

List of projects in South Africa 2004 – 2013

Companion document to the paper

illuminating the World Cup Effect: Night Lights Evidence from South Africa

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1 Overview

This list is an attempt to summarize infrastructure projects in South Africa in 2004–2013 using information from distinct websites and publicly available documents. The time span is chosen to cover the period of preparations for the 2010 World Cup as well as time after the event (until 2013 when our data sample in the paper ends). The reason for extending the time span beyond 2010 is that some projects related to the World Cup, that are of interest for our study, started before the World Cup but continued after 2010. The whole list includes 127 projects, divided into 8 categories:¹

- Airports
- Stadiums
- Training stadiums
- Water projects
- Road projects
- Public transport projects
- Rail projects
- Other transport and logistics projects

Among all these projects, 72 are explicitly related to the 2010 World Cup and classified as a treatment in the paper. In the baseline analysis, we consider as treatment those 61 World Cup related projects that have been conducted in nine municipalities with a World Cup venue. In one robustness check, we augment the set of project by the remaining 11 World Cup related investments made in seven non-World Cup venues and classify the whole set as a treatment. In addition to the 72 World Cup related projects, we additionally consider in the paper one World Cup unrelated project (Richards Bay Coal Terminal upgrade) in one of the robustness checks. Therefore, the total number of projects that we consider in the paper and for which we could find specific information is 73.

55 projects out of all 127 investments can be classified as follows:

1. They are World Cup unrelated since
 - they have been made after the World Cup or
 - they have been made before/during the World Cup but no direct link with the event is mentioned in the information source.

¹We advise the reader that the list might be incomplete with respect to other projects and to information concerning the included projects. If no information could be found on the actual end of a particular project and/or its costs, we resort to the information on the expected end and/or estimated costs of that project. Begin of the project refers to the construction begin. All figures originally given in the national currency 'Rand' have been translated into U.S. dollars (\$) using the average exchange rate in 2010. All URL's have been accessed on February 25, 2017.

2. They were originally earmarked as World Cup projects but we exclude them from our analysis (N4 Northern Bypass in Nelspruit and the Khulani Corridor/Bus Rapid Transit (BRT) System in Port Elizabeth). These two World Cup related projects are explicitly indicated in this document.

Section 2 of this document summarizes those projects that have been assigned to the treatment in the paper, whereas Section 3 provides the full list of 127 investments.

2 List of Projects for the Analysis

Table 1 reports 72 projects considered in the paper, i.e., projects that—according to our information—have been directly related to the 2010 World Cup and that we are able to locate using coordinates given by wikipedia, google maps, and the websites <http://www.geonames.org> and <http://www.mbendi.com>.² In the baseline analysis of the paper, the definition of treated regions is restricted to nine municipalities comprising a World Cup venue and we thus consider those 61 projects out of 72 which have been conducted in World Cup venues. In one robustness check of the paper, we expand the definition of treated regions to all 16 municipalities that have experienced a World Cup investment, and in this case we use all 72 projects. Using the listed projects, we can identify treated wards within the treated municipalities.³ Apart from 72 World Cup related projects, Table 1 also provides information on the Richards Bay Coal Terminal project, a large investment project unrelated to the World Cup, that is taken into account in another robustness check of the paper.

Infrastructure projects related to the 2010 World Cup but excluded in our study are:

- *N4 Northern Bypass in Nelspruit*, also called Nelspruit Ring Road (Municipality: Mbombela Local, Province: Mpumalanga): this project could not be localized.
- *The Khulani Corridor and the Bus Rapid Transit (BRT) System in Port Elizabeth* (Municipality: Nelson Mandela Bay Metropolitan, Province: Eastern Cape)

This project has been identified as one of the legacy projects of the World Cup.⁴ The Khulani Corridor should provide a link between Motherwell in the northern part of Port Elizabeth with the Central Business District (CBD) via an efficient public transport system, the so-called Bus Rapid Transit (BRT) System, and thus enhance integration of better developed with less developed areas of the city.⁵ However, by 2010, only one part of the BRT system could be finalized—a route operated by a shuttle service and running between the CBD and the Nelson Mandela Bay Stadium (also in the city centre).⁶ In the years after the tournament, the implementation of the BRT system has been delayed by different factors, e.g., conflicts with the taxi industry, flawed construction of the fast bus lanes (as a consequence, newly built lanes have been demolished since busses bought in 2009 could not fit into the lanes), frequently changing city and municipality administration, as well as engineering firms contracted for the BRT project. Only in January 2013, a pilot project of the Integrated Public Transport System (IPTS), originally called

²We only consider information on newly built or refurbished roads if the subject of the project was a national (N) or regional (R) route.

³We also take into account some additional projects for our study. In particular, we assume that railway stations within each of the World Cup municipalities were upgraded even if no specific information about upgrades can be found, e.g., in the case of the Nelspruit railway station. We also consider the upgrade of the Nelson Mandela Metropolitan University Stadium as a project belonging to the treatment. This stadium was utilized as a training stadium during the World Cup, but, in contrast to the training stadiums included in Table 1, we do not dispose of explicit information about such an upgrade.

⁴http://www.gcis.gov.za/sites/www.gcis.gov.za/files/docs/resourcecentre/multimedia/sa2010_govprep.pdf

⁵http://www.nelsonmandelabay.gov.za/datarepository/documents/QDL3C_IDP%20-%20Chapter%203.pdf

⁶<http://www.2010worldcupimpact.info/2010/06/24/fast-bus-lanes-for-port-elizabeth/>

the BRT system, was launched.⁷ The bus stops of the pilot project were provisional and new bus stations were at the design stage at that time.⁸ After the one-year pilot project, many issues have still not been resolved, like the agreement with the taxi industry⁹ or flaws in the construction and design.¹⁰ Moreover, despite the grant support by the National Treasury, the municipality has not managed to finance the next project phases.¹¹ All these developments show that the IPTS in Port Elizabeth was not fully functioning by the end of 2013 (the end of our data sample), so that we decided not to take into account this project in our study.

Total expenditures of all listed World Cup related projects amount to \$14 billion and are disaggregated as follows:

1. \$2.5 billion: Stadiums (World Cup stadiums and training stadiums)
2. \$11.4 billion: Transport infrastructure
 - \$3.8 billion: Airports
 - \$3.6 billion: Rail
 - \$2.9 billion: Roads
 - \$1.1 billion: Public transport
3. \$88.3 million: Water projects

This figure substantially exceeds the official figure that has been published by Grant Thornton, an independent accounting and consulting firm, whose findings are referred to in reports of the South African government; see, for example, the report by [Sport and Recreation South Africa \(2013\)](#). According to Grant Thornton, total expenditures on stadiums and infrastructure directly related to the World Cup were \$5.5 billion, with \$4.1 spent by the government and \$1.4 billion spent by cities and provinces.¹² A potential explanation for the difference between the figures provided by Grant Thornton and that corresponding to all projects in [Table 1](#) could be the fact that Grant Thornton might have followed a narrow definition of projects directly related to the 2010 World Cup in their calculations. In our study, on the contrary, each project for which we found a link to the World Cup (in any potential information source) counts as World Cup related.

⁷<http://legacy.nelsonmandelabay.gov.za/Content.aspx?objID=547>

⁸<http://www.nelsonmandelabay.gov.za/NewsView.aspx?ID=1684>

⁹Laphum'ilanga (2014, June 2) "Newsflash", No. 1. Available at: <http://laphumilanga.co.za/docs/Laphumilanga%20newsletter1-2June2014.pdf>

¹⁰<http://ewn.co.za/2016/02/03/Multi-million-rand-buses-too-big-for-PE-roads>

¹¹<http://www.heraldlive.co.za/bus-plan-bleeding-money/>

¹²See <http://mg.co.za/article/2015-06-11-was-world-cup-2010-worth-it>.

Table 1: Infrastructure and Other Projects in Treated Municipalities

Treated Municipality ^{a)}	World Cup Venue/Seat	Projects	Duration	Costs in U.S. \$ ^{b)}	Source ^{c)}	
<i>With a 2010 World Cup venue</i>						
City of Johannesburg Metropolitan (Gauteng)	Johannesburg	Soccer City Stadium	2007 – 2009	451.6 million	See note d)	
		Ellis Park Stadium	2007 – 2009	75,269		
		Training Stadiums				
		Orlando Stadium				
		Dobsonville Stadium				<ul style="list-style-type: none"> • http://www.joburg-archive.co.za/2007/pdfs/idp_2007/inview/2010.pdf • http://www.joburg-archive.co.za/2007/pdfs/idp_2007/inview/2010.pdf
		Cecil Payne Stadium	2007 – 2010	86.6 million		
		Rabie Ridge Stadium				
		Rand Stadium				
		Ruimsig Stadium				
		Rea Vaya (Bus Rapid Transit System)	2007 – 2009 (Phase 1A)	410.6 million (206 million: Phase 1A)		http://mirror.unhabitat.org/downloads/docs/7997_81569_Rea_Vaya.pdf
		Gauteng Freeway Improvement Project (GFIP) ^{g)}	2007 – 2010/2011	2.7 billion (total for the province)		National Treasury: Republic of South Africa (2012) “Budget Review”. Available at: http://www.treasury.gov.za/documents/national%20budget/2012/review/
		Gautrain ^{g)}	2006 – 2011/2012	3.4 billion (total for the province)		http://www.engineeringnews.co.za/article/countdown-begins-as-gautrain-steam-towards-june-deadline-2011-05-27
		Urban Railway Stations				
		Langlaagte				
New Canada						
Nasrec						
Orlando	– 2010	45.7 million		See note f)		
Ellis Park						
Doornfontein						
Rhodesfield						

Treated Municipality ^{a)}	World Cup Venue/Seat	Project	Duration	Costs in U.S. \$ ^{b)}	Source ^{c)}	
		Rehabilitation of Kliprivier/Klipspruit	2008 – 2012	82.1 million	<ul style="list-style-type: none"> • http://www.unep.org/PDF/PressReleases/FIFA_2010_LR.pdf • http://www.jhbcityparks.com/pdfs/greening_soweto12.pdf 	
City of Tshwane Metropolitan (Gauteng)	Pretoria	Loftus Versfeld Stadium	2007 – 2009	12.3 million	See note d); http://www.southafrica.net/za/de/articles/entry/article-southafrica.net-loftus-versfeld-stadium-pretoria	
		Training Stadiums				
		Lucas Moripe Stadium				• http://www.iol.co.za/news/south-africa/tshwane-to-get-major-upgrades-for-2010-444853
		HM Pitje Stadium	2007 – 2009	48.3 million	• Council City of Tshwane (2008) “Item 25: Cognisance of the City’s Preparations for the 2010 FIFA World Cup’s Overall Business Plan (Part 2)”. Report May 29, 2008. Available at: http://www.tshwane.gov.za/sites/Council/Council%20Resolutions	
		Giant Stadium				
		Wonderboom Airport	– 2009	60.2 million	www.southafrica.info/business/economy/infrastructure/wonderboom-021109.htm	
Urban Railway Stations						
		Loftus	– 2010	2.7 million	See note f)	
		Belle Ombre				
City of Cape Town Metropolitan (Western Cape)	Cape Town	Cape Town Stadium (new construction)	2007 – 2009	602.2 million	See note d)	
		Cape Town International Airport	– 2010	273.7 million	www.southafrica.info/business/economy/infrastructure/airports-061109.htm	
		Urban Railway Stations				
		Cape Town Century Station (new construction)	– 2010	7.9 million	See note f)	
		Cape Town Station	– 2010		See note f)	
		Athlone		65.4 million	http://www.metrorail.co.za/pdf/MEDIA-RELEASE-PRASAready220roll-MosesMabhidaStationLaunch.pdf	
		Heideveld	– 2010			
		Langa				

Treated Municipality ^{a)}	World Cup Venue/Seat	Project	Duration	Costs in U.S. \$ ^{b)}	Source ^{c)}	
		MyCiTi (Bus Rapid Transit System)	2008 – 2013 (Phase 1A)	629.5 million (estimated costs 2010)	<ul style="list-style-type: none"> • http://myciti.org.za/docs/1029/Highlights_2010_MyCiTi_Business_Plan.pdf • http://myciti.org.za/docs/885/MyCiTi%20Stakeholder%20Guide%20-%20January%202013.pdf 	
eThekweni Metropolitan (KwaZulu-Natal)	Durban	Durban Stadium (new construction)	2008 – 2009	465.3 million	See note d)	
		Training Stadiums				
		King Zwelithini Stadium	2007 – 2010	34.2 million	http://www.engineeringnews.co.za/print-version/stadiums-2009-10-02	
		Princess Magogo Stadium				
		Sugar Ray Xulu Stadium				
		King Shaka International Airport	2007 – 2010	930.6 million	See note e); http://www.engineeringnews.co.za/article/construction-takes-off-at-new-durban-airport-despite-legal-challenge-2007-09-14	
		Urban Railway Stations				
		Durban Moses Mabhida Station (new construction)	– 2010	20.5 million	See note f)	
		Durban Kwa-Mnyandu	– 2010	7.7 million	See note f)	
		Durban KwaMashu				
Reunion						
		N2 Dube Trade Port Interchange	2008 – 2010	41.6 million	<ul style="list-style-type: none"> • SANRAL (2011) “Annual Report”. Available at: http://www.nra.co.za/content/SANRAL_Annual_Report2011.pdf • http://www.wbho.co.za/n2-interchange/ • “King Shaka International Airport N2 Interchange” (2011, December). Civil Engineering. Available at: http://www.civildesigner.com/Publications/kingshakan2.pdf 	

Treated Municipality ^{a)}	World Cup Venue/Seat	Project	Duration	Costs in U.S. \$ ^{b)}	Source ^{c)}
Nelson Mandela Bay Metropolitan (Eastern Cape)	Port Elizabeth	Nelson Mandela Bay Stadium (new construction)	2007 – 2009	280.5 million	See note d)
		Gelvendale Stadium (training stadium)	2007 – 2010	11.2 million	http://www.sbtbuilding.co.za/#!/projects
		Port Elizabeth Airport	– 2008	9.4 million	ACSA (2009) “Annual Report Part III”. Available at: http://www.airports.co.za/Pages/FinancialInformation.aspx
		North End Railway Station	– 2010	2.2 million	See note f)
Mangaung Metropolitan (Free State)	Bloemfontein	Free State Stadium	2007 – 2009	48 million	See note d); https://pmg.org.za/committee-meeting/11852/
		Seisa Ramabodu Stadium (training stadium)	—	1.4 million	http://www.iol.co.za/sport/free-state-stadium-to-open-on-april-4-600126
		Bloemfontein Airport	2007 – 2009	23.3 million	See note e); http://www.engineeringnews.co.za/article/airport-upgrades-on-track-ahead-of-2010-2007-12-14
		N8: Bloemfontein Airport Interchange (and access roads)	2009 – 2010	17.4 million	<ul style="list-style-type: none"> • SANRAL (2009) “Annual Report”. Available at: http://www.nra.co.za/content/Sanral_AR_09.pdf • http://www.engineeringnews.co.za/print-version/consultants-to-complete-freeway-improvement-ahead-of-schedule-2010-10-08
		Mangaung Intermodal Transport Centre	2009 – 2010	54.7 million	<ul style="list-style-type: none"> • http://www.smec.com/Default.aspx?aProjId=915 • http://truspace.wix.com/home#!/project-mitf/gfwb5
Mbombela Local (Mpumalanga)	Nelspruit	Mbombela Stadium (new construction)	2007 – 2009	143.7 million	See note d)
		Mataffin Water Reservoir	2008 – 2010	6.2 million	National Treasury: Republic of South Africa (2011) “Estimates of National Expenditure: Water Affairs”. Available at: http://www.treasury.gov.za/documents/national%20budget/2011/enebooklets/
Polokwane Local (Limpopo)	Polokwane	Peter Mokaba Stadium (new construction)	2007 – 2009	169.7 million	See note d)
		Polokwane Airport	2008	10.4 million (joint with cost for Giyani and Thohoyandou Airports)	http://www.gcis.gov.za/sites/default/files/docs/resourcecentre/yearbook/2008/chapter1.pdf

Treated Municipality ^{a)}	World Cup Venue/Seat	Project	Duration	Costs in U.S. \$ ^{b)}	Source ^{c)}	
		Polokwane Eastern Ring Road	2009 – 2011	118.4 million	<ul style="list-style-type: none"> • http://kbkengineers.co.za/project-portfolio/transportation/ • http://www.nra.co.za/live/content.php?Session_ID=a111723f233d67e2b636a05efc5bc988&Category_ID=159 • SANRAL (2010) “Annual Report”. Available at: http://www.nra.co.za/content/Sanral_ARep_10_Web.pdf 	
Rustenburg Local (North West)	Rustenburg	Royal Bakofeng Stadium	2007 – 2009	49.3 million	See note d); http://www.southafrica.net/za/de/articles/entry/article-southafrica.net-royal-bafokeng-stadium-rustenburg	
		Olympia Park Stadium (training stadium)	—	—	HSRC (2011) “FIFA 2010 World Cup Legacy Audit”. Available at: http://www.hsrc.ac.za/en/research-outputs/view/5636	
		Rustenburg Railway Station	– 2010	—	HSRC (2011) “FIFA 2010 World Cup Legacy Audit”. Available at: http://www.hsrc.ac.za/en/research-outputs/view/5636	
<i>Other municipalities</i>						
Ekurhuleni Metropolitan (Gauteng)	Germiston	O.R. Tambo International Airport	– 2009	2.4 billion (total estimated costs)	http://www.airportsinternational.com/2010/05/world-cup-airports/5538	
Buffalo City Metropolitan (Eastern Cape)	East London	Training Stadiums				
		Buffalo City Stadium	2008 – 2010	3.7 million	HSRC (2011) “FIFA 2010 World Cup Legacy Audit”. Available at: http://www.hsrc.ac.za/en/research-outputs/view/5636	
		Bhisho Stadium				
		East London Airport	– 2010	13.7 million	www.southafrica.info/news/business/492724.htm	
		Bhisho Airport	2007 – 2008	10.7 million	<ul style="list-style-type: none"> • http://www.southafrica.info/business/investing/opportunities/ecairport-020807.htm • http://www.engineeringnews.co.za/print-version/eastern-cape-to-complete-mthatha-airport-upgrade-before-world-cup-2009-12-04 	

Treated Municipality ^{a)}	World Cup Venue/Seat	Project	Duration	Costs in U.S. \$ ^{b)}	Source ^{c)}
King Sabata Dalindyebo (Eastern Cape)	Mthatha	Mthatha Airport	2009 – 2015 (with delays)	95.8 million	<ul style="list-style-type: none"> • http://www.engineeringnews.co.za/print-version/mthatha-airport-upgrade-south-africa-2010-03-05 • http://www.gov.za/mthatha-airport-upgrade-back-track • http://www.ksd.gov.za/component/k2/itemlist/tag/MthathaAirport
		Mthatha Stadium (training stadium; new construction)	2008 – 2010	30 million	HSRC (2011) “FIFA 2010 World Cup Legacy Audit”. Available at: http://www.hsrc.ac.za/en/research-outputs/view/5636
George Local (Western Cape)	George	George Airport	2004 – 2007	5.9 million	http://www.engineeringnews.co.za/article/george-airport-receives-r43million-upgrade-2007-12-14
Sol Plaatje Local (Northern Cape)	Kimberley	Kimberley Airport	– 2010	2.3 million	<ul style="list-style-type: none"> • ACSA (2010) “Annual Report 2010 Part III”. Available at: http://www.airports.co.za/FinancialResults/AnnualReportpartIII2010.pdf • See note e)
//Khara Hais Local (Northern Cape)	Upington	Upington Airport	– 2010	4.2 million	<ul style="list-style-type: none"> • ACSA (2010) “Annual Report 2010 Part III”. Available at: http://www.airports.co.za/FinancialResults/AnnualReportpartIII2010.pdf • See note e)
Ngwathe Local (Free State)	Parys	Fezile Dabi Stadium (training stadium)	2008 – 2012	7.9 million	National Treasury South Africa (2011). “Provincial Budget Free State: Vote 12 (Sports, Arts, Culture and Recreation)”. Available at: http://www.treasury.gov.za/documents/provincial%20budget/2011/Budget%20Statements/FS/
<i>Other municipalities: projects unrelated to the 2010 World Cup</i>					
uMhlathuze Local (KwaZulu–Natal)	Richards Bay	Richards Bay Coal Terminal (Phase 5)	2006 – 2010	164.2 million	<ul style="list-style-type: none"> • http://www.rbct.co.za/about-rbct-4/our-history/ • http://www.engineeringnews.co.za/article/richards-bay-coal-terminal-expansion-and-coal-line-south-africa-2009-02-06

^{a)} The corresponding province is given in brackets.

^{b)} All figures originally given in the national currency ‘Rand’ have been translated into U.S. dollars (\$) using the average exchange rate of 2010.

^{c)} The URLs have been last accessed on February 25, 2016.

^{d)} <http://www.medioclubsouthafrica.com/component/content/article?id=93:world>

^{e)} <http://www.airport-business.com/2010/03/acsas-airport-developments-nearing-conclusion-as-world-cup-approaches/>

^{f)} <http://www.metrorail.co.za/pdf/OrlandoStationLaunch.pdf>

^{g)} This project also applies to the City of Tshwane Metropolitan Municipality.

3 All Projects

Airports

1. O.R. Tambo International Airport
 - Province: Gauteng, Municipality: Ekurhuleni Metropolitan
 - Duration: – 2009
 - Costs: 2.4 billion \$
 - Source: <http://www.airportsinternational.com/2010/05/world-cup-airports/5538>
2. Cape Town International Airport
 - Province: Western Cape, Municipality: City of Cape Town Metropolitan
 - Duration: – 2010
 - Costs: 273.7 million \$
 - Source: <http://www.southafrica.info/business/economy/infrastructure/airports-061109.htm>
3. King Shaka International Airport
 - Province: KwaZulu–Natal, Municipality: eThekweni Metropolitan
 - Duration: 2007 – 2010
 - Costs: 930.6 million \$
 - Source:
 - National Treasury: Republic of South Africa (2014a)
 - <http://www.engineeringnews.co.za/article/construction-takes-off-at-new-durbanairport-despite-legal-challenge-2007-09-14>
4. Bloemfontein Airport
 - Province: Free State, Municipality: Mangaung
 - Duration: 2007 – 2009
 - Costs: 48 million \$
 - Source:
 - <http://www.medioclubsouthafrica.com/component/content/article?id=93:world>
 - <https://pmg.org.za/committee-meeting/11852/>
5. Port Elizabeth Airport
 - Province: Eastern Cape, Municipality: Nelson Mandela Bay Metropolitan
 - Duration: – 2008
 - Costs: 9.4 million \$

- Source: [ACSA \(2009\)](#)

6. East London Airport

- Province: Eastern Cape, Municipality: Buffalo City Metropolitan
- Duration: – 2010
- Costs: 13.7 million \$
- Source:
 - <http://www.southafrica.info/news/business/492724.htm>
 - [ACSA \(2010\)](#)

7. Polokwane International Airport

- Province: Limpopo, Municipality: Polokwane Local
- Duration: 2008
- Costs: 10.4 million \$ (joint with costs for Giyani and Thohoyandou Airports)
- Source: <http://www.gcis.gov.za/sites/default/files/docs/resourcecentre/yearbook/2008/chapter1.pdf>

8. George Airport

- Province: Western Cape, Municipality: George Local
- Duration: 2004 – 2007
- Costs: 5.9 million \$
- Source: <http://www.engineeringnews.co.za/article/george-airport-receives-r43million-upgrade-2007-12-14>

9. Kimberley Airport

- Province: Northern Cape, Municipality: Sool Platje Local
- Duration: – 2010
- Costs: 2.3 million \$
- Source:
 - <http://www.airport-business.com/2010/03/acsas-airport-developments-nearing-conclusion-as-world-cup-approaches/>
 - [ACSA \(2010\)](#)

10. Upington Airport

- Province: Northern Cape, Municipality: //Khara Hais Local
- Duration: – 2010
- Costs: 4.2 million \$
- Source:

- <http://www.airport-business.com/2010/03/acsas-airport-developments-nearing-conclusion-as-world-cup-approaches/>
- ACSA (2010)

11. Bhishe Airport

- Province: Eastern Cape, Municipality: Buffalo City Local
- Duration: 2007 – 2008
- Costs: 10.7 million \$
- Source:
 - <http://www.southafrica.info/business/investing/opportunities/ecairport-020807.htm>
 - <http://www.engineeringnews.co.za/print-version/eastern-cape-to-complete-mthatha-airport-upgrade-before-world-cup-2009-12-04>

12. Mthatha Airport

- Province: Eastern Cape, Municipality: King Sabata Dalindyebo
- Duration: 2009 – 2015
- Costs: 95.8 million \$
- Source:
 - <http://www.engineeringnews.co.za/print-version/mthatha-airport-upgrade-south-africa-2010-03-05>
 - <http://www.gov.za/mthatha-airport-upgrade-back-track>
 - <http://www.ksd.gov.za/component/k2/itemlist/tag/MthathaAirport>

13. Wonderboom Airport

- Province: Gauteng, Municipality: City of Tshwane Metropolitan
- Duration: – 2009
- Costs: 60.2 million \$
- Source: <http://www.southafrica.info/business/economy/infrastructure/wonderboom-021109.htm>

Stadiums

1. Soccer City Stadium (Johannesburg)
 - Province: Gauteng, Municipality: City of Johannesburg Metropolitan
 - Duration: 2007 – 2009
 - Costs: 451.6 million \$
 - Source: <http://www.medioclubsouthafrica.com/component/content/article?id=93:world>
2. Ellis Park Stadium (Johannesburg)
 - Province: Gauteng, Municipality: City of Johannesburg Metropolitan
 - Duration: 2007 – 2009
 - Costs: 75,269 \$
 - Source: <http://www.medioclubsouthafrica.com/component/content/article?id=93:world>
3. Loftus Versfeld Stadium (Pretoria)
 - Province: Gauteng, Municipality: City of Tshwane Metropolitan
 - Duration: 2007 – 2009
 - Costs: 12.3 million \$
 - Source:
 - <http://www.medioclubsouthafrica.com/component/content/article?id=93:world>
 - <http://www.southafrica.net/za/de/articles/entry/article-southafrica.net-loftus-versfeld-stadium-pretoria>
4. Cape Town Stadium (Cape Town): new construction
 - Province: Western Cape, Municipality: City of Cape Town Metropolitan
 - Duration: 2007 – 2009
 - Costs: 602.2 million \$
 - Source: <http://www.medioclubsouthafrica.com/component/content/article?id=93:world>
5. Durban Stadium (Durban): new construction
 - Province: KwaZulu–Natal, Municipality: eThekweni Metropolitan
 - Duration: 2008 – 2009
 - Costs: 465.3 million \$
 - Source: <http://www.medioclubsouthafrica.com/component/content/article?id=93:world>

6. Nelson Mandela Bay Stadium (Port Elizabeth): new construction

- Province: Eastern Cape, Municipality: Nelson Mandela Bay Metropolitan
- Duration: 2007 – 2009
- Costs: 280.5 million \$
- Source: <http://www.medioclubsouthafrica.com/component/content/article?id=93:world>

7. Free State Stadium (Bloemfontein)

- Province: Free State, Municipality: Mangaung Metropolitan
- Duration: 2007 – 2009
- Costs: 48 million \$
- Source:
 - <http://www.medioclubsouthafrica.com/component/content/article?id=93:world>
 - <https://pmg.org.za/committee-meeting/11852/>

8. Mbombela Stadium (Nelspruit): new construction

- Province: Mpumalanga, Municipality: Mbombela Local
- Duration: 2007 – 2009
- Costs: 143.7 million \$
- Source: <http://www.medioclubsouthafrica.com/component/content/article?id=93:world>

9. Peter Mokaba Stadium (Polokwane): new construction

- Province: Limpopo, Municipality: Polokwane Local
- Duration: 2007 – 2009
- Costs: 169.7 million \$
- Source: <http://www.medioclubsouthafrica.com/component/content/article?id=93:world>

10. Royal Bakofeng Stadium (Rustenburg)

- Province: North–West, Municipality: Rustenburg Local
- Duration: 2007 – 2009
- Costs: 49.3 million \$
- Source: <http://www.medioclubsouthafrica.com/component/content/article?id=93:world>

Training Stadiums

1. Orlando Stadium (Johannesburg/Soweto)
 - Province: Gauteng, Municipality: City of Johannesburg Metropolitan
 - Duration: 2007 – 2010
 - Costs: 46.1 million \$
 - Source: http://www.joburg-archive.co.za/2007/pdfs/idp_2007/inview/2010.pdf
2. Dobsonville Stadium (Johannesburg/Soweto)
 - Province: Gauteng, Municipality: City of Johannesburg Metropolitan
 - Duration: 2007 – 2010
 - Costs: 9.4 million \$
 - Source: http://www.joburg-archive.co.za/2007/pdfs/idp_2007/inview/2010.pdf
3. Cecil Payne Stadium (Johannesburg)
 - Jointly with the upgrades of the following stadiums: Rand Stadium, Rabie Ridge Stadium, Ruimsig Stadium
 - Province: Gauteng, Municipality: City of Johannesburg Metropolitan
 - Duration: 2007 – 2010
 - Costs: 31.1 million \$
 - Source: http://www.joburg.org.za/index.php?option=com_content&view=article&id=1030&catid=109&Itemid=244
4. Rand Stadium (Johannesburg): see 3 (Cecil Payne Stadium)
5. Rabie Ridge Stadium (Johannesburg): see 3 (Cecil Payne Stadium)
6. Ruimsig Stadium (Johannesburg): see 3 (Cecil Payne Stadium)
7. Lucas Moripe Stadium, formerly Super Stadium (Pretoria/Atteridgeville)
 - Province: Gauteng, Municipality: City of Tshwane Metropolitan
 - Duration: 2007 – 2009
 - Costs: 6.6 million \$
 - Source: <http://www.iol.co.za/news/south-africa/tshwane-to-get-major-upgrades-for-2010-444853>
8. HM Pitje Stadium (Pretoria/Mamelodi)
 - Province: Gauteng, Municipality: City of Tshwane Metropolitan
 - Duration: 2007 – 2009

- Costs: 10.1 million \$
- Source: <http://www.iol.co.za/news/south-africa/tshwane-to-get-major-upgrades-for-2010-444853>

9. Giant Stadium (Pretoria/Soshanguve)

- Province: Gauteng, Municipality: City of Tshwane Metropolitan
- Duration: 2007 – 2009
- Costs: 31.6 million \$
- Source: [Council City of Tshwane \(2008\)](#)

10. King Zwelithini Stadium (Durban/Umlazi)

- Province: KwaZulu–Natal, Municipality: eThekweni Metropolitan
- Duration: 2007 – 2010
- Costs: 11.5 million \$
- Source: <http://www.engineeringnews.co.za/print-version/stadiums-2009-10-02>

11. Princess Magogo Stadium (Durban/KwaMashu)

- Province: KwaZulu–Natal, Municipality: eThekweni Metropolitan
- Duration: 2007 – 2009
- Costs: 12.7 million \$
- Source: <http://www.engineeringnews.co.za/print-version/stadiums-2009-10-02>

12. Sugar Ray Xulu Stadium (Durban/Clermont)

- Province: KwaZulu–Natal, Municipality: eThekweni Metropolitan
- Duration: 2007 – 2010
- Costs: 10 million \$
- Source: <http://www.engineeringnews.co.za/print-version/stadiums-2009-10-02>

13. Gelvandale Stadium (Port Elizabeth)

- Province: Eastern Cape, Municipality: Nelson Mandela Bay Metropolitan
- Duration: 2007 – 2010
- Costs: 11.2 million \$
- Source: <http://www.sbtbuilding.co.za/#!/projects>

14. Mthatha Stadium (Mthatha): new construction

- Province: Eastern Cape, Municipality: King Sabata Dalindyebo
- Duration: 2008 – 2010

- Costs: 30 million \$
 - Source: [HSRC \(2011\)](#)
15. Buffalo City Stadium (East London)
- Province: Eastern Cape, Municipality: Buffalo City Metropolitan
 - Duration: 2008 – 2010
 - Costs: 3 million \$
 - Source: [HSRC \(2011\)](#)
16. Bhisho Stadium (Bhisho)
- Province: Eastern Cape, Municipality: Buffalo City Metropolitan
 - Duration: 2008 – 2010
 - Costs: 684,265 \$
 - Source: [HSRC \(2011\)](#)
17. Olympia Park Stadium (Rustenburg)
- Province: North West, Municipality: Rustenburg Local
 - Source: http://www.gcis.gov.za/sites/www.gcis.gov.za/files/docs/resourcecentre/multimedia/sa2010_govprep.pdf
18. Seisa Ramabodu Stadium (Bloemfontein)
- Province: Free State, Municipality: Mangaung Metropolitan
 - Costs: 1.4 million \$
 - Source: <http://www.iol.co.za/sport/free-state-stadium-to-open-on-april-4-600126>
19. Fezile Dabi Stadium (Parys)
- Province: Free State, Municipality: Ngwathe Local
 - Duration: 2008 – 2012
 - Costs: 7.9 million \$
 - Source: [National Treasury: Republic of South Africa \(2011b\)](#)

Water Projects

Related to the 2010 World Cup

1. Rehabilitation of Klipspruit/Kliprivier

- Province: Gauteng, Municipality: City of Johannesburg Metropolitan
- Duration: 2007 – 2010
- Costs: 82.1 million \$
- Source: http://www.jhbcityparks.com/pdfs/greening_soweto12.pdf

2. Mataffin Water Reservoir

- Province: Mpumalanga, Municipality: Mbombela Local
- Duration: 2008 – 2010
- Costs: 6.2 million \$
- Source: [National Treasury: Republic of South Africa \(2011a\)](#)

Unrelated to the 2010 World Cup

3. Olifants River Water Resources Development Project (Province: Limpopo)

3.1 Phase 1: Raising of the Flag Boshielo Dam

- Duration: 2003 – 2006
- Costs: 36.3 million \$
- Source:
 - <http://www.engineeringnews.co.za/print-version/kasrils-outlines-big-olifants-river-plans-2003-02-20>
 - <http://www.engineeringnews.co.za/article/flag-boshielo-dam-project-2004-02-06>
 - <http://www.engineeringnews.co.za/print-version/waterresource-development-project-2004-07-30>

3.2 Phase 2A: Construction of the De Hoop Dam

- Duration: 2007 – 2015
- Costs: 615.8 million \$
- Source: <http://www.engineeringnews.co.za/print-version/olifants-river-water-resources-development-project-phase-2-south-africa-2014-10-03>

4. eThekwnini Water and Sanitation Projects (Province: KwaZulu-Natal, Municipality: eThekwnini Metropolitan)

4.1 Water Pipe Replacement Project

- Duration: 2007 – 2010
- Costs: 116.3 million \$
- Source: <http://www.engineeringnews.co.za/print-version/ethekwini-water-pipes-replacement-project-south-africa-2009-10-02-1>

4.2 Water and Sanitation Project

- Duration: 2009 – 2011
- Costs: 23.9 million \$
- Source: <http://www.engineeringnews.co.za/print-version/ethekwini-water-and-sanitation-project-south-africa-2009-08-21>

4.3 Western Aqueduct Project

- Duration: 2010 – 2012
- Costs: over 109.5 million \$
- Source: <http://www.engineeringnews.co.za/print-version/ethekwini-water-and-sanitation-project-south-africa-2009-08-21>

5. Berg Water Project/Berg River Dam (Franschhoek)

- Province: Western Cape, Municipality: Stellenbosch Local
- Duration: 2004 – 2008
- Costs: 205.3 million \$
- Source: <http://www.engineeringnews.co.za/article/berg-water-project-franschhoek-western-cape-south-africa-2008-06-06>

6. Komati Water Scheme Augmentation Project

- Province: Mpumalanga
- Duration: 2011 – 2013
- Costs: 232.7 million \$
- Source:
 - <http://www.engineeringnews.co.za/print-version/komati-water-scheme-augmentation-project-kwsap-south-africa-2008-12-12>
 - <http://www.engineeringnews.co.za/article/komati-water-scheme-launched-2013-03-20>
 - Department Water and Sanitation: Republic of South Africa (2013)

7. Nandoni Water Treatment Works

- Province: Limpopo, Municipality: Thulamela Local
- Duration: 2006 – 2013
- Costs: 273.7 million \$

- Source: <http://www.engineeringnews.co.za/print-version/nandoni-water-treatment-works-and-distribution-networks-project-south-africa-2011-07-15>

8. Mokolo and Crocodile River (West) Water Augmentation Project: Phase 1

- Province: Limpopo
- Duration: 2011 – 2014
- Costs: 292.6 million \$
- Source:
 - <http://www.engineeringnews.co.za/print-version/crocodile-mokolo-water-augmentation-project-cmwap-south-africa-2008-12-12>
 - <http://www.engineeringnews.co.za/article/mokolo-and-crocodile-river-west-water-augmentation-project-south-africa-2015-04-24>
 - National Treasury: Republic of South Africa (2014b)

9. Vaal River Eastern Subsystem Augmentation Project

- Province: Mpumalanga, Municipality: Govan Mbeki Local
- Duration: 2005 – 2009
- Costs: 369.5 million \$
- Source:
 - <http://www.engineeringnews.co.za/article/vaal-river-eastern-subsystem-augmentation-project-2005-12-16>
 - <http://www.engineeringnews.co.za/print-version/vaal-river-eastern-subsystem-augmentation-project-south-africa-2009-02-20>

Road Projects¹³

Related to the 2010 World Cup

1. Gauteng Freeway Improvement Project (GFIP): Phase 1
 - Province: Gauteng
 - Duration: 2007 – 2010/2011
 - Costs: 2.7 billion \$
 - Source: [National Treasury: Republic of South Africa \(2012\)](#)
2. N2 Dube Trade Port/King Shaka International Airport Interchange
 - Province: KwaZulu–Natal, Municipality: eThekweni Metropolitan
 - Duration: 2008 – 2010
 - Costs: 41.6 million \$
 - Source:
 - [SANRAL \(2011\)](#)
 - [King Shaka International Airport N2 Interchange \(2011\)](#)
 - <http://www.wbho.co.za/n2-interchange/>
3. N8 Bloemfontein Airport Interchange (and access roads)
 - Province: Free State, Municipality: Mangaung Local
 - Duration: 2009 – 2010
 - Costs: 54.7 million \$
 - Source:
 - [SANRAL \(2009\)](#)
 - <http://www.engineeringnews.co.za/print-version/consultants-to-complete-freeway-improvement-ahead-of-schedule-2010-10-08>
4. Polokwane Eastern Ring Road
 - Province: Limpopo, Municipality: Polokwane Local
 - Duration: 2009 – 2011
 - Costs: 118.4 million \$
 - Source:
 - [SANRAL \(2010\)](#)
 - <http://kbcengineers.co.za/project-portfolio/transportation/>
 - http://www.nra.co.za/live/content.php?Session_ID=a111723f233d67e2b636a05efc5bc988&Category_ID=159
5. N4 Northern Bypass in Nelspruit/Nelspruit Ring Road¹⁴

¹³All projects listed here are limited to regional (R) and national (N) routes.

¹⁴This project was excluded from the analysis in the paper as it could not be localized.

- Province: Mpumalanga, Municipality: Mbombela Local
- Duration: 2007/2008 – 2010
- Costs: 102.6 million \$
- Source:
 - http://www.nra.co.za/live/content.php?Session_ID=aaac72090180daa417a176bdbad9cb50&Category_ID=160
 - <http://roadsafety.co.za/2010-06/new-n4-nelspruit-northern-bypass-%E2%80%93-93-open-to-traffic/>

Unrelated to the 2010 World Cup

Toll road projects: SANRAL

6. N17: Springs to Ermelo (Provinces: Gauteng, Mpumalanga)
 - 6.1. Springs to Leandra
 - 6.2. Leandra to Leven: new construction
 - Duration: 2007 – 2010
 - Costs: 54.9 million \$
 - Source: [SANRAL \(2011\)](#)
 - 6.3. Leven to Wildebeestfontein
 - 6.4. Trichardt Bypass
 - 6.5. Trichardt to Bethal
 - 6.6. Bethal to Davel
 - 6.7. Davel to Ermelo
7. R30/R34: Glen Lyon to Kroonstad
 - Province: Free State
 - Duration: 2008/2009 – 2011
 - Costs: 125.6 million \$
 - Subprojects:
 - R30: Glen Lyon to Brandfordt
 - R30: Brandfordt to Vet River
 - R30: Vet River to Beatrix Mine Intersection
 - R30 and R730: Beatrix Mine Intersection to Virginia
 - Source: [SANRAL \(2011\)](#)
8. N1: Glen Lyon to Zankraal

- Province: Free State
- Duration: 2007 – 2010
- Costs: 13.1 million \$
- Source: [SANRAL \(2008\)](#)

9. N2: Tsitsikamma to Witelsbos

- Province: Eastern Cape
- Duration: 2007 – 2010
- Costs: 53.6 million \$
- Source: [SANRAL \(2010\)](#)

10. N3: Marianhill to Key Ridge

- Province: KwaZulu–Natal
- Duration: 2007/2008 – 2010
- Costs: 12.7 million \$
- Source: [SANRAL \(2008, 2009, 2010\)](#)

11. N2: Umdloti Interchange zo Tongaat Toll Plaza

- Province: KwaZulu–Natal
- Duration: 2011 – 2014
- Costs: 55.7 million \$
- Source: [SANRAL \(2014\)](#)

12. N2: Replacement of block paving at three toll plazas: Mtunzini, Mvoti and Oribi

- Province: KwaZulu–Natal
- Duration: 2010 – 2012
- Costs: 10.2 million \$
- Source: [SANRAL \(2012\)](#)

Toll roads operated by concessionaires

13. N1: Pretoria to Bela–Bela

- Operated by: Bakwena Platinum Corridor Concessionaire
- Provinces: Gauteng, Limpopo
- Subprojects:

- 13.1. Pumulani Plaza to Bela–Bela Interchange
 - Duration: 2010 – 2011 (Phase 1)

- Costs: 68.4 million \$ (total for all phases)

13.2. Proefplaas Interchange to Zamnbezi Interchange

- Duration: 2011 – 2013

- Costs: 32.7 million \$

- Source: [SANRAL \(2011, 2012, 2013\)](#)

14. N4: Pretoria to the Botswana border

- Operated by: Bakwena Platinum Corridor Concessionaire

- Provinces: Gauteng, North West

- Projects:

14.1. R512 West to Marikana Interchange

- Duration: 2010 – 2014

- Costs: 68.4 million \$ (total for all phases)

14.2. Kameeldrift Interchange to Garankuwa Interchange

- Duration: 2012 – 2013

- Costs: 9.5 million \$

- Source: [SANRAL \(2011, 2012, 2013, 2014, 2015\)](#)

15. N3: Heidelberg to Cedara

- Operated by: N3 Toll Concession

- Provinces: Gauteng, Mpumalanga, Free State, KwaZulu–Natal

- Projects:

15.1. Repair and rehabilitation:¹⁵ 107.2 million \$

15.2. Additional projects

- Howick to Nottingham Road, Keeversfontein to Harrismith

- * Duration: – 2013

- * Costs: 13.7 million \$

- Villiers to Heidelberg

- * Duration: – 2013

- * Costs: 13.7 million \$

- Source: [SANRAL \(2011, 2012, 2013\)](#)

16. N4 East: Gauteng to the Port of Maputo in Mozambique

- Operated by: Trans African Concessions

- Provinces: Gauteng, Mpumalanga

- Projects:

¹⁵This information refers to the period: 2010 – 2013. For the years until 2010, no numbers are provided in the reference source.

16.1. Middleburg to N11 Hendrina Interchange

- Duration: 2012 – 2014
- Costs: 24.5 million \$

16.2. Schagen to Nelspruit

- Duration: 2011 – 2012
- Costs: 23.3 million \$

16.3. Lydenburg to Montrose Intersection

- Duration: 2012 – 2014
- Costs: 27.6 million \$

- Source: [SANRAL \(2011, 2012, 2013\)](#)

Non-toll network

17. N3: New England Road (near Pietermaritzburg): new bridge

- Province: KwaZulu–Natal
- Duration: 2008 – 2009
- Costs: 3.3 million \$
- Source: [SANRAL \(2008\)](#)

18. N5: Paul Roux to Senekal

- Province: Free State
- Duration: – 2007
- Costs: 17.2 million \$
- Source: [SANRAL \(2008\)](#)

19. N2: Empangeni to Msunduzi River

- Province: KwaZulu–Natal
- Duration: – 2008
- Costs: 2.2 million \$
- Source: [SANRAL \(2008\)](#)

20. N1: Orange River to Springfontein

- Province: Free State
- Duration: 2007 – 2009
- Costs: 35.6 million \$
- Source:
 - [SANRAL \(2009\)](#)

- <http://www.engineeringnews.co.za/article/r300-million-tender-for-n1-construction-and-rehabilitation-2010-12-03>

21. N2: Ibika to Tetyana

- Province: Eastern Cape
- Duration: 2007 – 2008
- Costs: 12.2 million \$
- Source:
 - SANRAL (2009)
 - http://www.nra.co.za/live/content.php?Session_ID=4fcd37b91db72edf904ffa31df1dc709&Item_ID=204

22. N5: Senekal to Vaalpensspruit

- Province: Free State
- Duration: 2007 – 2009
- Source: SANRAL (2009)

23. N6: Jamestown to Aliwal North

- Province: Eastern Cape
- Duration: 2006 – 2009
- Source: SANRAL (2009)

24. N10: Tarka Bridge to Cradock

- Province: Eastern Cape
- Duration: 2006 – 2009
- Source: SANRAL (2009)

25. N11: Ingogo Station to Kwaggasnek

- Province: KwaZulu–Natal, Free State
- Duration: 2008 – 2010
- Source: SANRAL (2009)

26. N2: Blue Water/Kei Mouth Intersection to Komga t–junction

- Province: Eastern Cape
- Duration: 2009 – 2010/2011
- Costs: 30.1 million \$
- Source: SANRAL (2010)

27. N2: Mthatha to Nquadu Forest

- Province: Eastern Cape
- Duration: 2008 – 2009
- Costs: 23.9 million \$
- Source: [SANRAL \(2010\)](#)

28. R300: Swartklip Interchange (N2) to Stellenberg Interchange (N1)

- Province: Western Cape
- Duration: 2008 – 2010
- Costs: 82.1 million \$
- Source:
 - [SANRAL \(2010\)](#)
 - <http://www.iol.co.za/news/south-africa/capes-deadly-r300-to-get-upgrade-397452>

29. N1: Springfontein to Trompsburg

- Province: Free State
- Duration: 2009 – 2011
- Costs: 19.6 million \$
- Source: [SANRAL \(2011\)](#)

30. N7: Piekenierskloof Pass (between Piketberg and Citrusdal)

- Province: Western Cape
- Duration: 2010 – 2012
- Costs: 21.9 million \$
- Source: [SANRAL \(2011, 2012\)](#)

31. N10: Paterson to Olifantskop Pass

- Province: Eastern Cape
- Duration: 2010 – 2011
- Costs: 10.3 million \$
- Source: [SANRAL \(2011\)](#)

32. N11: Newcastle to Ingogo Station

- Province: KwaZulu–Natal
- Duration: 2007 – 2011
- Costs: 15.2 million \$

- Source: [SANRAL \(2011\)](#)
33. N2: Mass Kolnik Interchange upgrade (near Umbogintwini)
- Province: KwaZulu–Natal
 - Duration: 2010 – 2011
 - Costs: 10.5 million \$
 - Source: [SANRAL \(2011\)](#)
34. N2: Umgeni/Inada Road Interchange upgrade
- Province: KwaZulu–Natal
 - Duration: 2008 – 2010
 - Costs: 18.4 million \$
 - Source: [SANRAL \(2011\)](#)
35. N3: Chota Motala Interchange upgrade
- Province: KwaZulu–Natal
 - Duration: 2010 – 2012
 - Costs: 33.7 million \$
 - Source: [SANRAL \(2011\)](#)
36. N2: Ballito Interchange upgrade
- Province: KwaZulu–Natal
 - Duration: 2011 – 2014
 - Costs: 15 million \$
 - Source:
 - [SANRAL \(2012, 2013\)](#)
 - <http://northcoastcourier.co.za/21541/its-almost-over-2/>
37. N8: Interchange and Overpass at Thaba Nchu
- Province: Free State
 - Duration: 2011 – 2013
 - Costs: 14.9 million \$
 - Source: [SANRAL \(2012\)](#)
38. N9: Carlton Heights to Wolwefontein
- Province: Eastern Cape
 - Duration: 2010 – 2013

- Costs: 48.3 million \$
 - Source: [SANRAL \(2012\)](#)
39. N9: Wolwefontein to Colesberg and new N1/N9 Interchange at Colesberg
- Province: Eastern Cape, Northern Cape
 - Duration: 2011 – 2014
 - Costs: 55.8 million \$
 - Source:
 - [SANRAL \(2012, 2014\)](#)
 - http://www.nra.co.za/live/content.php?Session_ID=7e492f3414079747c6563dbda679773e&Item_ID=4775
40. N2: KwaMashu Interchange upgrade
- Province: KwaZulu–Natal
 - Duration: 2012 – 2013
 - Costs: 6.8 million \$
 - Source:
 - [SANRAL \(2013\)](#)
 - [KwaMashu Interchange Upgrade \(2014\)](#)
41. N2: Mthatha Bridge
- Province: Eastern Cape
 - Duration: 2011 – 2013
 - Costs: 14.1 million \$
 - Source: [SANRAL \(2013\)](#)

Public Transport Projects

Related to the 2010 World Cup

1. Rea Vaya: Bus Rapid Transit System (Johannesburg)

- Province: Gauteng, Municipality: City of Johannesburg Metropolitan
- Duration: 2007 – 2009 (Phase 1A), 2009 – 2013 (Phase 1B)
- Costs: 410.6 million (Phase 1A + 1B)
- Source:
 - http://mirror.unhabitat.org/downloads/docs/7997_81569_Rea_Vaya.pdf
 - <http://www.reavaya.org.za/component/content/article?id=475:rea-vaya-comprehensive-project-update>
 - <http://reavaya.org.za/news-archive/october-2013/926-phase-1b-on-the-road>

2. MyCiTi: Bus Rapid Transit System (Cape Town)

- Province: Western Cape, Municipality: City of Cape Town Metropolitan
- Duration: 2008 – 2013 (Phase 1A)
- Costs: 629.5 million \$ (Phase 1A)
- Source:
 - http://myciti.org.za/docs/1029/Highlights_2010_MyCiTi_Business_Plan.pdf
 - <http://myciti.org.za/docs/885/MyCiTi%20Stakeholder%20Guide%20-%20January%202013.pdf>

3. Integrated Public Transport System (IPTS) in Port Elizabeth¹⁶

- Province: Eastern Cape, Municipality: Nelson Mandela Bay Metropolitan
- Duration:
 - 2008 – 2010: Partial implementation of the IPTS (Route: Central Business District – Nelson Mandela Bay Stadium)
 - 2010 – 2013: Further construction; extension to 6 routes in total
 - 2013: Start of the IPTS pilot project
- Costs: 273.7 million \$
 - 2012/2013: 46.5 million \$
 - 2013/2014: 51.9 million \$
- Source:
 - <http://www.2010worldcupimpact.info/2010/06/24/fast-bus-lanes-for-port-elizabeth/>

¹⁶This project was excluded from the analysis of the paper. A detailed explanation for this choice is provided in Section 2 of this document.

- <http://legacy.nelsonmandelabay.gov.za/Content.aspx?objID=547>
- <http://www.daec.co.za/news-article-view/speech-notes-by-marshall-von-buchenroder-on-consideration-of-budget-vote-of-the-department-of-transport-04-june-2015/1207>
- Nelson Mandela Bay Municipality (2013)
- Nelson Mandela Bay Municipality (2014)

4. Mangaung Intermodal Public Transport Facility (Bloemfontein)

- Province: Free State, Municipality: Mangaung Metropolitan
- Duration: 2009 – 2010
- Costs: 54.7 million \$
- Source:
 - <http://www.smec.com/Default.aspx?aProjId=915>
 - <http://truspace.wix.com/home#!project-mitf/gfwb5>

Unrelated to the 2010 World Cup

5. A Re Yeng: Tshwane Bus Rapid Transit System

- Province: Gauteng, Municipality: City of Tshwane Metropolitan
- Duration: 2012 – 2014 (Phase 1A)
- Costs: 479 million \$ (all phases)
- Source:
 - <http://www.engineeringnews.co.za/article/tshwane-starts-construction-on-r26bn-brt-system-2012-07-11>
 - <http://www.globalmasstransit.net/archive.php?id=13365>
 - <http://www.tshwanetransit.net/a-re-yeng-inception-phase-launched/>

6. Yarona: Rustenburg Bus Rapid Transit System

- Province: North West, Municipality: Rustenburg Local
- Duration: 2012 – 2016 (Phase 1)
- Costs: over 410.6 million \$
- Source:
 - <http://www.rustenburgrapidtransport.co.za/Rustenburg%20Rapid%20Transport-project-timeline.html>
 - <http://www.engineeringnews.co.za/article/rustenburg-rapid-transport-project-south-africa-2013-04-05>

Rail Projects

1. Gautrain

- Province: Gauteng
- Duration: 2006 – 2010 (Phase 1), 2011/2012: End of Phase 2
- Costs: 3.4 billion \$
- Source: <http://www.engineeringnews.co.za/article/countdown-begins-as-gautrain-steams-towards-june-deadline-2011-05-27>
- <http://www.engineeringnews.co.za/print-version/gautrain-rapid-rail-link-south-africa-2015-07-31>

2. Durban Moses Mahbida Station (new construction)

- Province: KwaZulu–Natal, Municipality: eThekweni Metropolitan
- End: 2010
- Costs: 20.5 million \$
- Source: *PRASA Ready to Roll With Revamped Orlando Station (2010)*

3. Cape Town Century Station (new construction)

- Province: Western Cape, Municipality: City of Cape Town Metropolitan
- End: 2010
- Costs: 7.9 million \$
- Source: *PRASA Ready to Roll With Revamped Orlando Station (2010)*

Refurbished Urban Railway Stations

4. Cape Town

- Jointly with the refurbishment of the stations: Athlone, Heideveld, Langa
- Province: Western Cape, Municipality: City of Cape Town Metropolitan
- End: 2010
- Costs: 65.4 million \$
- Source:
 - *PRASA Launches New Moses Mahbida Station (2010)*
 - *PRASA Ready to Roll With Revamped Orlando Station (2010)*

5. Athlone (Cape Town): see 4

6. Heideveld (Cape Town): see 4

7. Langa (Cape Town): see [4](#)
8. Langlaagte (Johannesburg)
 - Jointly with the refurbishment of the stations: New Canada, Nasrec/Soccer City, Orlando, Ellis Park, Doornfontein, Rhodesfield
 - Province: Gauteng, City of Johannesburg Metropolitan
 - End: 2010
 - Costs: 45.7 million \$
 - Source: *PRASA Ready to Roll With Revamped Orlando Station* (2010)
9. New Canada (Johannesburg): see [8](#)
10. Nasrec/Soccer City (Johannesburg): see [8](#)
11. Orlando (Johannesburg): see [8](#)
12. Ellis Park (Johannesburg): see [8](#)
13. Doornfontein (Johannesburg): see [8](#)
14. Rhodesfield (Johannesburg): see [8](#)
15. Loftus (Pretoria)
 - Jointly with the refurbishment of the Belle Ombre Station
 - Province: Gauteng, City of Johannesburg Metropolitan
 - End: 2010
 - Costs: 2.7 million \$
 - Source: *PRASA Ready to Roll With Revamped Orlando Station* (2010)
16. Belle Ombre (Pretoria): see [15](#)
17. Durban Kwa–Mnyandu
 - Jointly with the refurbishment of the stations: Durban KwaMashu, Reunion
 - Province: KwaZulu–Natal, Municipality: eThekweni Metropolitan
 - End: 2010
 - Costs: 7.7 million \$
 - Source: *PRASA Ready to Roll With Revamped Orlando Station* (2010)
18. Durban KwaMashu: see [17](#)
19. Reunion (Durban): see [17](#)
20. North End

- Province: Eastern Cape, Municipality: Nelson Mandela Bay Metropolitan
- End: 2010
- Costs: 2.2 million \$
- Source: *PRASA Ready to Roll With Revamped Orlando Station* (2010)

21. Rustenburg

- Province: North West
- Source: [HSRC](#) (2011)

Other Transport and Logistics Projects

Unrelated to the 2010 World Cup

1. Coega Industrial Development Zone (IDZ)

- Province: Eastern Cape, Municipality: Nelson Mandela Bay Municipality
- Established in 1999
- Costs: 629.5 million \$ (until 2014)
- Source:
 - [National Treasury: Republic of South Africa \(2014a\)](#)
 - <http://www.coega.co.za/Content.aspx?objID=85>

2. East London Industrial Development Zone (IDZ)

- Province: Eastern Cape, Municipality: Buffalo City Metropolitan
- Established in 2001
- Costs: 180 million \$ (until 2014)
- Source: [National Treasury: Republic of South Africa \(2014a\)](#)

3. Port of Ngqura

- Province: Eastern Cape, Municipality: Nelson Mandela Bay Municipality
- Duration:
 - 2002 – 2009: New construction
 - 2009 – 2015: Container terminal development
- Costs:
 - New construction: over 1.4 billion \$
 - Container terminal development: 273.7 million \$ (until 2015)
- Source:
 - <http://www.transnetnationalportsauthority.net/OurPorts/Ngqura/>
 - <http://www.iol.co.za/business/news/upgraded-ngqura-terminal-opened-1829403>

4. Durban Port upgrade and expansion (Phase 1: planned for 2010 – 2020)

- Province: KwaZulu–Natal, Municipality: eThekweni Metropolitan
- Overall costs: over 1.5 billion \$
- Source:
 - [TRANSNET and eThekweni Municipality \(2010\)](#)
- Projects:
 - 4.1. Durban harbor entrance widening

- Duration: 2007 – 2010
 - Costs: 386.9 million \$
 - Source: *Durban Harbour Entrance Widening* (2010)
- 4.2. Durban Car Terminal expansion: Phase 1
- Duration: Completed 2008
 - Source: <http://www.engineeringnews.co.za/print-version/durban-port-upgrade-south-africa-2008-11-28>
- 4.3. New container terminal (DCT2) at Pier 1
- Duration: Completed 2008
 - Costs: 273.7 million \$
 - Source:
 - * <http://www.medioclubsouthafrica.com/economy/1167-durban-harbour-050609>
 - * <http://www.engineeringnews.co.za/print-version/durban-port-upgrade-south-africa-2008-11-28>
- 4.4. Pier 2 Durban Container Terminal (DCT1) re-engineering
- Duration: 2012 – 2013
 - Costs: 94.8 million \$
 - Source: *KwaZulu–Natal Provincial Planning Commission* (2013)
- 4.5. Pier 2 North Quay cranes
- Duration: 2011 – 2013
 - Costs: 20.5 million \$
 - Source: *KwaZulu–Natal Provincial Planning Commission* (2013)
- 4.6. Reconstruction of Island View berths 2 and 5
- Duration: Completed 2012 (Berth 2), 2013 (Berth 5)
 - Costs: 85.7 million \$
 - Source: <http://www.iol.co.za/mercury/upgrades-for-durban-port-1235828>
- 4.7. Maydon Wharf redevelopment: Phase 1
- Duration: 2011 – 2012
 - Source: <http://www.engineeringnews.co.za/article/transnet-moves-ahead-with-maydon-wharf-upgrade-plan-2013-09-10>
- 4.8. Khangela Bridge
- Duration: 2007 – 2009
 - Costs: 24.6 million \$
 - Source:
 - * *Khangela Bridge and Roads Project* (2010)
 - * *TRANSNET* (2010)
- 4.9. Bayhead Road upgrade
- Duration: 2010 – 2012
 - Costs: 37 million \$

– Source: *Exceptional Safety Achievement 'against All Odds'* (2013)

5. Richards Bay Coal Terminal upgrade (Phase 5)

- Province: KwaZulu–Natal, Municipality: uMhlatuze Metropolitan
- Duration: 2006 – 2010
- Costs: 164.2 million \$
- Source:
 - <http://www.rbct.co.za/about-rbct-4/our-history/>
 - <http://www.engineeringnews.co.za/article/richards-bay-coal-terminal-expansion-and-coal-line-south-africa-2009-02-06>

6. Cape Town port upgrade: Phase 1

- Duration: 2008 – 2012
- Costs: 739 million \$
- Source:
 - <http://www.engineeringnews.co.za/article/work-starts-on-r42bn-containerterminal-upgrade-at-cape-town-2008-01-25>
 - <http://www.engineeringnews.co.za/print-version/cape-town-port-infrastructure-upgrade-and-expansion-south-africa-2009-10-16>

7. Saldanha Iron Ore Terminal expansion

- Duration: Completed 2005 (Phase 1A), 2009 (Phase 1B), 2012 (Phase 1C)
- Costs: 793.7 million \$ (Phase 1A + 1B), 588.5 million \$ (Phase 1C)
- Source:
 - TRANSNET (2013)
 - <http://www.engineeringnews.co.za/article/saldanha-bulk-iron-ore-terminal-expansion-to-be-completed-in-june-2011-2010-04-16>
 - <http://www.engineeringnews.co.za/print-version/ironore-export-channel-expansion-programme-south-africa-2008-08-08>

8. Port Elizabeth – refurbishment of the manganese export facility

- Duration: 2008 – 2010
- Costs: 82.1 million \$
- Source:
 - <http://www.engineeringnews.co.za/article/port-elizabeth-pe-manganese-terminal-refurbishment-south-africa-2008-06-06>
 - TRANSNET (2012)

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