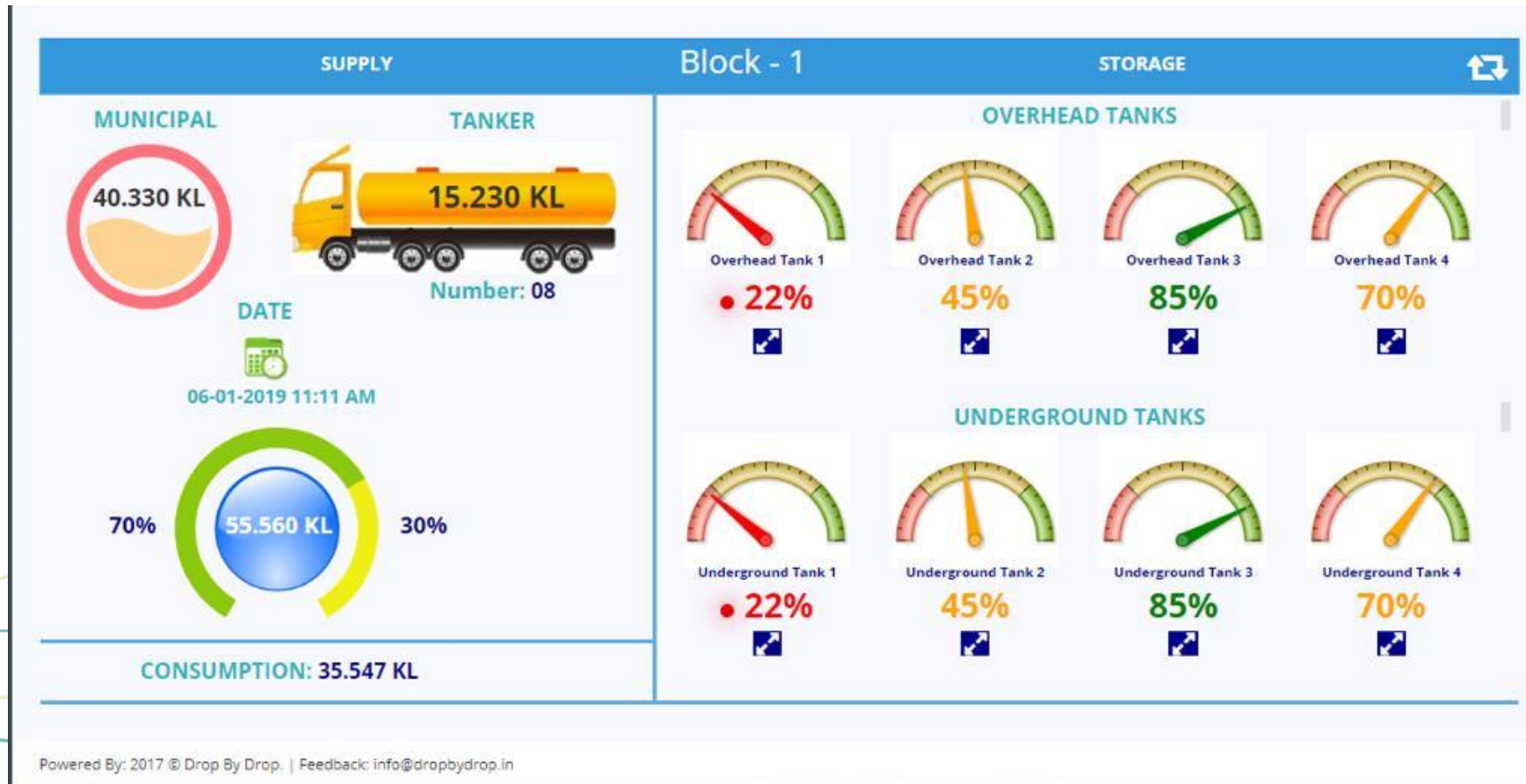
User Dashboard



Storage Dashboard



DropByDrop platform comprehensive reporting on Storage & Supply synopsis for the property managers including Supply volume source wise, Storage volume in each tank, etc.



Field Test in Malaysia



Apartment (Bluetooth)



Gated House (LoRa)



Terrace House<#>

Commissioning



Apartment - Korea



India



Vietnam

AMI Project in Asia

