



# ENHANCING WATER SUSTAINABILITY AND REVENUE COLLECTION IN LOW INCOME AREAS IN MALINDI

## PRE-PAID SMART WATER METERING PAY-AS-YOU-GO (PAYGO)



ELISHA KARISA WATAMU DMA HEAD, MAWASCO OCTOBER 2022



#### **PROJECT RATIONALE: WHY SMART METERS?**

#### **Cash flow & Revenue**

□ Low revenue collection
efficiency hence
accumulation of debt that
lead to water
disconnections denying
services to wananchi

## Meter Reading & Operational costs

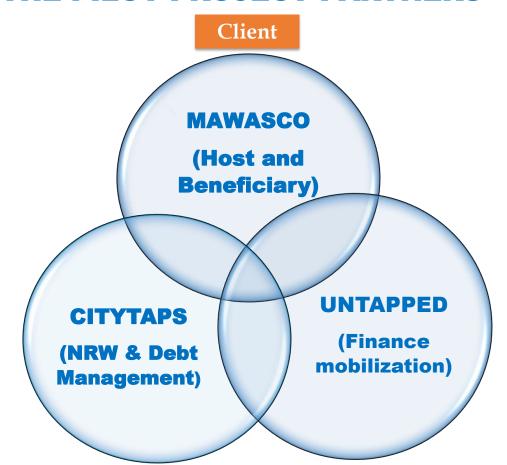
□ Cost incurred in meter reading and billing inefficiencies associated with meter reading errors and frauds.

## Non-Revenue Water Management

Inability of non smart meters to detect inaccuracies in metering leading to commercial water loses

#### THE PILOT PROJECT PARTNERS





Technology

Finances

#### **POSITIVE ASPECTS OF THE TECHNOLOGY/ PROJECT**



ACCEPTANCE	CHANGE OF WAYS OF WORKING	SUBCRIBERS SELF MANAGEMENT	SMART METERS FIELD STATUS REPORT
• External and Internal stakeholders acceptance.	• From meter reading and debt collection to data management.	• Smart meters allow subscribers to self manage their accounts through their mobile phones.	System Alerts give field status report.

#### Cont.- POSITIVE ASPECTS OF THE TECHNOLOGY/ PROJECT



#### DATA AVAILABILITY

Data is available through SMS for leakage detection and balance alerts.

### DISCONNECTION & RECONNECTION

• The smart meters have smart valves that allow for disconnection and reconnection.

## COLLECTION OF ARREARS (DEBTS)

• The Cloud system integrates customer debts into the regular water payments.



#### **CHALLENGES & MITIGATIONS**

#### **LACK OF CAPITAL**

- ☐ Source for funding
- ☐ Seek for partnership agreement with financing institutions and the system developer

## COST OF SMART METERS

☐ Seek for subsidy

#### **METER SECURITY**

- ☐ Relocate meters to safer places
- ☐ Use of recommended covers and chambers for securing meters



## **THANK YOU**



www.malindiwater.co.ke