



Road Network Condition and MTF Budget



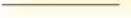
Provincial and National

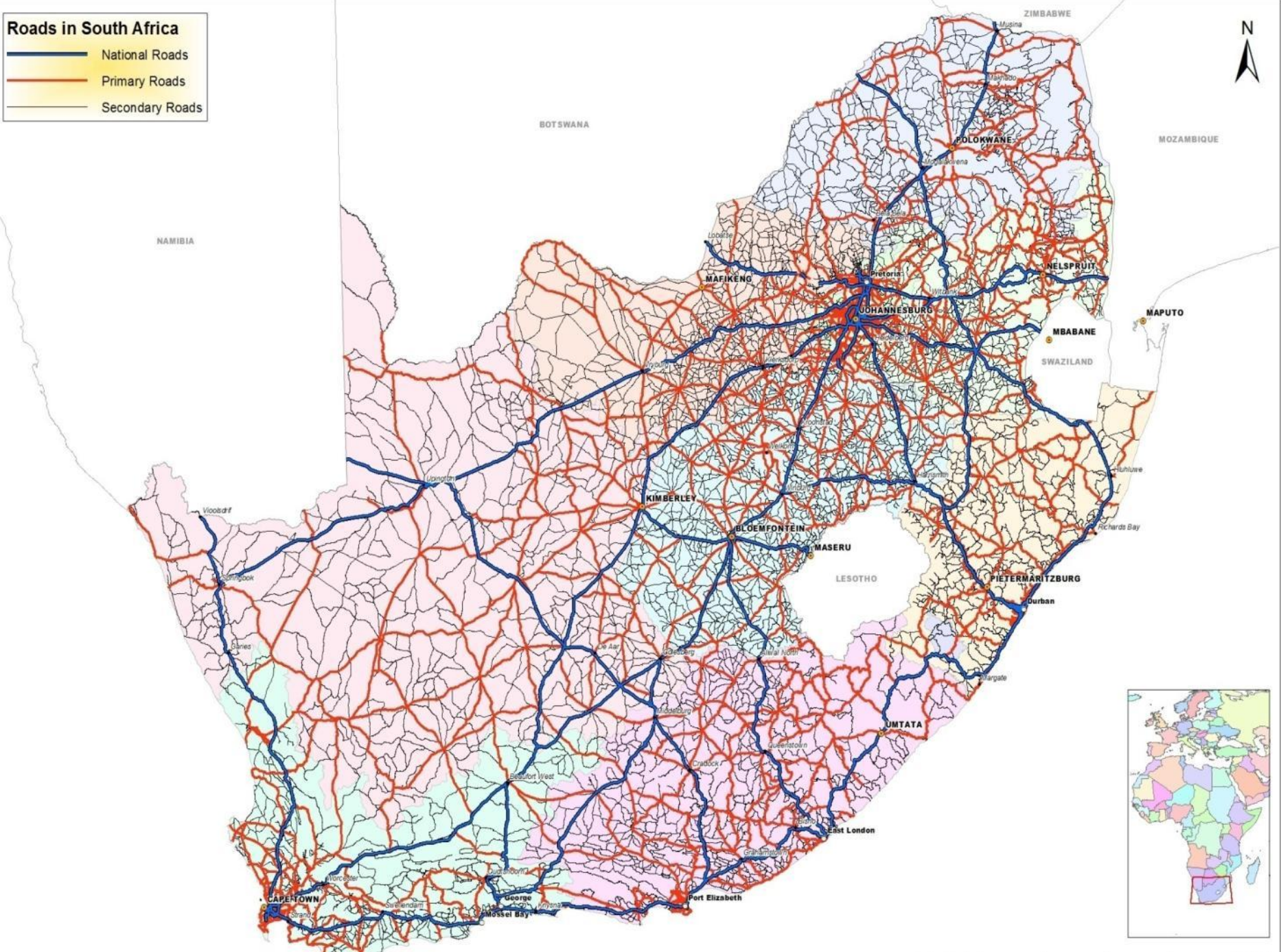
27th RPF Meeting

20 May 2014

L Kannemeyer

Roads in South Africa

-  National Roads
-  Primary Roads
-  Secondary Roads



0 50 100 200 300 400 500 Kilometers

South African Road Network - 2013

Authority	Paved	Gravel	Total
SANRAL	19,704	0	19,704
Provinces - 9	49,047	226,273	275,320
Metros - 8	51,682	14,461	66,143
Municipalities	37,691	219,223	256,914
Total	158,124	459,957	618,081
Un-Proclaimed (Estimate)		131,919	131,919
Estimated Total	158,124	591,876	750,000






















Un-Proclaimed Roads = Public roads not formally gazetted by any Authority



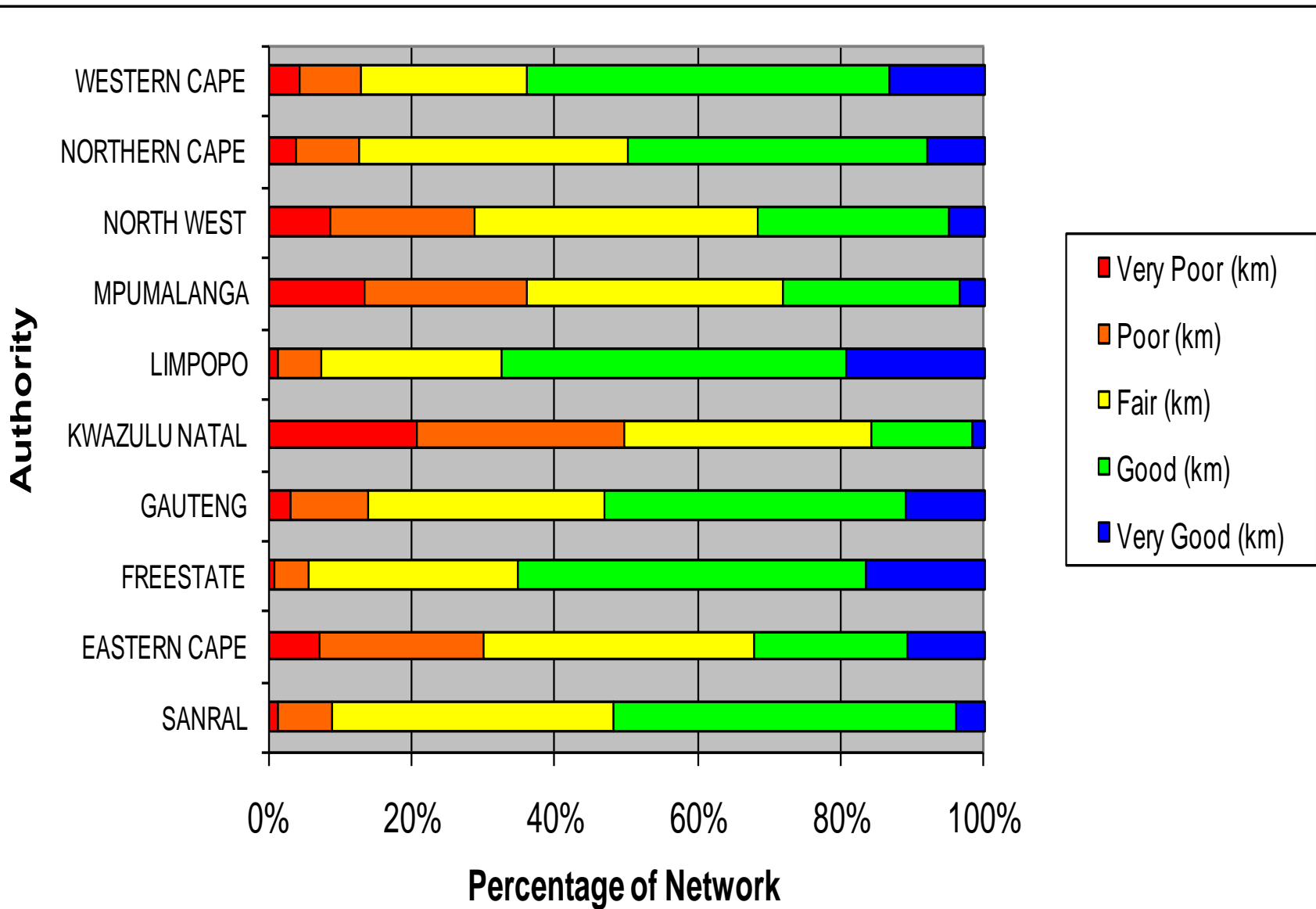
**South Africa has the 10th
Longest Total and 18th
Longest Paved Road
Network in the World**

**Roads Represents one of
the largest public
infrastructure
investments in most
countries**

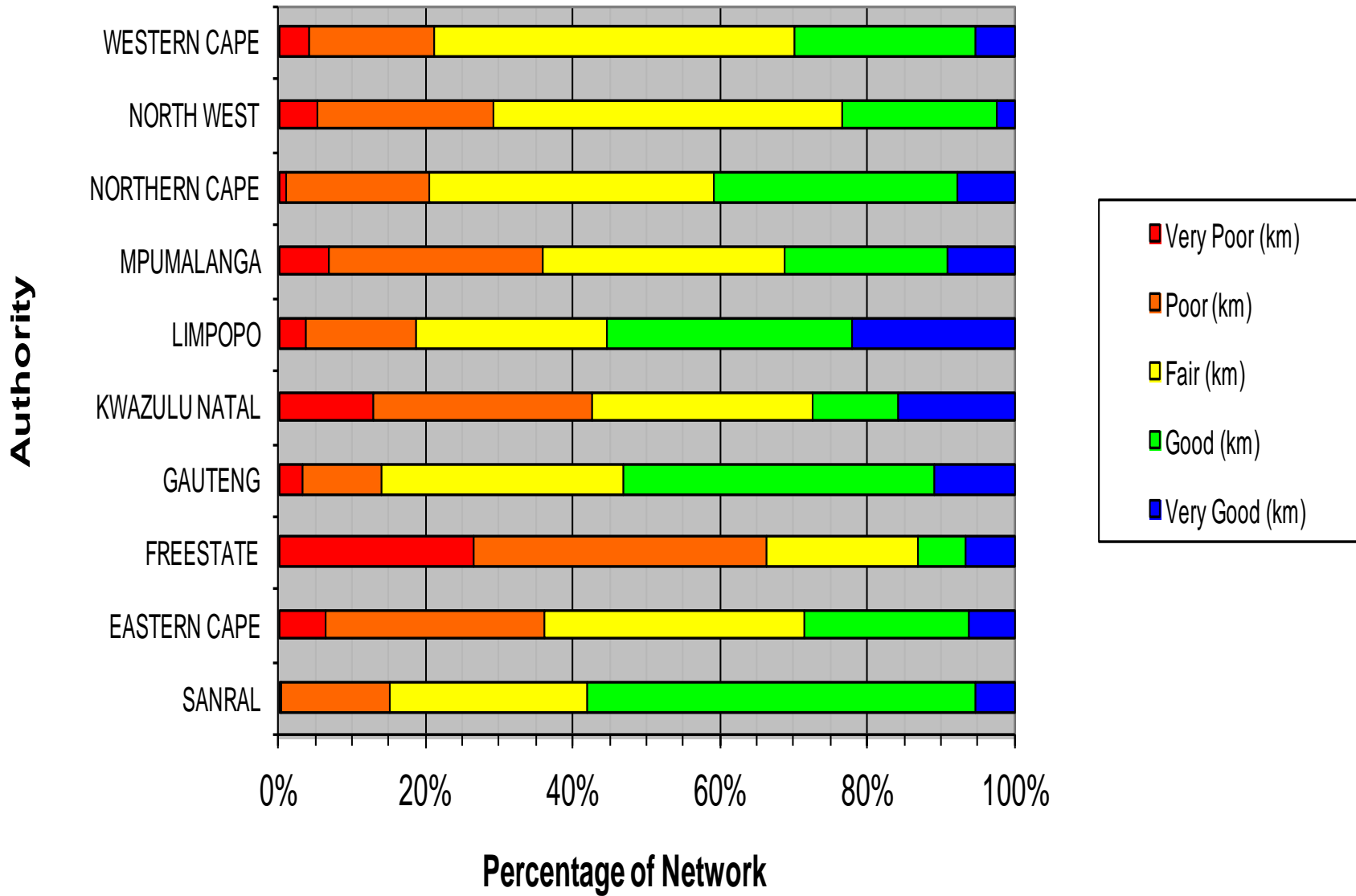
**RSA Road Replacement
Cost
>R2 Trillion**

Rank	Country	Road length (km)
	<i>World</i>	64 285 009
1	 United States	6 586 610
2	 India	4 689 842
3	 China	4 237 500
4	 Brazil	1 751 868
5	 Japan	1 210 251
6	 Canada	1 042 300
7	 Russia	982 000
8	 France	951 200
9	 Australia	823 217
10	 South Africa	750 000
11	 Spain	681 298
12	 Germany	644 480
13	 Sweden	572 900
14	 Italy	487 700
15	 Indonesia	437 759
16	 Turkey	426 906
...
34	 Dem Rep of Congo	153 497
45	 Zimbabwe	97 267
54	 Zambia	91 440
55	 Tanzania	91 049
70	 Madagascar	65 663
80	 Angola	51 429
72	 Namibia	64 189
98	 Mozambique	30 331
104	 Botswana	25 798
122	 Malawi	15 451
148	 Lesotho	7 438
161	 Swaziland	3 594
173	 Mauritius	2 066
193	 Seychelles	508
SADC Total		1 449 720

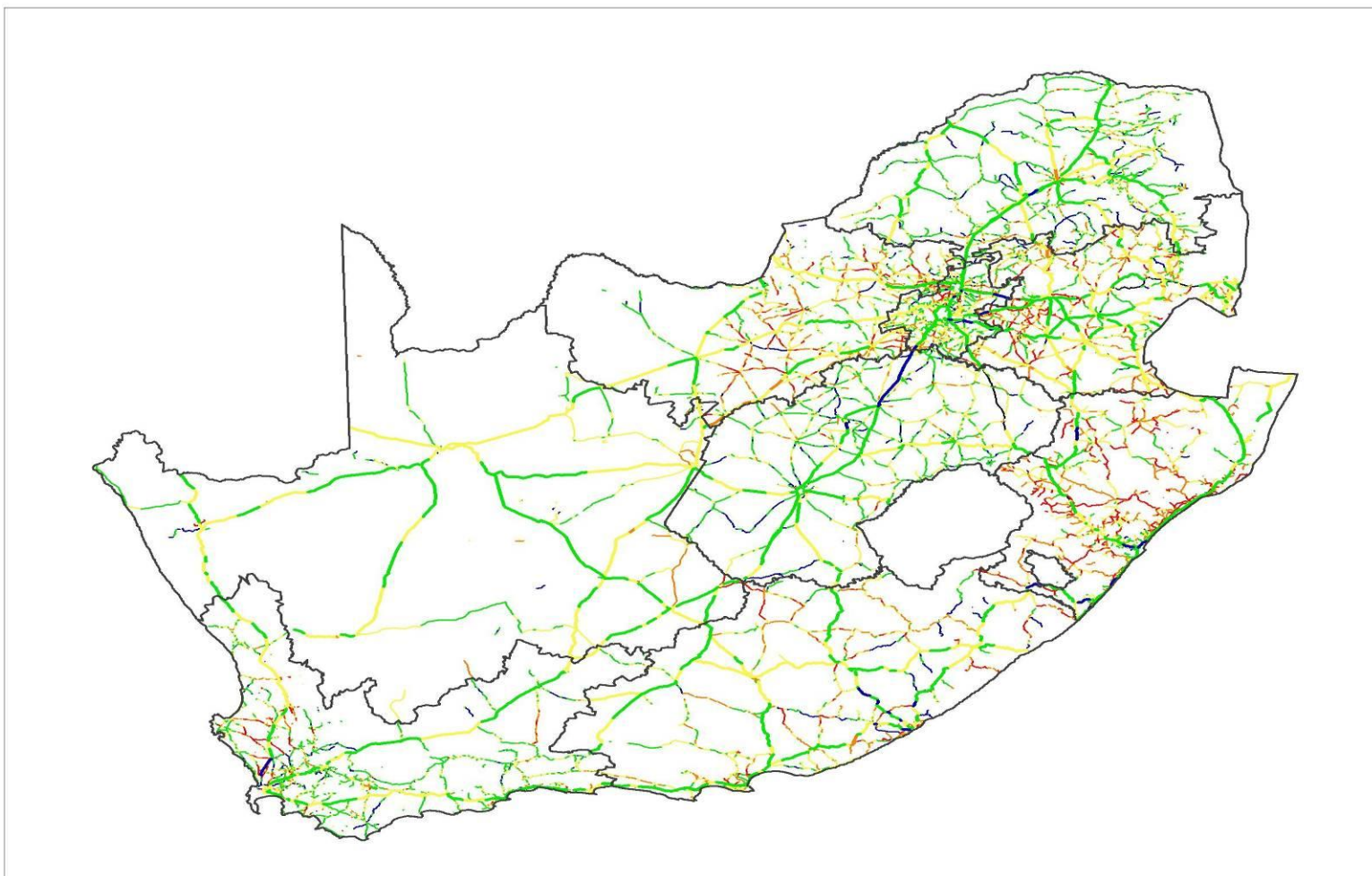
Paved Network Condition Summary 2009



Paved Network Condition Summary 2013

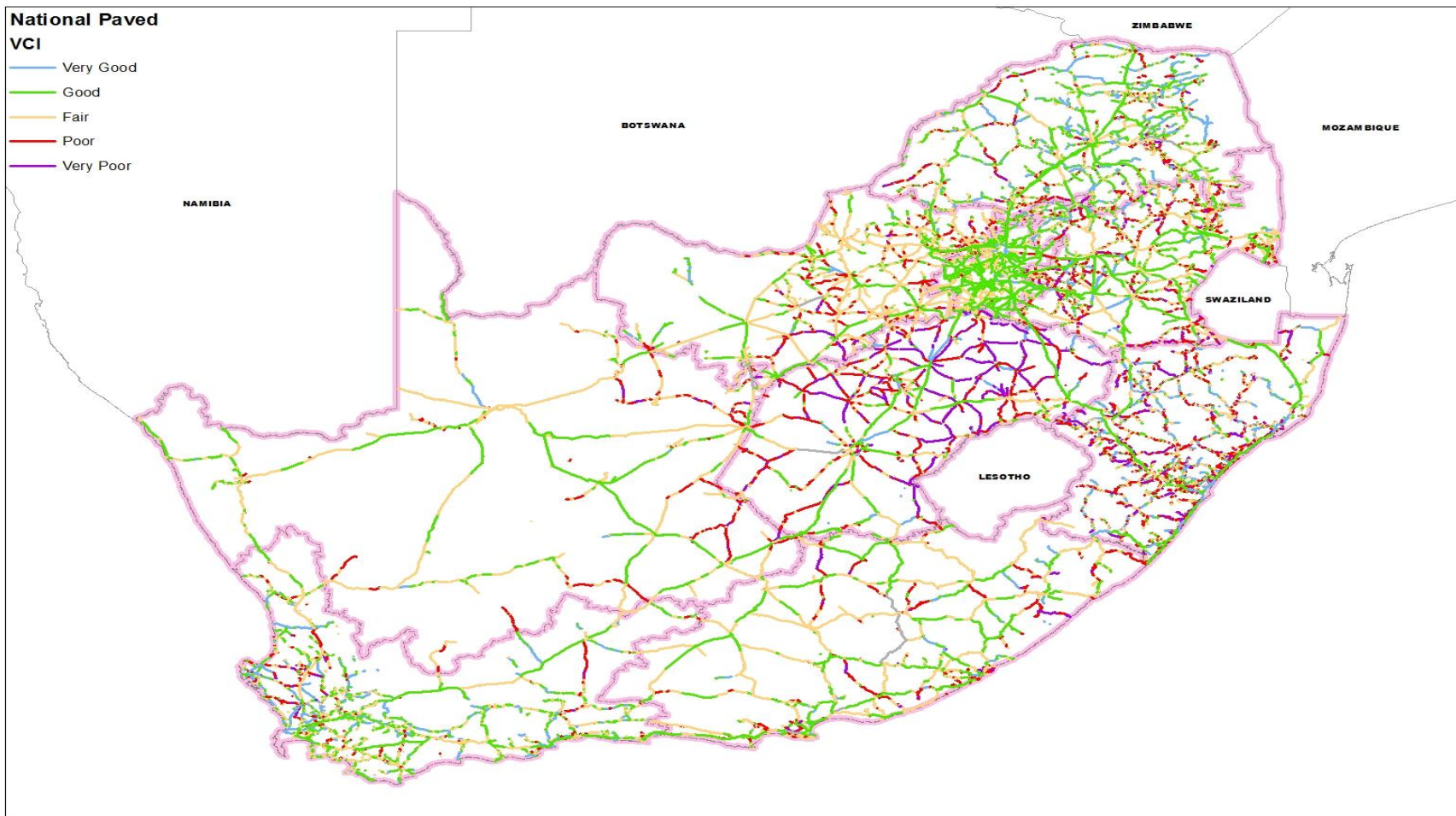


Paved – Provincial + SANRAL - 2009



Type	Year	V-Good	Good	Fair	Poor	V-Poor
Length	2004-08	5,303	24,220	21,570	8,399	3,766
%	2004-08	8.38%	38.29%	34.10%	13.28%	5.95%

Paved – Provincial + SANRAL - 2013

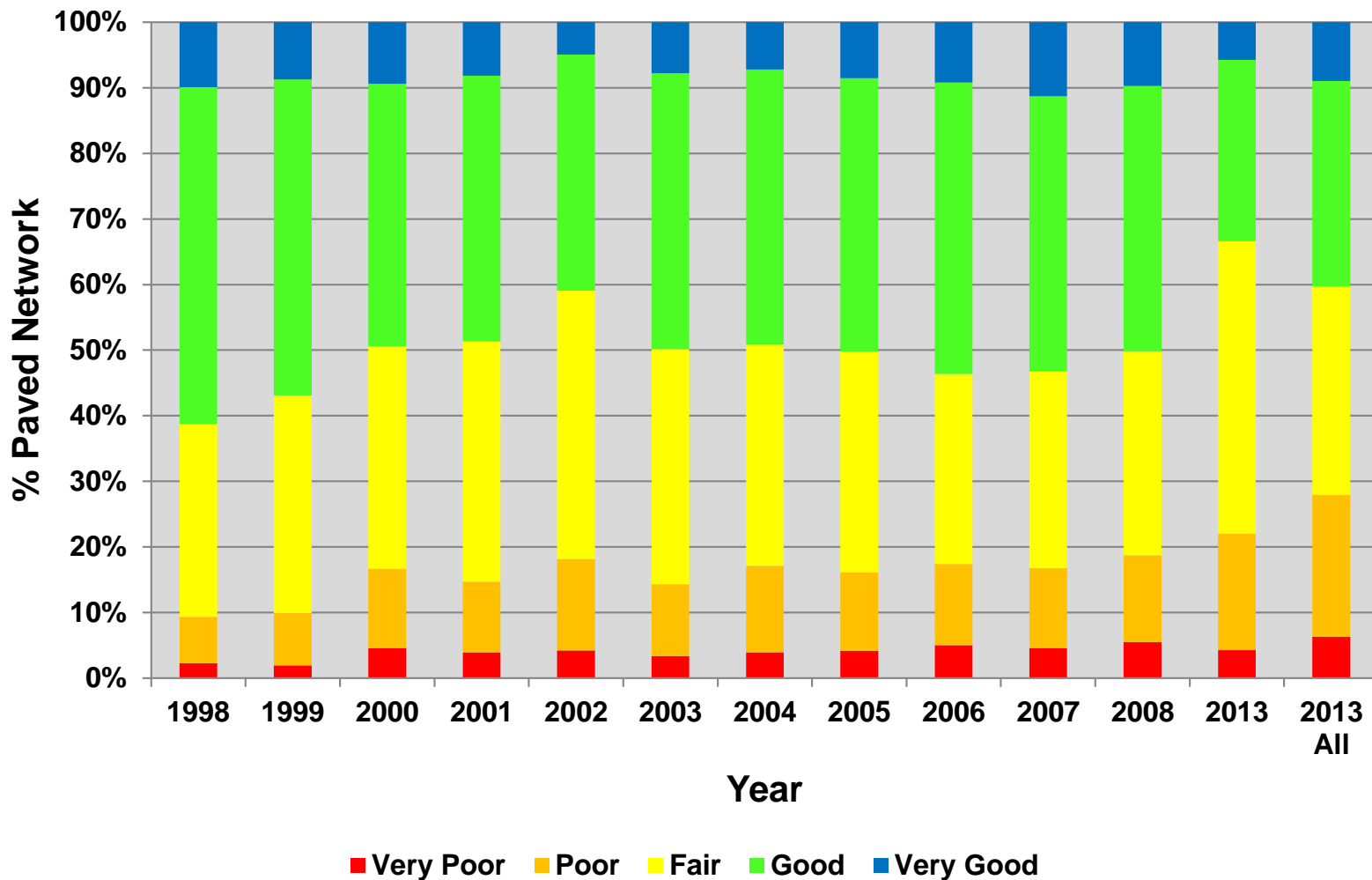


Type	Year	V-Good	Good	Fair	Poor	V-Poor
Length	2013	6,072	21,265	21,515	14,660	4,275
%	2013	8.96%	31.37%	31.74%	21.63%	6.31%

Paved Road Deterioration - Provincial

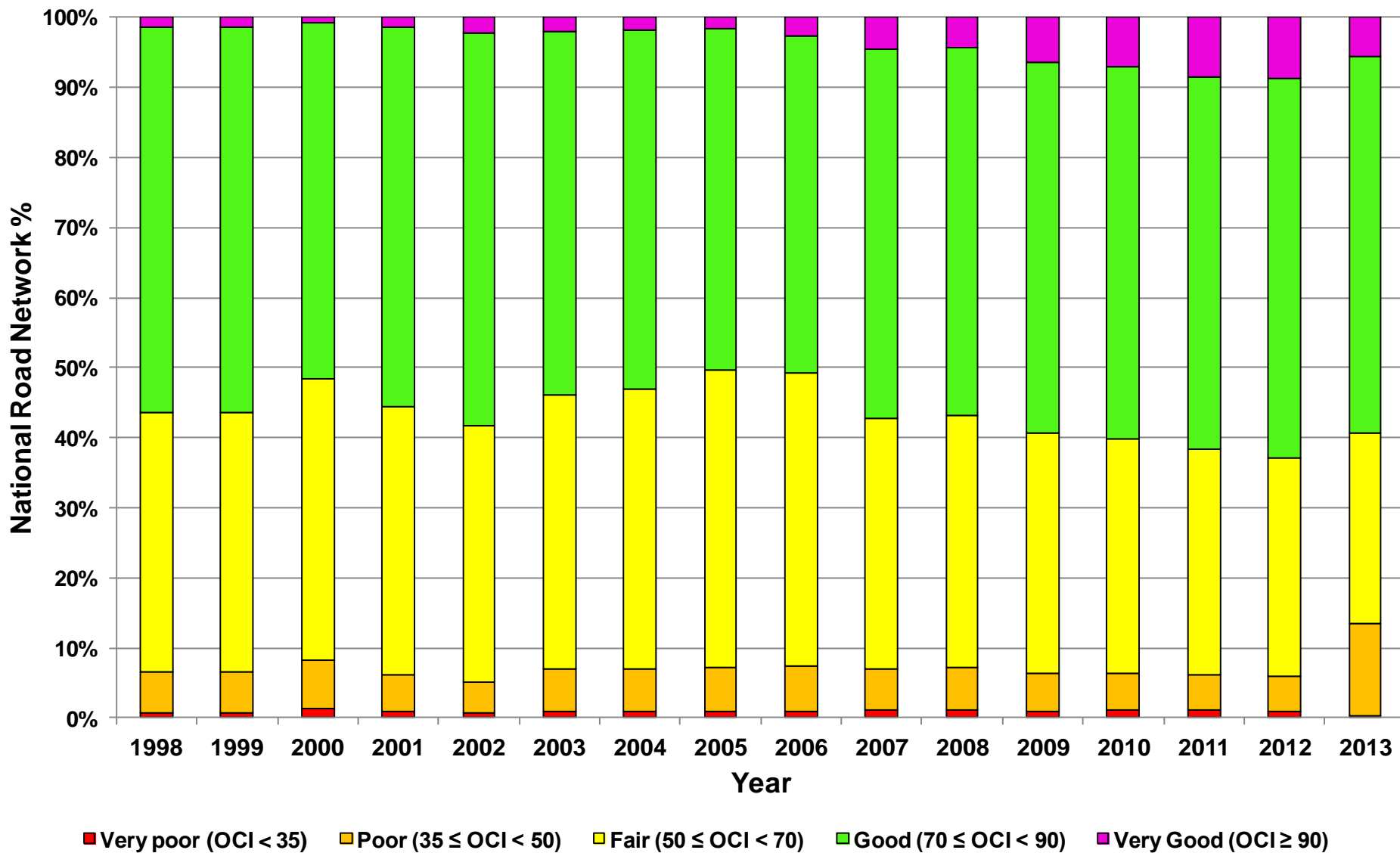


Paved Deterioration Trend - Gauteng/North West/Western Cape

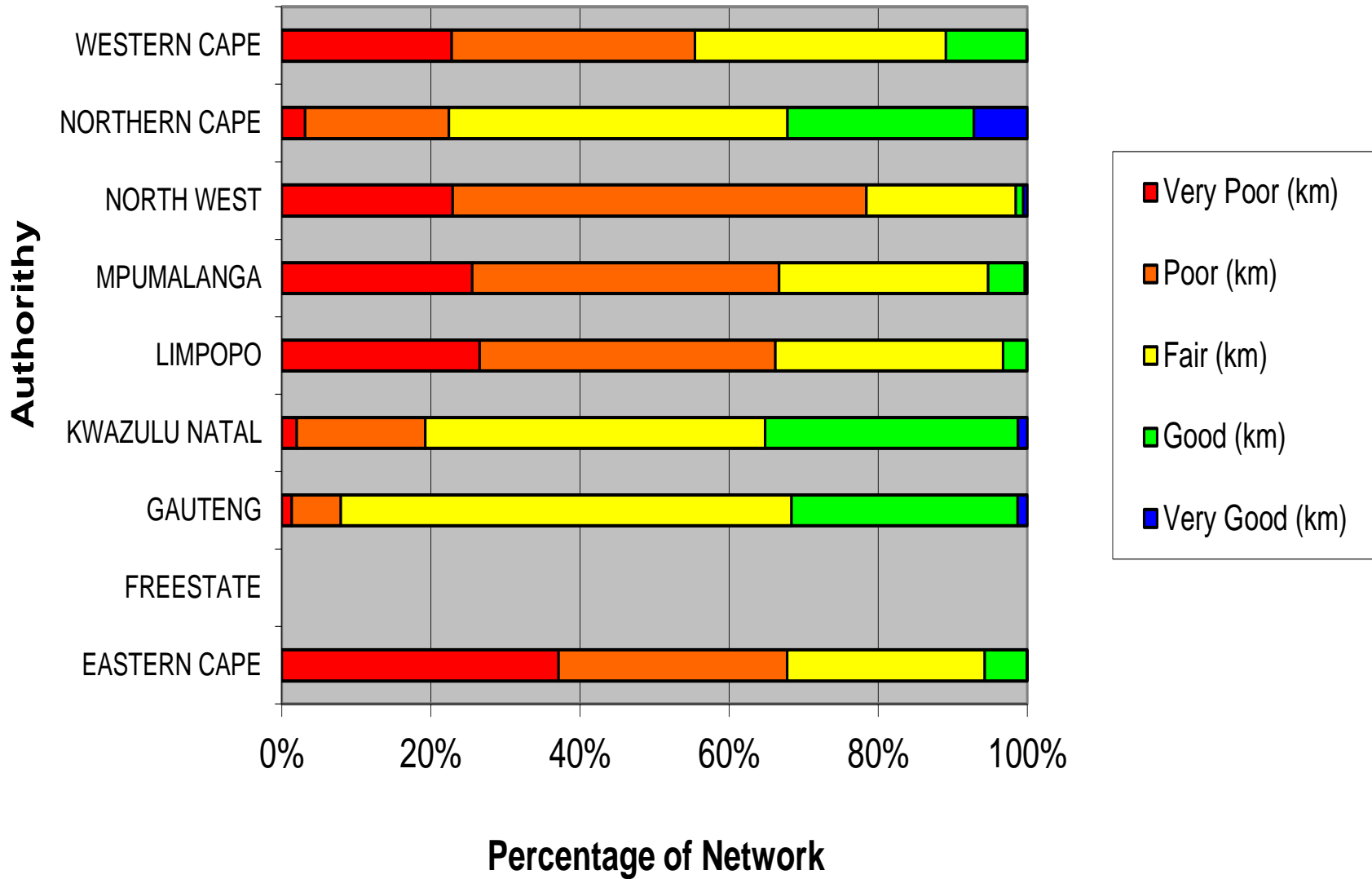


SANRAL Condition Trend

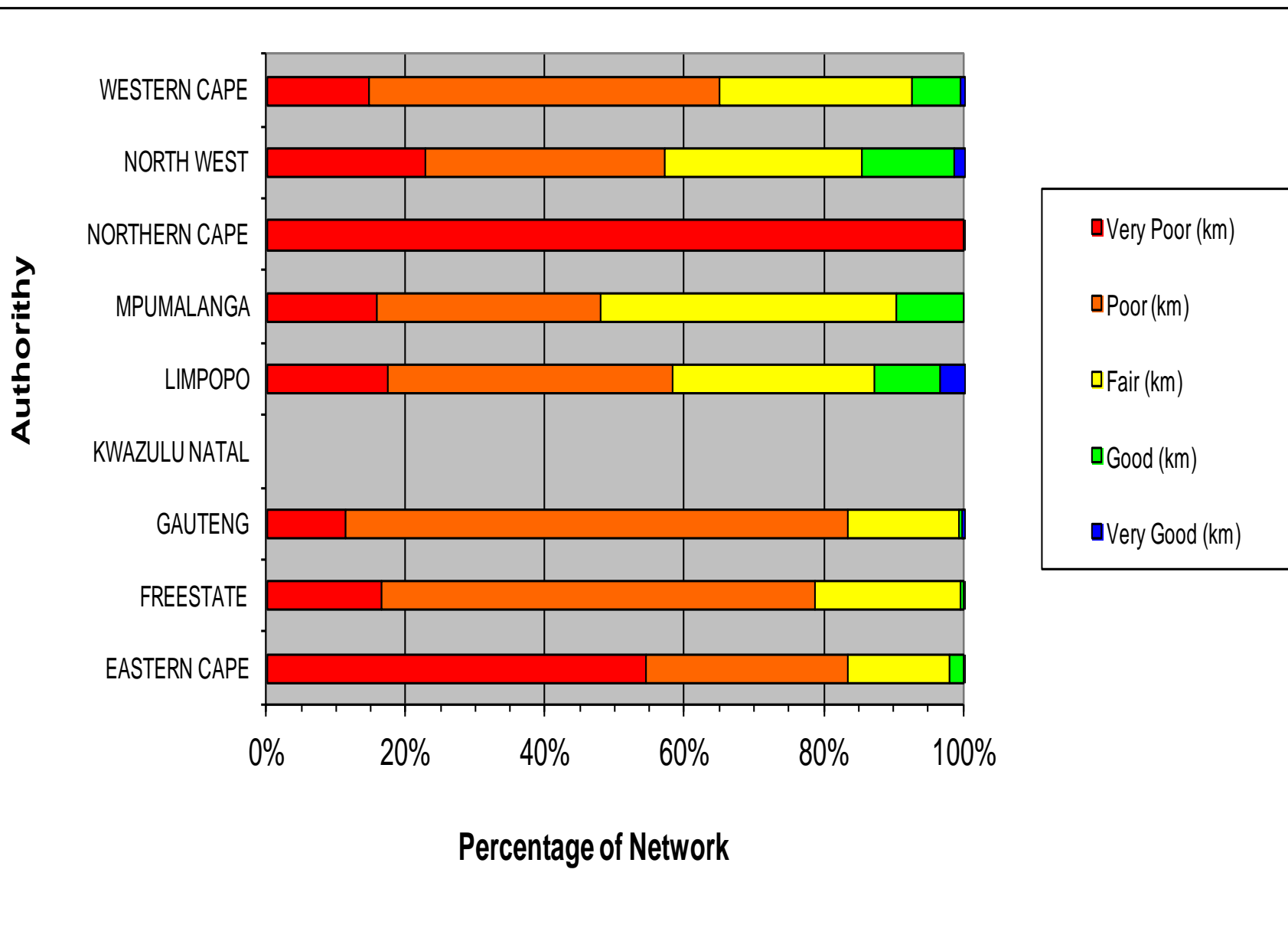
Overall Condition Trend



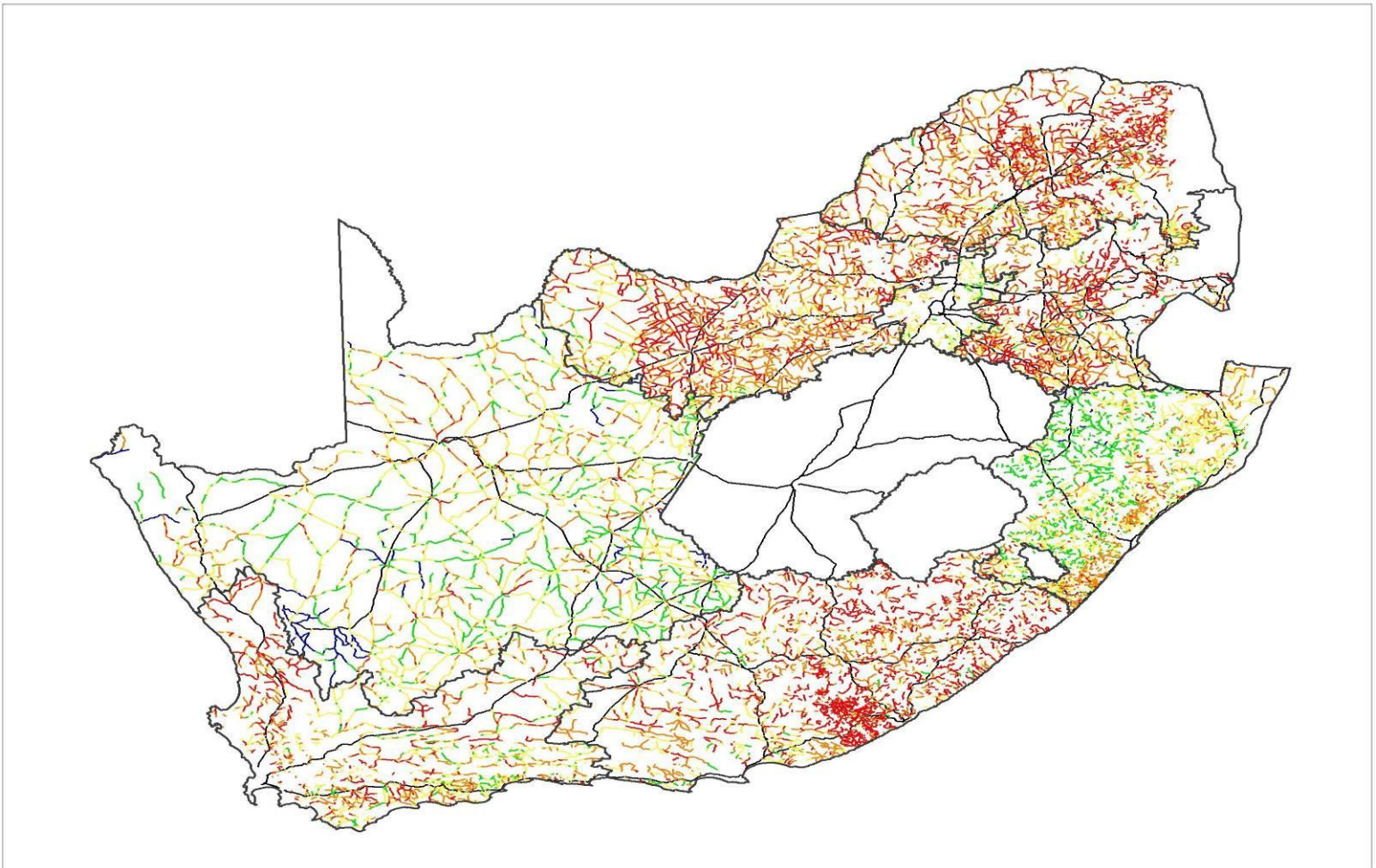
Gravel Network Condition Summary 2009



Gravel Network Condition Summary 2013

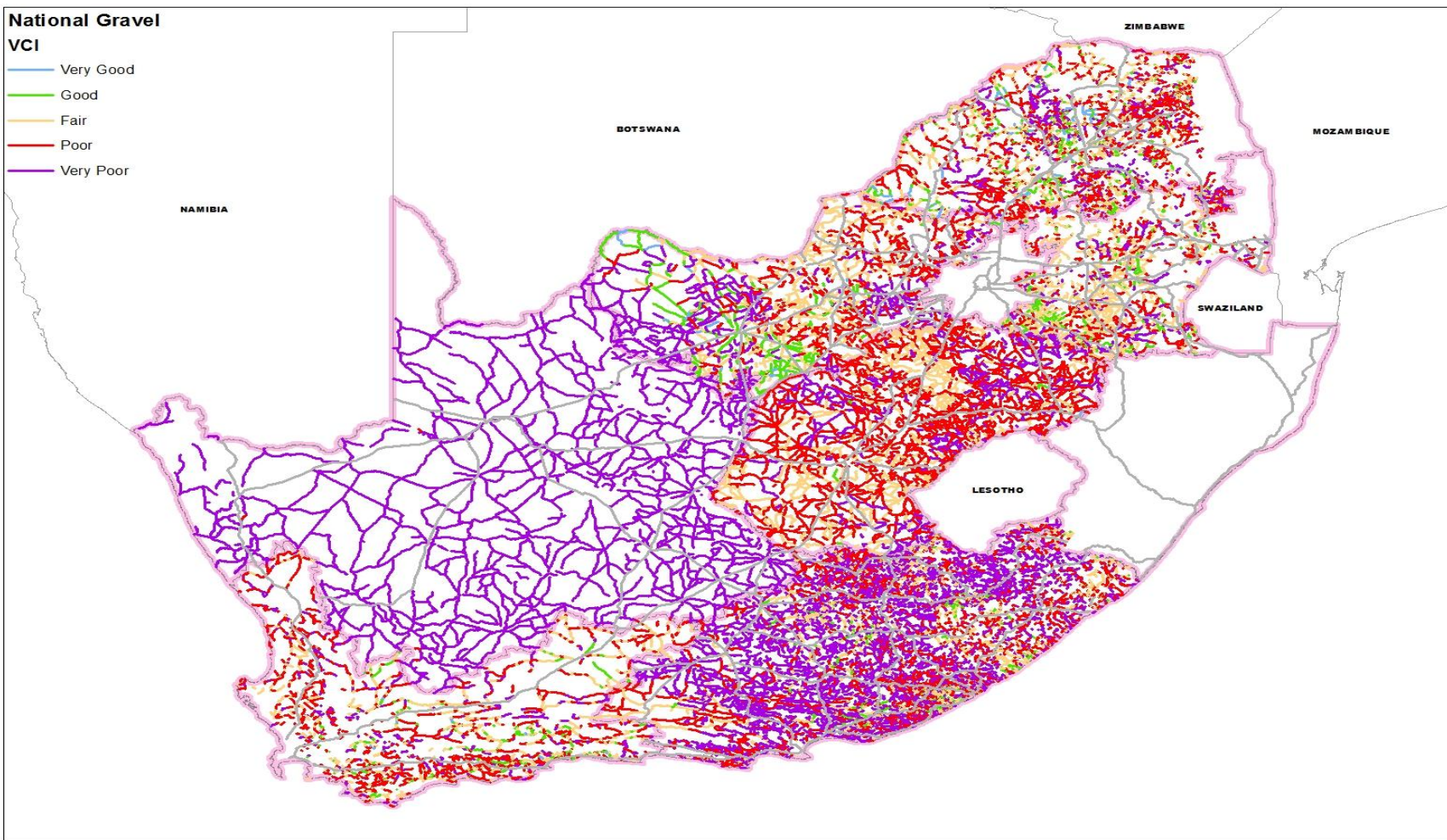


Gravel – Provincial 2009



Type	Year	V-Good	Good	Fair	Poor	V-Poor
Length	2004-08	1,981	13,863	35,344	33,219	19,327
%	2004-08	1.91%	13.36%	34.07%	32.02%	18.63%

Gravel – Provincial 2013

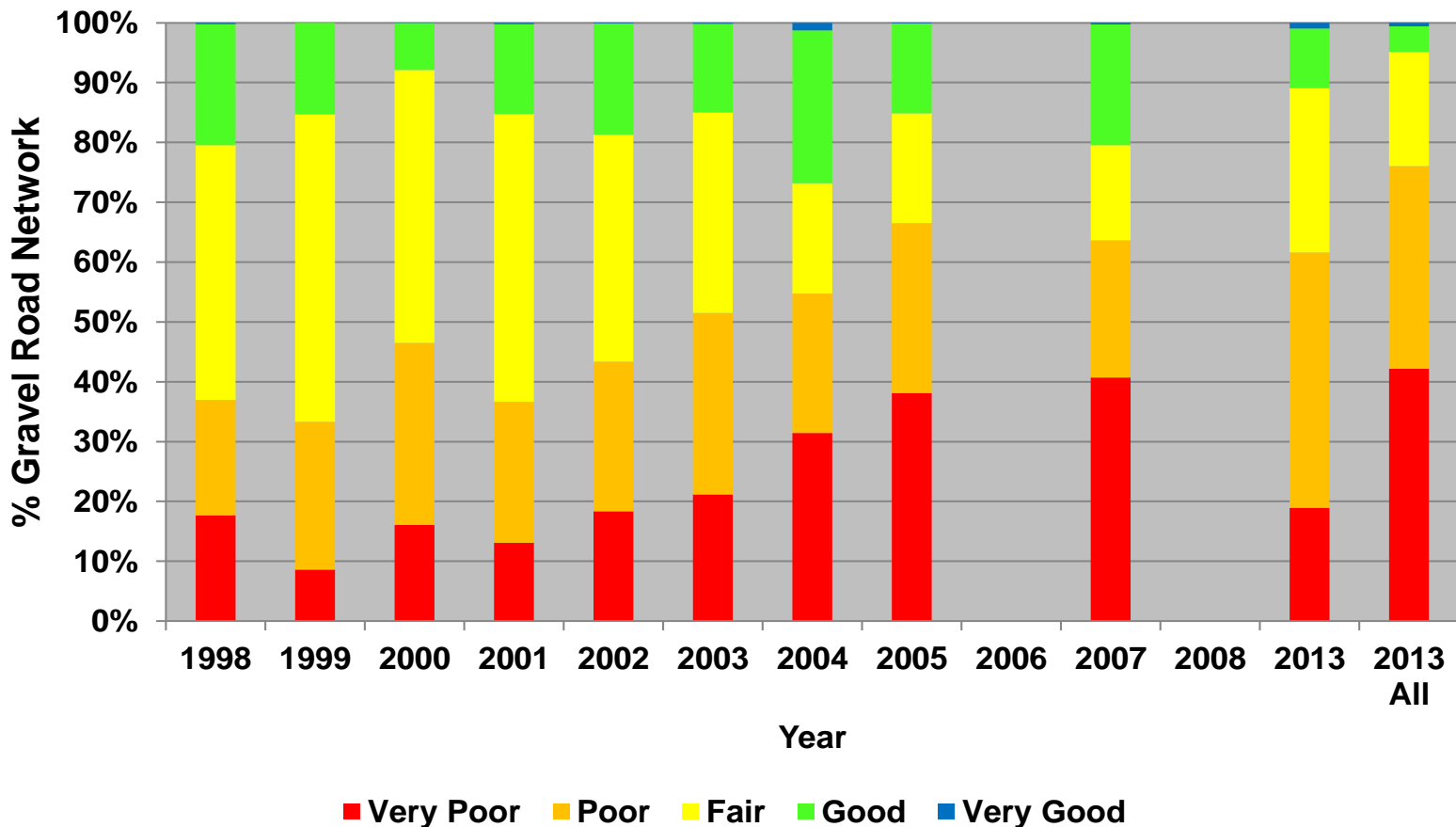


Type	Year	V-Good	Good	Fair	Poor	V-Poor
Length	2013	760	5,574	24,901	44,170	54,992
%	2013	0.58%	4.27%	19.10%	33.87%	42.17%

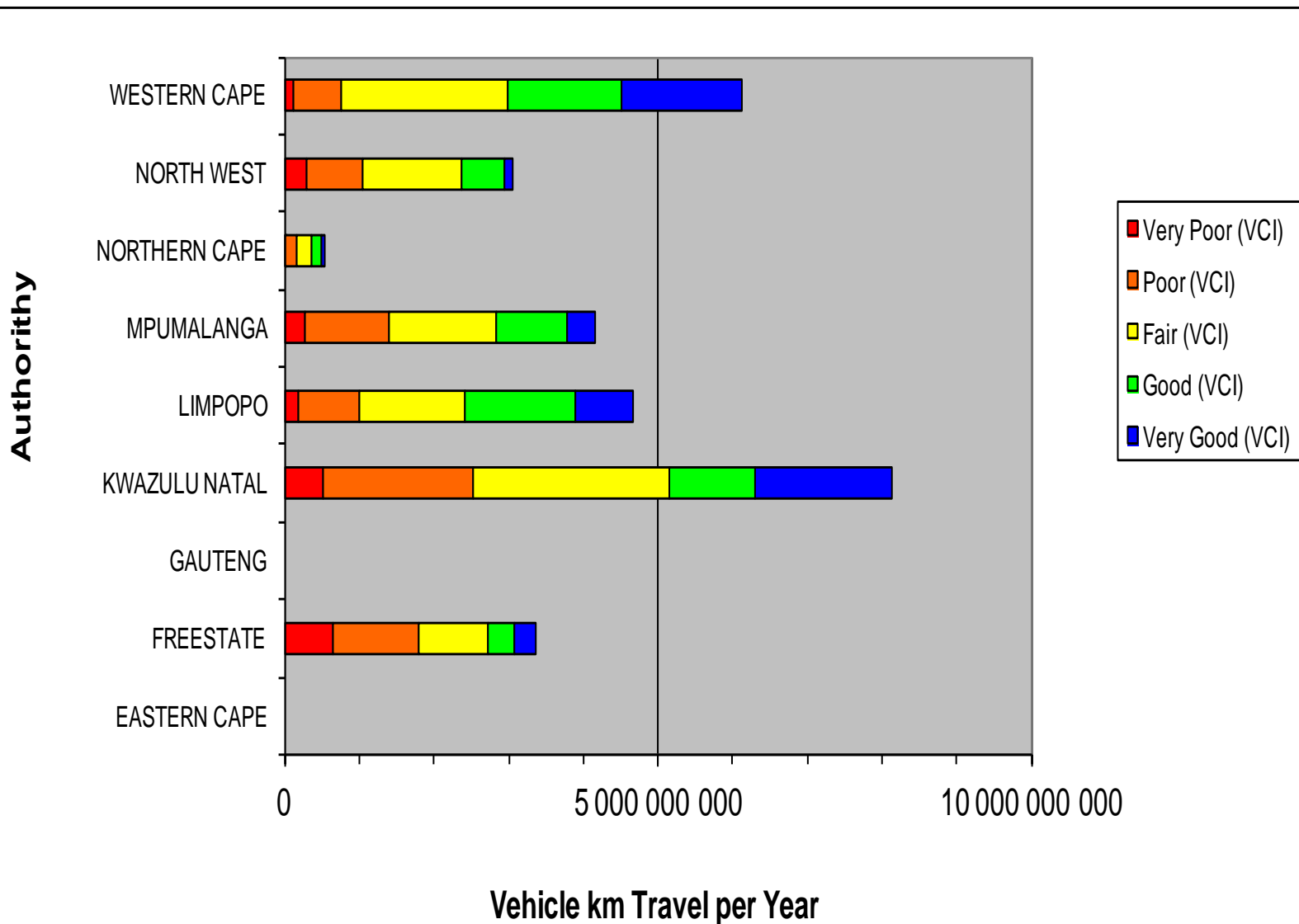
Gravel Road Deterioration - Provincial



Gravel Road Deterioration - Gauteng/North West/Western Cape

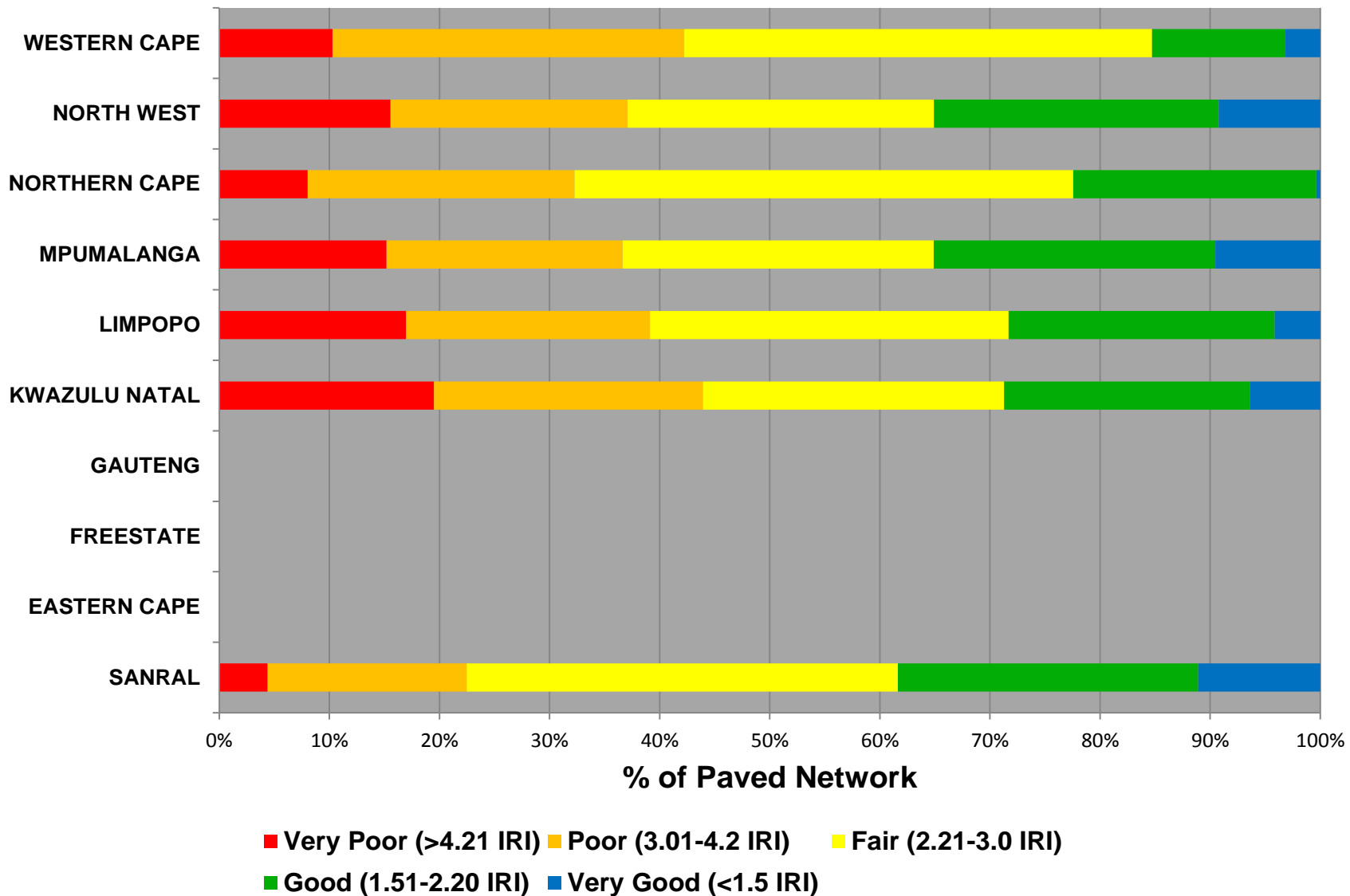


Vehicle km Travel – Paved 2013

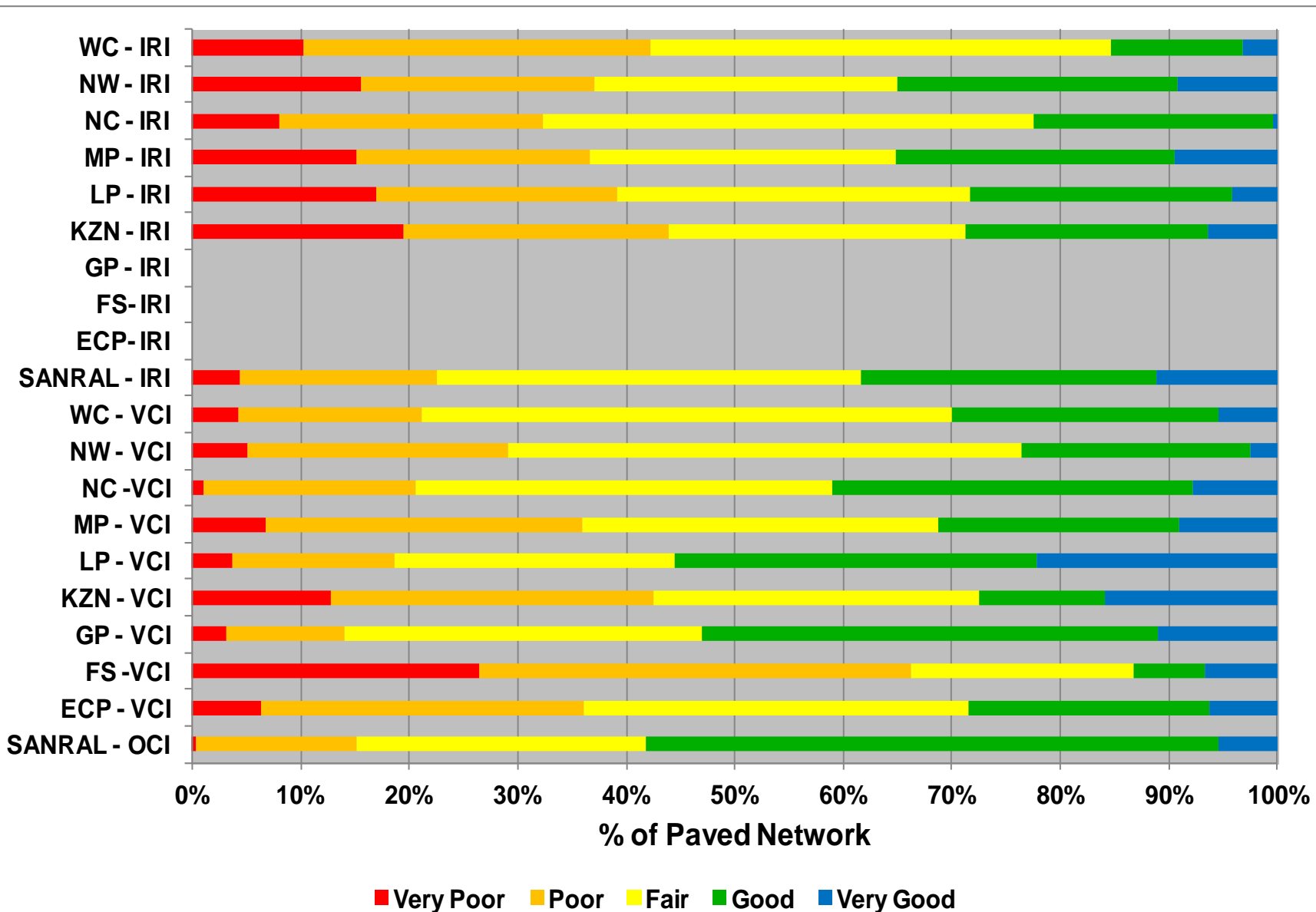


Roughness (IRI) – Paved 2013

2013 Roughness (IRI)



VCI Versus IRI – Paved 2013



Provincial Maintenance Grant – 1st April 2014

Provincial Roads Maintenance Grant

Transferring department	<ul style="list-style-type: none"> • Transport (Vote 37)
Strategic goal	<ul style="list-style-type: none"> • To ensure efficient investment in provincial roads
Grant purpose	<ul style="list-style-type: none"> • To supplement provincial roads investments and support preventative, routine and emergency maintenance on provincial road networks • Ensure provinces implement and maintain road asset management systems • Promote the use of <u>labour-intensive</u> methods in road maintenance • Repair roads and bridges damaged by floods
Outcome statements	<ul style="list-style-type: none"> • Increased lifespan of provincial roads and decreased vehicle operating costs on provincial road networks • Improved rates of employment and skills development in the delivery of infrastructure

Impact:

New Construction = R5m to R10m per km

Reseal = R0.5m to R1m per km

5X to 10X Increase in Bitumen/Stone Demand for Resurfacings

gravel roads of the grant may be allocated towards the collection of data required by this grant. Provinces that lack the capacity to collect data must approach the DoT for assistance

- The above condition data must be utilised according to applicable national Committee of Transport Officials (COTO) standards (Technical Recommendations for Highways/ Technical Methods for Highways (TRH/TMH)) to identify and prioritise the maintenance requirements within the relevant budget limit, to improve condition of the roads and extend the lifespan of road infrastructure

MTEF allocations

- 2014/15: R9 361m, 2015/16: R9 952m, 2016/17: R10 291m

BUDGET FOR ROADS – 3 YEAR MTEF

National Treasury Direct Allocations (Excludes Equitable Share Allocations)				
Description	MTEF Period (Rm)			
	2013/14	2014/15	2015/16	2016/17
Income	R 49 470	R 49 770	R 50 070	R 50 070
Fuel Levy (Estimates)*	R 43 770	R 43 770	R 43 770	R 43 770
Vehicle Licence Fees (Estimates)**	R 5 700	R 6 000	R 6 300	R 6 300
Direct Allocations***	R 43 006	R 45 723	R 47 979	R 50 398
National - SANRAL Non Toll	R 10 497	R 11 917	R 12 497	R 13 159
Provincial - Road Maintenance Grant	R 9 126	R 9 361	R 9 952	R 10 291
Provincial - Public Transport Operations Grant	R 4 783	R 4 832	R 5 052	R 5 317
Provincial - EPWP Integrated Grant for Provinces	R 356	R 349	R 357	R 412
Local - General fuel levy sharing with metros	R 9 613	R 10 190	R 10 659	R 11 224
Local - Municipal Infrastructure Grant (17.25% Roads)	R 2 533	R 2 533	R 2 604	R 2 720
Local - Public transport infrastructure grant	R 4 669	R 4 968	R 5 098	R 5 104
Local - Public Transport Network Operations Grant	R 745	R 903	R 1 043	R 1 362
Local - Rural roads asset management systems grant	R 52	R 75	R 98	R 103
Local - EPWP Integrated Grant for Municipalities	R 632	R 595	R 619	R 706
Surplus/Shortfall	R 6 464	R 4 047	R 2 091	R -328

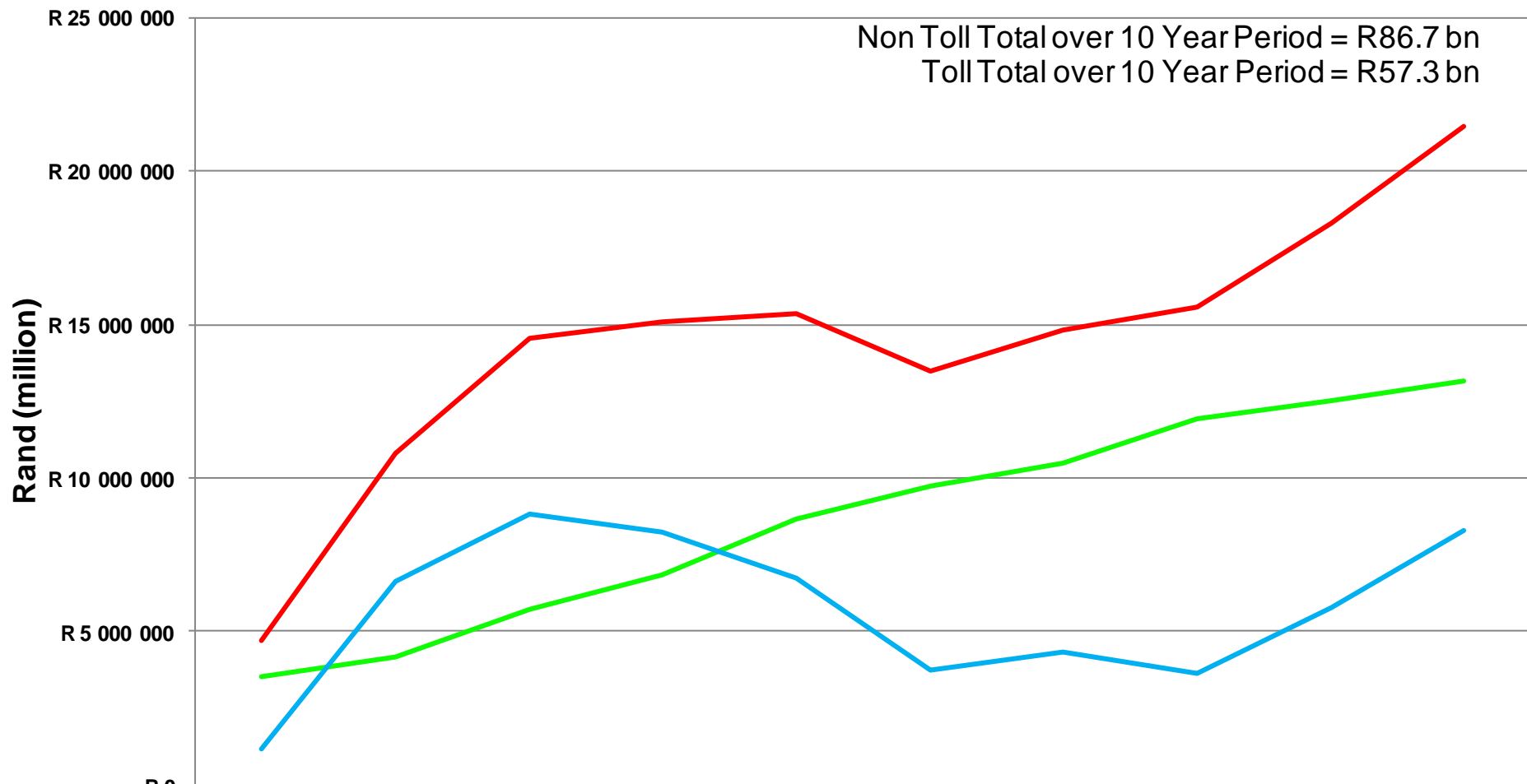
Notes:

* To be confirmed by treasury, no growth allowed.

** Income not ring fenced for roads only.

*** Excludes indirect allocations made from DORA allocations by authorities or raised through rates and taxes at municipal level.

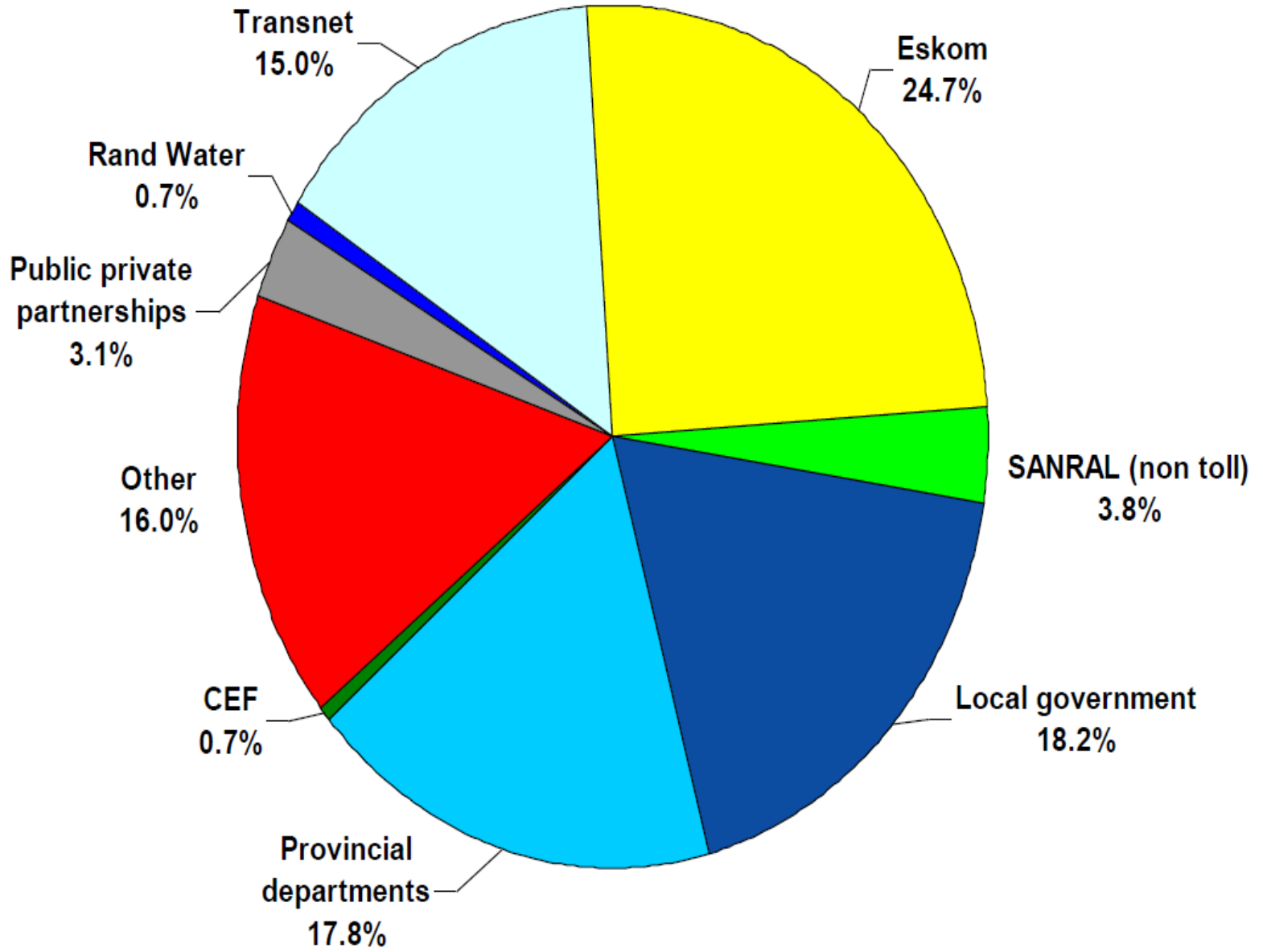
SANRAL Expenditure Over 10 Year Window



	2007/08	2008/09	2009/10	2010/11	2011/12	2012/13	2013/14	2014/15	2015/16	2016/17
Non Toll	R 3 521 929	R 4 159 964	R 5 714 645	R 6 844 501	R 8 651 596	R 9 728 055	R 10 497 184	R 11 916 947	R 12 497 294	R 13 159 651
Toll	R 1 162 725	R 6 618 783	R 8 813 922	R 8 250 146	R 6 708 839	R 3 753 395	R 4 327 181	R 3 635 061	R 5 787 414	R 8 274 737
Total	R 4 684 654	R 10 778 747	R 14 528 567	R 15 094 647	R 15 360 435	R 13 481 450	R 14 824 365	R 15 552 008	R 18 284 708	R 21 434 388

Financial Year

SA budgeted infrastructure spending over next 3 years (R827.1bn)



THANK YOU!

“Where a road
passes,
development
follows right on its
heels”



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