In-Field Data collection Technology

SARPA National Convention

July 2012

Presenter: Hugo Götze

MOTLA

DRAKENSTEIN

Background

The need for accurate data

Background

The search and problems encountered

Defining M³

Basic Principle

Manage the in-field data collector

Ensure the data collectors are:

^ Honest

^ Accurate

^ On time

Accurate data as a result

Basic Principle

"Real Time" Management

Data is available on the server "Real Time":

^ Know what is happening now

^ Act and mange now

Improved service levels as a result

Basic Principle

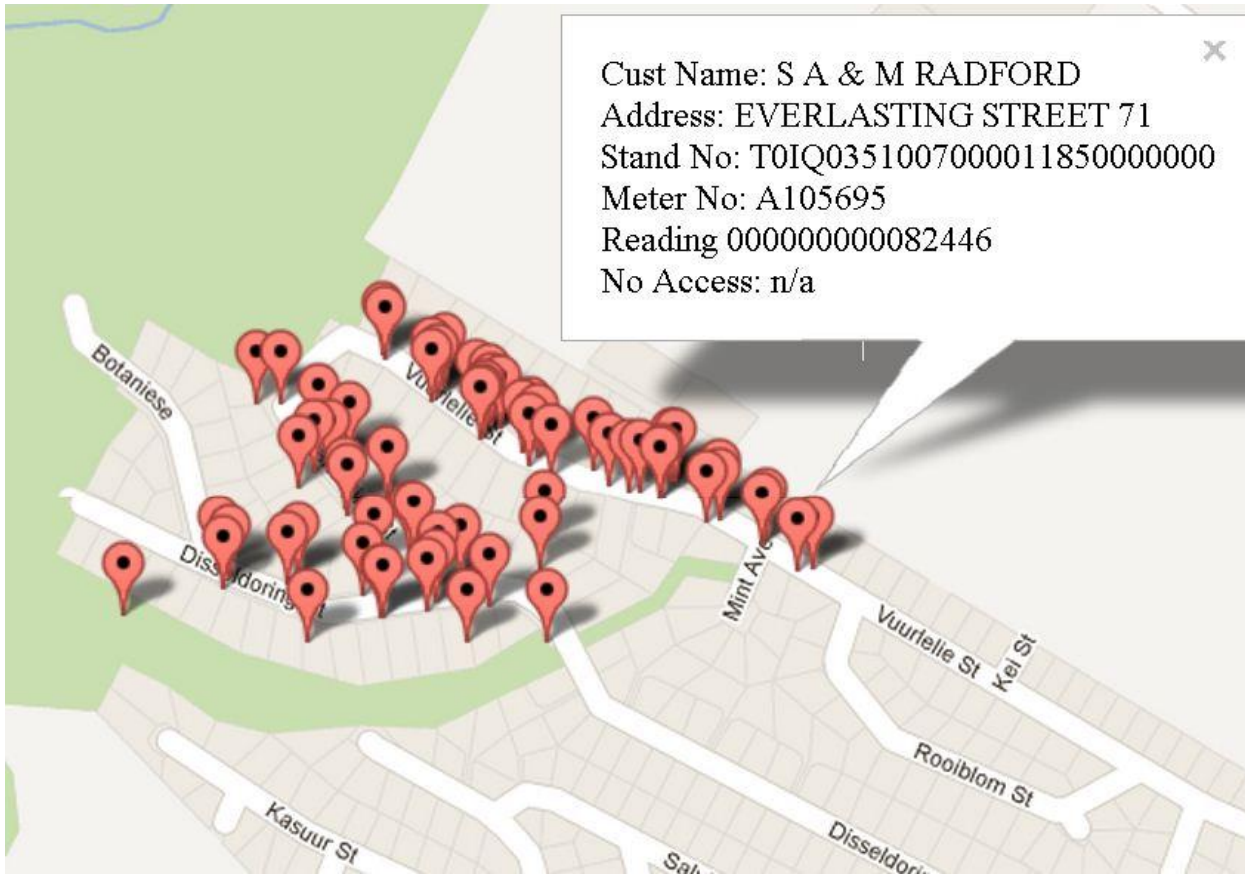**Spatial Management**

Data is available with GPS Co-ordinate:

^ Know what is happening where

^ Manage with visual aids

Cost saving as a result

Basic Principle

Spatial Management

Cust Name: S A & M RADFORD
Address: EVERLASTING STREET 71
Stand No: T0IQ0351007000011850000000
Meter No: A105695
Reading 000000000082446
No Access: n/a

Basic Principle

Photo's

See what must be done while in your office:
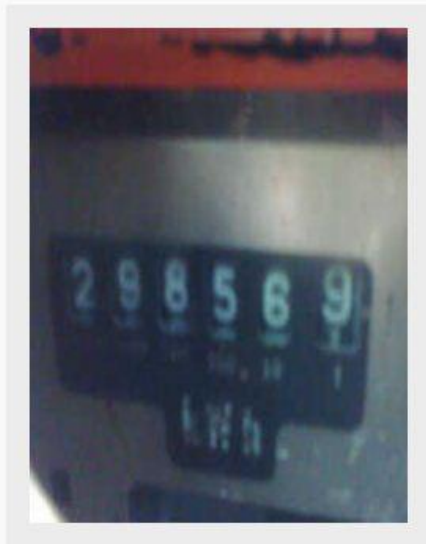
^ Know who to send

^ Know what to send

Cost saving as a result

Basic Principle

Photo's

| PORTION C CON | JUNE 2012 | C-001-A-CR2233 | P9224 / DISSELDORING STREET 76 | PICTURE VIEWER |

Cycle:	Portion C CON	Billing Period:	June 2012	Route Name:	C-001-A-CR2233	Debtor Name:	P J & D A DU PLESSIS	Address:	DISSELDORING STREET 76	Stand No:	T0IQ035100600001690000000
Meter No:	P9224	Dials:	6	Type:	KWH	Reading:	000000000298569	Reason for no input:	n/a	Reader Note:	n/a
Date Taken:	2012-06-23	Time Taken:	11:55:44	GPS Latitude:	-26.09738251856	GPS Longitude:	27.843176804316	Map Available:	YES	Export:	Export

C-001-A-CR2233--30254--37--cty1--1340445300.jpg

C-001-A-CR2233--30254--37--cty1--1340445337.jpg

Basic Principle

Photo's

Basic Principle

In-Field Quality Management

Expected Outcome

The system knows what to expect and will require checks and balances to be done if this outcome is not provided.

Basic Principle

Works Orders

Meter Reading, Credit Control, Maintenance Tasks, Meter Audits.

ALL WORKS ORDERS!

Functionality

Technical

- ^ GSM
- ^ GPS
- ^ Camera
- ^ Quality assurance software

Functionality

Routing

^ Set up new routes using GIS information and Cadastral information or manually.

^ Import existing routes.

^ Combine routes

^ Split routes

Functionality

Cycles / Schedules

^ Allocate routes to cycles

^ Progress indicators

^ Schedule all activities and tasks

Functionality

Data Collectors / Technicians

- ^ User name & password
- ^ Allocate routes and tasks
- ^ Link to payroll system
- ^ Link to time and attendance systems

Functionality

Reporting (Examples are)

^ Technician performance i.t.o.
- No of actual actions performed
- Time per action
- Time started
- Time stopped
- etc

^ Route Performance
^ Cycle Performance
^ Total Performance

Functionality

Reporting Continues

^ Spatial reporting

^ Special investigation reports

^ Maintenance reports

^ New meter reports

^ Data variation reports

^ Trends

^ All can be exported to Excel

^ Links to Google earth and Google Maps

Recap

- Fully customisable
- Modular
- Visual aids
- GPS technology
- GPRS technology
- Holistic solution
- No Capital layout
- Improves revenue

Customisable

DRAKENSTEIN

Last Thought

The importance of change

It is not the strongest of the species that survive, nor the most intelligent, but the one most responsive to change *-Charles Darwin*