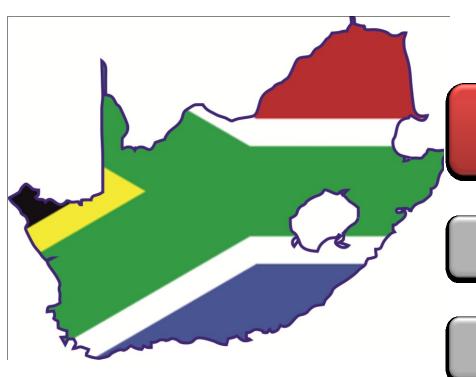
add new tech to your business!

#### **REACTIVE & PROACTIVE REVENUE PROTECTION WITH**

# **ADDAX AMI**

### **SOUTH AFRICA**



#### Financial loss in South-African Utilities generated by:

Low payment collection rate

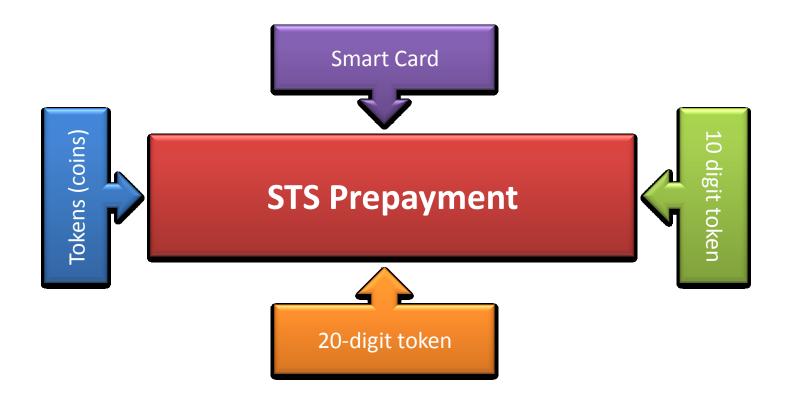
**Energy Theft** 



### **SOUTH AFRICA**

#### **Revenue Collection**

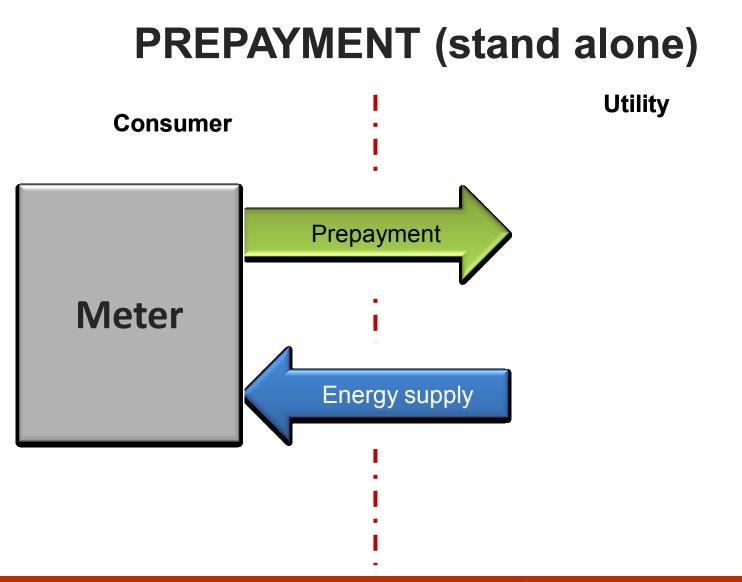
#### History of development of prepayment solutions







### **EXISTING SOLUTIONS**





## **SOUTH AFRICA**

#### **Revenue Collection**

#### **Energy Theft**

#### **STS drawbacks**

- **no** information on consumption
- no information on energy theft
- no possibility to remotely disconnect/ reconnect consumers

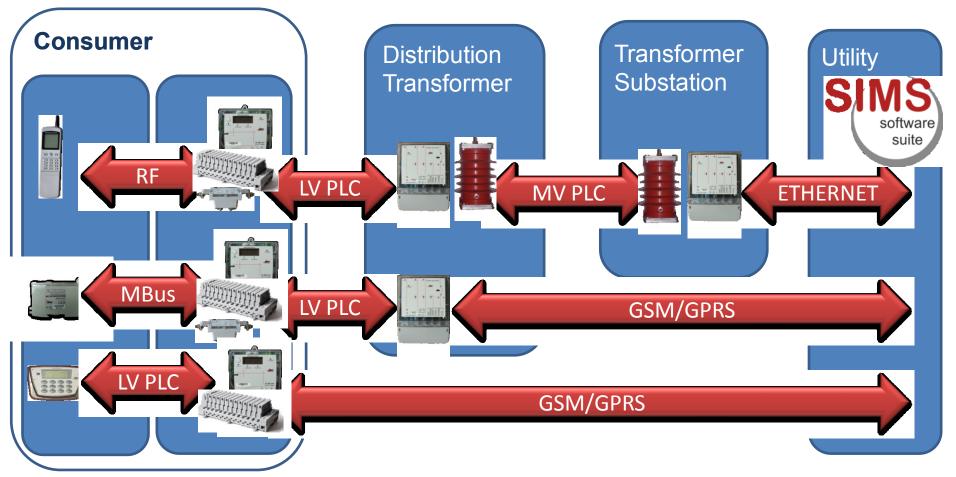


Eskom CEO Brian Dames: **"Electricity theft costs South Africa an estimated R4,4 billion a year."** 



# **ADDAX SOLUTION**

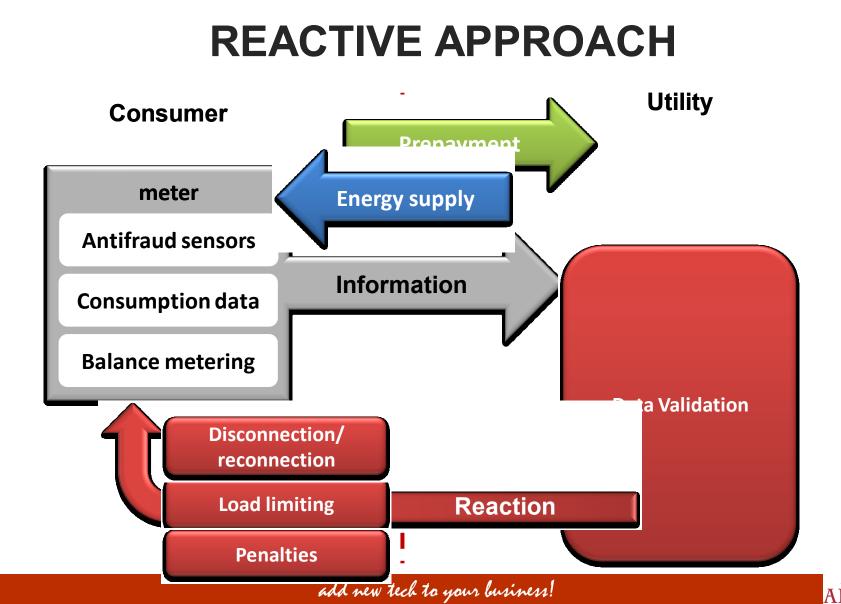
#### **STS based on TWO-WAY data-exchange**



add new tech to your business!

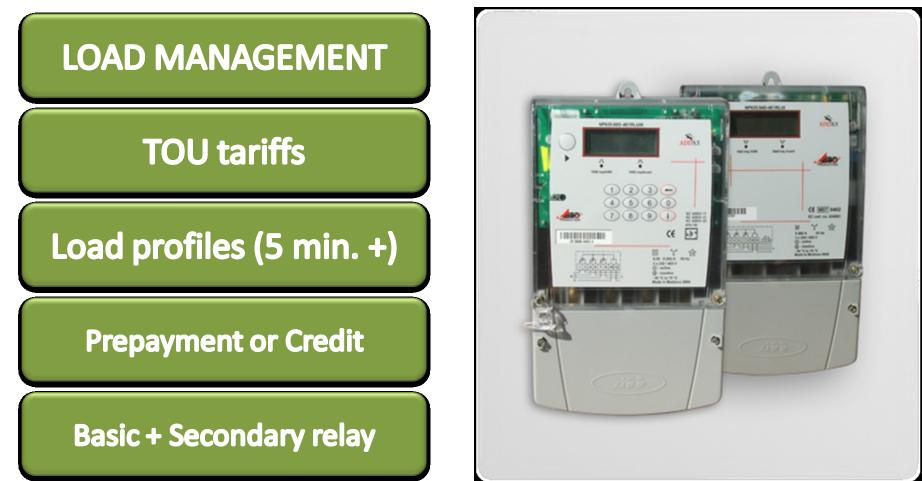


### **ADDAX SOLUTION**



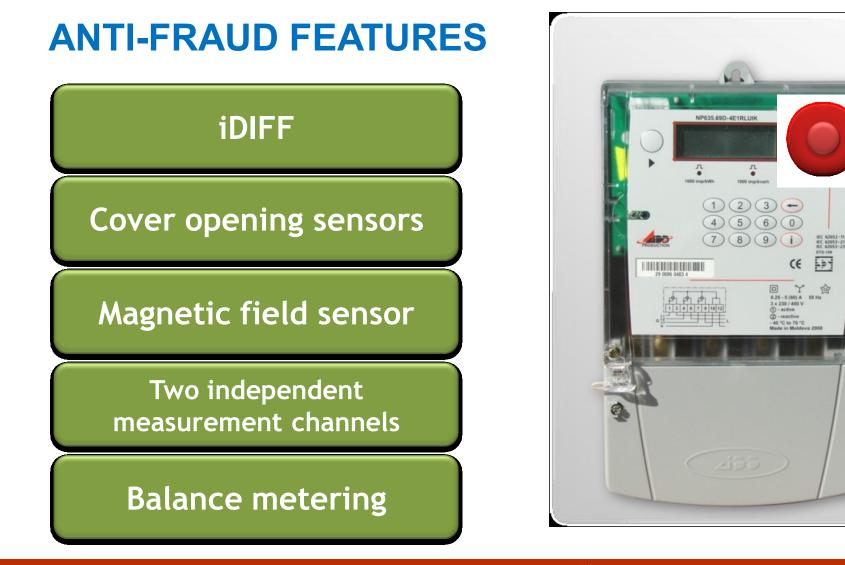
### **ADDAX IMS METERS**

#### **BASIC FEATURES**





### **ADDAX IMS METERS**





6

### **ADDAX IMS METERS**

#### COMMUNICATIONS

Interoperability (DLMS, PRIME, 3G)

Integrated PLC modem (FSK, S-FSK, OFDM)

Data-exchange over three phases

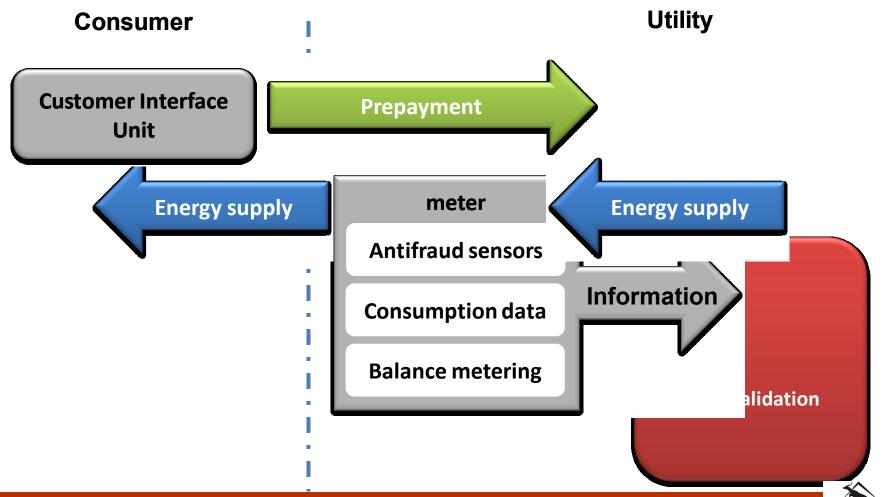
Additional communication modules GPRS or M-Bus (wire/wireless)

Optical port for local dataexchange



### **ADDAX SOLUTION**

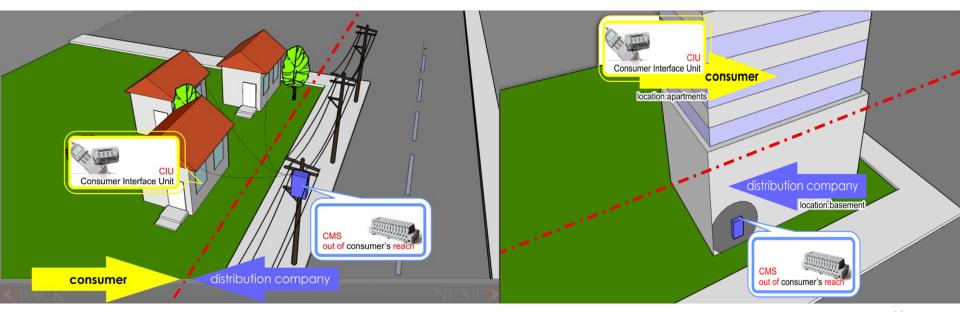
#### **PROACTIVE APPROACH**



# **CENTRALIZED METERING SOLUTION**



#### SECURED FROM UNAUTHORIZED ACCESS



ADDAX

# **PROACTIVE REVENUE PROTECTION**





#### INACCESSIBLE FOR THE CONSUMER

#### 2-WAY COMMUNICATIONS

LOAD MANAGEMENT

### PREPAYMENT

**TIME-OF-USE** 

COMPLETE FUNCTIONALITY OF A SMART METER

ADDAX

# **CENTRALIZED METERING SOLUTION**



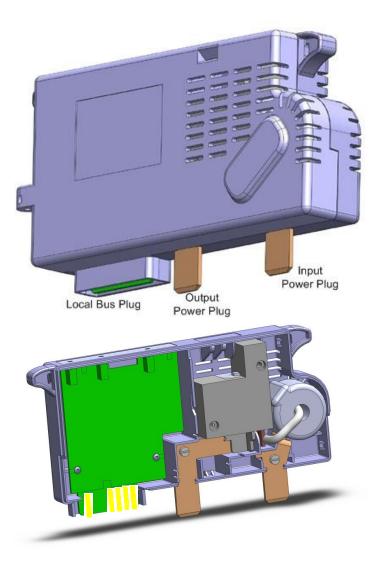
# **UNIQUE DESIGN**

MODULAR CONSTRUCTION





# **METERING MODULE**



What does it provide? +LOAD MANAGEMENT THROUGH BUILT-IN RELAY +THREE-PHASE METERS FROM THREE SINGLE-

+ THREE-PHASE METERS FROM THREE SINGLE-PHASE MODULES

+ EASY-REPLACEABLE

+ REMOTE CONFIGURATION AND UPGRADE

+LOAD PROFILES

+ACTIVE & REACTIVE ENERGY

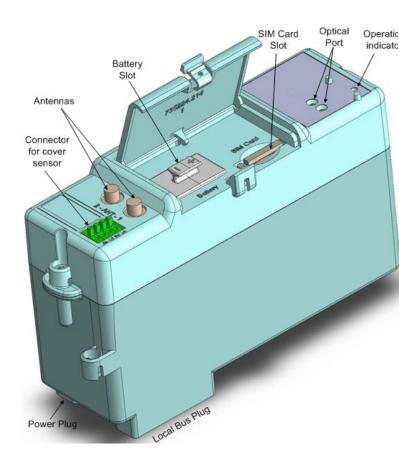
+ACCURACY CLASS 1

Add new new to your current:



# **NET NODE**

DISCONNECTION



#### What does it provide? + SYNCHRONIZES THREE-PHASE METERS

+ EQUIPPED WITH ADVANCED ANTI-FRAUD SENSORS

+ HAS BUILT-IN PLC MODULE (BASIC COMM. CHANNEL)

+ COMMUNICATES ON OPEN PROTOCOLS (DLMS/COSEM)

+ BUILT-IN GSM/GPRS MODULE (SECONDARY COMMUNICATION CHANNEL)

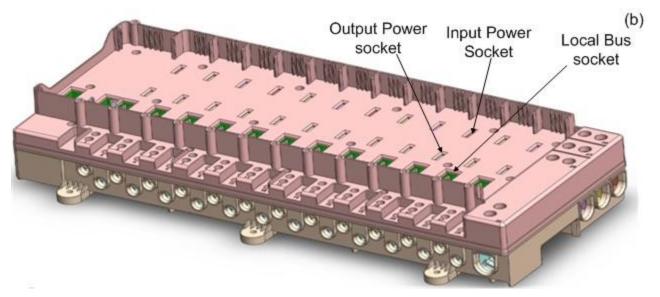
+ SUPPORTS UP TO 12 METERING MODULES IN ANY COMBINATIONS AND UP TO 12 DISPLAYS

+ STORES ARCHIVE CONSUMPTION DATA IN BUILT-IN NON-VOLATILE MEMORY



### **BASE BOARD**

#### What does it provide?



#### + EASY MOUNTABLE

+ DIFFERENT DESIGNS: 6, 9 OR 12 METERING MODULES



# DISPLAY



#### What does it provide?

- + DIFFERENT DESIGNS FOR DIFFERENT NEEDS (SIMPLE DISPLAYS AND CUSTOMER INTERFACE UNITS)
- + BUILT-IN PLC OR MBUS (RADIO) MODULES
- + STS COMPATIBLE KEYPAD
- + ALARM AND EVENTS DISPLAYING
- + SAFE RECONNECTION THROUGH SAFETY BUTTON



#### add new tech to your business!









### What does it provide?

- + LOAD MANAGEMENT (BUILT-IN RELAYS)
- + CREDIT OR PREPAYMENT (STS)
- +TIME-OF-USE

CMS

+2-WAY COMMUNICATIONS



# POLE MOUNTED METER



What does it provide? +LOAD MANAGEMENT THROUGH BUILT-IN RELAY +UNAGGESIBLE FOR THE CONSUMER +REMOTE CONFIGURATION AND UPGRADE +AGTIVE & REAGTIVE ENERGY

+ ACCURACY CLASS 1

+ ENERGY QUALITY MONITORING



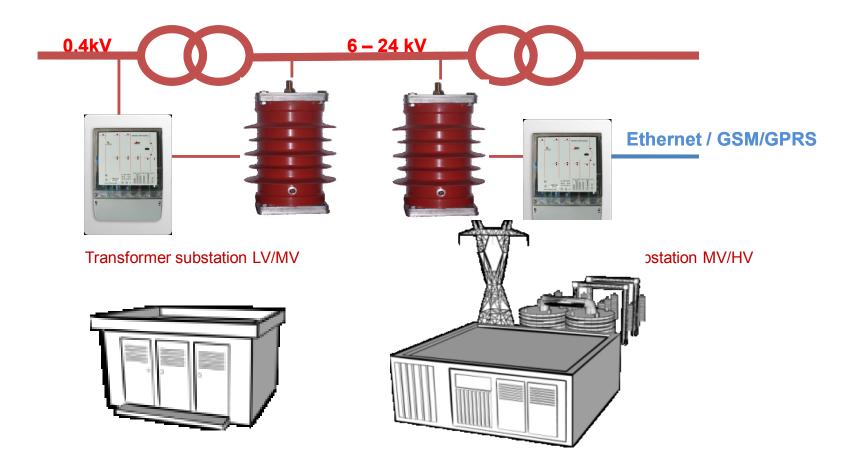
#### **CASE STUDIES: POLE METERS**

Customer	SAKHALYN ENERGY DISTRIBUTION	Customer	BALACHYKHA ENERGY DISTR.
Location	RUSSIA, SAKHALYN	Location	RUSSIA, MOSCOW REGION
Number of ADDAX metering points	75 000	Number of ADDAX metering points	115 000
Pole meters	20 000+	Pole meters	15 000+
Communications used	LV PLC + GSM/GPRS	Communications used	LV PLC + GSM/GPRS
Energy losses before	70%	Energy losses before	35%
Energy losses after	8%	Energy losses after	6%





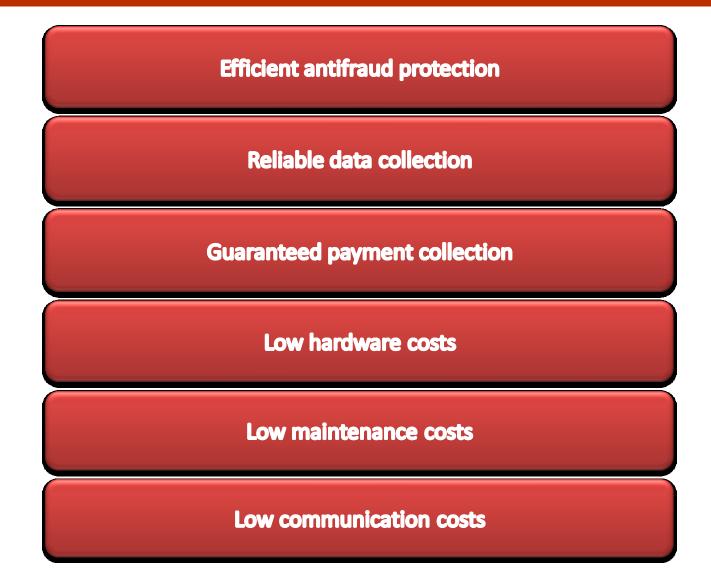
### **MEDIUM VOLTAGE PLC**







#### Why choose ADDAX prepayment solution?





# Thank you!

