***i****ntelligent* **R**evenue **E**nhancement and **P**rotection **S**olution

*i*REPS

by F Kentane

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# Introduction

# What is iREPS

# What inspired iREPS

# The Energy paradigm in SA

# The Problem Space - Challenges

## Local gov revenue model

## The Energy Distribution Network Problems

## Billing System at local gov level

## Revenue Collection

## Eskom Billing at local gov

# Solutions – iREPS

Solution strategy – Three pillars

## The HR

## The Processes

## The Technology

# iREPS Philosophy

## Best User Experience

Material UI

## Latest Web Technologies

Google Analytics

Artificial Intelligence

Machine Learning

## Sustainability

## Give back to community

# iREPS architecture

## The Client Systems

## The Server Systems

## iREPS Technologies

## Built-in Security

# iREPS users

## User Roles

### Trial User

### Full user

#### Super User

#### Manager Roles

#### Supervisor

#### Field Worker

## Municipal Customers

# iREPS Key Data Components

## Cadastral data

## Deeds Office Data

## Field Data

### Automatically Acquired Field Data

### User Acquired Field Data

# iREPS user interface

## Authentication System

## Assets

#### The Tabular View – iREPS Assets Table

#### The Spatial view – iREPS Assets Map

#### The Hierarchical View – iREPS Assets Tree

## Transactions

## Dashboard

## Supply Chain

## Cadastral Data Management

## iREPS Body of Knowledge

## Admin

# Partner Network

## Energy Network Assets Partners

## Electricity Vending Partners

## Academic Institutions

# iREPS Development Strategy and Sustainability over time

# Why would you want to use iREPS

## Data Cleansing

Update customer data in the billing system

## Manage and Track Assets

Track assets from procurement to delivery at stores,

Track assets checked out from stores to installation in the field

Monitor field assets via Advanced Metering Infrastructure (AMI)

## Enhance and Optimize Revenue Collection

Customer Tariff management

## Electricity Vending

Provide third parties with a electricity vending platform

## Manage and Prevent Meter Tempering

Respond promptly to meter temper alarms thereby eliminating electricity theft

## Debt Collection

Link customer aged debts to vending system for an optimal debt collection

## Electronic Municipal Invoice Delivery

## Remit Municipal Bills/Invoices

## Credit Control

Automate management of electricity cutoff (disconnections) and reconnections

## Instant Access to iREPS data

Client (Municipality) access to iREPS online for immediate and up-to-date data and reports

# Appendix

## Data dictionary

Here you find al the terms used in this document clearly defined