### "Manage your utilities smarter"



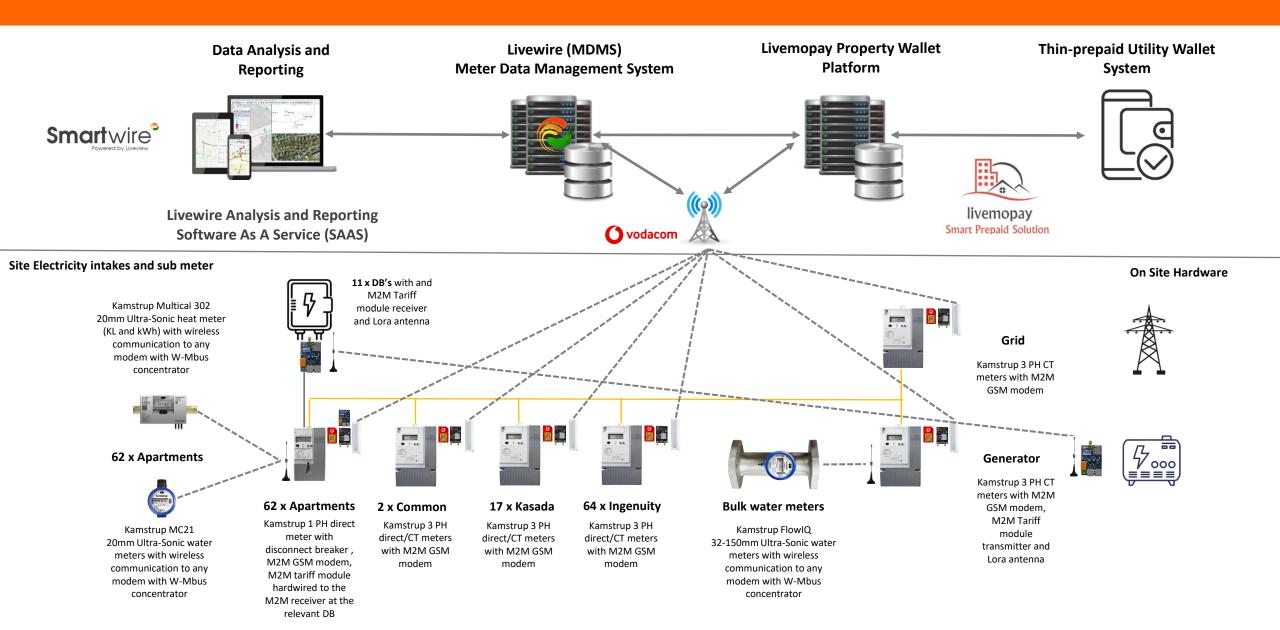
**Smart Metering / Pre-Paid Vending / Utility Accounting / Engineering** 



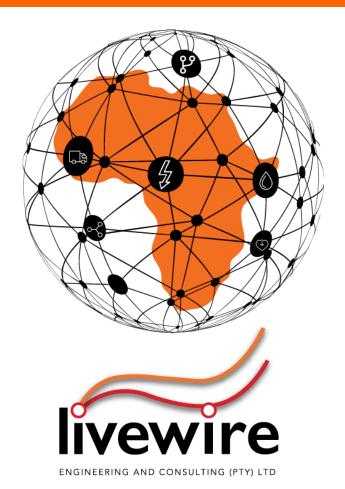




### **EXAMPLE SYSTEM DESIGN**



# BUSINESS INTRODUCTION

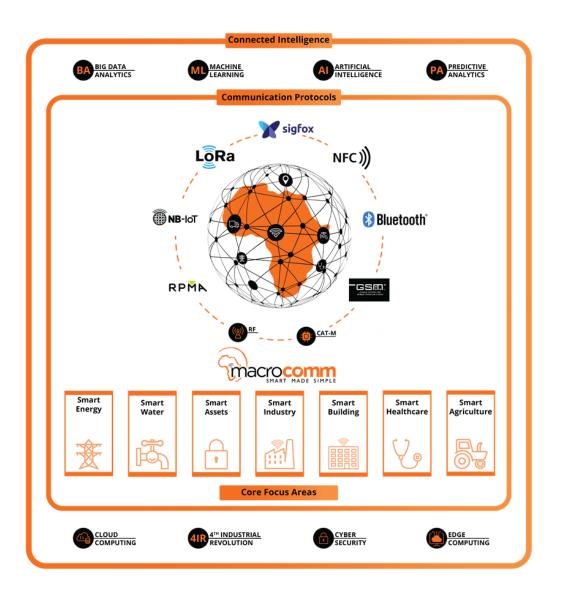




- MACROCOMM IS A LEVEL 1 BBBEE 100% black woman-owned organisation
- Livewire is 65.4% owned by Macrocomm Group with 40+ staff full-time in LIVEWIRE IS ALSO A LEVEL 1 BBBEE company
- Macrocomm was ESTABLISHED in 2005 and Livewire in 2006
- Founded on the values of INTEGRITY AND PROFFESIONALISM.
- The company has a strong focus on understanding its customer needs and designing and building **BESPOKE SOLUTION** to address the key challenges facing our customers.
- We are able to offer turnkey solutions deployed by our team of EXPERTS ACROSS SOUTH AFRICA AND AFRICA
- Through our partner ecosystem, we build solutions to create a unique offering in Smart City Management, Energy Management, Smart Industry Management, Utility Management and RENEVUE RECOVERY SOLUTIONS (with in-house developed Unified Meter Data Management Platform).
- Macrocomm prioritises job creation through meaningful ECONIMIC TRANSFORMATION AND INCLUSIVE GROWTH
- We have created a number of NQF level 4 jobs and have upskilled a number of government employees through our TRAINING AND SKILLS TRANSFER PROGRAMS



# **BUSINESS ECOSYSTEM**



#### **USE CASES**

MacrocommSmart Water and Electricity Monitor

MacrocommSmart Logistics and Fleet Analytics

MacrocommSmart **Asset Management** 

MacrocommSmart Infrastructure

**MacrocommSmart Revenue & Enhancement** 

















Livewire is a utility management company that harness smart technologies and knowledge to deliver solutions to our clients that maximize and sustain utility recoveries, savings and efficiency across all types of utilities

























# PROGRAM GOALS

"How can we help you manage your utilities smarter?"



- Verify utility ACCOUNT ACCURACY and secure any over billing refunds
- Ensure that all utilities are always on the most **COST EFFECTIVE TARIFFS** available
- Establish and track against a proper UTILITY BUDGET
- Identify, measure and understand all high **UTILITY COST CONTRIBUTION AREAS**
- Implement **EFFICIENCY SOLUTIONS** to reduce and control utility costs
- Implement SUSTAINABLE ENERGY AND WATER SOURCES to reduce cost and secure supply
- Optimise and ensure accurate TENANT RECOVERIES with best in class metering solutions
- Accelerate the holistic program delivery with FINANCE, FUNDING AND AVAILIBLE
   TAX INCENTIVES to realise and sustain maximum savings

### **VALUE PROPOSITION**



#### **SMART METERING INFRASTRUCTURE** (Electricity, Water, Gas and Environmental)

Livewire offers **FINANCE OPTIONS** to accelerate holistic program delivery and savings

Livewire offers **VALUE ADDED CONSULTING** services related to account disputes, tariff analysis, sustainable energy and water production, efficiency and funding

Custom group specific **UTILITY MANAGEMENT DASHBOARDS** deliver benchmarking and performance reports
via Power BI

sap utility accounting software provides a consolidated view of your property portfolio, utility accounts and tracking against budgets

**Smart** Metering **FDM Finance** Consulting **MDMS** Revenue Recovery **Program** Group Livemopay Reporting **SAP** Support Liveview

FIELD DATA MANAGEMENT system facilitates all installations via our mobile app and tracks performance with a comprehensive dashboard

#### **METER DATA MANAGEMENT SYSTEM**

collects data from all field devices, warehouse all data, ensure data integrity, enable proactive notifications, ensure backup and asset health

coveries from tenants via STS prepaid services or E-wallet services

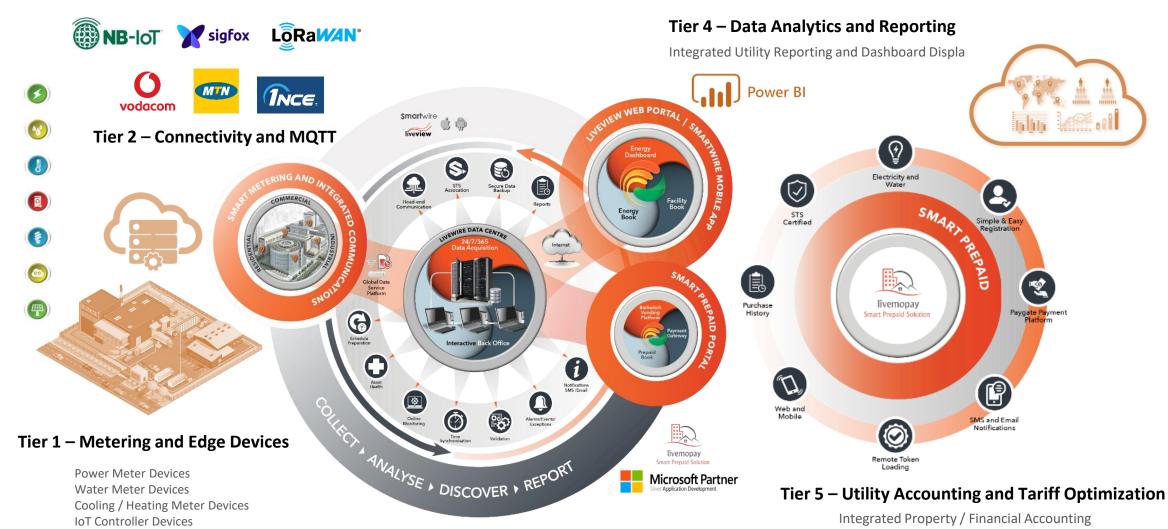
HELP DESK operating from 7 AM to 10 PM (7 days a week) to ensure efficient user and system support

**LIVEVIEW** is our Software-as-a-Service (SaaS) online utility management reporting platform that offers a comprehensive range of easy to use reports and dashboards to ensure optimal efficiency and accurate billing



# SYSTEM ARCHITECTURE OVERVIEW

LIVEWIRE Meter Data Management (MDM) Platform linked to IoT Hub for Energy Data Analytics, Accounting and Reporting



Tier 3 – Meter Data Management and Visualization Console



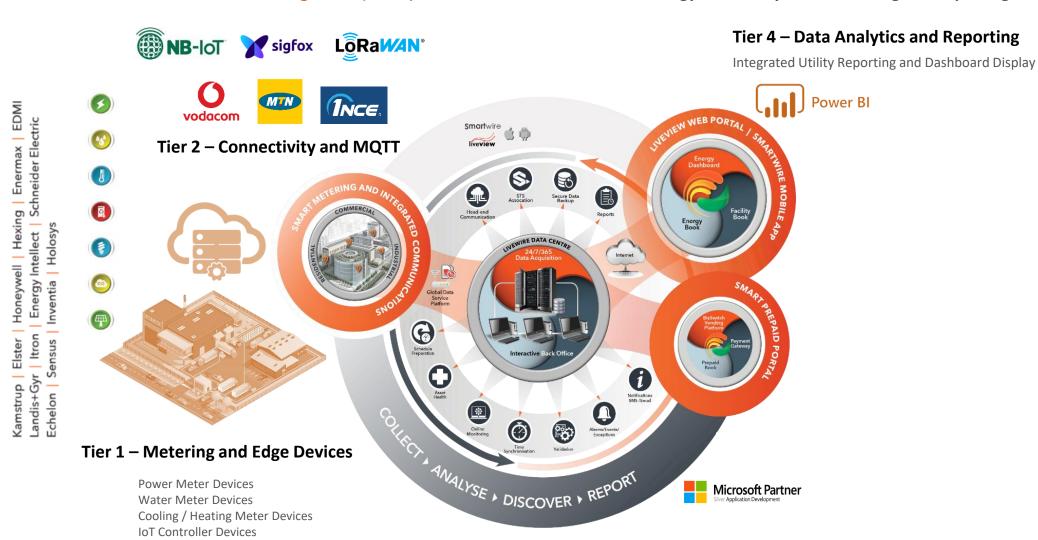
Integrated Property / Financial Accounting

| Honeywell | Hexing | Enermax | EDMI | Energy Intellect | Schneider Electric Energy Intellect Inventia Holosys Itron Kamstrup | Elster Landis+Gyr Echelon

**IoT Controller Devices** 

### MDMS AND UTILITY MANAGEMENT TOOLS - OVERVIEW

LIVEWIRE Meter Data Management (MDM) Platform linked to IoT Hub for Energy Data Analytics, Accounting and Reporting



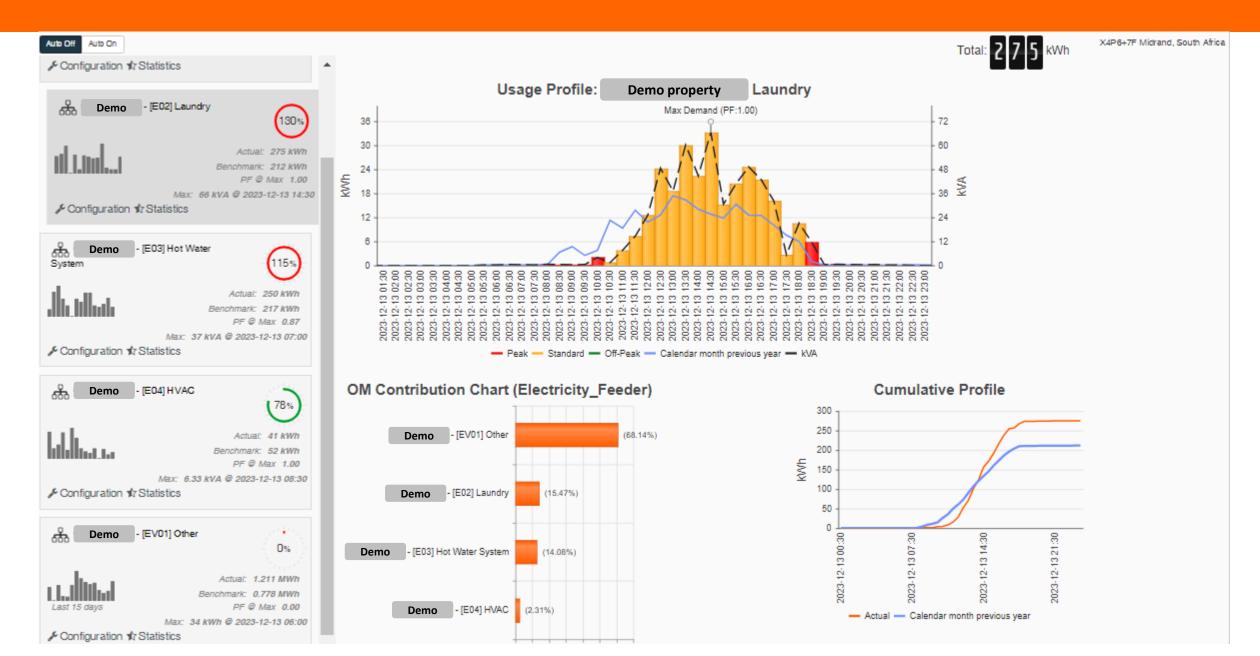
Tier 3 – Meter Data Management and Visualization Console

#### LIVEVIEW ONLINE UTILITY MANAGEMENT SOFTWARE - OPTIONAL

SOLUTION	FUNCTIONALITY
Utility Bill Comparison & Tariff Analysis	<ul> <li>Identify over and under billing</li> <li>Ensure that you are on the most cost effective tariff available to you</li> </ul>
Cost allocation Summary & Cost allocation slips	Accurate cost allocation to all tenants and sub meters
Dashboard displays	<ul> <li>TV displays</li> <li>Group and Management views</li> <li>We cater for all your needs</li> </ul>
Group Summary and Benchmark Reporting	<ul> <li>We can compare different sites with multiple tariffs costing &amp; usage</li> <li>Detailed report on energy or water performance to monitor current data and historical data</li> </ul>
SANS 204 1 2008 Energy Efficiency in Buildings	<ul> <li>Group and facility performance compared to SANS standard to identify inefficiency building management</li> </ul>
DATA import / Exports	<ul> <li>We can export any format and layout for your importing needs to your financial system</li> <li>Flat files "CSV"</li> <li>SOAP Interface for easy data exports</li> </ul>
Custom BI Dashboard	<ul> <li>Our team can design and develop custom industry / company specific dashboards that integrate data from multiple sources</li> </ul>
Photovoltaic Solar Reporting	Solar billing reports with Grid demand saving calculations
<b>Custom Report Development</b>	Lets take care of your existing report and make life easy



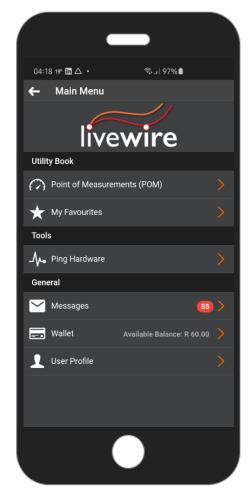
#### **LIVEVIEW DASHBOARD – CONSUMPTION POINTS EXAMPLE**



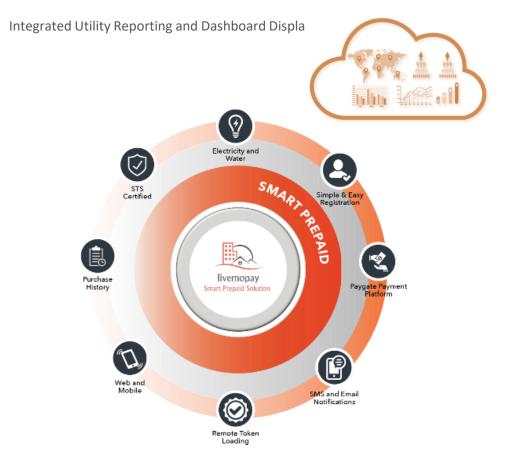
### **SMARTWIRE UTILITY MANAGEMENT APPLICATION**

Tools	Functionality
Utility Book	<ul> <li>Smart meter load profiles</li> <li>Smart prepaid load profiles and purchases</li> <li>Prepaid purchases and usage</li> <li>Conventional meter readings and usage statistics</li> </ul>
Competition Book	<ul> <li>Leaderboard scoring per defined category e.g. Consumption per Occupancy</li> <li>Total Cost per Occupancy</li> <li>Time-of-Use Cost per Occupancy</li> </ul>
General	<ul> <li>Messages – Push notifications</li> <li>User Profile</li> </ul>





## THIN-PREPAID / LIVEMOPAY UTILITY WALLET - OVERVIEW



**Tier 5 – Utility Accounting and Tariff Optimization** 

Integrated Property / Financial Accounting



# LIVEMOPAY MOBILE APPLICATION (UTILITY WALLET)

# The problem

## Challenge

Inaccurate billing, data errors, ease of use

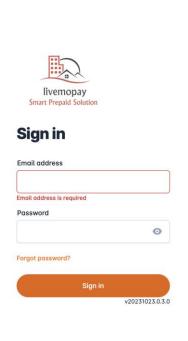
### **Negatives**

Low customer satisfaction due to no transparency



# The solution

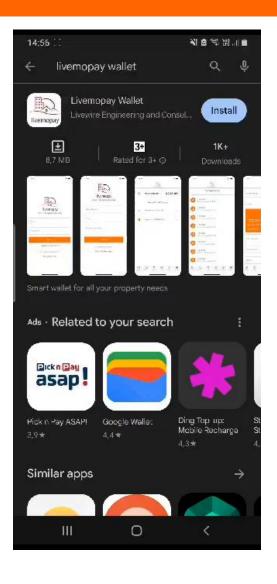
One unified platform that takes data from all sources of revenue combined with GIS data to be able to accurately determine revenue and to enhance revenue collection.





## LIVEMOPAY MOBILE APPLICATION (CLIPS)

Registration

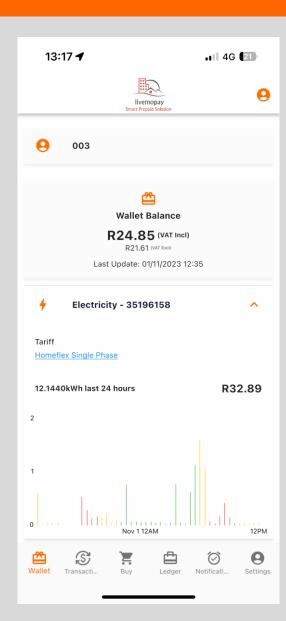


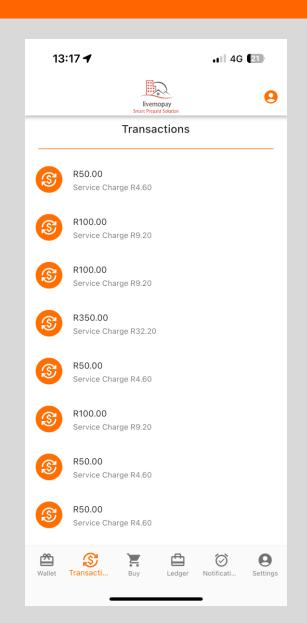
Wallet top-up

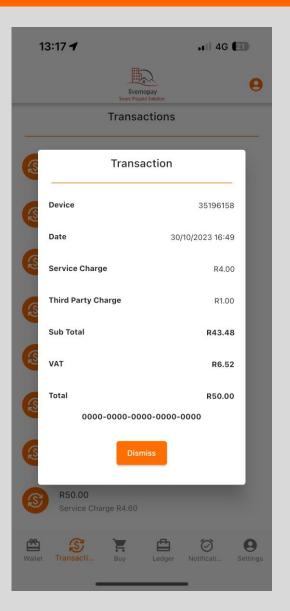




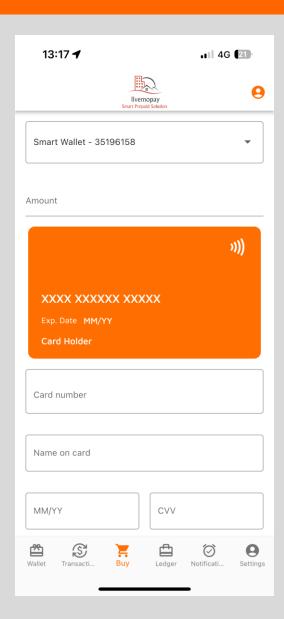
# **MOBILE APPLICATION (SCREENSHOTS)**

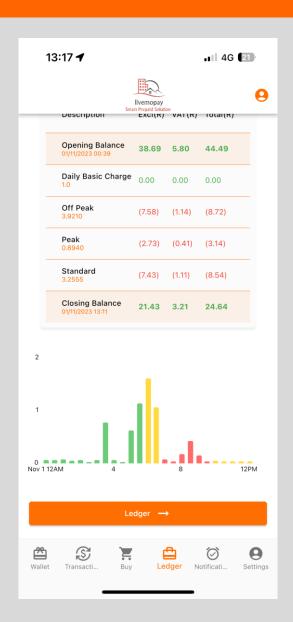


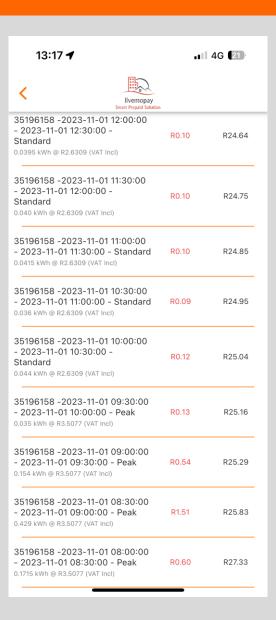




# **MOBILE APPLICATION (SCREENSHOTS)**







### **PAYMENT OPTIONS**

#### EFT TRANSFERS:

- Payments reflect instantly on receipt of the automated proof of payment (as setup when creating a new beneficiary)
- No card fees transaction fees or third-party vending fees relevant to the user

#### CARD PURCHASES:

- Debit Card/Credit card purchases on the Livemopay application
- Card transaction fees will be deducted from the user on purchase

#### THIRD PARTY VENDORS:

- Available at ATM's, Online banking channels, Garages and stores
- Third party vending fees will be deducted from the User on purchase

#### **Automated EFT Solution**

An automated EFT solution is available 24/7 and there is no third party charge applicable at all. This functionality is available 24/7 and has advanced automated reconciliation and verification methods in place to ensure no duplicate vends occur. All major banks are supported.

STS Tokens are delivered to the customer via the following channels

- SMS
- E-Mail
- Push notification on mobile application

This channel is unmanned and automated and is available 24/7







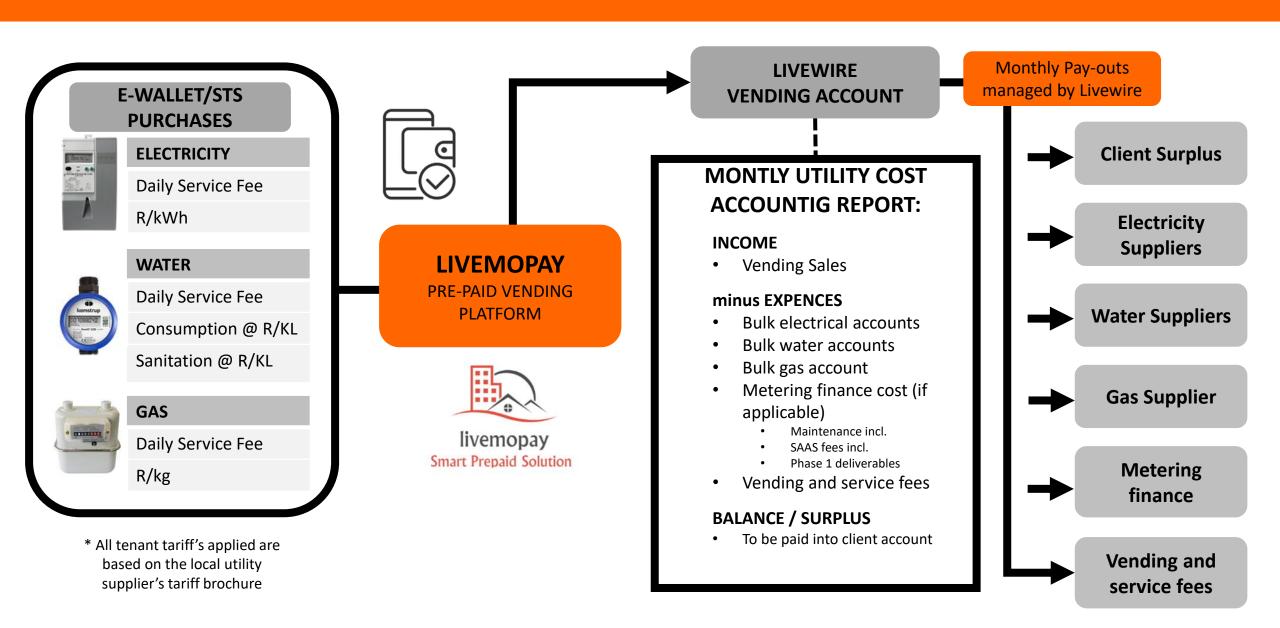








### TYPICAL RECOVERY MODEL – THIN PRE-PAID SOLUTION

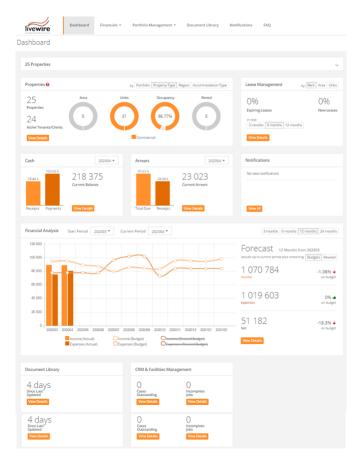


### LIVEWIRE UTILITY ACCOUNTING SERVICES - OPTIONAL

#### **FUNCTIONALITY**

- Manage utilities account more on behalf of the client
- Ensure that each property and tenant is on the most cost effective tariff
- Linking all municipal bills and utility supplier to a property and billable area
- Full reporting on different levels for each parties' requirements
- Quick and easy access to data per billing period/month for all utilities
- Asset management per meter with location setup in MRI / MDA
- Full mapping of all buildings and billable areas
- Deliver a monthly cost allocation report, statement and pay any surplus into the clients account





## **CONTACT US**



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