
NETWORK EQUIPMENT CRIME

THE ESKOM EXPERIENCE

Presentation to SARPA Convention

2013

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STATING THE PROBLEM

When looking at Network Equipment Crime, one tend to see it in terms of financial loss to the organisation. One tend to forget other implications. Eskom places a very high premium on human life. We do not tolerate injuries and even worse, fatalities on plant.

The next slide demonstrates the danger of tampering with high voltage equipment. This poor guy probably tried to steal a piece of copper to support his family, or even worse was employed by a crime syndicate to steal and paid with his life whist the fat cats responsible walked away only to employ another victim.

STATISTIC ???



ESKOM INCIDENTS / LOSSES

2002 TO 2012

During 2002 Eskom experienced losses of close to a R100 million as a result of 2500 incidents of Network Equipment Crime.

As a result of implementing certain strategies internally by the Eskom Network Equipment Crime Committee (ENECC) and externally by the Non Ferrous Metal Crime Combating Committee (NFMCCC), losses were reduced to an average of an average of R30 million and incidents to an average of 1500 over recent years.

CRIME TREND – 2011/12 to 2012/13 FINANCIAL YEARS

Eskom Total

A comparison of the conductor theft statistics from April 2011 to March 2012 and April 2012 to March 2013 indicates the following:

- A decrease of **24%** on the number of incidents reported (from 2140 to **1617**);
- **12%** decrease in the value of material stolen (from R24 078 396 to **R21 295 305**)

Note: *Implementation of the new Second Hand Goods Act on 30 April 2012, followed by aggressive policing of the scrap industry by law enforcement agencies supported by industry role-players, had a huge impact on the trading in stolen material. This directly contributed to the decrease in incidents and losses recorded during the past financial year.*

However, indications are that organised crime syndicates are reorganising and are still very active. The decrease in incidents and losses are as a result of “bread and butter” thieves reverting to other crimes.

CRIME TREND – 2011/12 to 2012/13

ORGANISED CRIME

To demonstrate the impact of organised crime syndicate activity on the Eskom network, note the following example experienced by KZN province between 1 June and 2 August 2012:

- 20 theft incidents were perpetrated on overhead lines between New Castle and Hibberdene;
- a total of 20 860 meters of overhead copper cable (\pm 20 tons) was stolen;
- Replacement costs R1 847 130;
- 97 647 customers were affected;
- Total down time experienced by customers: 230 593 hours.

TARGET



**395 419 KM overhead
lines**



OVERHEAD CONDUCTOR



UNDERGROUND CABLE



**11 018 KM
underground
cable**



THEFT FROM PYLONS



THEFT FROM PYLONS



Losses suffered as a result of one line that collapses as a result of theft of steel lattices could amount to more than what Eskom lose as a result of conductor theft in a year.

TRANSFORMER THEFT



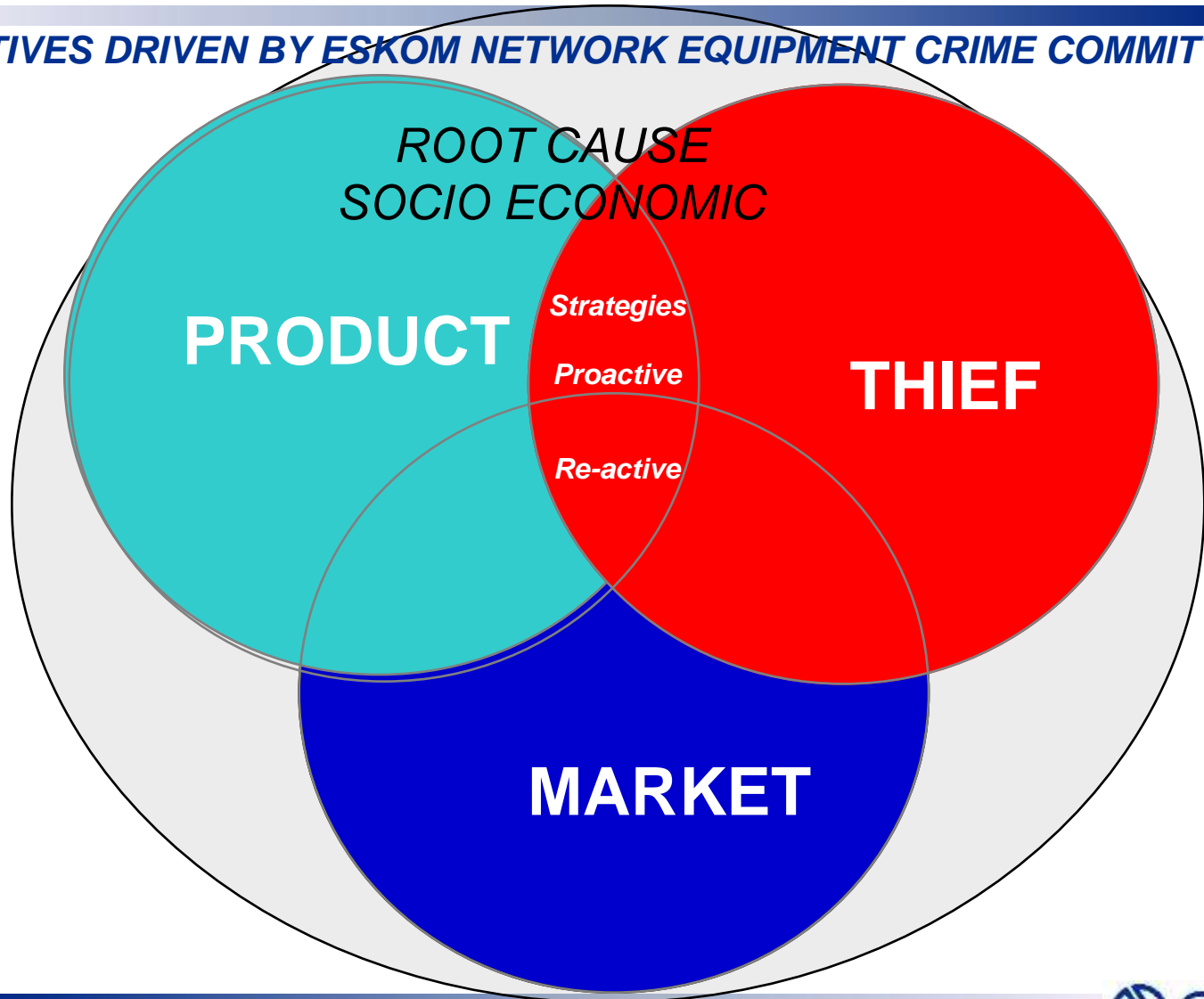
**351 297 installed transformers
targeted for its copper content**



ESKOM's NETWORK EQUIPMENT CRIME STRATEGY

MAIN FOCUS AREAS

INITIATIVES DRIVEN BY ESKOM NETWORK EQUIPMENT CRIME COMMITTEE



MODUS OPERANDI

Product

- Identifiable (unique) if possible
- Marking of material (visible)
- Physical security in “hotspots”
- Internal control – stores, construction projects, contractors etc
- Technical solutions (alarm systems – networks & sites. Alternative material)

MODUS OPERANDI

Market

- Identify the market (research)
 - *Re-use? Contractors? Illegal projects?*
 - *Scrap Market?*
 - *Export market? To which Country? Export agents & transporters?*


- Policing
 - *Remove legal scrap from market (national contract)*
 - *Awareness: press & posters – market & public (toll free number)*
 - *Monitor & police*

AWARENESS MATERIAL

Widely distributed to the scrap industry and community in general.

Each known scrap dealer in the country is in possession of the poster below,

with Eskom's crime hotline to any suspicious material presented for sale.

 Eskom

Common electrical conductors used by Eskom

Copper

Type	O.D.	Copper
16mm Concentric	mm	kg. m
	6.9	11 1.5

Type	O.D.	Copper
18.083	mm	kg. m
	8.5	11 1.8

Type	O.D.	Copper
7.182	mm	kg. m
	15.8	1 3.48

Type	O.D.	Copper
0.508/16mm Split Round	mm	kg. m
	16.0	1 3.48

Type	O.D.	Copper
7.136	mm	kg. m
	16.5	1 3.48

Type	O.D.	Copper
40.00 x 20mm Flat Strip	mm	kg. m
	40.0	2 0.0

Aluminium

Type	O.D.	Aluminium	Steel Core
Hard	mm	kg. m	kg. m
	16.5	8 5.77	1 5.77

Type	O.D.	Aluminium	Steel Core
Squirrel	mm	kg. m	kg. m
	22.5	8 5.7	1 5.7

Type	O.D.	Aluminium	Steel Core
MRK	mm	kg. m	kg. m
	16.0	8 5.88	1 5.88

Type	O.D.	Aluminium	Steel Core
2 Core 16mm ABC	mm	kg. m	kg. m
	16.0	8 5.88	1 5.88

Type	O.D.	Aluminium	Steel Core
Flat	mm	kg. m	kg. m
	16.0	8 5.79	1 5.79

Type	O.D.	Aluminium	Steel Core
4 Core 16mm ABC	mm	kg. m	kg. m
	16.0	8 5.88	1 5.88

How can aluminium conductors be identified?

Each strand of new aluminium conductor can be identified by an indentation at an angle of 180 degrees on each strand. Conductor marked in this way is only used by Eskom. Old conductors are not marked in this way and it should not be assumed that unmarked conductor is NOT Eskom property.

Report any crime or suspicious activity to Eskom Izinyoka crime line on 0800 11 27 22



Theft and vandalism of Eskom equipment cost customers and Eskom millions of rands...

January 2018							February 2018							March 2018							April 2018																
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Public Holidays	School Term	Important Dates
Monday 1st Jan Tuesday 2nd Jan Wednesday 3rd Jan Thursday 4th Jan Friday 5th Jan Saturday 6th Jan Sunday 7th Jan Monday 8th Jan Tuesday 9th Jan Wednesday 10th Jan Thursday 11th Jan Friday 12th Jan Saturday 13th Jan Sunday 14th Jan Monday 15th Jan Tuesday 16th Jan Wednesday 17th Jan Thursday 18th Jan Friday 19th Jan Saturday 20th Jan Sunday 21st Jan Monday 22nd Jan Tuesday 23rd Jan Wednesday 24th Jan Thursday 25th Jan Friday 26th Jan Saturday 27th Jan Sunday 28th Jan Monday 29th Jan Tuesday 30th Jan Wednesday 31st Jan Thursday 1st Feb Friday 2nd Feb Saturday 3rd Feb Sunday 4th Feb Monday 5th Feb Tuesday 6th Feb Wednesday 7th Feb Thursday 8th Feb Friday 9th Feb Saturday 10th Feb Sunday 11th Feb Monday 12th Feb Tuesday 13th Feb Wednesday 14th Feb Thursday 15th Feb Friday 16th Feb Saturday 17th Feb Sunday 18th Feb Monday 19th Feb Tuesday 20th Feb Wednesday 21st Feb Thursday 22nd Feb Friday 23rd Feb Saturday 24th Feb Sunday 25th Feb Monday 26th Feb Tuesday 27th Feb Wednesday 28th Feb 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May Thursday 10th May Friday 11th May Saturday 12th May Sunday 13th May Monday 14th May		

Report any crime or suspicious activity to the Eskom Iz'nyoka crime line on **0800 11 25 25**



MODUS OPERANDI

Thief

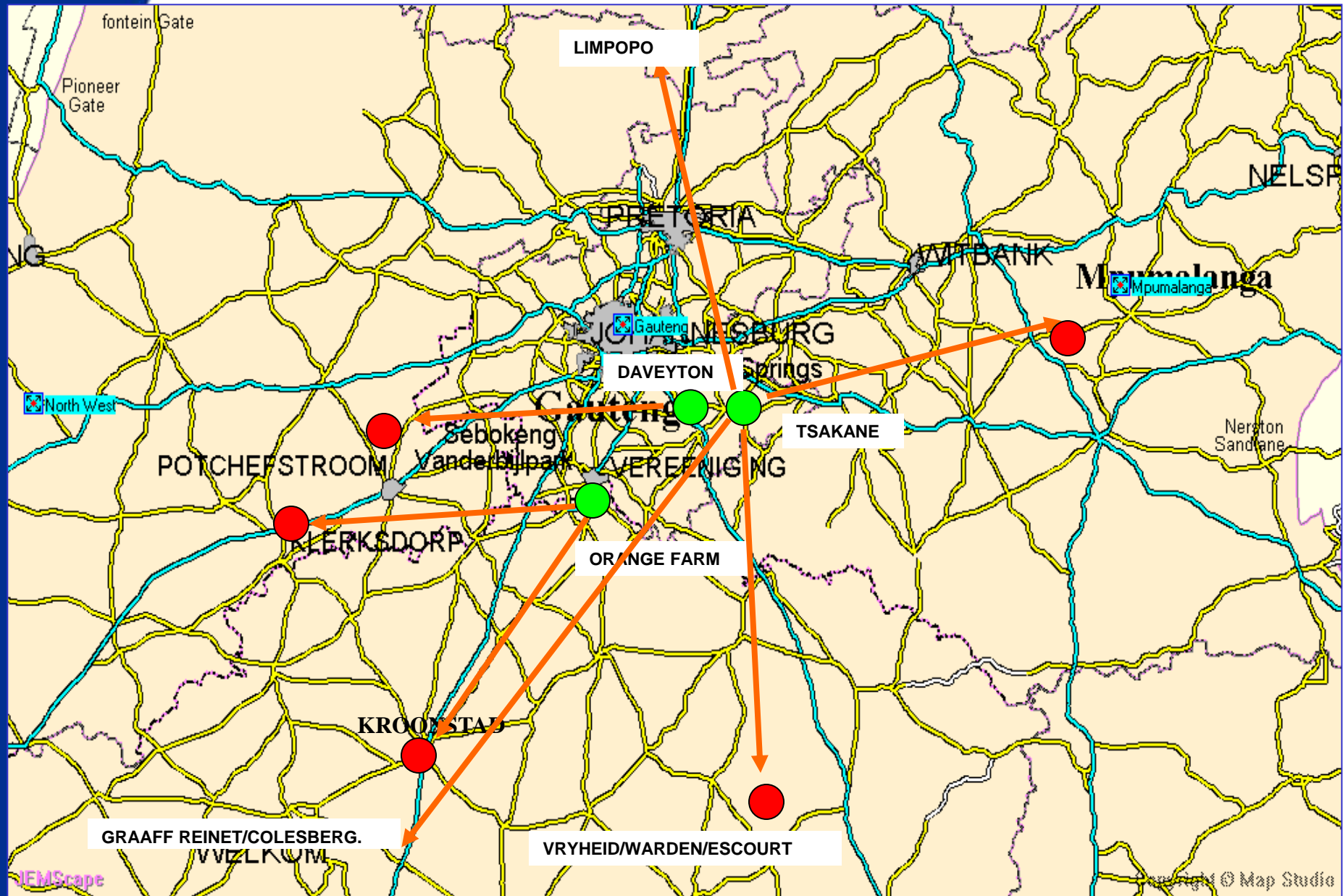
- Organised syndicates vs “bread & butter” thieves.
- Organised syndicates – Reactive strategy
 - *Intelligence driven operations (identify, infiltrate, investigate, apprehend)*
- “Bread & butter” thieves – Proactive strategy
 - *Prevention – dominate area by patrols (Security companies, SA Police Services)*
 - *Market Influence*
 - *Public participation - information (advertise, toll free number & rewards)*

24 SYNDICATE MEMBERS ON TRIAL

420 years imprisonment



MONITORING OF HOTSPOTS



EXPORT MARKET

Container confiscated in Durban harbour. Eskom Transnet and Telkom material

clearly visible. Exporter was convicted and sentenced.



AWARENESS

Eskom's anti crime t-shirts and caps distributed to informal traders and scrap dealer employees.



INDUSTRY COOPERATION

NFMCCC & SACCI

National Committee & Regional Committees

Targets

Eskom

Telkom

Transnet

Mine Groups

Manufacturing Industry

Recycling industry

Metros/Municipalities

Support

SAPS

NPA

DTI

o **Customs & Excise**

BAC

SARS

SADC PICTURE

***SAPP HARARE CONFERENCE on Equipment Theft 19
June 07 – Theft and Prevention Work Group formed:***

RSA

Malawi

Lesotho

Mozambique

Swaziland

Tanzania

Botswana

Namibia

Zambia

Zimbabwe

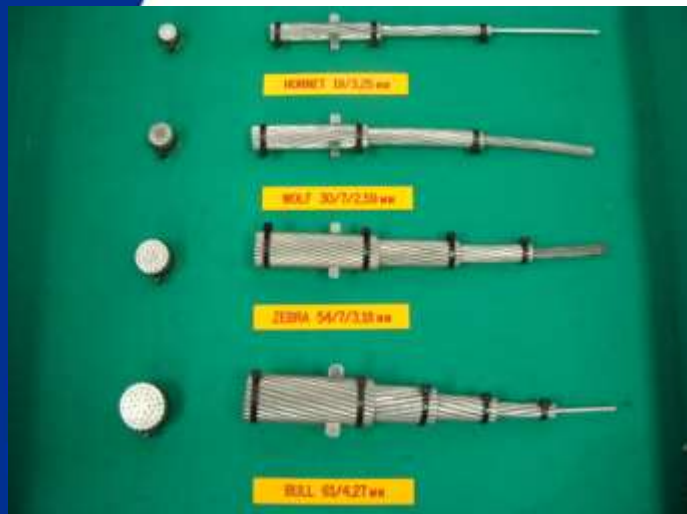
Angola

DRC

Technology solutions

ALUMINIUM CONDUCTOR IDENTIFICATION MARK

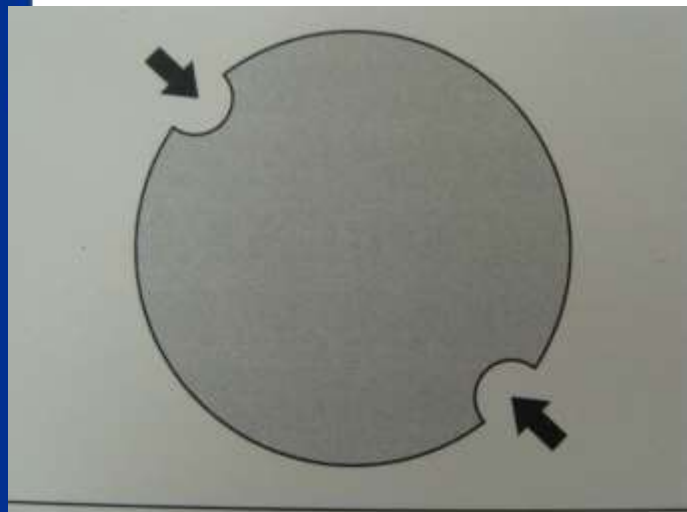
DSC05765



DSC01410



This is aluminium conductor. Below is the unique marking found on Eskom aluminium conductor – to the naked eye it simply looks as if the conductor is scratched.



DSC05742



DSC02282

unique identifier

CABLE MARKING SOLUTIONS



D1 = Diameter over bedding sheath
d = Diameter of armour wire
D2 = Diameter over outer sheath



www.aberdare.co.za



DSC01414

This diagram depicts 4-core copper cable. This cable varies in diameter from 1.5mm up to as much as 400mm. This is an insulated cable – covered with a PVC coating – and can be re-enforced with armour wiring, composed of either steel wire or aluminium wire, to make it stronger. There are four strands / cores, individually insulated, within the outer sheath.

STEEL PYLONS

Personnel replacing normal bolts on pylons with anti-theft bolts.



STEEL PYLONS

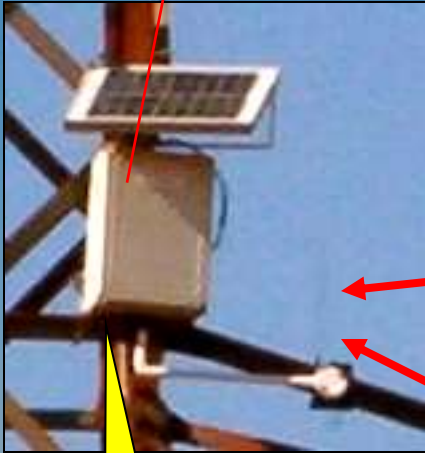
Marking of installed support lattices on frequently targeted lines.



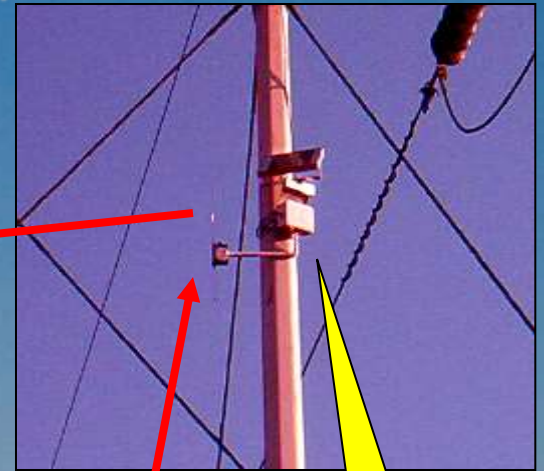
MONITORING OF HOTSPOTS

(Ongoing Research)

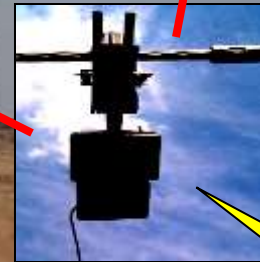
REACTION UNIT
TO RESPOND



ALARM UNIT



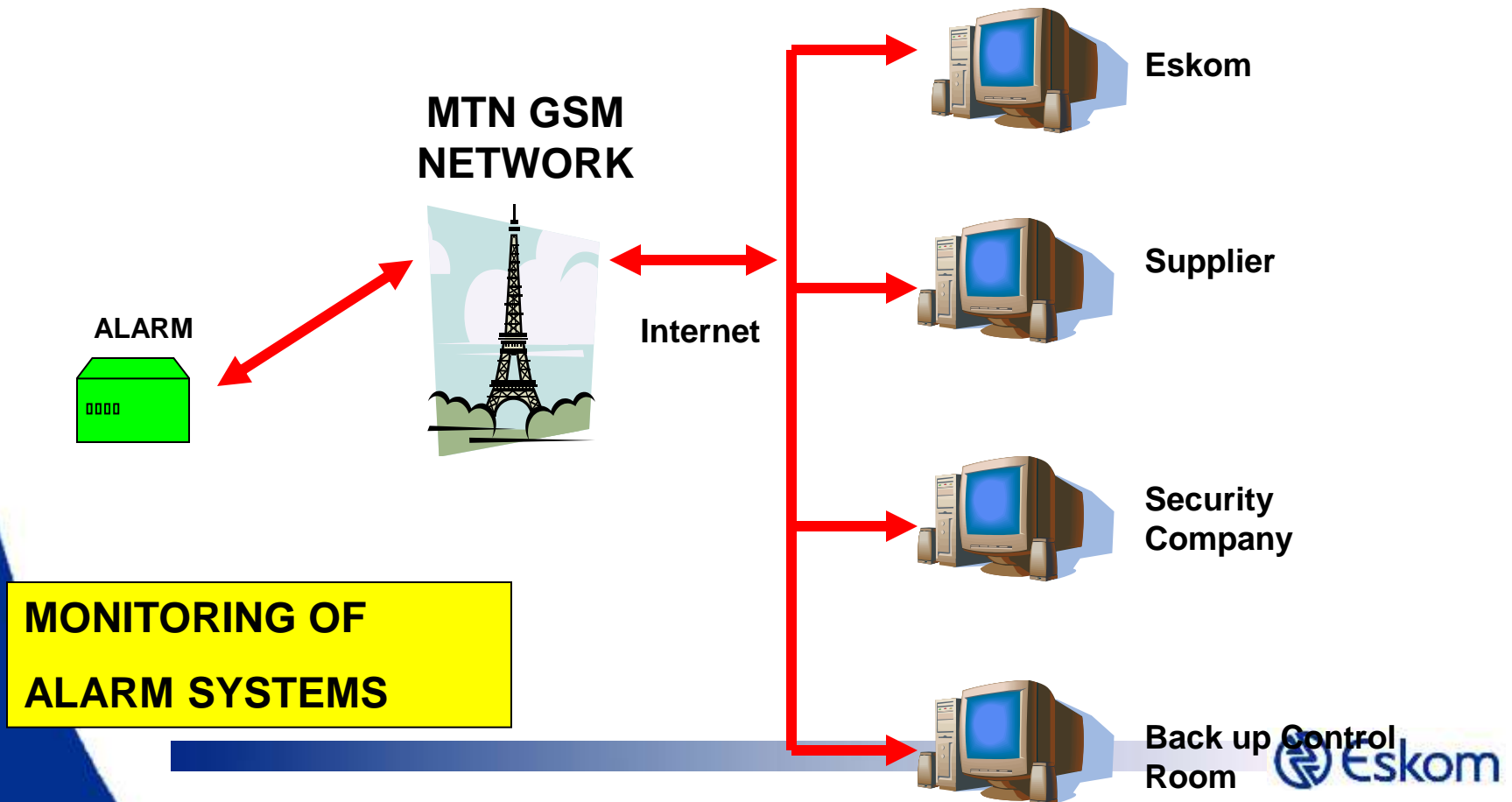
REPEATER



TILT SENSOR

MONITORING OF HOTSPOTS

GPRS is real data “Live all the Time” data across the GSM data network



Installation

INSTALLATION IS DONE UNDER LIVE CONDITIONS



CONCLUSION

Theft of network equipment is a reality in Africa and much more than subsistence thieving. The focus should be to continuously address all aspects of the phenomenon aggressively and keep updating the implemented pro-active and reactive measures through strategic thinking. It is essential that all possible expertise be utilized to prevent a serious negative impact on the economy at large as well as on essential services to the public of South Africa.

THANK YOU