



# Quality of Service Report

Ga- Mafefe, Lepelle-Nkumpi Local Municipality

Presented by:

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# Introduction

- Independent Communications Authority of South Africa has a critical mandate to protect the interest of electronics communications services consumers as stated in the ECA and ICASA ACT.
- Consumer Affairs Division is responsible for consumer advocacy including Quality of Service (QoS) monitoring in the public interest.
- Engineering and Technology Division is responsible for Technical Measurement of QoS through the country.



# Introduction Cont.



ICASA protect the interest of consumers by ensuring that:

- Operators delivering good quality services
- Consumers have access to ICT services
- Consumers are informed and educated their rights to access quality ICT services.



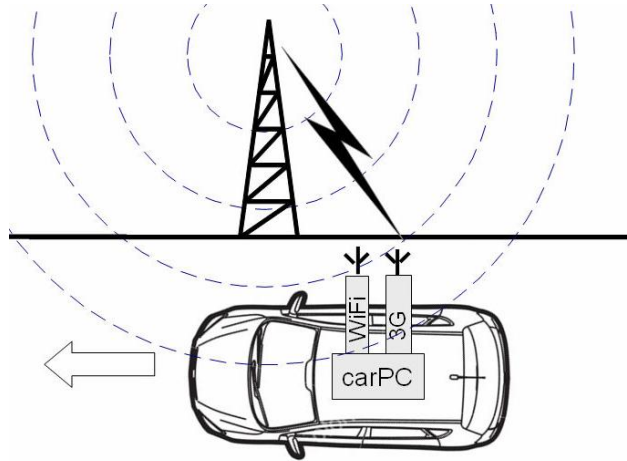


# Ga-Mafefe





# Methodology (Drive Test)

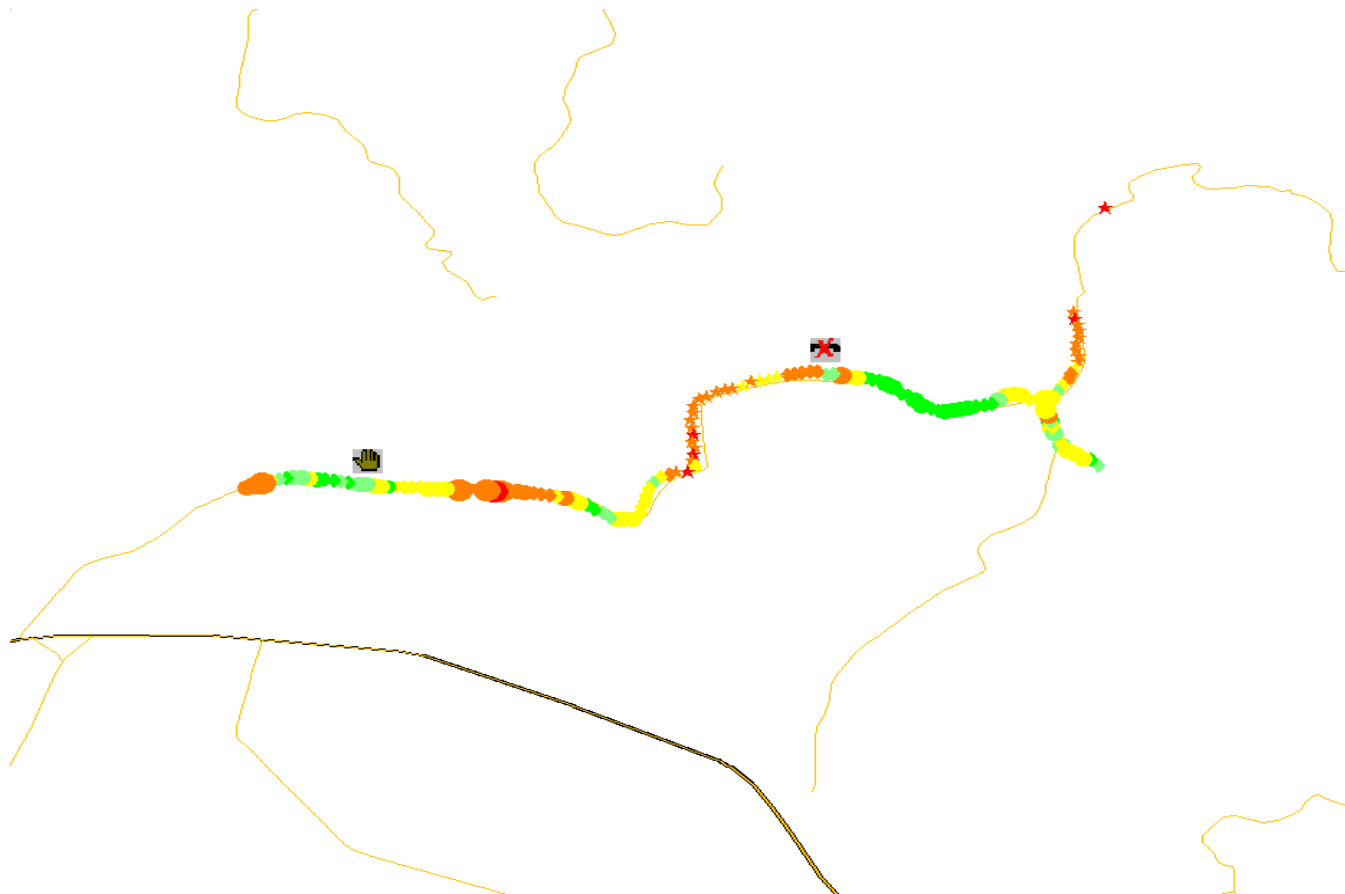


Dates	Time	Focus Area
02/08/2012	09: 00 -14 :30	Ga-Mafefe: Mampa





# Mobile Services (Vodacom)



MS2 - RxLev Sub (dBm) - RxQual Sub - Mode (Num)

Color - RxLev Sub (dBm)

-120.00 - -100.00  
-100.00 - -90.00  
-90.00 - -80.00  
-80.00 - -70.00  
-70.00 - -10.00

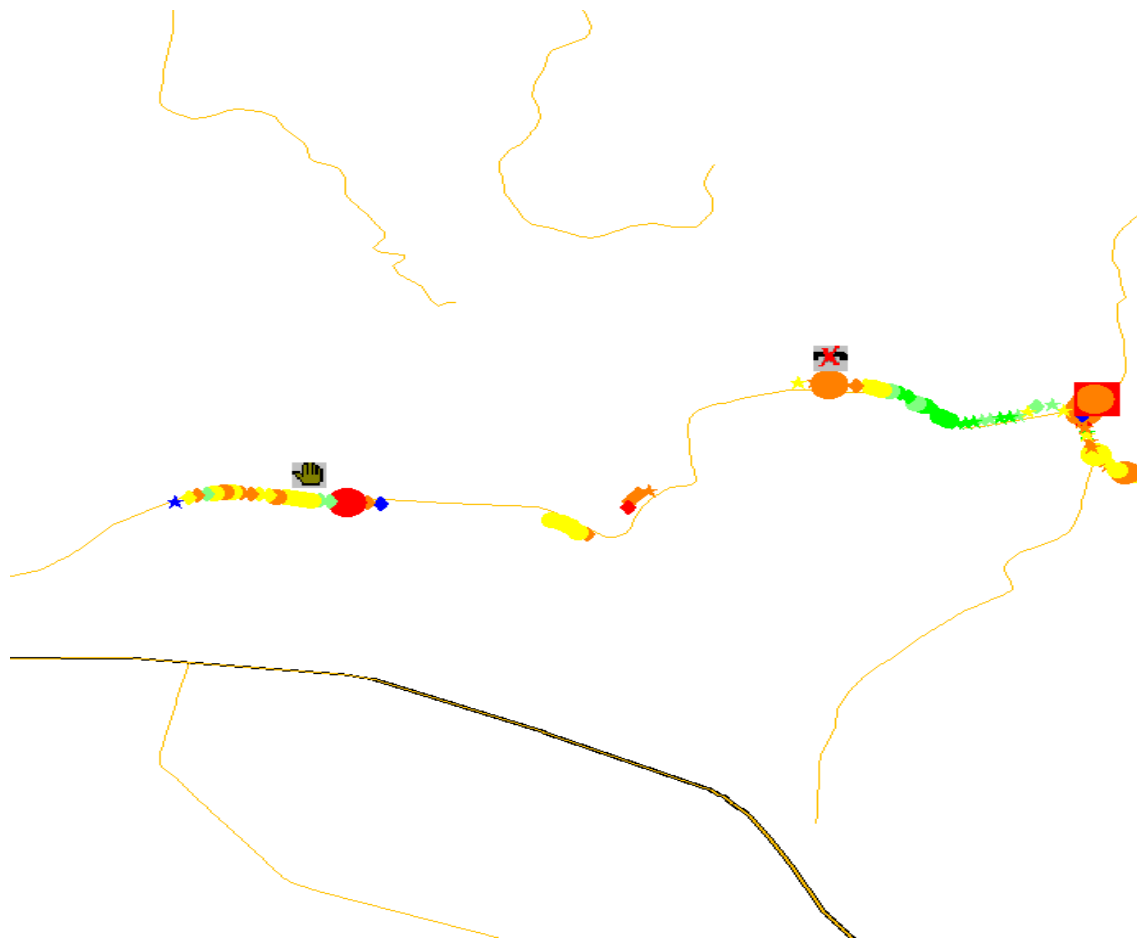


Element	Full	Sub
Mode (System)	GSM	
RxLev	-94	-94
RxQual		
FER		
Cell Name		
BER Actual		
FER Actual		
SQI MOS		
C/I Worst/Best[0]		
MS Power Control Level		
DTX		
TA		
RL Timeout Counter(Cur)		
RL Timeout Counter(Max)		
MS Behavior Modified		

Element	Value
Time	13:51:54.359
Cell Name	
CGI (MCC, MNC, LAC, CI)	655 01 822 55811
Cell GPRS Support	YES
Band	900P
BCCH ARFCN	46
TCH ARFCN	
BSIC	5-3
Mode	Idle
Time Slot	
Channel Type	BCCH
Channel Mode	
Speech Codec	
Ciphering Algorithm	
Sub Channel Number	
Hopping Channel	
Hopping Frequencies	
Mobile Allocation Index Offset(MAIO)	
Hopping Sequence Number (HSN)	



# Mobile Services (Cell C)



MS2 - RxLev Sub (dBm) - RxQual Sub - Mode (Num)

Color - RxLev Sub (dBm)

-120.00 - -100.00  
-100.00 - -90.00  
-90.00 - -80.00  
-80.00 - -70.00  
-70.00 - -10.00



3-4	53	-96
3-4	53	-97
	46	02
	48	02
	31	03
	52	03
	55	03
	44	04

GSM Radio Parameters [MS1]		
Element	Full	Sub
Mode (System)	GSM	
RxLev	-96	-96
RxQual	18.10	18.10
FER		
Cell Name		
BER Actual		
FER Actual		
SQI MOS		
C/I Worst/Best[0]		
MS Power Control Level	0	
DTX		
TA	3	
RL Timeout Counter(Cur)	15	
RL Timeout Counter(Max)	16	
MS Behavior Modified		

GSM Current Channel [MS1]	
Element	Value
Time	12:52:16.937
Cell Name	
CGI (MCC, MNC, LAC, CI)	655 01 822 50810
Cell GPRS Support	YES
Band	900P
BCCH ARFCN	53
TCH ARFCN	53
BSIC	3-4
Mode	Dedicated
Time Slot	1
Channel Type	SDCCH/8 + SACCH/C8
Channel Mode	Signalling only
Speech Codec	
Ciphering Algorithm	
Sub Channel Number	0
Hopping Channel	NO
Hopping Frequencies	
Mobile Allocation Index Offset(MAIO)	
Hopping Sequence Number (HSN)	



# New Cell C Site







# New Cell C Site



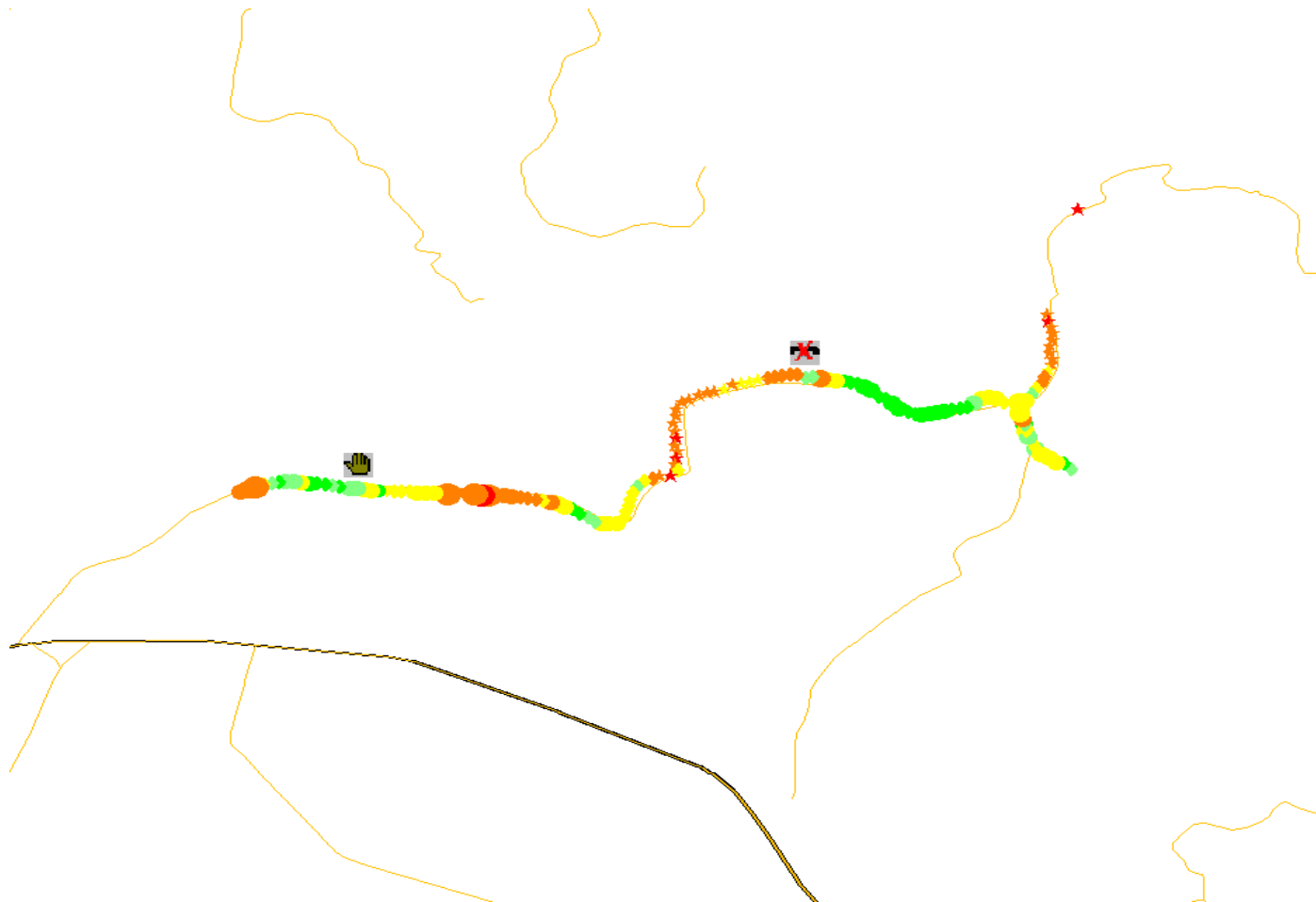


# New Cell C Site





# Mobile Services (Vodacom)



MS2 - RxLev Sub (dBm) - RxQual Sub - Mode (Num)

Color - RxLev Sub (dBm)

-120.00 - -100.00

-100.00 - -90.00

-90.00 - -80.00

-80.00 - -70.00

-70.00 - -10.00



5-3	46	-94
5-3	46	-93
4-0	48	-98
1-3	38	-102
1-5	44	-103
	40	-105
7-6	55	-105
	29	nc

Element	Full	Sub
Mode (System)	GSM	
RxLev	-94	-94
RxQual		
FER		
Cell Name		
BER Actual		
FER Actual		
SQI MOS		
C/I Worst/Best[0]		
MS Power Control Level		
DTX		
TA		
RL Timeout Counter(Cur)		
RL Timeout Counter(Max)		
MS Behavior Modified		

Element	Value
Time	13:51:54.359
Cell Name	
CGI (MCC, MNC, LAC, CI)	655 01 822 55811
Cell GPRS Support	YES
Band	900P
BCCH ARFCN	46
TCH ARFCN	
BSIC	5-3
Mode	Idle
Time Slot	
Channel Type	BCCH
Channel Mode	
Speech Codec	
Ciphering Algorithm	
Sub Channel Number	
Hopping Channel	
Hopping Frequencies	
Mobile Allocation Index Offset(MAIO)	
Hopping Sequence Number (HSN)	



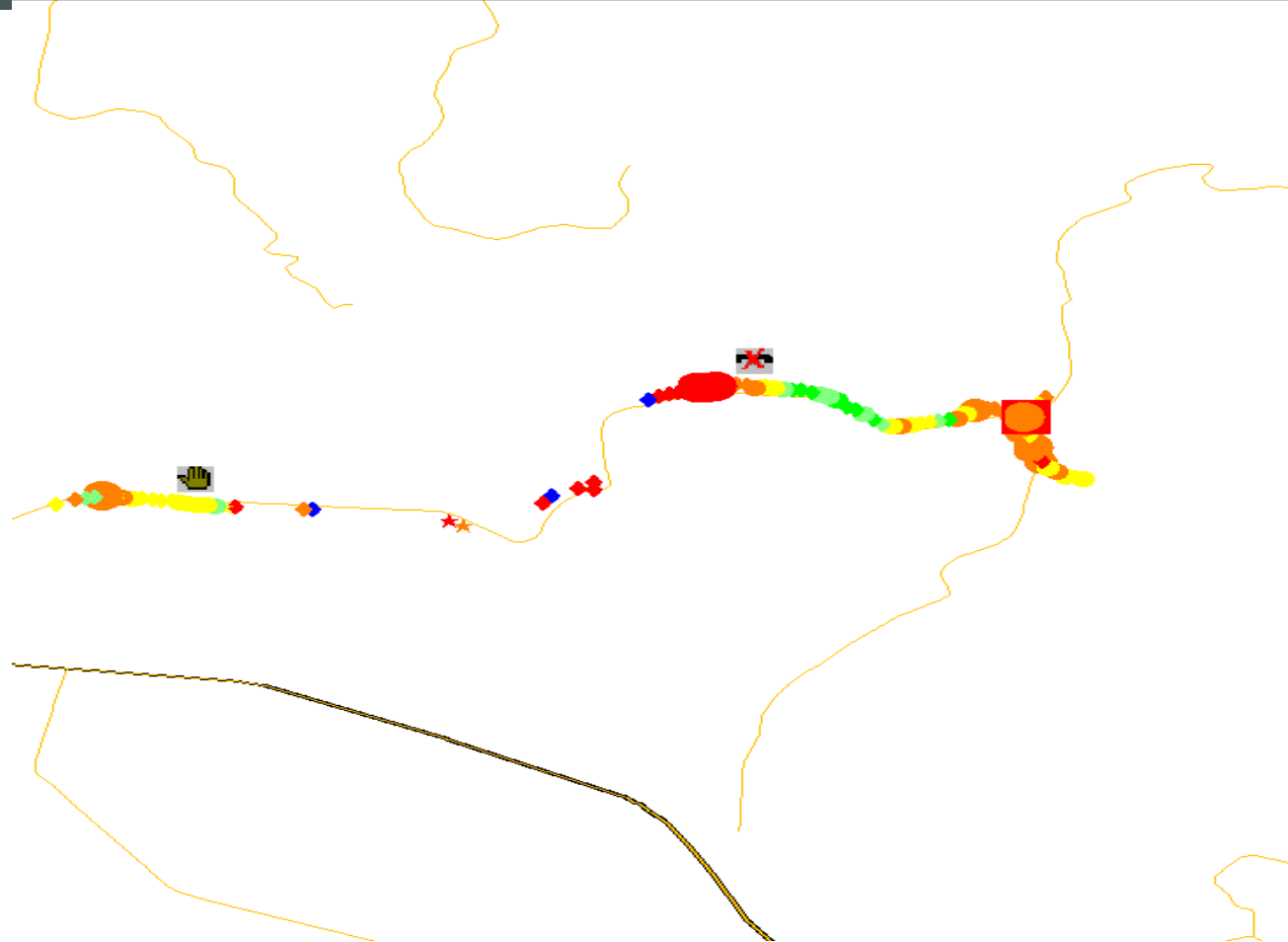


# Vodacom Mobile unit





# Mobile Services (MTN)



MS2 - RxLev Sub (dBm) - RxQual Sub - Mode (Num)

Color - RxLev Sub (dBm)

-120.00 - -100.00  
-100.00 - -90.00  
-90.00 - -80.00  
-80.00 - -70.00  
-70.00 - -10.00



Cell Name	5-4	91	00
		95	04
		85	05
		89	05
		100	07

GSM Radio Parameters [MS3]		
Element	Full	Sub
Mode (System)	GSM	
RxLev	-98	-100
RxQual	9.05	18.10
FER	35	
Cell Name		
BER Actual	14.60	
FER Actual	33	
SQI MOS	2.65	
C/I Worst/Best[0]	8.40	9.90
MS Power Control Level	5	
DTX		
TA	63	
RL Timeout Counter(Cur)		
RL Timeout Counter(Max)		
MS Behavior Modified		

GSM Current Channel [MS3]	
Element	Value
Time	12:53:06.562
Cell Name	
CGI (MCC, MNC, LAC, CI)	655 10 20822 29421
Cell GPRS Support	
Band	900P
BCCH ARFCN	91
TCH ARFCN	
BSIC	5-4
Mode	Dedicated
Time Slot	5
Channel Type	TCH/H + ACCHs
Channel Mode	Speech full rate or half rate
Speech Codec	AMR Half Rate
Ciphering Algorithm	Cipher with algorithm A5/2
Sub Channel Number	0
Hopping Channel	YES
Hopping Frequencies	h: 58 61 121
Mobile Allocation Index Offset(MAIO)	0
Hopping Sequence Number (HSN)	0





# Television Services







# Radio Services

- Thobela FM
- No - SA FM, METRO, CAPRICORN- Catch the signal via the Satellite.





# Fixed Line Services

- No PST
- No Maintenance of Telkom Lines







# Internet Services

- No Internet, No Fax, No PST
- No Postbank , No real time communications







# General

- Basic communications services are on a minimal level at Mafefe
- Mafefe community were not able to watch FIFA 2010 Soccer World Cup
- Mafefe community are not able to watch the London 2012 Olympic Games



**THANK  
YOU**