

An average E-pay system versus the TokenTap



# Average e-pay system

## System

Mechanical Digital

#### General

Simple & robust. Low tech. All complexity removed. When electronic tracker fails water dispensing is fully operational. No electronic power needed to perform main functionality (water dispensing)

High tech - electronic failure can result in downtime. Solar panels or other form of electricity needed to perform main functionality (water dispensing)

### Suitable for:

Community managed systems and professional service models

Professional service provision model (at scale)

## Dispensed volume

Fixed (1 jerrycan)

Variable

# **Payment**

Cheap (plastic or INOX) tokens

Expensive RFID tags

# **Data logging**

Transactions of water sales & volume with timestamps are logged

# Data transfer

Via bluetooth and telephone; No local internet connection needed. Via internet - local internet connection needed

# Data display

Data updates & overviews are sent to email address without costs

Dashboard - often with additional subscription costs

# Life cycle cost

(~yearly depreciation + maintenance cost - site specific travel cost)

Aimed at: < USD 150 / yr

Depending on brand and set-up: ca. USD 350 > 600 /yr

### Installation

Simple: only pipe of water system needs to be connected.

Can be complex - including installation of electronic connections, charge controllers, solar panels, batteries, calibration and programming settings like water price. Complexity differs amongst different alternatives.

## Maintenance

Low cost: only spare parts at minor cost and no external party needed. Maintenance can be done by local mechanics and with low frequency. Costly: expensive spare parts, more frequent downtime and often third party dependency (incl. travel and personel cost of provider)

# Weight and dimensions

20 kg including dispensing unit and tap, plus tracker. 70x70x40cm

2/3 kg excluding dispensing unit and tap (depending on supplier and brand). Ca 20x20x40cm