



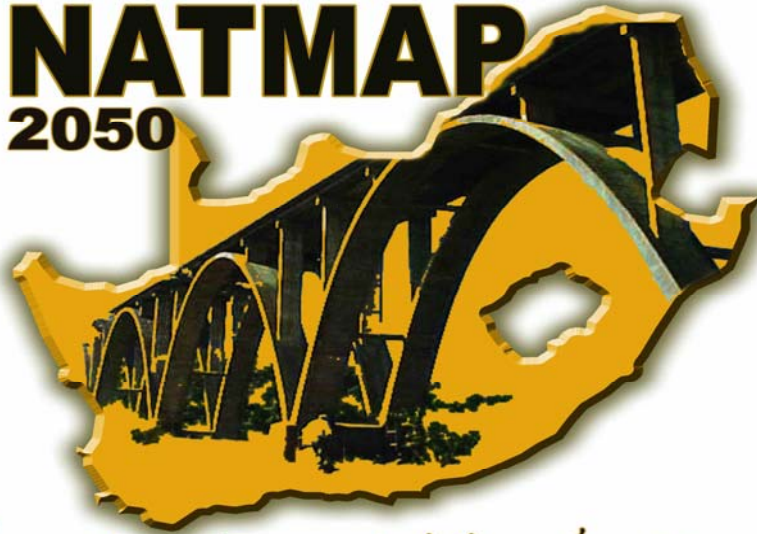
transport

Department:
Transport
REPUBLIC OF SOUTH AFRICA



National Transport Master Plan

NATMAP 2050



You pay for good transport whether you've got it or not

KWAZULU NATAL PROVINCE

PHASE 4: AGENDA FOR ACTION

Draft Version 1: February 2010
REFERENCE No: KZN/PH4/FEB.10



TABLE OF CONTENTS

| | | |
|-------|-----------------------------------------------------|----|
| 1 | INTRODUCTION..... | 1 |
| 1.1 | BACKGROUND..... | 1 |
| 1.2 | PURPOSE OF THE REPORT..... | 1 |
| 1.3 | OBJECTIVES OF THE PROJECT..... | 2 |
| 1.4 | METHODOLOGY..... | 3 |
| 1.5 | PROJECT MANAGEMENT AND CONSULTATION..... | 4 |
| 1.6 | STRUCTURE OF THIS REPORT..... | 4 |
| 2 | STRATEGIC DEVELOPMENT PROGRAMME..... | 5 |
| 2.1 | INTRODUCTION..... | 5 |
| 2.2 | PRIORITISATION PROCESS..... | 5 |
| 2.2.1 | Policy, Goals and Objectives..... | 5 |
| 2.2.2 | Approach Selection..... | 7 |
| 2.2.4 | Goal Achievement Matrix..... | 19 |
| 2.2.5 | Project Descriptions..... | 19 |
| 2.3 | PROJECTS AND PROGRAMMES..... | 20 |
| 2.4 | CRITICAL PROJECTS..... | 20 |
| 2.4.1 | Identification of Provincial Critical Projects..... | 20 |
| 3 | LEGAL, INSTITUTIONAL AND FINANCIAL PROGRAMME..... | 22 |
| 3.1 | POLICY AMENDMENTS..... | 22 |
| 3.2 | INSTITUTIONAL ARRANGEMENTS..... | 22 |
| 3.2.1 | Introduction..... | 22 |
| 3.2.2 | Proposed new institutions..... | 23 |
| 3.2.3 | Proposed changes to existing institutions..... | 23 |
| 3.2.4 | Implications of proposed institutional changes..... | 24 |
| 3.3 | LEGISLATIVE REVISIONS..... | 25 |
| 3.3.1 | Approach to Phase 4..... | 25 |
| 3.3.2 | Legal issues: new institutions..... | 25 |
| 3.3.3 | Implications of proposed legislative changes..... | 34 |
| 3.4 | FINANCE AND FUNDING ARRANGEMENTS..... | 35 |
| 3.4.1 | NATMAP 2050 Financing Framework..... | 35 |
| 3.4.2 | Expenditure Requirement of NATMAP Projects..... | 38 |
| 3.4.3 | Comparison of Revenue And Expenditure..... | 44 |
| 3.5 | IMPLEMENTATION..... | 46 |
| 4 | SUMMARY AND CONCLUSIONS..... | 47 |

LIST OF FIGURES

| | |
|-----------------------------------------------------------------------------|----|
| Figure 1.4.1: National Transport Master Plan 2050: Project Methodology..... | 3 |
| Figure 2.2.1: Evaluation Framework Requirements | 8 |
| Figure 2.2.2: Project Prioritisation Process | 11 |
| Figure 2.2.3: Multi-Criteria Analysis Model Development Approach | 16 |
| Figure 2.2.4: Determining MCA Preferences / Weights | 17 |
| Figure 2.4.1: Main existing corridors and new emerging corridors..... | 21 |

LIST OF TABLES

| | |
|-----------------------------------------------------------------------------------------------------------------|----|
| Table 3.2.1: Summary of the proposed financial and time implications of the proposed institutional changes..... | 25 |
| Table 3.3.1: Proposed financial and time implications of the recommended legislative changes..... | 35 |
| Table 3.4.1: Expenditure requirement of NATMAP National Projects..... | 39 |
| Table 3.4.2: Expenditure requirements of all NATMAP Provincial projects | 40 |
| Table 3.4.3: Comparison of Revenue and Expenditure | 44 |

LIST OF ADDENDA

Addendum A1: Project Descriptions for KZN Province

Addendum A2: Project Descriptions for National Projects

Addendum A3: Project Descriptions for Institutional projects

Addendum B1: Goal Achievement Ratings for KZN Provincial Projects

Addendum B2: Goal Achievement Ratings for National Projects

Addendum C1: Project Expenditure Programme for KZN Provincial Roads

Addendum C2: Project Expenditure Programme for KZN Provincial Rail

Addendum C3: Project Expenditure Programme for KZN Provincial Ports and Airports

Addendum C4: Project Expenditure programme for National Projects

Addendum D: Funding Sources

GLOSSARY OF TERMS

| | |
|--------|-------------------------------------------------|
| AADT | Average Annual Daily Traffic |
| AADTT | Annual average Daily Truck Traffic |
| ACSA | Airports Company South Africa |
| ADT | Average Daily Traffic |
| AGOA | African Growth and Opportunity |
| AGISA | Accelerated & Shared Growth Initiative for SA |
| AIDS | Acquire Immunodeficiency Syndrome |
| AMPS | Annual All Media Products Survey |
| ARTS | Refuse Transfer Station at Athlone |
| ASGISA | Accelerated and Shared Growth Initiative |
| ATNS | Air Traffic and Navigation Services Company |
| AVR | Abnormal Vehicle Register System |
| AVTUR | Aviation/Turbine Fuel |
| BBBEE | Broad Based Black Economic Empowerment |
| BEE | Black Economic Empowerment |
| BMR | Bureau of Market Research |
| BMS | Bridge Management System |
| BRT | Complete Lansdowne Corridor |
| BSP | Background and Strategy Paper |
| CARNS | Community Access Needs Roads Study |
| CBD | Central Business District |
| CBPWP | Community - Based Public Works Programme |
| CD | Chief Director |
| CFO | Chief Financial Officer |
| CIBD | Construction Industry Development Board |
| CMIP | Consolidated Municipal Infrastructure Programme |
| COCT | City of Cape Town |
| COTO | Committee of Transport Officials |
| CPPK | Cost per passenger kilometre |
| CPK | Central Processing Facility |
| CPs | Minor roads |
| CPTR | Current Public Transport Record |
| CSIR | Council of Scientific and Industrial Research |
| CTC | Centralised Train Control |
| CTIA | Cape Town International Airport |
| DBSA | Development Bank of South Africa |
| DBT | Dry Bulk Terminal |
| DDG | Deputy Director General |
| DEAT | Department of Environmental Affairs and Tourism |
| DG | Director General |
| DLTS | Driving License Testing System |
| DJP | Durban to Johannesburg Pipeline |
| DNA | District Management Area |
| DOT | Department of Transport |
| DPLG | Department of Provisional and Local Government |
| DPWRT | Department of Public Works, Roads and Transport |
| DRs | Divisional roads |
| DWAF | Department of Water Affairs and Forestry |
| ECDC | Eastern Cape Development Co-orporation |

| | |
|--------|---------------------------------------------------------|
| EEI | Economic Employment & Investment Cluster |
| ELMET | East London Metropolitan Area |
| EPWP | Expended Public Works Programme |
| ESRI | Environmental Systems Research Institute |
| EU | European Union |
| FDI | Foreign Direct Investment |
| FES | Financial and Economic Support |
| FET | Further Education and Training |
| FFC | Finance & Fiscal Commission |
| FIFA | International Federation of Association of Football |
| FOHOD | Forum of Heads of Department |
| FTP | File Transfer Protocol |
| FTPD | Freight Transport Policy Development |
| FSPG | Free State Provincial Government |
| gJ | Gigajoules |
| GDP | Gross Domestic Product |
| GDPtrw | Gauteng Department of Public Transport, Roads and Works |
| GEMS | Government Employee Medical Scheme |
| GIS | Geographic Information System |
| GM | General Manager |
| GTL | Gas-to-liquid |
| GVA | Gross Value Add |
| HCDS | Human Capital Development Strategy |
| HDI | Human Development Index |
| HGVs | Heavy Goods Vehicles |
| HIV | Human Immunodeficiency Virus |
| HOD | Head of Department |
| HR | Human Resources |
| HVs | Heavy Vehicles |
| HWM | High Water Mark |
| IA | Implementing Authority |
| IASC | International Air Services Council |
| IATA | International Air Transport Association |
| ICAO | International Civil Aviation Organisation |
| ICT | Information and Commercialization Technologies |
| IDIP | Infrastructure Delivery Improvement Programme |
| IDP | Integrated Development Plan |
| IDP | Integrated Development Planning |
| IDT | Independent Development Trust |
| IDZ | Industrial Development Zone |
| IEA | Infrastructure Enhancement Allocation |
| ILRP | Integrated Law Reform Project |
| IMF | International Monetary Fund |
| IMT | Intermediate Means of Transport |
| IN | Inland Network |
| IP&C | Infrastructure Planning and Coordination |
| ISRDP | Integrated and Sustainable Rural Development Programme |
| ISRDS | Integrated Sustainable Rural Development Strategy |
| IS | Information Systems |
| IT | Information Technology |
| ITMS | Inter Technology Manage System |
| ITP | Integrated Transport Plan |

| | |
|--------|------------------------------------------------------------------|
| ITS | Intelligent Transport Systems |
| JIA | Johannesburg International Airport |
| Km | Kilometres |
| KMIA | Kruger Mpumalanga International Airport |
| KPI | Key Performance Indicators |
| KZN | KwaZulu-Natal |
| LDO | Local Development Objectives |
| LDV | Light Delivery Vehicle (Bakkie) |
| LED | Local Economic Development |
| LEDs | Local Economic Development Strategies |
| LRTB | Local Road Transportation Board |
| LTL | Less-than-truck load |
| LTP | Land Transport Promotion |
| LTPS | Land Transport Permit System |
| MEC | Member of Executive Council |
| MEC | Member of the Executive Committee |
| MEDS | Microeconomic Development Strategy |
| MELD | Mdantsane East London Development |
| MGJ | Million Gigajoules |
| MINCOM | Ministerial Committee of Provincial Transport Ministers |
| MINMEC | Ministers and Members of the Executive Council |
| MIS | Management Information System |
| MML | Minimum Living Level |
| MPCC | Multi-Purpose Community Centres |
| MPT | Multi-purpose Terminal |
| MRs | Main roads |
| MSA | Moving South Africa |
| MTA | Metropolitan Transport Area |
| MTAs | Metropolitan Transport Areas |
| MTEF | Medium Term Expenditure Framework |
| MTT | Marine Tanker Terminal |
| NAAMSA | National Association of Automobile Manufacturers of South Africa |
| NAMPO | National Maize Product Organization |
| Natcor | Natal Corridor |
| NATIS | National Traffic Information System |
| NATMAP | National Transport Master Plan |
| NATMAP | National Roads Masterplan |
| NATMAP | National Land Us / Transport Master Plan |
| NDA | National Development Agency |
| NDoT | National Department of Transport |
| NEPAD | New Partnership for Africa's Development |
| NHTS | National Household Travel Survey |
| NLTSF | National Land Transport Strategic Frameworks |
| NLTTA | National Land Transport Transition Act |
| NMT | Non-motorized Transport |
| NMPP | New Multi-Products Pipeline |
| NPA | National Ports Authority |
| NRTDS | National Rural Transport and Development Strategy |
| NSDP | National Spatial Development Perspective |
| NSG | National Standards and Guidelines |
| NTTT | National Taxi Task Team |
| O-D | Original Destination |

| | |
|----------|---------------------------------------------------------------------------------------------------------|
| OEMs | Original Equipment Manufacturers |
| OLAS | Operating License Administration System |
| OLB | Operating Licence Board |
| OLS | Operating License Strategy |
| Orex | Operations and Spoornet |
| ORTIA | Oliver Tambo International Airport |
| PA | Planning Authority |
| PE | Port Elizabeth |
| PEMET | Port Elizabeth Metropolitan Area |
| PFMA | Public Finance Management Act |
| PFMA | Provisional Finance Management Act |
| PGDS | Provincial Growth and Development Strategy |
| PGWC | Provincial Government Western Cape |
| PIG | Provincial Infrastructure Grant |
| PIMSS | Planning and Implementation Management Support System |
| PLTF | Provincial Land Transport Framework |
| PMS | Pavement Management System |
| PMU | Project Management Unit |
| PPP | Public Private Partnership |
| PPECB | Perishable Products Export Control Board |
| PROVTECH | Provincial form with Technical / Official representatives from all local municipalities in the Province |
| PSDF | Provincial Spatial Development Framework |
| PTOE | Public Transport Operating Entity |
| PTP | Public Transport Plan |
| PTPD | Passenger Transport Policy Development |
| PTPD | Passenger Transport Policy Development (Monitoring & Evaluation) |
| RAU | Rand Afrikaans University |
| RBCT | Richards Bay Coal Terminal |
| RDA | Rural Development Agency |
| RIDS | Regional Industrial Development Strategy |
| RIM | Road Infrastructure Management |
| RNIS | Road Network Information System |
| RO | Rail Operations |
| RSA | Republic of South Africa |
| RTA | Rural Transport Authority |
| RTI | Rural Transport Infrastructure |
| RTO | Ratio Train Order |
| RTS | Rural Transport Services |
| SBM | Single Buoy Mooring |
| SA | South African |
| SAARF | South African Advertising Research Foundation |
| SACAA | South African Civil Aviation Authority |
| SADC | South African Development Community |
| SAMSA | South African maritime Safety Authority |
| SANRAL | South African National Roads Agency |
| SARCC | South African Rail Commuter Corporation |
| SATAWU | South African Transport and Allied Workers |
| SC | Steering Committee |
| SCM | Supply Chain Management |
| SCS | Social Capital Strategy |
| SDF | Spatial Union Development Framework |

| | |
|---------|-------------------------------------------------------|
| SDIP | Sustainable Development Implementation Plan |
| SDIs | Spatial Development Initiatives |
| SFF | Strategic Fuel Fund |
| SHSS | Sustainable Human Settlements Strategy |
| SIP | Strategic Infrastructure Plan |
| SMF | Supervising and Monitoring Firm |
| SMME | Small Medium Micro Enterprise |
| SOW | Scope of Work |
| SP | Safety Promotions |
| SSATP | Sub-Sahara African Transport Programme |
| SSS | Scarce Skills Strategy |
| StatsSA | Statistics South Africa |
| TA | Transport Authority |
| TETA | Transport Education Training Authority |
| TFR | Transnet Freight Rail |
| TIA | Traffic Impact Assessment |
| ToR | Terms of Reference |
| TPR | Transport Planning Requirement |
| TRs | Trunk roads |
| UDF | Urban Development Framework |
| UK | United Kingdom |
| UMET | Umtata Metropolitan Area |
| UNISA's | University of South Africa |
| USA | United States of America |
| V/C | Volume Capacity |
| VLCC | Very Large Crude Carriers |
| WC | Western Cape |
| WCPTPW | Western Cape Department of Transport and Public Works |

EXECUTIVE SUMMARY

Introduction

The South African Department of Transport (DOT) appointed the SSI Consortium in January 2007 to participate in the project *National Transport Master Plan 2050* (NATMAP).

This document serves as the **Draft Phase 4 Version 1 Report** for the Master Plan for **KwaZulu Natal Province**, and presents the results of Phase 4 (“Agenda for Action”) of the project.

Project Objectives

The project goal is to develop a dynamic, long term and sustainable land use/multi-modal transportation systems framework for the development of networks infrastructure facilities, interchange termini facilities and service delivery that shall be:

- Demand responsive to national/provincial/district and/or any socio-economic growth strategy, and/or any sectoral integrated spatial development plan;
- A coordinated implementation schedule and/or action agenda for the whole country and/or specific national and provincial spatial development corridors and regions until 2050.

Project Structure

The project consists of four phases, as follows:

- **Phase 1:** Status Quo/Inventory;
- **Phase 2:** Analysis;
- **Phase 3:** Forward Planning and Projections;
- **Phase 4:** Implementation of Action Agenda.

It is envisaged that full project completion will be reached April 2010.

Phase 4 Results

This Draft Version 1 of report of Phase 4 provides an Action Agenda, consists of an implementation plan, in terms of which the identified projects can be implemented. Projects are described and programmed into different time periods, and a Goal Achievement Matrix is applied in order to prioritise projects for implementation. Goals and objectives were formulated by means of which projects were prioritised. Financial, Institutional and Legal requirements for the successful implementation of the National Transport Master Plan is also provided.

To finalise Phase 4, another round of refinement and integration between provinces is required. The Phase 4 results will be presented to various Stakeholders at the last Round Table Conference of NATMAP, after which the final Phase 4 report will be produced.

Following final comments from KZN and national stakeholders, a final version of the reports of all Phases will be produced, which will be the conclusion of the current NATMAP project.

It is however crucial that NATMAP is implemented by all the transport authorities in the country. The DoT and public entities, SANRAL, TRANSNET, PRASA and ACSA, will have to play a crucial role to ensure that NATMAP is implemented. This first National Transport Master Plan must be regarded as only the start of a continuous process consisting of annual updates and refinement of the Plan. The proposed NATMAP Implementation Act will be crucial to facilitate coordination between all Stakeholders and effective implementation.

1 INTRODUCTION

1.1 BACKGROUND

The South African Department of Transport (DOT) appointed SSI Consortium in January 2007 to participate in the project *National Transport Master Plan 2050* (NATMAP).

This document serves as the **Draft Phase 4 Version 1 Report** for the Master Plan for **KwaZulu Natal (KZN) Province**, and presents the results of Phase 4 (“Agenda for Action”) of the project.

Project Structure

The project consists of four phases, as follows:

- **Phase 1:** Status Quo/Inventory;
- **Phase 2:** Analysis;
- **Phase 3:** Forward Planning and Projections;
- **Phase 4:** Implementation of Action Agenda.

It is envisaged that full project completion will be reached April 2010.

Under the same project, Master Plans are also being developed for all eight other provinces in the country, and for the country as a whole.

1.2 PURPOSE OF THE REPORT

The Phase 1 report described the status quo of transport and land use in the KZN province, in terms of specific inventory components, namely the following:

- Information systems;
- Demographic and socio-economic;
- Land use and development corridors;
- Existing transport infrastructure facilities;
- Passenger travel patterns and characteristics;
- Freight travel patterns and characteristics;
- Institutional structure;
- Legal structure;
- Transport funding mechanisms.

Following the status quo determination, the Phase 2 focus was on where the province and the country would like to be in future years, specifically the target year of 2050. Phase 2 therefore aimed to project the future demographic, socio-economic and land use characteristics of the province in order to understand the total demands that will be placed upon provincial and national transport infrastructure, facilities and services, as well as land use. An analysis was made of current infrastructure and operations supply, in order to identify current bottlenecks, constraints and inefficiencies.

Phase 3 translated the future demographic, socio-economic and land use characteristics into transport demand, and considered the requirements on infrastructure and operations to accommodate the projected future demand. A “Do-nothing” scenario was formulated to show the impact on service levels if no remedial measures are taken. Further scenarios were then formulated and investigated, and specific actions were recommended for implementation in order to cater for future demand and ensure adequate service levels.

The purpose of the Phase 4 report, the last report of the Project, is to describe the implementation plan, in terms of which the identified projects can be implemented. Projects are described and programmed, and a goal achievement matrix is applied in order to prioritise projects for implementation. Financial, Institutional and Legal requirements for the successful implementation of the National Transport Master Plan is also provided.

1.3 OBJECTIVES OF THE PROJECT

The project goal is to develop a dynamic, long term and sustainable land use/multi-modal transportation systems framework for the development of networks infrastructure facilities, interchange termini facilities and service delivery that shall be:

- Demand responsive to national/provincial/district and/or any socio-economic growth strategy, and/or any sectoral integrated spatial development plan;
- A coordinated implementation schedule and/or action agenda for the whole country and/or specific national and provincial spatial development corridors and regions until 2050.

The specific items that were investigated in this project are the following:

- Various land use/spatial development models to sustain investment in the state-of-the-art multi-modal urban/rural transportation systems;
- Cost effective models for an integrated public/private sector corridor/regional economic development;
- Vision, goals and objectives for each of the national development corridor and/or economic region;
- Integrated growth and development strategy for each development corridor and/or region of national importance;
- Economic status map of national importance and potential economic development projects;
- Integrated multi-modal infrastructure facilities development plan;
- Cost effective policies promulgation and/or changes to enhance coordination of transportation services;
- Cost effective institutional arrangements model for efficient and effective investment, planning, implementation, operations, maintenance and monitoring;

- Action agenda for the various key stakeholders based on the preferred development strategy and integrated development plan.

1.4 METHODOLOGY

The project consists of four phases, as follows:

- **Phase 1:** Status Quo/Inventory;
- **Phase 2:** Analysis;
- **Phase 3:** Forward Planning and Projections;
- **Phase 4:** Implementation of Action Agenda.

The project methodology is indicated graphically in **Figure 1.4.1**.

The target dates for completion of each phase are as follows:

- Phase 1 : November 2008;
- Phase 2 : March 2009;
- Phase 3 : November 2009;
- Phase 4 : February 2010.

It is envisaged that full project completion will be reached by April 2010 following the finalisation of the reports of all four phases.

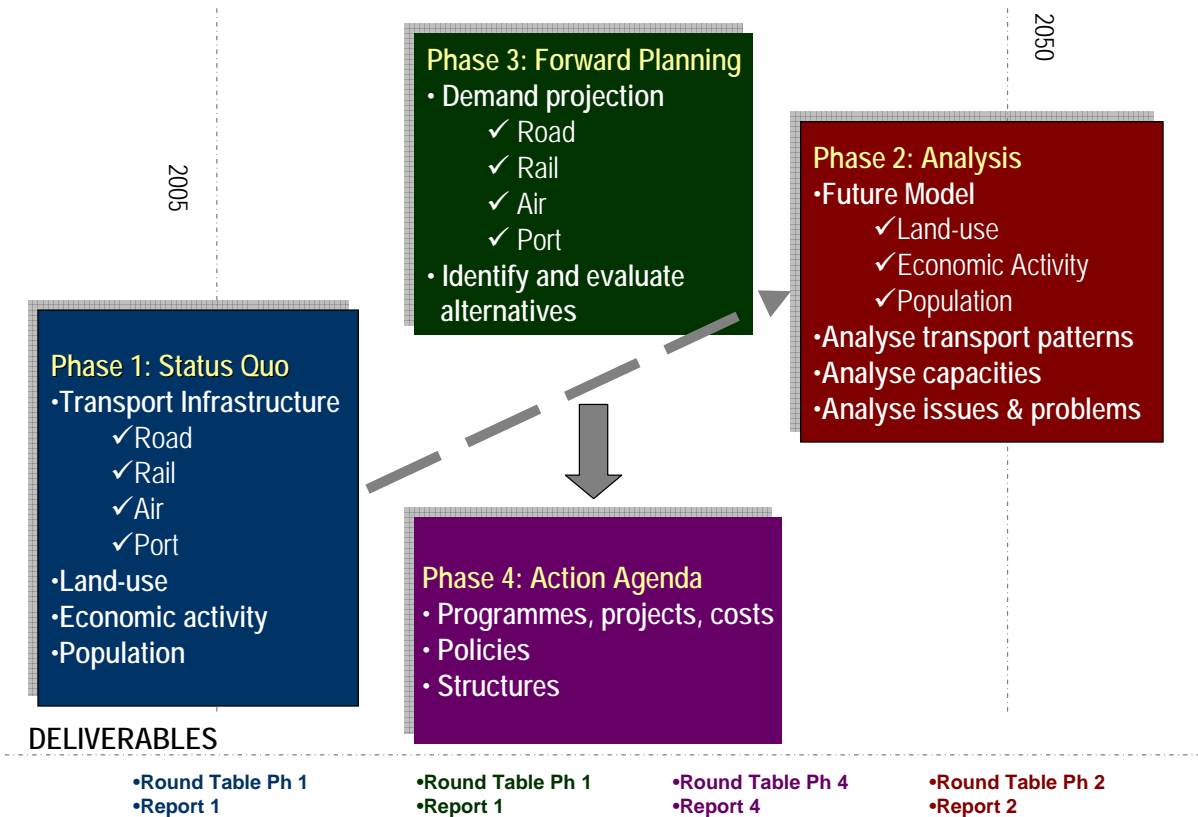


Figure 1.4.1: National Transport Master Plan 2050: Project Methodology

1.5 PROJECT MANAGEMENT AND CONSULTATION

A Provincial Technical and Financial Committee (TFC) have been established in the KZN Province, as well as a National TFC and Steering Committee. The KZN TFC committee is represented by the various Provincial Departments as well as the eTkekwini Transport Authority (ETA). The purpose of the Provincial Technical Committee is:

- To assist with data collection for the province;
- To provide guidance on technical aspects including:
 - Development corridors, development nodes and current land uses;
 - Development planning of different departments and municipalities;
 - Future scenarios for the province;
 - Assessment of proposed action plans for the province.
- To evaluate deliverables from the consultant and provide feedback;
- To communicate progress and pertinent issues of the project to their respective departments or municipalities.

The KZN TFC reports progress to the national TFC and SC on a monthly basis and also provides inputs on the management of the project.

Deliverables:

- Round Table Conference for Phases 1 to 4
- KZN Provincial Reports: Inception Report, Phase 1 to 4 reports

1.6 STRUCTURE OF THIS REPORT

The rest of the report is structured as follows:

Chapter 2 describes the Strategic Development Programme, including the Prioritisation Process, formulation of Goals and Objectives to be achieved by NATMAP, the methodology followed to develop the Goals Achievement Matrix, as well as a description of the Matrix, followed by tables providing the list of proposed projects and programmes for various time periods from 2010 to 2050.

Critical projects are also identified and described.

Chapter 3 provides the Legal, Institutional and Financial requirements in terms of policy and legislative amendments that need to be made, institutional arrangements required to implement the NATMAP Action Agenda, as well as financial requirements and funding arrangements. Finally, measures to ensure the effective and successful implementation of the National Transport Master Plan.

Chapter 4 provides a summary of the main results and conclusions of Phase 4 of the project.

2 STRATEGIC DEVELOPMENT PROGRAMME

2.1 INTRODUCTION

The Strategic Development Programme described in this Chapter includes the formulation of Goals and Objectives in view of current transport policies, development of a Goal Achievement Matrix (GAM) by means of which identified projects can be prioritised, the results of the GAM providing the priority ranking of the projects, and the programming of the projects in to various time periods. Critical projects have also been identified indicating which projects are critical to implement within the next 5 years, or for which planning needs to be done, or some action needs to be taken.

All aspects of the Development Programme and Goal Achievement Matrix have been integrated between the three Consortia in order to achieve consistency and integration between provinces.

2.2 PRIORITISATION PROCESS

2.2.1 Policy, Goals and Objectives

In order to identify, assess and prioritise projects specific policy, goals and objectives are firstly required with the aim of measuring individual projects against. According to the Vision of the National Transport Master Plan 2050, transport is aimed at meeting the needs of freight and passenger customers by 2050. Particularly in terms of promoting freight and passenger transport that is accessible, affordable, safe, of high quality, reliable, consistently being upgraded, innovative, flexible, and that strives to be and is economically and environmentally sustainable.

Freight and passenger transport based on the above principles will therefore support and enable government strategies, particularly those strategies that promote developing growth, redistribution, employment creation and social integration, both in South Africa and its Regions.

Therefore Phase 4, NATMAP, 2050 highlights three levels of action:

- **Focus the scope of the Transport System.** This will be achieved through concentrating and consolidating assets and investment on strategic national, urban and rural transport networks (high volume routes and nodes). Such Strategic Transport Networks will form the backbone of the transport system, underpinned by supporting networks.
- **Deploy Transport Modes.** Especially on strategic and supporting transport networks in order to capture the best economies of scale where possible, to meet customer needs.
- **Create an Empowering and Enabling Environment.** Create an environment where customers are empowered and where transport providers are enabled to improve efficiency, productivity and competitiveness.

As a result, the following Goals and Objectives were derived from the NATMAP, 2050 Terms of Reference to be utilised as performance measurement for identifying, analysing and prioritising projects for Phase 4:

- To provide integrated land use and transport solutions
 - Meet NSDF objectives
 - Support priority corridors
- To promote economic development
 - Minimize cost of procuring raw material and distribution of finished goods.
 - Facilitate development by increasing GDP and creating wealth
 - Meet demand ahead of supply
- To promote rural development giving priority to presidential nodes
 - Linkages between rural nodes and main economic centres
- To maximize the utilization of existing infrastructure facilities
 - Adequate funding for maintenance
 - Efficient management and operations
- To maximize the economic return on investment in transport
 - Minimise transport costs and time
 - Remove bottlenecks
 - Meet user demand
- To promote integration of transport infrastructure and services
 - Across modes (seamless transport)
 - Across provinces
 - Across borders with neighboring countries
- To minimize the impact on the environment and reduce the carbon-footprint of transport
 - Promote pass PT
 - Optimal role of rail
 - Use of low-carbon energy sources
- To provide energy-efficient transport, using energy sources that are sustainable in the long term
 - Promote pass PT
 - Optimal role of rail
 - Use of renewable energy sources
- To provide affordable transport to end users, operators and government
 - User charges / fares vs. financial resources

- Minimise subsidies to government
- Affordable to government in terms of financial resources
- Efficient funding mechanisms
- To provide transport that is equitable to all stakeholders
 - Different Income groups
 - Physically challenged
 - Different regions / provinces
 - Different operators
 - Users vs. non-users
- To develop transport infrastructure that are meeting international standards and are technological sustainable
 - Use of modern rolling stock, infrastructure and systems (std gauge rail)
 - Sustainability of supply of rolling stock, technology
 - HR expertise

The above Goals and Objectives are therefore important because, for example, a project that meets all the above goals and objectives would be given a high priority. However, due to the extent and number of the above goals and objectives, measuring each project against each one would become overcomplicated. Therefore a simplified, but not simplistic, evaluation framework was developed based on the above goals and objectives and categorised into the following six (6) categories to be used as the basis from which to identify, analyse and prioritise projects (these categories will be discussed in later sections):

- **First Order Screening**
- **Readiness**
- **Accessibility**
- **Economic Development**
- **Affordability/Financing**
- **Impact**

It is important to note that the above categories inadvertently assist with providing the basis for identifying the selection criteria in identifying potential projects as well as the basis for measuring the performance of a project and its timeframe of implementation (in terms of short-, medium-, and long-term).

2.2.2 Approach Selection

The previous section identified the Goals and Objectives that will form the basis of selecting criteria and performance measures that will ultimately ensure that a project can be identified, analysed and prioritised.

In order to prioritise projects / strategies with a mix of both competing and aligned project objectives of transport and communications into one unified list of projects, a project evaluation methodology was sought that could take into account a number of qualitative and quantitative aspects simultaneously, and which can accommodate changes in planning emphasis and project life-cycle implications over time (Refer to Figure 2.2.1)

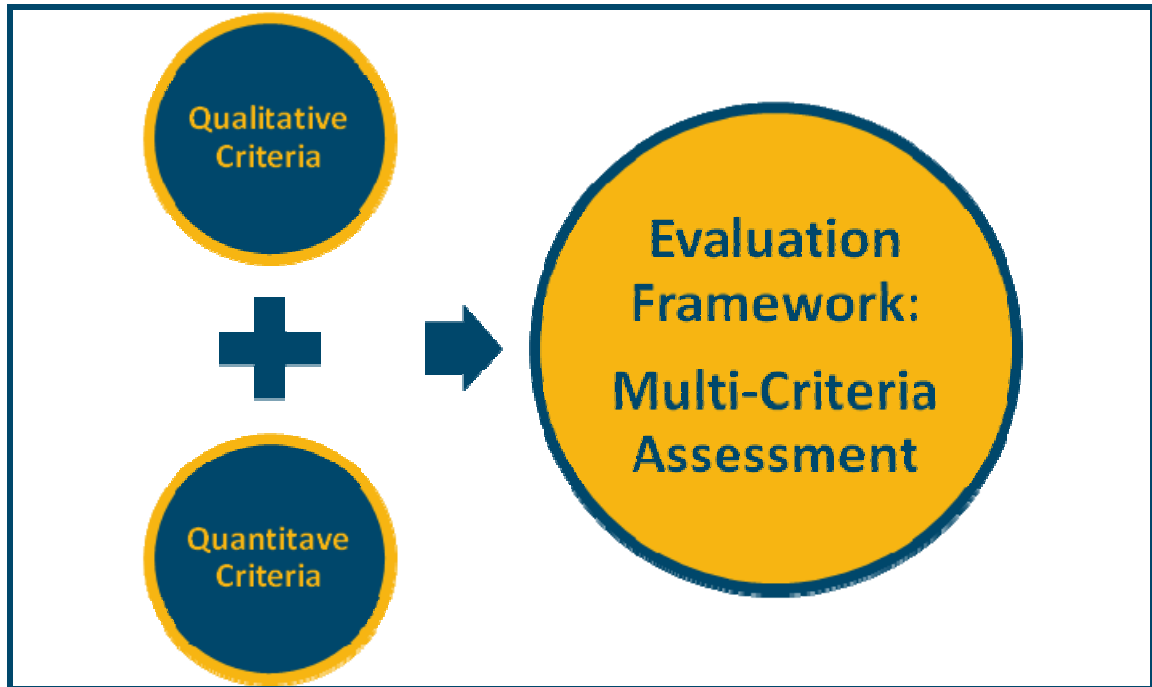


Figure 2.2.1: Evaluation Framework Requirements

To fully take into account all factors relevant in deciding which projects to favour, a method was followed that takes all the relevant system constraints into account. The following model methodologies were considered:

- Categorical Judgement Model (P Barlow, Nov 1978, NITRR-CSIR);
- Summated Ratings Model (P Barlow, Nov 1978, NITRR);
- Analytic Hierarchy Process Model (TL Saaty, August 1983 IEEE);
- Utility Analysis Model (JV Baxa, January 1981, CSIR);

After considering these alternative models against the basic requirements and environment as stated before, the generalised utility analysis model methodology was deemed to be the most suitable approach. The selection of the utility analysis (Multi-Criteria Analysis) was based on the following associated benefits:

- A utility analysis provides a structured input for the decision-maker.
- A utility analysis provides an indication of the overall effectiveness with which alternatives will satisfy the complex target system.

- A utility analysis is a transparent approach which allows the decision-makers to gauge the sensitivity of the various analysis parameters as part of the evaluation process.

2.2.2.1 Multi-Criteria Analysis

Multi-Criteria Analysis (MCA) can be defined as follows:

“Utility analysis (Multi- Criteria Analysis - MCA) is in effect a semi-quantitative means of ‘trading off’ the effects of implementing any given scheme, that is, the relative desirability of achieving a given set of goals and objectives and the degree to which this target system is fulfilled, are combined to give a measure of how far each scheme will go in meeting all or any of the goals and objectives, and so provides the answer to the question of effectiveness of the scheme. The distinguishing feature of utility analysis is that it can handle financial, quantitative and qualitative effects simultaneously. Consequently, all of the impacts or effects of a project which can be envisaged can be included in the analysis.”

– *Evaluation of Transportation Projects – Utility Analysis; JV Baxa; January 1981; CSIR.*

MCA can therefore serve as a tool to measure the performance of a range of multi-criteria projects against goals and objectives and in effect analyses each goal and objective ‘horizontally’. However, the goals and objectives (consolidated under the above mentioned six criteria) does have different levels of importance when compared to one another (in other words when looked at ‘vertically’) depending on the country’s action agenda (for example Economic Development could be more important than say Accessibility, and so on).

Therefore in order to compare the six goals and objectives successfully (and ‘vertically’) a model called “Pairwise Comparison” is used and outlined below.

2.2.2.2 Pairwise Comparison

As stated above, MCA looks at measuring the performance of a project in terms of a goal and/or objective horizontally. Therefore it becomes essential to also compare the importance of these individual goals and objectives vertically. Subsequently a Pairwise Comparison model will be used. A Pairwise Comparison matrix is used when there are more than just two options/alternatives that need to be ranked according to preference. These matrices consist out of Pairwise Comparisons which compare the preference of every option to the preference of all the other options.

When faced with a problem, several different solutions to the problem exist. Each of these solutions has its own unique pros and cons. In order to find the best solution the importance of the pros and cons of the different alternatives need to be compared to one another. Once this is done the different solutions can be given relative weights of importance and ranked accordingly. The task of accurately

weighing and ranking different alternatives can be difficult. A Pairwise Comparison matrix is a method that can be used to solve this challenge.

2.2.3 Project Prioritisation Process

Having identified specific Goals and Objectives through which to identify projects; and two models (MCA and Pairwise Comparison) that enable projects to be measured in terms of their performance against these Goals and Objectives both horizontally and vertically, this section will review the process as a whole, and is structured as follows:

- **Project Identification**
- **Project Evaluation**
- **Project Prioritization**

Figure 2.2.2: Project Prioritisation Process

below is a simplified schematic representation of the proposed process.

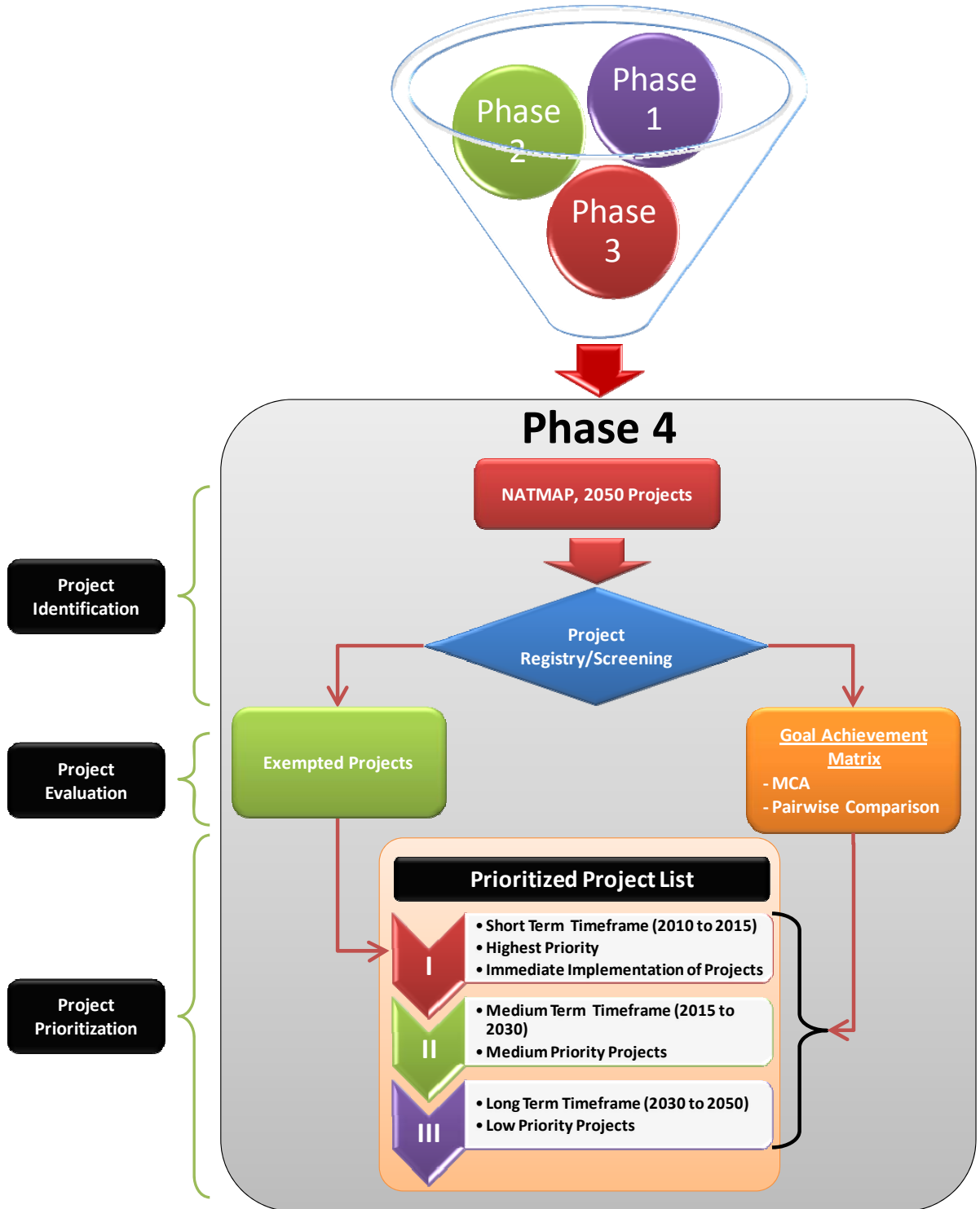


Figure 2.2.2: Project Prioritisation Process

2.2.3.1 Project Identification

Projects have been identified as part of the NATMAP, 2050 process, especially during Phase 3. These projects will therefore be scrutinized in terms of the stated Goals and Objectives through an initial project identification questionnaire registry data base which will also form the basis from which to run the MCA and Pairwise Comparison Matrix (together to be known as the Goal Achievement Matrix).

Therefore the Projects that have been identified through the NATMAP Phases thus far will be used as a starting point from which to further identify projects that qualify as NATMAP projects.

The project identification questionnaire registry data base will also serve as a project screening tool with the main purpose being to identify projects that qualify for exemption (in other words projects that do not need to go through the project evaluation process and can be registered as **Priority Category I** projects – to be explained in the next section)

Projects without committed funding are evaluated within the Goal Achievement Matrix (MCA and Pairwise Comparison).

2.2.3.2 Project Evaluation

The Project Evaluation phase of the process will evaluate projects based on the identified NATMAP, 2050, Goals and Objectives and in a sense will sort the projects into two groups, namely:

- **Exempted Projects**
- **Projects to be Evaluated**

Exempted Projects as stated earlier are projects that do not require further evaluation due to the fact that these projects are committed with for example signed contracts, secured funding etc. in place. It is very important however to verify or validate the respective projects indicated as “exempted projects” in the evaluation process.

The conditions which automatically exempt a project from undergoing prioritisation include the following:

- **Contractually Bound Projects**
If the project is the object of a contractual agreement, and thus has to be implemented in order to fulfil an obligation.
- **Committed Funds Projects**
If the project already has funds committed to it in terms of aid or development initiatives.
- **Co-funded Projects (committed funds)**
If a pre determined percentage of the project cost is co-funded and committed, it will be valuable to prioritise the project for implementation in order to receive the advantages of the project without having to spend the entire project cost to realise it.

Projects to be Evaluated is projects that do not qualify as Exempted Projects and therefore needs to be evaluated by the Goal Achievement Matrix (MCA and Pairwise Comparison).

2.2.3.3 Goal Achievement Matrix – Pairwise Comparison and MCA

The Goal Achievement Matrix will be the main evaluation tool that will assess the Projects through the use of the **Pairwise Comparison** for vertical preference of Goals and Objectives and through **Multi-Criteria Analysis** for horizontal assessment and weighting of projects in terms of the Goals and Objectives (as was defined earlier in this Chapter).

2.2.3.3.1 Pairwise Comparison Methodology

The methodology behind the Pairwise Comparison process can be explained by the following simplified steps (note that Goals and Objectives are displayed as A through to E):

2.2.3.3.2 Step 1: Arrange the Goals and Objectives in a Matrix

Step 1 can be represented in the following table:

| Goals and Objectives | A | B | C | D | E |
|----------------------|---|---|---|---|---|
| A | | | | | |
| B | | | | | |
| C | | | | | |
| D | | | | | |
| E | | | | | |

2.2.3.3.3 Step 2: Discount half of the Matrix

Only half of the matrix needs to be filled-in since half the rows and columns contain the same characteristics. **A** will not be compared to **A** therefore the diagonal can also be omitted.

Step 2 can be represented in the following table:

| Goals and Objectives | A | B | C | D | E |
|----------------------|---|---|---|---|---|
| A | | | | | |
| B | | | | | |
| C | | | | | |
| D | | | | | |
| E | | | | | |

2.2.3.3.4 Step 3: Compare Different Alternatives in terms of Preference

When comparing **A** with **B**, if **A** is considered more important than **B** then **A** is inserted in the cell where columns **A** and **B** intersect. If **A** and **C** are determined to be equally important then **AC** is inserted, and so on.

Step 3 can be represented in the following table:

| Goals and Objectives | A | B | C | D | E |
|----------------------|---|---|----|---|---|
| A | | A | AC | A | A |
| B | | | C | B | E |
| C | | | | C | C |
| D | | | | | E |
| E | | | | | |

2.2.3.3.5 Step 4: Count the Scores

The Scores of each Goal and Objective alternative is now counted as follows (and also follows on the above table in Step 3):

| Goals and Objectives | | Score |
|----------------------|---|-------|
| A | = | 4 |
| B | = | 1 |
| C | = | 4 |
| D | = | 0 |
| E | = | 2 |

2.2.3.3.6 Step 5: Assign Weights to each Goal and Objective alternative based on the Matrix Scores

Weights are assigned to each Goal and Objective alternative based on the following two principles:

- The weights of all the alternatives must add up to 100.
- The weights must be allocated based on the results of the matrix.

The following equation is therefore used:

100 = **A** score multiplied by a constant X + **B** score multiplied by a constant X + **C**... etc.

Therefore $100 = 4*X + 1*X + 4*X + 0*X + 2*X$ (refer to Step 4 Scores)

The above equation yields $X = 8.33$

Therefore resulting in the following table:

| Goals and Objectives | Equation (where X=9.09) | Equals | Percentage |
|----------------------|-------------------------|------------|----------------------------------------------|
| A | (A Score)*(X) | (4)*(8.33) | 33.32% |
| B | (B Score)*(X) | (1)*(8.33) | 8.33% |
| C | (C Score)*(X) | (4)*(8.33) | 33.32% |
| D | (D Score)*(X) | (0)*(8.33) | 0% =1% (no option is given a zero weighting) |
| E | (E Score)*(X) | (2)*(8.33) | 16.66% |

2.2.3.3.7 Step 6: Rank in order of Preference

Finally, as a result of Step 5, each Goal and Objective can be ranked in terms of preference scores achieved in above table as follows:

| Goals and Objectives | Percentage Rank |
|----------------------|-----------------|
| A & C | 33.32% |
| E | 16.66 |
| B | 8.33% |
| D | 1% |

2.2.3.3.8 Multi-Criteria Analysis

The approach to developing a MCA is shown schematically in

Figure 2.2.3 below.

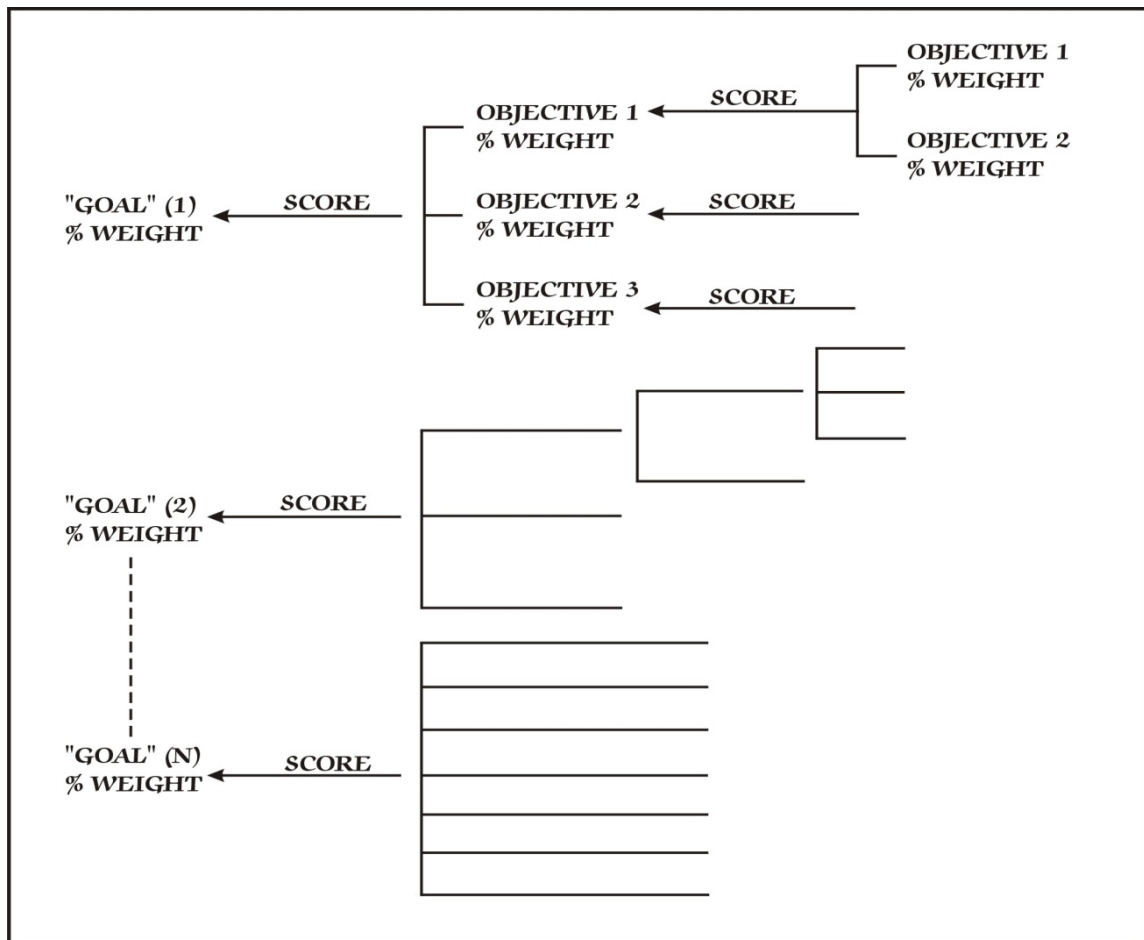


Figure 2.2.3: Multi-Criteria Analysis Model Development Approach

The process of establishing a utility or MCA model can be simplified as follows:

- The overarching goals and objectives of NATMAP to be met by each project/strategy are represented in a structured way in the form of a “decision-tree”.
- Goals and objectives may include quantitative and qualitative factors i.e. financial factors, technical considerations, project maturity or readiness criteria, economic criteria, social obligations, legal obligations etc.
- Overarching goals must be established for which relevant objectives have to be established. Each objective requires a specific input (such as an answer to a “qualitative” question or an input value such as a “quantitative” cost parameter for example)
- The relationship between the goals, objectives and their related qualitative and quantitative inputs is then modelled based on a predetermined method or value function, to provide an output.

- The value function or model relies on relative preferences associated with each goal, objective or criterion i.e. the branches of the decision tree. Determining relative preferences can be simplified as follows (Refer to **Figure 2.2.4**):
 - Define the relative preferences for each goal that was set out;
 - Define relative preferences for each objective that was set out;
 - Weight each criterion that was set up to reflect their relative importance.

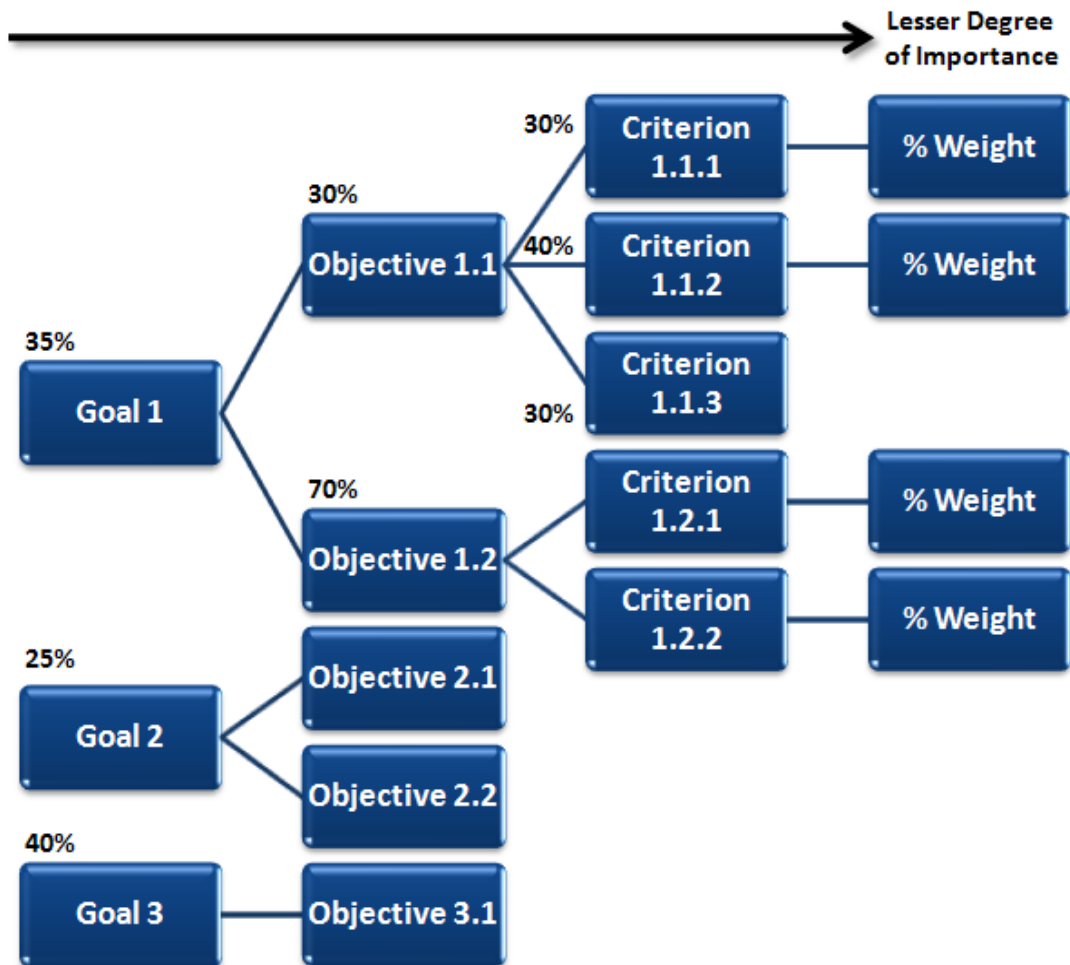


Figure 2.2.4: Determining MCA Preferences / Weights

By following these steps, each alternative can be 'scored' to attain a measurement of performance that can be translated into a number of points. The points system with which each criterion is weighted, as indicated on the matrix of utilities, is a number between 0 and 100.

As mentioned previously, the mathematics of the model is best represented by a statistical tree where multiplication of weights and percentages takes place from right to left in the so-called "branches" (Refer to Figure 2.2.4).

The implication of this multiplication is that the further a parameter is located towards the left of the model-tree, the greater is its influence on the ultimate score of the project. It is, however, further complicated by the restraint placed on each branch of the tree through the respective selected weights of each branch. Two separate criteria on two different branches of the model tree may be on the same vertical level but will have different effects on the ultimate score as a result of the “parent weight” of each branch.

After the initial model has been developed the goals, objectives, criteria, weights and scores are calibrated through a series of workshops with the project stakeholders in order to obtain early buy-in into the process and to ensure that the model preferences reflects that of the stakeholder organizations concerned.

The MCA relies heavily on the weightings assigned to the criteria, if the output of the MCA is not desirable it typically indicates that the weightings of the criteria are not done effectively to promote certain development directives above others. For this reason the MCA is specifically calibrated by means of a workshop with the relevant stakeholders in order to determine appropriate weighting for the various criteria.

In terms of MCA each of the criteria is rated in terms of the specific project being assessed, each criterion is scored between 0 and 100 points with zero indicating that the specific project will be least beneficial in terms of the specific criterion while 100 indicates it is most beneficial.

The MCA takes the form, as shown previously, of multiple criteria feeding into each objective, multiple objectives feeding into each goal and finally multiple goals feeding into the total project score. Each criterion is assigned a weighting, the various criteria weightings, which make up an objective, adds up to 100. Each objective is also assigned a weighting, the various objectives that make up a goal, adds up to 100 as well. Each goal is given a weighting, the weighting of all goals adds up to a 100 and this score out of 100 is the total project score and the basis upon which it is ranked.

The following equation shows how the project score is determined:

$$P_{1-q} = \sum_{k=1}^k (G_k * \sum_{m=1}^m (O_m * \sum_{n=1}^n C_{Wn} * C_{Sn})))$$

Where P_{1-q} represents the total projects score for project 1 to q (q being the total number of projects), and

G_k represents the goal score, where k is the total number of goals, and

O_m represents the objective score, where m is the total number of objectives, and where

C_{Wn} gives the weighting of the criteria and C_{Sn} refers to the score (1 – 100) given to the criterion for the specific project, where n is the total number of criteria.

2.2.3.4 Project Prioritization

Once the Goal Achievement Matrix (Pairview Comparison and MCA) has been completed, all projects will be populated with a priority value. The prioritised project list includes as a high priority the exempted projects, followed by the NATMAP candidate projects ranked according to priority (assigned by the MCA). It is proposed that prioritisation categories are used as follows:

- **Priority Category I:** Short term implementation (2010 – 2015) – Project MCA scores between 75 – 100. This Category also caters for the Exempted Projects.
- **Priority Category II:** Medium term implementation (2015 – 2030) – Project MCA scores between 50 - 75
- **Priority Category III:** Long term implementation 2030 – 2050) – Projects that achieve MCA scores lower than 50

2.2.4 **Goal Achievement Matrix**

In summary, the Goal Achievement Matrix described above consists of a list of criteria by means of which projects have been rated, the list of projects that have been identified, the rating of each project on each criterion, the overall rating of each project across all criteria.

From the Phase 3 Forward Plans, various projects have been identified for the different types of infrastructure or transport operations. The following types of transport projects have been identified:

- Road
- Rail
- Ports
- Airports
- Passenger Transport Operations
- Freight Transport Operations

In terms of the spatial extend of projects; the following categories have been distinguished:

- Provincial projects
- Inter-provincial projects
- Regional SADC projects

The inter-provincial projects and Regional projects were coordinated between the three Consortia in terms of their scope, costs and prioritisation.

2.2.5 **Project Descriptions**

Addendum A provides project descriptions of Provincial and National Projects, as well as for Legal, Institutional and Financial and Funding Projects.

For each project the following information is provided:

- Description of project
- Project Categorisation
- Location
- Rating from Goal Achievement Matrix
- First order costs (infrastructure)
- Programming / timeframe
- Proposed funding mechanism(s)
- Proposed institutional authority responsible

Goal Achievement Ratings

Addendum B provides the ratings of Provincial and National Projects produced for the Goal Achievements Matrix.

2.3 PROJECTS AND PROGRAMMES

Projects have been programmed into the following three time periods, according to the time period when certain upgrading or new infrastructure would be needed, based on the projected demand:

- Short term : 2010 to 2015
- Medium term : 2015 to 2030
- Long term : 2030 to 2050

Addendum C provides the **Expenditure Programmes** for each project for the three time periods. The expenditure in the first 5 years is divided into annual intervals.

2.4 CRITICAL PROJECTS

2.4.1 Identification of Provincial Critical Projects

From the land use strategies formulated in the Phase 3 Forward Plans, the main existing and new emerging corridors have been identified. **Figure 2.4.1** illustrates the main existing corridors and new emerging corridors that need to be given priority by government. Most of these are inter-provincial or SADC regional corridors. The map distinguishes between international (SADC), national and provincial corridors, as well as the type of infrastructure that needs to be developed, i.e. Freight Rail, Passenger Rail, Road and Tourism Routes. The main land use nodes that are connected by the corridors are also given. These corridors were used as a guiding framework for the identification of critical projects.

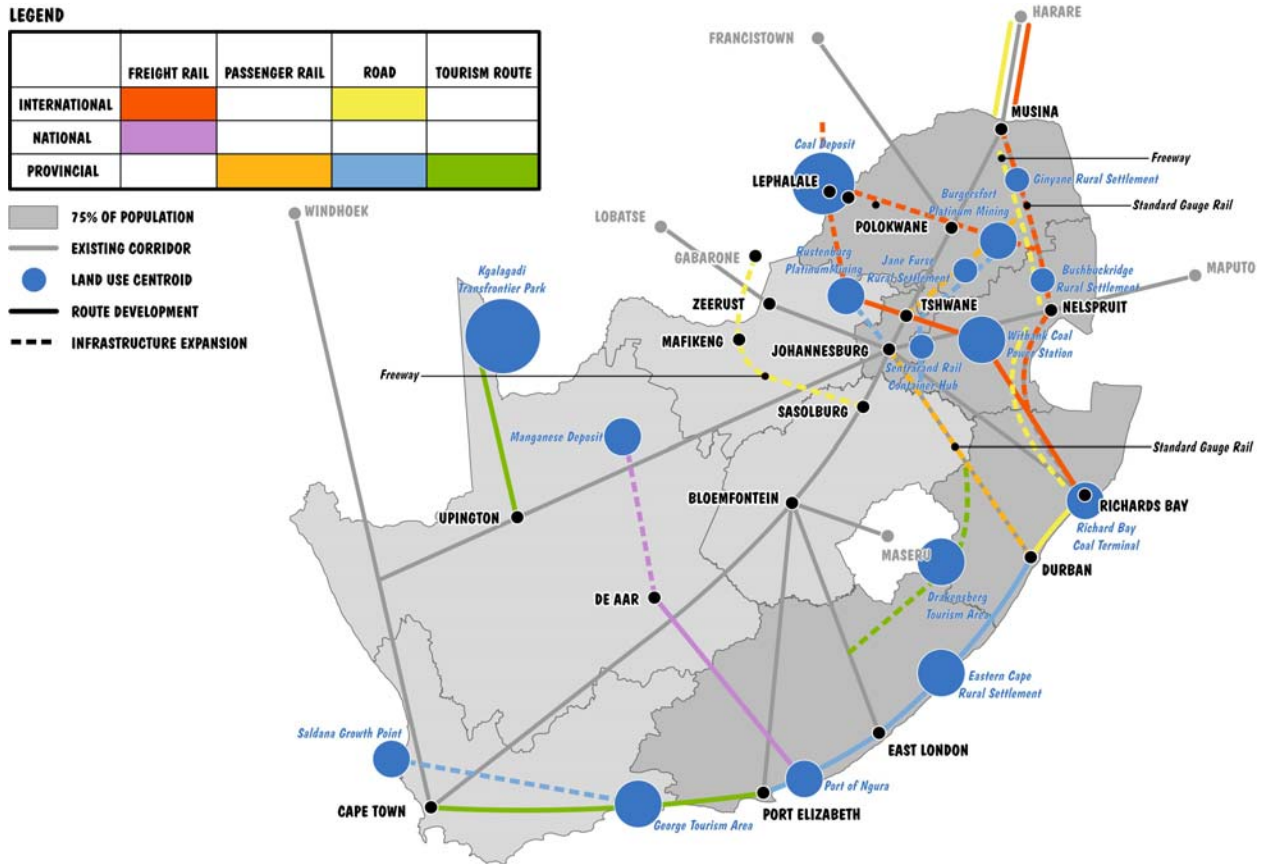


Figure 2.4.1: Main existing corridors and new emerging corridors

The project description in Addendum A and the project expenditure programmes in Addendum C indicate which projects are critical or not.

3 LEGAL, INSTITUTIONAL AND FINANCIAL PROGRAMME

3.1 POLICY AMENDMENTS

In Phases 1 and 2 of the Project, the various applicable policy instruments were collected and analysed, these included, among others:

- The White Paper on National Transport Policy, 1996
- The Moving South Africa Action Agenda, 1999
- The National Land Transport Strategic Framework (latest update 2006)
- The National Rail Plan, 2006
- The National Freight Logistics Strategy, 2005
- The Public Transport Strategy and Action Plan, 2007

It was found that these policies are all applicable and relevant. In the case of the NLTSP, it is in the process of being updated. The NATMAP recommendations themselves will of course provide very important policy directions.

One of the problems identified has been that the planning is strongly sectoral and mode-centred. This could lead to conflicts and a lack of strategic vision. For example proposals to upgrade roads that favour private cars could clash with policies to promote public transport. A need has thus been identified for more centralised, multimodal and strategic policy direction. This could best be provided by an overarching forum such as the proposed Multimodal Policy Forum (see Paragraph 3.2.1 below). Such a Forum would need powers to formulate strategic and overarching plans, and to impose their provisions on relevant entities and stakeholders. It is important to note that such overarching planning should stay at a strategic level and should not interfere with sectoral projects. So, for example, SANRAL should not be hindered in its effective planning and implementation of a particular road section, but should be influenced by the strategic planning in developing strategic corridors, such as the Maputo Corridor development that took place in the late 1990s. Similarly the road versus rail freight debate can then be pursued from a more strategic perspective.

3.2 INSTITUTIONAL ARRANGEMENTS

3.2.1 Introduction

During Phase 2 an analysis of the existing institutions and their supporting mechanisms was performed. The need for changes in institutions was clearly identified and informed by different land-use, infrastructure and operations of the different modes.

Phase 3 proposed alternative strategies in addressing institutional arrangements which included inter alia the following:

- To introduce institutions for modal choice decisions on “mega infrastructure investment projects”.

- To introduce homogenous economic regulation to the different modes.
- To ensure homogenous safety regulation entities for the different modes.
- To take responsibility for the strategic development of different modes by producing Integrated National Master Plans for infrastructure and facilities of each mode.
- Ring-fencing of infrastructure and operational costing in areas (like rail and pipelines) where vertical separation of existing entities is not currently possible.
- To introduce mechanisms to transfer the “real cost of transport” to transport operators in terms of weight distance charging.
- To introduce user representation onto the boards of institutions that provide transport infrastructure.
- To evaluate effectiveness of provincial departments/agencies responsible for spending on transport infrastructure to ensure effective spending of public funding.
- To ensure that existing institutions execute on existing mandates.
- To benefit from the effectiveness and delivery of institutions (i.e. SANRAL, ACSA), by expanding their responsibilities.
- To ensure effective coordination structures between National, Provincial and Local government levels. Also to ensure that coordination with other relevant government departments takes place that ensures alignment, cooperation and coordination of service delivery.

3.2.2 Proposed new institutions

In Phase 3 the following new institutions were proposed:

- Multimodal Policy Forum located at the Department of Transport where modal choice criteria and decisions can be dealt with
- Transport Investment Clearing House for mega-sized infrastructure investment projects
- Transport Economic Regulator (responsible for all modes with specialised units per mode) to allow for regulated competition in all modes
- Road Weight Distance Charging entity supported by a Road Freight Operator Registration System to allow for proper management of private operators.

3.2.3 Proposed changes to existing institutions

Phase 3 also proposed changes to existing institutions to align with the alternative strategies:

- SANRAL – expand board to allow for operator participation; expand their road network responsibility to benefit from capacity to deliver.
- Provincial Roads Departments – maintain equitable share for maintenance of existing road network; evaluate cost effectiveness and efficiency of provincial entities; develop standards for compliance.

- Transnet (Pty) Ltd – ringfence costs and activities of infrastructure and operational divisions; ringfence branchlines; allow for social composite agreements with DOT; promote third party operations on the freight network; etc.; to lay the foundation for possible future vertical separation.
- PRASA – ringfence costs and activities of infrastructure and operational divisions; ensure metros are effectively represented on board; allow for performance agreements with metros to ensure accountability; promote third party operations on commuter network; ensure rail fares cover operational cost and reduce subsidy dependence; to lay the foundation for possible future vertical separation.
- Department of Transport Rail Division: policy and performance management of the rail transport mode; guide Integrated Master Plan for Rail Infrastructure; create structure to handle registration and regulation of rail freight operations etc.
- ACSA – expand number of airports managed; allow for competition between airports.
- Department of Transport Aviation Division: ensure strategic management of airport infrastructure; initiate a National Airport Development Master Plan; etc.
- SAMSA (SA Maritime Safety Authority) – review roles and expand to eliminate overlaps with other institutions; ensure the whole spectrum of marine safety issues is covered.
- National Ports Authority – competition be allowed between ports; structure ports into separate business entities; allow for specialisation and niche markets between ports.
- Ports Regulator – merge into the “to be created” Transport Economic Regulator.
- Department of Transport Maritime Division – create functional area responsible for promotion of inter-coastal shipping; create coordination structures with all relevant entities and institutions.
- Department of Transport – Reorganisation of the DoT to create effective management of regulated competition between operators of all freight modes.


3.2.4 Implications of proposed institutional changes

In order to give effect to the proposals it is recommended that the institutions be created as soon as possible in order to address current shortcomings in the different fields/areas. It is therefore proposed that the entities be created inside the DOT as specialised units and that they are moved out of the DOT where appropriate once the necessary legal framework has been created. In a number of cases some detailed analysis and planning is required to develop appropriate institutions and time and money would be required for this.

Table 3.2.1 summarises the proposed financial and time implications of the proposed institutional changes. The last column indicates expected additional operating costs per annum. (Shading indicates areas where user charges are expected to take care of additional operating costs.)

Table 3.2.1: Summary of the proposed financial and time implications of the proposed institutional changes

| NATIONAL | | | | | | | | | | | | | | |
|---------------|-----|------------------------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------|---------------------------------|-------------|------|------|------|------|------|--------------|------------|-----------------------------------|
| Category | # | Name of the Project | Status : Committed (Yes or No) | Is the project identified as NATMAP Critical Provincial Project (Yes or No) | Total/Residual Cost (R Million) | Short -Term | | | | | | Medium -Term | Long- Term | Annual operating cost (R Million) |
| | | | | | | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2015-2030 | 2030-2050 | |
| Institutional | 11 | Department of Transport - Create Multimodal Policy Forum | N | Y | 5.0 | | 2 | 3 | | | | | | 0.0 |
| Institutional | 12 | Create Transport Investment Clearing House | N | Y | 10.0 | | 2 | 3 | 5 | | | | | 10.0 |
| Institutional | 13 | Create Transport Economic Regulator with modal units | N | Y | 20.0 | | 5 | 10 | 5 | | | | | 30.0 |
| Institutional | 14 | Create Road Weight Distance Charging entity | N | Y | 80.0 | 2 | 3 | 20 | 30 | 25 | | | | 10.0 |
| Institutional | 15 | Implement Road Freight Operator Register and licensing system | N | Y | 10.0 | | 3 | 3 | 4 | | | | | 30.0 |
| Institutional | 16 | Changes at SANRAL to expand portfolio and board | N | Y | 10.0 | | 2 | 4 | 4 | | | | | 0.0 |
| Institutional | 17 | Provincial Departments of Roads - Audit & Develop Standards | N | Y | 20.0 | | 5 | 10 | 5 | | | | | 0.0 |
| Institutional | 18 | Transnet Ringfencing & Divisionalisation | N | Y | 80.0 | 2 | 8 | 25 | 25 | 20 | | | | 0.0 |
| Institutional | 19 | PRASA Ringfencing & Divisionalisation | N | Y | 20.0 | 2 | 5 | 5 | 5 | 3 | | | | 0.0 |
| Institutional | 110 | Department of Transport - Expand Rail Division to give Strategic Guidance | N | Y | 20.0 | | 10 | 10 | | | | | | 10.0 |
| Institutional | 111 | ACSA - Expand portfolio and board | N | Y | 10.0 | | 2 | 4 | 4 | | | | | 0.0 |
| Institutional | 112 | Department of Transport - Expand Aviation Division to give Strategic Guidance | N | Y | 10.0 | | 5 | 5 | | | | | | 10.0 |
| Institutional | 113 | SA Marine Safety Authority - Review responsibilities and align w other | N | Y | 10.0 | | 5 | 5 | | | | | | 5.0 |
| Institutional | 114 | National Ports Authority - restructure to allow for more competition | N | Y | 10.0 | | | 5 | 5 | | | | | 0.0 |
| Institutional | 115 | Department of Transport - Maritime Division expand and align responsibilities. | N | Y | 10.0 | | | 5 | 5 | | | | | 5.0 |
| Institutional | 116 | Reorganise DOT to create structure for management of regulated competition for all modes | N | Y | 10.0 | | 5 | 5 | | | | | | 10.0 |
| TOTAL | | | | | 335.0 | 6 | 62 | 122 | 97 | 48 | 0 | 0 | 0 | 120.0 |

 User pays principle to take care of additional operating cost

3.3 LEGISLATIVE REVISIONS

3.3.1 Approach to Phase 4

During Phase 2 an analysis of the existing institutions and their legal support mechanisms was performed. The need for changes in institutional and legal support was clearly identified and informed by the different land-use, infrastructure and operations of the different modes during Phase 3. The objective of Phase 4 is to provide an implementation strategy and timeframe for the recommended changes to be effective to the existing legal framework to give effect to new policies and Institutional recommendations. In Phase 3 the legislative requirements to establish the proposed entities, and related matters, were outlined. The steps required for implementation are outlined below.

3.3.2 Legal issues: new institutions

In phase 3 the establishment of certain new Institutions were proposed as follows:

3.3.2.1 Department of Transport: Multimodal Policy Forum

As stated in the Phase 3 Report, the purpose of the Multimodal Policy Forum (MPF) will be to introduce a forum where multimodal policy can be formulated. The aim is to limit duplication of government service delivery and infrastructure provision and to reduce “turf-wars” between modes by providing clear policy guidance.

As regards options to establish it, using the existing MINMEC forum, which has been established as a national intergovernmental forum contemplated in section 9(2) of the Intergovernmental Relations Framework Act 13 of 2005, or establishing a MINMEC subcommittee, was not seen as desired option because MINMEC does not involve the private sector. The options are:

- The Minister could set up an informal structure as an advisory entity. This is not the preferred option because it will then lack “teeth” to implement and enforce the policy, and there will be no statutory imperative to establish and maintain it.
- To establish it by statute. This is the preferred option.

If it is decided to establish the MPF by statute, this should be done by way of a comprehensive National Planning and Implementation Act. Such an Act will “pull together” the strategic and overarching functions of planning and implementing transport projects in the longer term, i.e. for the year 2050. This Act should strive to achieve the following, among others:

- To evaluate and “pull together” existing strategic planning instruments, including the the National Transport Masterplan (NATPLAN), the National Land Transport Strategic Framework (NLTSF), the National Rail Plan, 2006, the National Freight Logistics Strategy, 2005, the National Public Transport Strategy and Action Plan, 2007, and others.
- To undertake well advised and considered strategic transport planning for the medium to longer term, with a focus on the 2050 horizon.
- To understand and predict future developments, such as reduction or eventual elimination of carbon emissions, advances in technology, changes in travel patterns if people make a large-scale move towards working from home and no longer commuting as much as before, etc.
- To impose planning requirements on sectoral road, rail, air and maritime planners for strategic reasons.
- To influence land use and settlement patterns.

The National Planning and Implementation Act (NPIA) should clearly set out the above, and other strategic goals, that must be achieved by all role players in both the public and private sectors.

The NPIA should also include at least the following:

- Establishment of the Multimodal Planning Forum and providing for its membership. This should include government officials in the three spheres, officials of parastatals such as PRASA, Transnet, ACSA, etc., private sector representatives and technical experts.
- The functions, powers and duties of the MPF. It should have powers to set multimodal and overarching policy that is binding on relevant stakeholders.
- “Housekeeping” matters such as holding of meetings, procedures, quorums etc. and provisions on funding.
- The power to invite or subpoena persons to attend its meetings to provide advice and technical and professional input.
- A budget for research and liaising with internal and international organisations.

Drafting process:

If the Forum will fall within the definition of “public entity” in the Public Finance Management Act, 1999 (PFMA), the Forum will have to be listed as such in compliance with Part 9 of the Treasury Regulations. The Department will have to engage with the National Treasury Prior to its establishment and compile a business case for submission to the National Treasury for approval to motivate the establishment of the Forum. The business case should deal with the following issues, among others, which will be incorporated into the National Planning and Implementation Bill:

- a) A motivation of the need for the Forum, its proposed purpose and functions and why the functions cannot be undertaken by the DoT in terms of its constitutional mandate.
- b) Other possible institutional options – such as a more informal national intergovernmental forum established in terms of section 9 of the Intergovernmental Relations Framework Act 13 of 2005.
- c) The corporate structure and an explanation of how it will comply with the National Guidelines for Public Entities and the King/King III recommendations, whichever are applicable.
- d) The governance structure, i.e. its proposed composition and proposed committees of the Forum.
- e) Accountability – to the Minister and to Parliament, and requirements for strategic plans, business plans, performance agreements, auditing and reporting.
- f) Provision for the DoT to provide staffing for the Forum.
- g) Funding of the Forum and financial controls.

Once Treasury and other necessary approvals have been obtained, a draft Bill can be prepared.

The Bill must follow the following procedures:

- Internal discussion and finalisation of the draft
- Publishing the Bill for comment in the Government Gazette

- Evaluating comments and making changes where appropriate
- Submission of the Bill to the Minister and Cabinet
- Certification by the State Law Adviser
- Introduction to Parliament.

Legislation in each province will have to be examined to see if it needs adjustment to accommodate the objectives of the Forum. Provincial legislation can only be repealed or amended by the relevant provincial legislature, but national legislation can override provincial legislation if it falls within the categories listed in section 146(2) of the Constitution.

The drafting of the new Act and seeing it through the legislative process is expected to take approximately 12 months. Allowing for delays during the 2010 World Cup it could be promulgated in the second half of 2011.

3.3.2.2 Transport Investment Clearing House (TICH)

In order to establish its powers, functions and duties clearly, the TICH should be set up by statute, i.e. by a national act of Parliament. In terms of section 48 of the PFMA it would be classified as a national public entity i.e. an entity which is not a national business enterprise (it will not carry on a business activity) that is:

- Established in terms of national legislation
- Fully or substantially funded from the National Revenue Fund or from a tax, levy or other money imposed by national legislation, and
- Accountable to Parliament.

The entity will have to be listed in Schedule 3, Part A of the PFMA. Prior to its establishment, a business case should be compiled and submitted to the National Treasury for approval to motivate the establishment of the Clearing House. The steps outlined above must be followed.

Care should be taken to ensure that the TICH functions are in line with section 11 of the NLTA. Legislation in each province will have to be examined to see if it needs adjustment to accommodate the objectives of the Forum. Provincial legislation can only be repealed or amended by the relevant provincial legislature, but national legislation can override provincial legislation if it falls within the categories listed in section 146(2) of the Constitution.

Drafting process:

The process for compiling a business case, drafting the necessary bill and seeing it through the legislative process will be as outlined above.

The drafting of the new Act and seeing it through the legislative process is expected to take approximately 2 years. Allowing for delays during the 2010 World Cup it could be promulgated in the second half of 2012.

3.3.2.3 Transport Economic Regulator (TER)

In order to set out its powers, functions and duties clearly and to provide for the necessary powers and funding arrangements, the TER should be set up by statute, i.e. by a national act of Parliament. In terms of section 48 of the PFMA it would be classified as a national public entity, as with the TICH.

The entity will have to be listed in Schedule 3 Part A of the PFMA. Prior to its establishment, a business case should be compiled and submitted to the National Treasury for approval to motivate the establishment of the Regulator. The business case should deal with the following issues, among others, which will be incorporated into the Bill establishing the TER:

- a) A motivation of the need for the Regulator, its proposed purpose and functions and why the functions cannot be undertaken by the DoT in terms of its constitutional mandate.
- b) Other possible institutional options – such as a more informal national intergovernmental forum established in terms of section 9 of the Intergovernmental Relations Framework Act 13 of 2005.
- c) The corporate structure and an explanation of how it will comply with the National Guidelines for Public Entities and the King II/King III recommendations.
- d) The governance structure, i.e. the board or other structure that will govern the TER and its proposed composition and proposed committees of the Board.
- e) Accountability – to the Minister and to Parliament, and requirements for strategic plans, business plans, performance agreements, auditing and reporting.
- f) Chief Executive Officer (CEO) and staffing, i.e. the organisational and human resource implications.
- g) Funding of the entity and financial controls.

Once Treasury and other necessary approvals have been obtained, a draft Bill must be prepared to establish the Regulator.

Certain provincial legislative amendments may have to be effected as a result of the introduction of such an institution. Provincial legislation will have to be amended to reflect the additional roles and responsibilities granted to the TER.

Drafting process:

The process for compiling a business case, drafting the necessary bill and seeing it through the legislative process will be as outlined above.

The drafting of the new Act and seeing it through the legislative process is expected to take approximately 2 years. Allowing for delays during the 2010 World Cup it could be promulgated in the second half of 2012.

3.3.2.4 Road Weight Distance Charging Entity

It may not be necessary to establish a new agency: SANRAL is currently allocated the function of planning and funding national roads, and for recommending tolls to the Minister in terms of the South African National Roads Agency Limited and National Roads Act 7 of 1998 (SANRAL Act). This Act could be amended to give SANRAL the power to raise weight distance charges. One limitation is that SANRAL is only responsible for national roads, while the RWDCA could be given powers to raise money for provincial roads as well, although it should be noted that “provincial roads” is an exclusive provincial function in terms of Schedule 5 of the Constitution.

If the decision is taken to establish the RWDCA, and it is to be established as a national public entity, the provisions of the PFMA and other legislation mentioned above apply (business case, Treasury approval, issues to be included in the establishing legislation etc.).

The RWDCA will need powers to raise taxes and levies. These provisions must be contained in a separate Bill, called a “money bill” which must be introduced to Parliament by the Minister of Finance under section 77 of the Constitution. However, this will not apply if the charges are seen as user charges. This is why the provisions of section 77 were not applied to the SANRAL Act in 1998: tolls are seen as user charges, and not as a tax or levy. Treasury will have to be asked to take a decision on this issue. If the charges are seen as a tax or levy, there will have to be two pieces of legislation:

- One establishing the RWDCA and providing for its governance, powers, duties, staffing etc. and
- One providing powers for it to raise levies or impose weight distance charges.

It is obvious that prior approval from the National Treasury will be necessary for this legislation.

If the RWDCA is to become responsible for tolling of national roads, the SANRAL Act will have to be amended accordingly. Currently SANRAL is allocated the function of recommending tolls to the Minister and for the funding of national roads. The SANRAL Act will have to be amended substantially if this function is to be transferred to the RWDCA.

Depending on the policy decision taken by the Department with regard to the manner in which RWDCA is to be implemented it might be necessary to review and amend relevant Provincial Legislation to ensure that the provisions thereof are in line with National Legislation.

Drafting process:

If the RWDCA is established as a new entity, the process for compiling a business case, drafting the necessary bill and seeing it through the legislative process will be as outlined above. However, this option is not recommended: the first option of

amending the SANRAL Act to empower SANRAL to raise these charges is recommended.

The drafting of an amendment bill and seeing it through the legislative process is expected to take approximately 2 years. Allowing for delays during the 2010 World Cup it could be promulgated in the second half of 2012.

3.3.2.5 South African National Roads Agency (SANRAL)

As found in Phase 3 the following changes are required in this Institution:

- Include freight and passenger operator representation onto the board.
- Expand the road network so that SANRAL is responsible for roads of national importance on the primary and secondary networks and continuously add to those networks.

If the proposed institutional issues are implemented, then section 12 of the SANRAL Act must be amended to include freight and passenger operators to be represented on the board.

With regard to the second institutional issue, SANRAL has the ability to declare provincial and/or municipal roads as national roads and as toll roads, if the need arises and therefore it already has the legislative power to enlarge their portfolio. No amendments for this act will thus be required relating to this issue.

No legislative amendments at the provincial sphere are foreseen at this stage.

Drafting process:

The process for compiling an amendment bill and seeing it through the legislative process will be as outlined above. The drafting of the new Act and seeing it through the legislative process is expected to take approximately 2 years. Allowing for delays during the 2010 World Cup it could be promulgated in the second half of 2012.

3.3.2.6 Provincial roads departments or agencies

The following is recommended for the Provincial Departments of Roads (or Agencies) under Institutional arrangements hereunder:

- Maintain equitable share contributions to provinces to ensure that “social” and “rural” roads are maintained in the interest of the country.
- Commission a national study to evaluate or audit the cost, effectiveness and efficiency of the provincial departments.

- After completion of the evaluation or audit study, to commission the development of standards that would allow for more effective and efficient operations on the provincial level, if applied.

After the proposed study has been completed it will become clear if any institutional changes to any Provincial Department need to be effected or not. The recommendations of the study could also result in certain legislative amendments.

Depending on the exact content of the Act establishing the TICH, it is possible that certain provincial acts will need to be amended to be in line with the TICH Act.

Drafting process:

The process of undertaking the above studies is expected to take approximately 3 years. If necessary, depending on the outcome of the studies, new legislation can be drafted if necessary.

3.3.2.7 Passenger Rail Agency of South Africa (PRASA)

If the proposed institutional issues are implemented, amendments should be made to the composition of the Board to include metros to be effectively represented on the Board.

If any of the proposed institutions, especially the proposed TER is established it is quite possible that legislation will have to be amended in order to correlate with the powers and functions of the TER.

The arrival of the planned TER on the rail transport scene will provide the rail industry with an added feature. However such expected arrival is not within the framework of current legislation and therefore legislation must be either drafted or it needs to be amended.

Drafting process:

To implement the recommendations, the Legal Succession to the South African Transport Services Act, 1989 will have to be amended. The process for compiling an amendment bill and seeing it through the legislative process will be as outlined above. The drafting of the new Act and seeing it through the legislative process is expected to take approximately 2 years. Allowing for delays during the 2010 World Cup it could be promulgated in the second half of 2012.

3.3.2.8 Department of Transport: Rail

If the proposal relating to the substitution of the Rail National Safety Regulator by the TER is accepted, the National Railway Safety Regulator Act will have to be repealed and provision will have to be made in the TER Act for the execution of the first mentioned bodies by the TER.

The implementation of a Clearing House would also have an enormous impact on the acts and regulations that regulate PRASA and TRANSNET and a study will have to be done to determine what amendments should be affected to the legislation mentioned.

Drafting process:

The process for compiling the necessary bills and seeing them through the legislative process will be as outlined above and is expected to take approximately 2 years. Allowing for delays during the 2010 World Cup it could be promulgated in the second half of 2012.

3.3.2.9 The Airports Company of South Africa (ACSA) and the ATNS Company of South Africa

If the TICH and the TER are established, it will have an impact on the Airports Company of South Africa as well as the ATNS Company because fees and tariffs will be regulated by the TER whereas the development of aviation infrastructure will be affected by the provisions of the proposed TICH Act. The existing legislation will therefore have to be amended to bring it in line with the new institutional dispensation.

Drafting process:

The process for compiling an amendment bill and seeing it through the legislative process will be as outlined above. The drafting of the new Act and seeing it through the legislative process is expected to take approximately 2 years. Allowing for delays during the 2010 World Cup it could be promulgated in the second half of 2012.

3.3.2.10 SA Maritime Safety Authority (SAMSA)

With reference to the proposal that functions must be rationalised it would be necessary to review all legislation regulating to shipping and marine related issues to identify legislative amendments that will have to be effected.

Drafting process:

The process of undertaking the above studies is expected to take approximately two years. Depending on the outcome of the studies, new legislation can be drafted if necessary.

3.3.2.11 National Ports Authority (NPA)

If the proposed institutional recommendations are accepted, then the National Ports Act, 2005 will have to be amended.

Drafting process:

The process of undertaking a study in connection with the recommendations is expected to take approximately two years. Depending on the outcome of the studies, new legislation can be drafted if necessary.

3.3.2.12 Ports Regulator

If the proposed institutional recommendations are implemented, then the National Ports Act, 2005 must be amended or the functions in the Act mentioned in Phase 3 must be repealed and must be taken-up in the proposed TER Act.

Drafting process:

The process of undertaking a study in connection with the recommendations is expected to take approximately two years. Depending on the outcome of the studies, new legislation can be drafted if necessary.

3.3.3 Implications of proposed legislative changes

In order to give effect to legislative amendments to be effected the establishment new statutory institutions it will be necessary to undertake detailed studies and analysis to develop the Institutional and Legislative framework as soon as possible.

Table 3.3.1 summarises the proposed financial and time implications of the recommended legislative changes.

Table 3.3.1: Proposed financial and time implications of the recommended legislative changes

| NATIONAL | | | | | | | | | | | | | |
|----------|-----|--------------------------------------------------------------------------|--------------------------------|-----------------------------------------------------------------------------|---------------------------------|-------------|------|------|------|------|--------------|------------|-----------|
| Category | # | Name of the Project | Status : Committed (Yes or No) | Is the project identified as NATMAP Critical Provincial Project (Yes or No) | Total/Residual Cost (R Million) | Short -Term | | | | | Medium -Term | Long -Term | |
| | | | | | | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2015-2030 | 2030-2050 |
| Legal | L1 | Department of Transport - Multimodal Policy Forum - Legislative Revision | N | Y | 2.0 | | 2 | | | | | | |
| Legal | L2 | Transport Investment Clearing House - Legislative Revisions | N | Y | 3.0 | | 1 | 2 | | | | | |
| Legal | L3 | Transport Economic Regulator - Legislative Revisions | N | Y | 3.0 | | 1 | 2 | | | | | |
| Legal | L4 | Road Weight Distance Charging entity Legislative Revisions | N | Y | 2.0 | | 1 | 1 | | | | | |
| Legal | L5 | SANRAL - Legislative Revisions | N | Y | 2.0 | | 1 | 1 | | | | | |
| Legal | L6 | Provincial Departments of Roads - Legislative Revisions | N | Y | 4.0 | | 2 | 1 | 1 | | | | |
| Legal | L7 | Passenger Rail Agency of South Africa (PRASA) - Legislative Revisions | N | Y | 2.0 | | 1 | 1 | | | | | |
| Legal | L8 | Department of Transport - Rail Legislative Revisions | N | Y | 3.0 | | 2 | 1 | | | | | |
| Legal | L9 | The Airports Company of SA (ACSA) and ATNS - Legislative Revisions | N | Y | 2.0 | | 1 | 1 | | | | | |
| Legal | L10 | SA Maritime Safety Authority (SAMSA) Legislative Revisions | N | Y | 4.0 | | 2 | 2 | | | | | |
| Legal | L11 | National Ports Authority - Legislative Revisions | N | Y | 2.0 | | 1 | 1 | | | | | |
| Legal | L12 | Ports Regulator - Legislative Revisions | N | Y | 2.0 | | 1 | 1 | | | | | |
| TOTAL | | | | | 31.0 | 0 | 16 | 14 | 1 | 0 | 0 | 0 | 0 |

3.4 FINANCE AND FUNDING ARRANGEMENTS

3.4.1 NATMAP 2050 Financing Framework

International experience in market economies indicates some common practices, i.e., that public funding of transportation infrastructure is much more common than for transport operations. Further, that private ownership of transportation services is broadly common for freight than for passenger transport; predominant in road haulage, freight forwarding and air travel, but exceptional for railway services. Except for road passenger services, South Africa mirrors these international tendencies.

Government provision of transport services faces a number of constraints which distort optimal funding options adopted, and are exacerbated in a developmental state, viz.;

- Competition for resources from core government functions, and the inherent contradictions in trying to be policy maker or/and regulator of the subject operations;
- Managerial tensions of seeking commercial viability concurrently with social goals. This is further pronounced where subsidies underpin operational sustainability or/and where public service norms and procedures rather than operational needs drive/influence management practices;

- Technical efficiency losses/compromises where the activity creates surpluses which are then used to cross-subsidize other – often at the expense of capital formation and re-investment in the profitable activity, etc.

Fundamental to above issues is the reality that governments pursue many policy objectives in transportation – sometimes even parallel objectives that embody dynamic tensions, if not contradictions.

With regard to transport infrastructure, NATMAP 2050 recognises that much of it has attributes of natural monopolies, and, that the costs of provision more often than not are difficult to recover from users and hence engender distributive outcomes. As such, the funding options adopted for infrastructure provision impact more significantly on the achievability of NATMAP 2050 Funding Postulates prescriptions than is commonly the case for operational investments.

Notwithstanding the above, public ownership and operation of transport infrastructure is a legitimate and common policy choice. However, if chosen, the state-owned infrastructure provider must be subject to tests of efficiency and sustainability that NATMAP Funding Postulates prescribe. It is in this light that contributions calling vertical separation must be evaluated. Indeed, there is a *prima facie* case for vertical separation where the infrastructure is seen as a natural monopoly, but the service provision thereupon may be rendered competitively or, at least, periodically contestable. International evidence supports such a stance, for example, in port and airport infrastructure. However, in the case of rail, and mass transit (metros and tram systems), the evidence is more complex. The technological and economic interface between the infrastructure and the rolling stock that uses it is complex. When separated, the management of this interface can be difficult and/or costly. Also, international practice does not provide incontrovertible best practice of long-term sustainable on-track competition - especially for passenger rail. Of course, this does not preclude the introduction of periodic contestability of concessions or franchises.

Sectoral Funding Principles

Deriving from the notion of basic level of service under section 2.2 and the efficiency criterion in 2.3 as well as from the NATMAP 2050 Funding Postulates under section 3:

Road Mode

Road infrastructure (construction, rehabilitation and maintenance) is expected to continue to be funded by the public sector - including state agencies, during the planning period to 2050.

Road haulage should continue to be provided by the private sector in a competitive environment. However, user charges should increasingly reflect the cost of access to the publicly funded infrastructure. In line with international best practice outlined under section 5 above, user charges should also increasingly incorporate and reflect social marginal costs.

Passenger users should also be levied user charges; however, care should be taken not to engender access and affordability constraints which would violate the equity Funding Postulate. This will entail taking cognizance of the country's 3-sphere institutional and governance structure in devising user charges that follow the 4-level user charge evolution contemplated under section 5.2 above, viz., ownership fees (network access fee) accruing at local level, facility use fee accruing at local and provincial levels, weight-distance tax accruing at provincial and national levels, and environmental degradation charges accruing at national level.

Consequently, charges should reflect benefits that accrue to freight users relative to non-commercial passenger users.

Rail Mode

Rail infrastructure includes tracks, marshalling yards, power supply and catenaries, telecommunications and control systems, bridges and tunnels. International experience with vertical separation is not compelling, to a great extent due to the operational complexity that ensued where it was attempted.

For both passenger and freight operations on existing infrastructure, the integrated formula is best left in tact. However, access financial arrangements between SARCC and Freight Rail must be regulated, with access charge regime biased in favour of passenger transport, and freight gradually migrating towards an economic rates regime to better reflect the cost of infrastructure provision.

As a matter of policy and deference to rail efficiency for mass goods/passenger transportation, the charge regime should be consciously favoured against road.

The Gautrain and Moloto Corridor high speed rail on standard gauge lead the rail rejuvenation in SA. The momentum must be sustained. Future green-field rail projects such as high speed lines, new freight lines, major station developments and re-developments must consider incorporating PPPs and/or concession parties other than incumbents to instil a measure of competition in the provision of service – as well as infrastructure, where financially feasible.

In the meantime, branch line infrastructure needs to be housed in a dedicated rail infrastructure agency and alternative operation sought.

Maritime Mode

NATMAP 2050 favours the landlord model. In this model, the infrastructure provision is for a corporatized and commercially run ports landlord to provide navigation infrastructure, channel maintenance, wharves, utilities and common areas – such as the internal roads. However, the incumbent should look to enhance efficiency through outsourcing non-core/support activities tug services and maintenance. Shipping/barge and stevedoring services would be leased and/or competitively concessioned.

Pipeline Mode

The Pipeline mode infrastructure and operation should remain vertically integrated, but new capacity must be competitively concessioned.

Air Mode

Current ACSA – airport infrastructure and operation, and ATNS – air navigation infrastructure and operation should be retained under the regulated regime. As already the case, airport services – baggage handling, catering, aircraft refuelling, etc should be competitively concessioned. Car parks should be also tendered out. In essence, save for the ATNS function at airports, the preferred airport infrastructure provision model would simulate that of the maritime ports.

3.4.2 Expenditure Requirement of NATMAP Projects

The expenditure requirement of **NATMAP National** projects are presented in **Table 3.4.1**.

Table 3.4.1: Expenditure requirement of NATMAP National Projects

| Category | Total/Residual Cost (R Million) | Short -Term (R million) | | | | | Medium -Term (R million) | Long-Term (R million) |
|------------------------------------------------|---------------------------------|-------------------------|--------------|---------------|---------------|---------------|--------------------------|-----------------------|
| | | 2010 | 2011 | 2012 | 2013 | 2014 | 2015-2030 | 2030-2050 |
| Institutional | 335 | 0 | 0 | 125 | 126 | 55 | 29 | 0 |
| Legal | 31 | 0 | 0 | 29 | 2 | 0 | 0 | 0 |
| Planning-Passenger Operations | 30 | 0 | 0 | 15 | 15 | 0 | 0 | 0 |
| Planning-Freight Operations | 126 | 0 | 0 | 10 | 4 | 0 | 112 | 0 |
| Rail -Passenger Infrastructure | 171,320 | 0 | 0 | 3,327 | 7,207 | 10,528 | 54,520 | 95,738 |
| Rail -Freight Infrastructure | 78,368 | 0 | 0 | 2,986 | 2,986 | 2,986 | 9,500 | 59,909 |
| Road | 19,830 | 0 | 0 | 7,500 | 2,830 | 2,000 | 7,500 | 0 |
| Pipeline | 11,200 | 5,200 | 3,000 | 3,000 | 0 | 0 | 0 | 0 |
| Backlog Elimination | 52,454 | 0 | 0 | 52,454 | 0 | 0 | 0 | 0 |
| Routine/Periodic Maintenance: National Roads | 26,905 | 0 | 0 | 121 | 121 | 121 | 11,375 | 15,167 |
| Routine/Periodic Maintenance: Provincial Roads | 72,946 | 0 | 0 | 410 | 410 | 410 | 30,736 | 40,981 |
| Total : National Projects | 433,545 | 5,200 | 3,000 | 69,977 | 13,701 | 16,100 | 113,772 | 211,795 |

Source: Consultants Estimates . 1. Project Costs at Constant prices (2010)

The expenditure requirements of all NATMAP Provincial projects are presented in **Table 3.2.1**.

Table 3.4.2: Expenditure requirements of all NATMAP Provincial projects

| Category | Total/Residual Cost (R Million) | Short -Term (R Million) | | | | | Medium - Term(R Million) | Long-Term(R Million) |
|-------------------------------------------------------|---------------------------------|-------------------------|----------|---------------|---------------|---------------|--------------------------|----------------------|
| | | 2010 | 2011 | 2012 | 2013 | 2014 | 2015-2030 | 2030-2050 |
| Road | | | | | | | | |
| Road-SANRAL(Toll+ Non-Toll) | | | | | | | | |
| EC | 6210 | - | - | 220 | 530 | 460 | 2500 | 2500 |
| FS | 1350 | - | - | - | - | - | 1350 | 0 |
| GP | 1678 | - | - | 505 | 750 | 424 | - | - |
| KZN | 26477 | - | - | 1984 | 2224 | 3899 | 11572 | 6798 |
| LP | 1948 | - | - | 67 | 84 | 1051 | 746 | 0 |
| MP | 1307 | - | - | 173 | 173 | 173 | 0 | 787 |
| NC | 1948 | - | - | 381 | 110 | 110 | 1347 | 0 |
| NW | 5618 | - | - | 2672 | 774 | 774 | 1088 | 311 |
| WC | 34269 | - | - | 1420 | 2635 | 4457 | 7011 | 18747 |
| Total -Road-SANRAL(Toll+ Non-Toll) | 80805 | 0 | 0 | 7421 | 7279 | 11348 | 25613 | 29143 |
| Provincial Roads of National Importance | | | | | | | | |
| EC | 22,011 | - | - | 4,632 | 4,632 | 5,422 | 5,185 | 2,140 |
| FS | 3,162 | - | - | 242 | 126 | 135 | 2,258 | 400 |
| GP | 8,784 | - | - | 3,717 | 3,649 | 1,418 | - | - |
| KZN | 13,957 | - | - | - | - | 545 | 5,468 | 7,944 |
| LP | 1,586 | - | - | 325 | 500 | 500 | 261 | 0 |
| MP | 2,412 | - | - | 320 | 274 | 274 | 290 | 1,254 |
| NC | 2,473 | - | - | 123 | 36 | 36 | 0 | 2,279 |
| NW | 964 | - | - | 315 | 91 | 91 | 52 | 414 |
| WC | 29,709 | - | - | 1,377 | 2,017 | 4,920 | 14,749 | 6,648 |
| Total -Provincial Roads of National Importance | 85,058 | 0 | 0 | 11,052 | 11,324 | 13,340 | 28,263 | 21,078 |
| Facilities | | | | | | | | |
| Facilities-Passenger | | | | | | | | |
| EC | 150 | - | - | 0 | 5 | 65 | 65 | 15 |
| FS | 274 | - | - | 91 | 91 | 91 | - | - |
| GP | 150 | - | - | 69 | 60 | 21 | - | - |
| KZN | 0 | - | - | - | - | - | - | - |
| LP | 1,166 | - | - | 313 | 313 | 313 | 226 | - |
| MP | 8,497 | - | - | 5 | 41 | 38 | 8,413 | - |
| NC | 74 | - | - | - | - | - | 74 | - |
| NW | 60 | - | - | - | - | - | 60 | - |

| Category | Total/Residual Cost (R Million) | Short -Term (R Million) | | | | | Medium - Term(R Million) | Long-Term(R Million) |
|---------------------------------------------|---------------------------------|-------------------------|----------|--------------|--------------|--------------|--------------------------|----------------------|
| | | 2010 | 2011 | 2012 | 2013 | 2014 | 2015-2030 | 2030-2050 |
| WC | 0 | - | - | - | - | - | 0 | - |
| Total-Facilities(Passenger) | 10,370 | 0 | 0 | 479 | 510 | 528 | 8,837 | 15 |
| Facilities-Freight | | | | | | | | |
| EC | 100 | - | - | - | - | - | 100 | 0 |
| FS | 0 | - | - | - | - | - | - | - |
| GP | 20 | - | - | 7 | 7 | 7 | - | - |
| KZN | 0 | - | - | 0 | 0 | 0 | - | - |
| LP | 320 | - | - | 69 | 89 | 89 | 73 | 0 |
| MP | 204 | - | - | 68 | 68 | 68 | - | - |
| NC | 0 | - | - | - | - | - | - | - |
| NW | 0 | - | - | - | - | - | - | - |
| WC | 0 | - | - | - | - | - | - | - |
| Total-Facilities(Freight) | 644 | 0 | 0 | 144 | 164 | 164 | 173 | 0 |
| Rail | | | | | | | | |
| Rail-Freight Infrastructure | | | | | | | | |
| EC | 2,490 | - | - | - | - | - | 2,490 | 0 |
| FS | 200 | - | - | - | - | - | 0 | 200 |
| GP | 3,796 | - | - | 90 | 68 | 68 | 2,562 | 1,010 |
| KZN | 26,640 | - | - | 1,518 | 2,011 | 2,368 | 15,864 | 4,880 |
| LP | 3,102 | - | - | - | - | - | 3,102 | 0 |
| MP | 8,144 | - | - | - | - | - | 6,318 | 1,826 |
| NC | 6,286 | - | - | 609 | 609 | 0 | 4,920 | 148 |
| NW | 3,779 | - | - | 0 | 18 | 18 | 3,704 | 40 |
| WC | 4,708 | - | - | 38 | 41 | 92 | 250 | 4,286 |
| Total -Rail (Freight Infrastructure) | 59,144 | 0 | 0 | 2,255 | 2,746 | 2,546 | 39,208 | 12,389 |
| Ports | | | | | | | | |
| EC | 10,382 | - | - | - | - | - | 6,078 | 4,304 |
| FS | | - | - | - | - | - | - | - |
| GP | | - | - | - | - | - | - | - |
| KZN | 80,210 | - | - | 17,177 | 6,871 | 6,871 | 29,880 | 19,410 |
| LP | | - | - | - | - | - | - | - |
| MP | | - | - | - | - | - | - | - |
| NC | | - | - | - | - | - | - | - |
| NW | | - | - | - | - | - | - | - |

| Category | Total/Residual Cost (R Million) | Short -Term (R Million) | | | | | Medium - Term(R Million) | Long-Term(R Million) |
|-----------------------------------------------|---------------------------------|-------------------------|----------|---------------|--------------|--------------|--------------------------|----------------------|
| | | 2010 | 2011 | 2012 | 2013 | 2014 | 2015-2030 | 2030-2050 |
| WC | 20,020 | - | - | 3,207 | 1,283 | 1,283 | 12,550 | 1,700 |
| Total -Ports | 110,612 | 0 | 0 | 20,383 | 8,153 | 8,153 | 48,508 | 25,414 |
| Airports | | | | | | | | |
| Airports-Infrastructure | | | | | | | | |
| EC | 2,205 | - | - | 63 | 167 | 263 | 1,712 | 0 |
| FS | 551 | - | - | - | - | 11 | 84 | 456 |
| GP | 14 | - | - | 5 | 5 | 5 | - | - |
| KZN | 24,560 | - | - | 166 | 166 | 207 | 7,855 | 16,165 |
| LP | 20 | - | - | - | - | - | 20 | 0 |
| MP | 256 | - | - | - | - | - | 150 | 106 |
| NC | 231 | - | - | - | - | - | 119 | 112 |
| NW | 91 | - | - | - | - | - | 0 | 91 |
| WC | 24,171 | - | - | 1,774 | 1,773 | 2,113 | 7,710 | 10,800 |
| Total -Airports (Infrastructure) | 52,099 | 0 | 0 | 2,008 | 2,112 | 2,599 | 17,650 | 27,730 |
| Airports (Passenger Operations) | | | | | | | | |
| EC | - | - | - | - | - | - | - | - |
| FS | - | - | - | - | - | - | - | - |
| GP | - | - | - | - | - | - | - | - |
| KZN | - | - | - | - | - | - | - | - |
| LP | - | - | - | - | - | - | - | - |
| MP | 162 | - | - | - | - | - | - | 162 |
| NC | 7 | - | - | - | - | - | - | 7 |
| NW | 4 | - | - | - | - | - | - | 4 |
| WC | - | - | - | - | - | - | - | - |
| Total -Airports (Passenger Operations) | 173 | 0 | 0 | 0 | 0 | 0 | 0 | 173 |
| Pipeline | | | | | | | | |
| EC | 500 | - | - | - | - | - | 500 | - |
| FS | - | - | - | - | - | - | - | - |
| GP | - | - | - | - | - | - | - | - |
| KZN | - | - | - | - | - | - | - | - |
| LP | - | - | - | - | - | - | - | - |
| MP | - | - | - | - | - | - | - | - |
| NC | - | - | - | - | - | - | - | - |
| NW | - | - | - | - | - | - | - | - |
| WC | - | - | - | - | - | - | - | - |

| Category | Total/Residual Cost (R Million) | Short -Term (R Million) | | | | | Medium - Term(R Million) | Long-Term(R Million) |
|-----------------------------------------|---------------------------------|-------------------------|----------|---------------|---------------|---------------|--------------------------|----------------------|
| | | 2010 | 2011 | 2012 | 2013 | 2014 | 2015-2030 | 2030-2050 |
| Total -Pipeline | 500 | 0 | 0 | 0 | 0 | 0 | 500 | 0 |
| Planning | | | | | | | | |
| EC | 236 | - | - | 31 | 25 | 39 | 75 | 65 |
| FS | 262 | - | - | 8 | 9 | 12 | 145 | 88 |
| GP | 7,004 | - | - | 391 | 1,170 | 3,220 | 2,222 | 0 |
| KZN | 0 | - | - | 0 | 0 | 0 | 0 | 0 |
| LP | 11,868 | - | - | 277 | 513 | 1,129 | 9,745 | 206 |
| MP | 2,485 | - | - | 40 | 132 | 120 | 102 | 2,090 |
| NC | 0 | - | - | - | - | - | - | - |
| NW | 17,801 | - | - | - | - | - | 15,570 | 2,231 |
| WC | 0 | - | - | - | - | - | - | - |
| Total -Planning | 39,656 | 0 | 0 | 748 | 1,850 | 4,520 | 27,859 | 4,680 |
| NMT | | | | | | | | |
| EC | 2 | - | - | 1 | - | - | - | - |
| FS | - | - | - | - | - | - | - | - |
| GP | - | - | - | - | - | - | - | - |
| KZN | - | - | - | - | - | - | - | - |
| LP | 2,100 | - | - | 63 | 63 | 520 | 982 | 473 |
| MP | 468 | - | - | 51 | 44 | 44 | 328 | - |
| NC | - | - | - | - | - | - | - | - |
| NW | - | - | - | - | - | - | - | - |
| WC | - | - | - | - | - | - | - | - |
| Total -NMT | 2,570 | 0 | 0 | 116 | 108 | 564 | 1,310 | 473 |
| Road-Freight Operations | | | | | | | | |
| EC | 215 | - | - | 12 | 22 | 32 | 150 | - |
| FS | 118 | - | - | - | - | - | 118 | - |
| GP | - | - | - | - | - | - | - | - |
| KZN | - | - | - | - | - | - | - | - |
| LP | 30 | - | - | 19 | 6 | 6 | - | - |
| MP | 5 | - | - | 2 | 2 | 2 | - | - |
| NC | 5 | - | - | 3 | 1 | 1 | - | - |
| NW | - | - | - | - | - | - | - | - |
| WC | - | - | - | - | - | - | - | - |
| Total -Road (Freight Operations) | 373 | 0 | 0 | 36 | 30 | 40 | 268 | 0 |
| Total (RSA) | 442,003 | 0 | 0 | 44,642 | 34,276 | 43,802 | 198,189 | 121,095 |

Source: Consultants Estimates .1. Project Costs at Constant prices (2010)

3.4.3 Comparison of Revenue And Expenditure

Table 3.4.3 compares the Revenue from various sources to the total expenditure in order to determine the amount of deficit, if any. Actions to fund deficits are also indicated.

Table 3.4.3: Comparison of Revenue and Expenditure

| Category | Sources of Funding (R million) | Additional NATMAP Projects (R million) | Total Projects (Agency + NATMAP) | Deficit/Surplus | Downstream Action (in Case of Deficit) |
|-----------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------|-----------------------------------|-----------------|---------------------------------------------------------|
| Roads | SANRAL (Toll+ Non Toll Capex Plans) | NATMAP Road Projects | | | |
| 2010 | 16,453 | 0 | 16,453 | 0 | Treasury/Share of Access and User charges |
| 2011 | 10,962 | 0 | 10,962 | 0 | |
| 2012 | 7,644 | 14,921 | 22,566 | -14,921 | |
| 2013 | 8,409 | 10,109 | 23,330 | -10,109 | |
| 2014 | 9,250 | 13,348 | 24,171 | -13,348 | |
| Provincial Roads of National Importance | Access/User Charges | NATMAP Road Projects | | | |
| 2010 | 0 | 0 | 0 | 0 | Utilise share of Access and User Charges |
| 2011 | 0 | 0 | 0 | 0 | |
| 2012 | 32,161 | 11,052 | 11,052 | 21,110 | |
| 2013 | 88,089 | 11,324 | 11,324 | 76,765 | |
| 2014 | 91,749 | 13,340 | 13,340 | 78,409 | |
| Maintenance/Elimination of Backlog/Overheads | Existing Collection of licensing fees + Proposed Access/User Charges | | | | |
| 2010 | 4,571 | 0 | 4,571 | 0 | Surplus to be utilised to cover for road mode shortfall |
| 2011 | 4,898 | 0 | 4,898 | 0 | |
| 2012 | 85,300 | 53,139 | 32,161 | 32,161 | |
| 2013 | 88,748 | 659 | 88,089 | 88,089 | |
| 2014 | 92,335 | 586 | 91,749 | 91,749 | |
| Facilities | Securitization/Value Capture | NATMAP Facilities Projects | | | |
| 2010 | 0 | 0 | 0 | 0 | NDOT + Provincial DOT |
| 2011 | 0 | 0 | 0 | 0 | |

| Category | Sources of Funding (R million) | Additional NATMAP Projects (R million) | Total Projects (Agency + NATMAP) | Deficit/Surplus | Downstream Action (in Case of Deficit) |
|--------------------------------------|-----------------------------------------------------|--------------------------------------------------------|-----------------------------------|-----------------|------------------------------------------------------------------------------|
| 2012 | 0 | 623 | 623 | 0 | |
| 2013 | 0 | 674 | 674 | 0 | |
| 2014 | 0 | 692 | 692 | 0 | |
| Rail -Freight Infrastructure | Divisional Income -(TFR + Rail Engineering) | NATMAP Rail (Freight Infrastructure) Projects | | | |
| 2010 | 10,874 | 0 | 10,874 | 0 | Deficit if any, Group Balance Sheet , Bond, Debt Funding, PSP for Operations |
| 2011 | 11,130 | 0 | 11,130 | 0 | |
| 2012 | 8,812 | 5,242 | 14,054 | -5,242 | |
| 2013 | 8,313 | 5,733 | 14,046 | -5,733 | |
| 2014 | 7,335 | 5,532 | 12,867 | -5,532 | |
| Rail-Passenger Infrastructure | PRASA | NATMAP Rail(Passenger Infrastructure) Projects | | | |
| 2010 | 7,688 | 0 | 7,688 | 0 | Government Gurantee, Treasury |
| 2011 | 8,608 | 0 | 8,608 | 0 | |
| 2012 | Not Available | 3,327 | 3,327 | 0 | |
| 2013 | Not Available | 7,207 | 7,207 | 0 | |
| 2014 | Not Available | 10,528 | 10,528 | 0 | |
| Ports | Divisional Income(NPA + Port Terminals) | NATMAP Port Projects | | | |
| 2010 | 6,717 | 0 | 6,717 | 0 | Deficit if any, Group Balance Sheet , Bond, Debt Funding, PSP for Operations |
| 2011 | 4,670 | 0 | 4,670 | 0 | |
| 2012 | 5,113 | 20,383 | 25,496 | -20,383 | |
| 2013 | 4,305 | 8,153 | 12,458 | -8,153 | |
| 2014 | 1,720 | 8,153 | 9,873 | -8,153 | |
| Pipeline | Divisional Income(Petronet) | NATMAP Pipeline Projects | | | |
| 2010 | 4,356 | 0 | 4,356 | 0 | Deficit if any, Group Balance Sheet , Bond, Debt Funding, PSP for Operations |
| 2011 | 3,722 | 0 | 3,722 | 0 | |
| 2012 | 2,368 | 0 | 2,368 | 0 | |
| 2013 | 491 | 0 | 491 | 0 | |
| 2014 | 189 | 0 | 189 | 0 | |

| Category | Sources of Funding (R million) | Additional NATMAP Projects (R million) | Total Projects (Agency + NATMAP) | Deficit/Surplus | Downstream Action (in Case of Deficit) |
|----------------------------------------------|--------------------------------|----------------------------------------|----------------------------------|-----------------|-------------------------------------------------------|
| Airports (Infrastructure+ Operations) | ACSA + ATNS | NATMAP Airport Projects | | | |
| 2010 | 304,935 | 0 | 304,935 | 0 | Bond, Debt Funding, PSP for Operations |
| 2011 | 574,830 | 0 | 574,830 | 0 | |
| 2012 | 2,099,850 | 2,008 | 2,101,858 | -2,008 | |
| 2013 | 5,090,059 | 2,112 | 5,092,171 | -2,112 | |
| 2014 | 5,057,491 | 2,599 | 5,060,090 | -2,599 | |
| All Planning Projects | NDOT + Provincial DOT | NATMAP Planning Projects | | | |
| 2010 | 0 | 0 | 0 | 0 | Deficit if any to be complemented by Treasury and PSP |
| 2011 | 0 | 0 | 0 | 0 | |
| 2012 | 0 | 809 | 809 | -809 | |
| 2013 | 0 | 1,898 | 1,898 | -1,898 | |
| 2014 | 0 | 4,560 | 4,560 | -4,560 | |

3.5 IMPLEMENTATION

The promulgation of a NATMAP 2050 Implementation Act, incorporating all facets of transportation planning across the spheres of government, fostering comprehensive co-ordination and co-operation, establishing norms and standards with regard to project analysis to incorporate both economic and financial assessment within given policy framework(s), integrated multi-modal goal achievement matrices that are measurable in response to land-use priorities and emerging land-use trends.

The NATMAP 2050 Implementation Act should – among other - prescribe:

- Planning cycles and plan interface among and between the various spheres of government,
- institutional support and executional structures (such as TICH),
- a seamless interface with the workings of the National Planning Commission as the primary input source for transportation investment throughout the country,
- the empowerment conditions for mode-specific role players to execute upon their sectoral mandates,

4 SUMMARY AND CONCLUSIONS

This Draft Version 1 of report of Phase 4 provides an Action Agenda, consists of an implementation plan, in terms of which the identified projects can be implemented. Projects are described and programmed into different time periods, and a Goal Achievement Matrix is applied in order to prioritise projects for implementation. Goals and objectives were formulated by means of which projects were prioritised. Financial, Institutional and Legal requirements for the successful implementation of the National Transport Master Plan is also provided.

To finalise Phase 4, another round of refinement and integration between provinces is required. The Phase 4 results will be presented to various Stakeholders at the last Round Table Conference of NATMAP, after which the final Phase 4 report will be produced.

Following final comments from KZN and national stakeholders, a final version of the reports of all Phases will be produced, which will be the conclusion of the current NATMAP project.

It is however crucial that NATMAP is implemented by all the transport authorities in the country. The DoT and public entities, SANRAL, TRANSNET, PRASA and ACSA, will have to play a crucial role to ensure that NATMAP is implemented. This first National Transport Master Plan must be regarded as only the start of a continuous process consisting of annual updates and refinement of the Plan. The proposed NATMAP Implementation Act will be crucial to facilitate coordination between all Stakeholders and effective implementation.

ADDENDUM A1

PROJECT DESCRIPTIONS FOR KZN PROVINCE



NATMAP 2050

Project Information and GAM Score (2010)

Project Information and GAM Score

KwaZulu Natal

| | | |
|-------------------|-----------------------------|---------------------------------------------------------------------|
| GAM Score: | Project Name: | KZN N3 a |
| 100 | Project Description: | de Beer's Pass route construction between Keeversfontein and Warden |

| | | |
|-----------------------------|------------------------|----------------------------|
| Project Programming: | Project Type: | Other project type: |
| 2010 - 2015 | Infrastructure - Roads | |

| | |
|------------------------|--------------------------|
| Project Extent: | Project Location: |
| National | KwaZulu Natal |

| | | |
|-----------------------------------|----------------------|--------------------------------------|
| First Order Lifetime Cost: | Capital Cost: | Maintenance/Operational Cost: |
| R. | R5,200.00 | R.00 |

| | | |
|----------------------------------|----------------------------|----------------------------------|
| Committed Funding or not: | Funding mechanisms: | Other Funding Mechanisms: |
| Committed | PPP | N.A. |

| |
|--------------------------------------|
| Institutional Responsibility: |
| N3 Toll Company |

| | | |
|-------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GAM Score: | Project Name: | Upgrade and Expand Durban Port (a) |
| 100 | Project Description: | Dbn container terminal re-engineering; Develop Dbn South Port port for containers; additional single bouy mooring for oil imports; reconstruct and deepen Maydon Warf berth; upgrade road and rail access. |

| | | |
|-----------------------------|------------------------|----------------------------|
| Project Programming: | Project Type: | Other project type: |
| 2010 - 2015 | Infrastructure - Ports | |

| | |
|------------------------|--------------------------|
| Project Extent: | Project Location: |
| Provincial | KwaZulu Natal |

| | | |
|-----------------------------------|----------------------|--------------------------------------|
| First Order Lifetime Cost: | Capital Cost: | Maintenance/Operational Cost: |
| R. | R25,920,000.00 | R.00 |

| | | |
|----------------------------------|----------------------------|----------------------------------|
| Committed Funding or not: | Funding mechanisms: | Other Funding Mechanisms: |
| Committed | Fiscus | Transnet |

| |
|--------------------------------------|
| Institutional Responsibility: |
| Transnet |

Project Information and GAM Score

| | | | |
|--------------------------------------|-----------------------------|---------------------------------------------------------------------------------------------------|--|
| GAM Score: | Project Name: | Upgrade and Expand Richards Bay Port (a) | |
| 100 | Project Description: | Increase dry bulk handling facilities; Increase break bulk capacity; improve road and rail access | |
| Project Programming: | Project Type: | Other project type: | |
| 2010 - 2015 | Infrastructure - Ports | | |
| Project Extent: | Project Location: | | |
| Provincial | KwaZulu Natal | | |
| First Order Lifetime Cost: | Capital Cost: | Maintenance/Operational Cost: | |
| R. | R5,000,000.00 | R.00 | |
| Committed Funding or not: | Funding mechanisms: | Other Funding Mechanisms: | |
| Committed | Fiscus | Transnet funding | |
| Institutional Responsibility: | | | |
| Transnet | | | |

| | | | |
|--------------------------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| GAM Score: | Project Name: | Pietermaritzburg Airport Upgrade(a) | |
| 100 | Project Description: | 1. Construct of parallel taxiway 2. Construction of link taxiway to parallel taxiway 3. Relocation of fuel farm 4. upgrade of terminal building | |
| Project Programming: | Project Type: | Other project type: | |
| 2010 - 2015 | Infrastructure - Airports | | |
| Project Extent: | Project Location: | | |
| National | KwaZulu Natal | | |
| First Order Lifetime Cost: | Capital Cost: | Maintenance/Operational Cost: | |
| R. | R20.00 | R.00 | |
| Committed Funding or not: | Funding mechanisms: | Other Funding Mechanisms: | |
| Committed | Other | Municipal funding | |
| Institutional Responsibility: | | | |
| Municipality | | | |

Project Information and GAM Score

| | | |
|-------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------|
| GAM Score: | Project Name: | Pietermaritzburg Airport Upgrading (b) |
| 100 | Project Description: | 1. Upgrade runway to code 3C (Lengthen from 1,537 to 1,800m) 2. Upgrade Terminal Building to 300 pax per hr |

| | | |
|-----------------------------|---------------------------|----------------------------|
| Project Programming: | Project Type: | Other project type: |
| 2015 - 2030 | Infrastructure - Airports | |

| | |
|------------------------|--------------------------|
| Project Extent: | Project Location: |
| National | KwaZulu Natal |

| | | |
|-----------------------------------|----------------------|--------------------------------------|
| First Order Lifetime Cost: | Capital Cost: | Maintenance/Operational Cost: |
| R. | R20.00 | R.00 |

| | | |
|----------------------------------|----------------------------|----------------------------------|
| Committed Funding or not: | Funding mechanisms: | Other Funding Mechanisms: |
| Committed | Other | Municipal funding |

| |
|--------------------------------------|
| Institutional Responsibility: |
| Municipality |

| | | |
|-------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|
| GAM Score: | Project Name: | Pietermaritzburg Airport Upgrading (C) © |
| 100 | Project Description: | 1. Upgrade runway to code 4C (2,400m x 45m) 2. Upgrade terminal building to capacity of 600 passengers per hour 3. Parking 6 x Code 3C |

| | | |
|-----------------------------|---------------------------|----------------------------|
| Project Programming: | Project Type: | Other project type: |
| 2030 - 2050 | Infrastructure - Airports | |

| | |
|------------------------|--------------------------|
| Project Extent: | Project Location: |
| National | KwaZulu Natal |

| | | |
|-----------------------------------|----------------------|--------------------------------------|
| First Order Lifetime Cost: | Capital Cost: | Maintenance/Operational Cost: |
| R. | R45.00 | R.00 |

| | | |
|----------------------------------|----------------------------|----------------------------------|
| Committed Funding or not: | Funding mechanisms: | Other Funding Mechanisms: |
| Committed | Other | Municipal funding |

| |
|--------------------------------------|
| Institutional Responsibility: |
| Municipality |

Project Information and GAM Score

| | | | |
|--------------------------------------|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| GAM Score: | Project Name: | Richards Bay Airport Upgrade (a) | |
| 100 | Project Description: | 1. Lengthen runway 1,500m to 1,800m 2. Widen runway 22m to 30m 3. New terminal building in new location (200 pax/hr) 4. new aircraft parking (3 x Code 3C) | |
| Project Programming: | Project Type: | Other project type: | |
| 2010 - 2015 | Infrastructure - Airports | | |
| Project Extent: | Project Location: | | |
| National | KwaZulu Natal | | |
| First Order Lifetime Cost: | Capital Cost: | Maintenance/Operational Cost: | |
| R. | R50.00 | R.00 | |
| Committed Funding or not: | Funding mechanisms: | Other Funding Mechanisms: | |
| Committed | PPP | N.A. | |
| Institutional Responsibility: | | | |
| Private company | | | |

| | | | |
|--------------------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------|--|
| GAM Score: | Project Name: | Richards Bay Airport Upgrade (b) | |
| 100 | Project Description: | 1. Upgrade runway to Code 4C 2. Upgrade terminal building to capacity of 300 passengers per hour 3. Parking 4 x Code 3C | |
| Project Programming: | Project Type: | Other project type: | |
| 2030 - 2050 | Infrastructure - Airports | | |
| Project Extent: | Project Location: | | |
| National | KwaZulu Natal | | |
| First Order Lifetime Cost: | Capital Cost: | Maintenance/Operational Cost: | |
| R. | R80.00 | R.00 | |
| Committed Funding or not: | Funding mechanisms: | Other Funding Mechanisms: | |
| Committed | PPP | N.A. | |
| Institutional Responsibility: | | | |
| Private company | | | |

Project Information and GAM Score

| | | | |
|--------------------------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------|--|
| GAM Score: | Project Name: | Margate Airport Upgrading (a) | |
| 100 | Project Description: | 1. Upgrade runway to Code 3C 2. Construct new terminal building with capacity of 300 passengers per hour. 3. Parking 4 x Code 3C | |
| Project Programming: | Project Type: | Other project type: | |
| 2030 - 2050 | Infrastructure - Airports | | |
| Project Extent: | Project Location: | | |
| National | KwaZulu Natal | | |
| First Order Lifetime Cost: | Capital Cost: | Maintenance/Operational Cost: | |
| R. | R40.00 | R.00 | |
| Committed Funding or not: | Funding mechanisms: | Other Funding Mechanisms: | |
| Committed | Other | Municipal | |
| Institutional Responsibility: | | | |
| Municipality | | | |

| | | | |
|--------------------------------------|-----------------------------|-----------------------------------------|--|
| GAM Score: | Project Name: | New Airport at La Mercy (a) | |
| 100 | Project Description: | 1. Complete construction of new airport | |
| Project Programming: | Project Type: | Other project type: | |
| 2010 - 2015 | Infrastructure - Airports | | |
| Project Extent: | Project Location: | | |
| National | KwaZulu Natal | | |
| First Order Lifetime Cost: | Capital Cost: | Maintenance/Operational Cost: | |
| R. | R460.00 | R.00 | |
| Committed Funding or not: | Funding mechanisms: | Other Funding Mechanisms: | |
| Committed | Other | ACSA funding | |
| Institutional Responsibility: | | | |
| ACSA | | | |

Project Information and GAM Score

| | | | |
|--------------------------------------|-----------------------------|-----------------------------------------------------------|--|
| GAM Score: | Project Name: | La Mercy Airport Upgrading (b) | |
| 100 | Project Description: | 1. Upgrade landside parking 2. Terminal upgrade 13 MAP | |
| Project Programming: | Project Type: | Other project type: | |
| 2015 - 2030 | Infrastructure - Airports | | |
| Project Extent: | Project Location: | | |
| National | KwaZulu Natal | | |
| First Order Lifetime Cost: | Capital Cost: | Maintenance/Operational Cost: | |
| R. | R7,800.00 | R.00 | |
| Committed Funding or not: | Funding mechanisms: | Other Funding Mechanisms: | |
| Committed | Other | ACSA funding | |
| Institutional Responsibility: | | | |
| ACSA | | | |

| | | | |
|--------------------------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| GAM Score: | Project Name: | La Mercy Airport Upgrading (c) | |
| 100 | Project Description: | 1. Increase apron parking 2. Second runway (with taxiways and aviation aids) 3. Aircraft parking 4. Landside and terminal upgrade to 42 MAP | |
| Project Programming: | Project Type: | Other project type: | |
| 2030 - 2050 | Infrastructure - Airports | | |
| Project Extent: | Project Location: | | |
| National | KwaZulu Natal | | |
| First Order Lifetime Cost: | Capital Cost: | Maintenance/Operational Cost: | |
| R. | R8,000.00 | R.00 | |
| Committed Funding or not: | Funding mechanisms: | Other Funding Mechanisms: | |
| Committed | Other | ACSA funding | |
| Institutional Responsibility: | | | |
| ACSA | | | |

Project Information and GAM Score

| | | |
|-------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| GAM Score: | Project Name: | Develop Second Airport near Durban |
| 100 | Project Description: | 1. Identify Location 2. Reserve land for airport (4,000 ha) 3. Design and construction of airport 4. Airport to be operational by 2055 |

| | | |
|-----------------------------|---------------------------|----------------------------|
| Project Programming: | Project Type: | Other project type: |
| 2030 - 2050 | Infrastructure - Airports | |

| | |
|------------------------|--------------------------|
| Project Extent: | Project Location: |
| National | KwaZulu Natal |

| | | |
|-----------------------------------|----------------------|------------------------------------|
| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R. | R8,000.00 | R.00 |

| | | |
|----------------------------------|-----------------------------|----------------------------------|
| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: |
| Committed | Other | ACSA funding |

| |
|--------------------------------------|
| Institutional Responsibility: |
| ACSA |

| | | |
|-------------------|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GAM Score: | Project Name: | KZN 7 Rail:Richards Bay - Piet Retief Improve capacity of the |
| 100 | Project Description: | Improve the capacity of the coal line between Richards Bay and Piet Retief through various projects to improve the reliability of the infrastructure and rolling stock |

| | | |
|-----------------------------|-----------------------|----------------------------|
| Project Programming: | Project Type: | Other project type: |
| 2010 - 2015 | Infrastructure - Rail | |

| | |
|------------------------|--------------------------|
| Project Extent: | Project Location: |
| National | KwaZulu Natal |

| | | |
|-----------------------------------|----------------------|------------------------------------|
| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R. | R5,656.00 | R.00 |

| | | |
|----------------------------------|-----------------------------|----------------------------------|
| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: |
| Committed | Other | Transnet |

| |
|--------------------------------------|
| Institutional Responsibility: |
| Transnet |

Project Information and GAM Score

| | | |
|-------------------|-----------------------------|--------------------------------------------------------------------------------------------------|
| GAM Score: | Project Name: | Multimodal transfer at Jameson Park for transfer from pipeline t |
| 100 | Project Description: | This project shall enable efficient transfer from pipeline to road mode at the transfer station. |

| | | |
|-----------------------------|----------------------------|----------------------------|
| Project Programming: | Project Type: | Other project type: |
| 2010 - 2015 | Infrastructure - Pipelines | |

| | |
|------------------------|--------------------------|
| Project Extent: | Project Location: |
| National | KwaZulu Natal Gauteng |

| | | |
|-----------------------------------|----------------------|------------------------------------|
| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R20,000,000. | R.00 | R.00 |

| | | |
|----------------------------------|-----------------------------|----------------------------------|
| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: |
| Committed | Co-funding | N.A. |

| |
|--------------------------------------|
| Institutional Responsibility: |
| Transnet/Sasol/PPP |

| | | |
|-------------------|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GAM Score: | Project Name: | Multi products pipeline between Durban and Gauteng |
| 100 | Project Description: | The currently constrained pipeline environment between Durban and the interior , will be alleviated by the new 10,000 kl/annum pipeline which is due to build between Durban and coalbrook . |

| | | |
|-----------------------------|----------------------------|----------------------------|
| Project Programming: | Project Type: | Other project type: |
| 2010 - 2015 | Infrastructure - Pipelines | |

| | |
|------------------------|--------------------------|
| Project Extent: | Project Location: |
| National | KwaZulu Natal Gauteng |

| | | |
|-----------------------------------|----------------------|------------------------------------|
| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R999,000,000. | R999,000,000.00 | R999,000,000.00 |

| | | |
|----------------------------------|-----------------------------|----------------------------------|
| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: |
| Committed | Co-funding | N.A. |

| |
|--------------------------------------|
| Institutional Responsibility: |
| Transnet/Sasaol/PPP |

Project Information and GAM Score

| | | | |
|--------------------------------------|-----------------------------|-----------------------------------------------------------------------------------------|--|
| GAM Score: | Project Name: | KZN Wild Coast Road a | |
| 57 | Project Description: | N2 / R61 Wild Coast Road from uMtavuma to Isipingo - Additional lanes, new interchanges | |
| Project Programming: | Project Type: | Other project type: | |
| 2015 - 2030 | Infrastructure - Roads | | |
| Project Extent: | Project Location: | | |
| National | KwaZulu Natal | | |
| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: | |
| R. | R1,272.00 | R.00 | |
| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: | |
| Not committed | Other | N.A. | |
| Institutional Responsibility: | | | |
| DoT / Toll Company | | | |

| | | | |
|--------------------------------------|-----------------------------|------------------------------------------------------------------------------------|--|
| GAM Score: | Project Name: | KZN R34 a | |
| 54 | Project Description: | Construction of new R34 heavy haul route between Richards Bay and Melmoth (73 km) | |
| Project Programming: | Project Type: | Other project type: | |
| 2015 - 2030 | Infrastructure - Roads | | |
| Project Extent: | Project Location: | | |
| National | KwaZulu Natal | | |
| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: | |
| R. | R2,288.00 | R.00 | |
| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: | |
| Not committed | PPP | N.A. | |
| Institutional Responsibility: | | | |
| DoT / Toll company | | | |

Project Information and GAM Score

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| GAM Score: | Project Name: | Inter-city IRPTN Operational Plan |
| 52.375 | Project Description: | Develop Integrated Public Transport Network (IRPTN) for inter-city travel - Operational Plan, Business Plan, Financial Plan and Implementation Plan |

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| Project Programming: | Project Type: | Other project type: |
| 2010 - 2015 | Planning | Planning related to Passenger Transpo |

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| Project Extent: | Project Location: |
| National | KwaZulu Natal |

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| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R30,000,000. | R.00 | R.00 |

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| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: |
| Not committed | Fiscus | N.A. |

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| Institutional Responsibility: |
| DoT |

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| GAM Score: | Project Name: | KZN N11 a |
| 51 | Project Description: | New road on N11 route to bypass the Ladysmith CBD |

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| Project Programming: | Project Type: | Other project type: |
| 2015 - 2030 | Infrastructure - Roads | |

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| Project Extent: | Project Location: |
| National | KwaZulu Natal |

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| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R. | R440.00 | R.00 |

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| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: |
| Not committed | PPP | N.A. |

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| Institutional Responsibility: |
| SANRAL |

Project Information and GAM Score

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| GAM Score: | Project Name: | KZN N2N b |
| 49.545 | Project Description: | Additional lanes and interchange upgrading on N2 between N3 and Umhlanga |

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| Project Programming: | Project Type: | Other project type: |
| 2010 - 2015 | Infrastructure - Roads | |

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| Project Extent: | Project Location: |
| National | KwaZulu Natal |

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| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R. | R326.00 | R.00 |

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| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: |
| Not committed | PPP | N.A. |

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| Institutional Responsibility: |
| SANRAL |

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| GAM Score: | Project Name: | KZN N3 b |
| 44.92 | Project Description: | Additional lanes and interchange upgrading on N3 between Durban and Pietermaritzburg (140 lane km) |

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| Project Programming: | Project Type: | Other project type: |
| 2010 - 2015 | Infrastructure - Roads | |

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| Project Extent: | Project Location: |
| National | KwaZulu Natal |

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| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R. | R1,400.00 | R.00 |

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| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: |
| Not committed | PPP | N.A. |

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| Institutional Responsibility: |
| DoT / SANRAL |

Project Information and GAM Score

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| GAM Score: | Project Name: | KZN N2S b |
| 43.55 | Project Description: | Construction of P579 between Pinetown and Amanzimtoti to increase N2 corridor capacity |

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| Project Programming: | Project Type: | Other project type: |
| 2010 - 2015 | Infrastructure - Roads | |

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| Project Extent: | Project Location: |
| Provincial | KwaZulu Natal |

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| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R. | R1,152.00 | R.00 |

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| Committed Funding or not: | Funding mechanisms: | Other Funding Mechnisims: |
| Not committed | Fiscus | N.A. |

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| Institutional Responsibility: |
| KZN DoT / eThekwini |

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| GAM Score: | Project Name: | KZN R34 d |
| 41 | Project Description: | Construction of R34 heavy haul from N11 to N3 via Memel (29 km to KZN border) |

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| Project Programming: | Project Type: | Other project type: |
| 2030 - 2050 | Infrastructure - Roads | |

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| Project Extent: | Project Location: |
| National | KwaZulu Natal |

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| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R. | R1,170.00 | R.00 |

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| Committed Funding or not: | Funding mechanisms: | Other Funding Mechnisims: |
| Not committed | PPP | N.A. |

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| Institutional Responsibility: |
| DoT / Toll Company |

Project Information and GAM Score

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| GAM Score: | Project Name: | SA2 Rail a: Johannesburg - Durban High Speed Line | |
| 40.77 | Project Description: | Feasibility study for a high speed standard gauge line between Johannesburg and Durban | |
| Project Programming: | Project Type: | Other project type: | |
| 2010 - 2015 | Infrastructure - Rail | | |
| Project Extent: | Project Location: | | |
| National | Mpumalanga KwaZulu Natal Gauteng | | |
| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: | |
| R. | R50.00 | R.00 | |
| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: | |
| Not committed | Fiscus | N.A. | |
| Institutional Responsibility: | | | |
| DOT | | | |

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| GAM Score: | Project Name: | KZN Rail a | |
| 40.17 | Project Description: | High speed rail line from Durban to Johannesburg | |
| Project Programming: | Project Type: | Other project type: | |
| 2010 - 2015 | Infrastructure - Rail | | |
| Project Extent: | Project Location: | | |
| National | KwaZulu Natal | | |
| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: | |
| R. | R.00 | R.00 | |
| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: | |
| Not committed | Fiscus | N.A. | |
| Institutional Responsibility: | | | |
| Transnet | | | |

Project Information and GAM Score

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| GAM Score: | Project Name: | KZN Heavy Haul a |
| 37.71 | Project Description: | New dedicated heavy haul route from Durban container port/s to N2 (12 km) |

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| Project Programming: | Project Type: | Other project type: |
| 2010 - 2015 | Infrastructure - Roads | |

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| Project Extent: | Project Location: |
| National | KwaZulu Natal |

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| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R. | R720.00 | R.00 |

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| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: |
| Not committed | Fiscus | N.A. |

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| Institutional Responsibility: |
| DoT |

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| GAM Score: | Project Name: | SA2 Rail b: Johannesburg - durban New High Speed line - Pro |
| 37.12 | Project Description: | Provide a high speed standard gauge line between Johannesburg and Durban - Detail planning and procurement |

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| Project Programming: | Project Type: | Other project type: |
| 2015 - 2030 | Infrastructure - Rail | |

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| Project Extent: | Project Location: |
| National | Mpumalanga KwaZulu Natal Gauteng |

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| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R. | R20,000.00 | R.00 |

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| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: |
| Not committed | Fiscus | PPP |

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| Institutional Responsibility: |
| DOT/PRASA/Transnet |

Project Information and GAM Score

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| GAM Score: | Project Name: | KZN N3 c |
| 37.05 | Project Description: | Additional lanes and interchange upgrades on N3 between Pinetown and Nottingham Road (102 km) |

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| Project Programming: | Project Type: | Other project type: |
| 2015 - 2030 | Infrastructure - Roads | |

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| Project Extent: | Project Location: |
| National | KwaZulu Natal |

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| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R. | R1,122.00 | R.00 |

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| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: |
| Not committed | PPP | N.A. |

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| Institutional Responsibility: |
| N3 Toll Company |

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| GAM Score: | Project Name: | KZN R617 / P604 |
| 36.95 | Project Description: | a) Realignment and upgrading of P604 from Swartberg to Matatiele (57 km) b) Additional lanes on R617 from Bulwer to Kingscote (64 km) |

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| Project Programming: | Project Type: | Other project type: |
| 2030 - 2050 | Infrastructure - Roads | |

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| Project Extent: | Project Location: |
| Provincial | KwaZulu Natal |

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| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R. | R2,160.00 | R.00 |

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| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: |
| Not committed | Fiscus | N.A. |

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| Institutional Responsibility: |
| KZN DoT |

Project Information and GAM Score

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| GAM Score: | Project Name: | KZN Heavy Haul b |
| 36.75 | Project Description: | New dedicated heavy haul route from N2 to Cato Ridge (65 km) |

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| Project Programming: | Project Type: | Other project type: |
| 2015 - 2030 | Infrastructure - Roads | |

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| Project Extent: | Project Location: |
| National | KwaZulu Natal |

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| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R. | R3,210.00 | R.00 |

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| Committed Funding or not: | Funding mechanisms: | Other Funding Mechnisims: |
| Not committed | Fiscus | N.A. |

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| Institutional Responsibility: |
| DoT |

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| GAM Score: | Project Name: | KZN N2N e |
| 36.05 | Project Description: | Further additional lanes and interchange upgrading on N2 between: a) N3 and Umhlanga (12 lane km) b) KSIA and Stanger (78 lane km) |

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| Project Programming: | Project Type: | Other project type: |
| 2030 - 2050 | Infrastructure - Roads | |

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| Project Extent: | Project Location: |
| National | KwaZulu Natal |

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| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R. | R2,170.00 | R.00 |

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| Committed Funding or not: | Funding mechanisms: | Other Funding Mechnisims: |
| Not committed | PPP | N.A. |

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| Institutional Responsibility: |
| SANRAL |

Project Information and GAM Score

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| GAM Score: | Project Name: | KZN R34 c |
| 36.05 | Project Description: | Additional passing lanes on existing R34 heavy heavy haul from Melmoth to Vryheid (103 km) |

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| Project Programming: | Project Type: | Other project type: |
| 2030 - 2050 | Infrastructure - Roads | |

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| Project Extent: | Project Location: |
| National | KwaZulu Natal |

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| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R. | R1,248.00 | R.00 |

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| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: |
| Not committed | Fiscus | N.A. |

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| Institutional Responsibility: |
| DoT / Toll company |

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| GAM Score: | Project Name: | KZN Wild Coast Road b |
| 36.05 | Project Description: | N2 / R61 Wild Coast Road from Park Rynie to Kingsburgh - additional lanes, new interchanges |

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| Project Programming: | Project Type: | Other project type: |
| 2030 - 2050 | Infrastructure - Roads | |

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| Project Extent: | Project Location: |
| National | KwaZulu Natal |

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| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R. | R636.00 | R.00 |

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| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: |
| Not committed | PPP | N.A. |

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| Institutional Responsibility: |
| Dot / Toll Company |

Project Information and GAM Score

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| GAM Score: | Project Name: | KZN N2N d | |
| 34.8 | Project Description: | Additional lanes and interchange upgrades on N2 between a) N3 and Umhlanga (49 lane km) b) Umhlanga and KSIA (20 lane km) c) Mtunzini and Mtubatuba (152 lane km) | |
| Project Programming: | Project Type: | Other project type: | |
| 2015 - 2030 | Infrastructure - Roads | | |
| Project Extent: | Project Location: | | |
| National | KwaZulu Natal | | |
| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: | |
| R. | R2,210.00 | R.00 | |
| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: | |
| Not committed | PPP | N.A. | |
| Institutional Responsibility: | | | |
| SANRAL | | | |

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| GAM Score: | Project Name: | KZN P200 | |
| 34.19 | Project Description: | Upgrading of P102 from Sezela to Umzumbe with additional lanes and intersection improvements | |
| Project Programming: | Project Type: | Other project type: | |
| 2015 - 2030 | Infrastructure - Roads | | |
| Project Extent: | Project Location: | | |
| Provincial | KwaZulu Natal | | |
| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: | |
| R. | R648.00 | R.00 | |
| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: | |
| Not committed | Fiscus | N.A. | |
| Institutional Responsibility: | | | |
| KZN DoT | | | |

Project Information and GAM Score

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| GAM Score: | Project Name: | KZN N11 c |
| 33.84 | Project Description: | Additional lanes and interchange/intersection upgrades on N11 between N3 and Clontarf (120 lane km) |

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| Project Programming: | Project Type: | Other project type: |
| 2015 - 2030 | Infrastructure - Roads | |

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| Project Extent: | Project Location: |
| National | KwaZulu Natal |

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| First Order Lifetime Cost: | Capital Cost: | Maintenance/Operational Cost: |
| R. | R1,200.00 | R.00 |

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| Committed Funding or not: | Funding mechanisms: | Other Funding Mechanisms: |
| Not committed | PPP | N.A. |

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| Institutional Responsibility: |
| SANRAL |

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| GAM Score: | Project Name: | KZN KSIA N3 Link |
| 33.2 | Project Description: | New link road from King Shaka International Airport to N3 near Pietermaritzburg (104 km) |

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| Project Programming: | Project Type: | Other project type: |
| 2030 - 2050 | Infrastructure - Roads | |

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| Project Extent: | Project Location: |
| National | KwaZulu Natal |

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| First Order Lifetime Cost: | Capital Cost: | Maintenance/Operational Cost: |
| R. | R1,980.00 | R.00 |

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| Committed Funding or not: | Funding mechanisms: | Other Funding Mechanisms: |
| Not committed | Fiscus | N.A. |

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| Institutional Responsibility: |
| DoT / Toll Company |

Project Information and GAM Score

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| GAM Score: | Project Name: | KZN rail b |
| 33.09 | Project Description: | Rail link between inland port (near Cato Ridge?) and Durban Southern Industrial Basin, including port/s |

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| Project Programming: | Project Type: | Other project type: |
| 2010 - 2015 | Infrastructure - Rail | |

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| Project Extent: | Project Location: |
| National | KwaZulu Natal |

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| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R. | R.00 | R.00 |

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| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: |
| Not committed | Fiscus | N.A. |

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| Institutional Responsibility: |
| Transnet |

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| GAM Score: | Project Name: | KZN N2N f |
| 33.05 | Project Description: | Additional lanes and interchnge upgrading on N2 between N3 and Umhlanga |

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| Project Programming: | Project Type: | Other project type: |
| 2030 - 2050 | Infrastructure - Roads | |

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| Project Extent: | Project Location: |
| National | KwaZulu Natal |

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| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R. | R518.00 | R.00 |

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| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: |
| Not committed | PPP | N.A. |

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| Institutional Responsibility: |
| SANRAL |

Project Information and GAM Score

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| GAM Score: | Project Name: | KZN N2N a | |
| 31.845 | Project Description: | Additional lanes, including sections of dedicated public transport lanes, and interchange upgrades on R102 routes between N3 and Stanger | |
| Project Programming: | Project Type: | Other project type: | |
| 2015 - 2030 | Infrastructure - Roads | | |
| Project Extent: | Project Location: | | |
| Provincial | KwaZulu Natal | | |
| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: | |
| R. | R992.00 | R.00 | |
| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: | |
| Not committed | Fiscus | N.A. | |
| Institutional Responsibility: | | | |
| KZN DoT / eThekwini | | | |

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| GAM Score: | Project Name: | KZN R34 b | |
| 31.8 | Project Description: | Realignment and upgrading of R34 heavy haul route from Vryheid to N11 (103 km) | |
| Project Programming: | Project Type: | Other project type: | |
| 2015 - 2030 | Infrastructure - Roads | | |
| Project Extent: | Project Location: | | |
| National | KwaZulu Natal | | |
| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: | |
| R. | R960.00 | R.00 | |
| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: | |
| Not committed | PPP | N.A. | |
| Institutional Responsibility: | | | |
| DoT / Toll Company | | | |

Project Information and GAM Score

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| GAM Score: | Project Name: | KZN N11 b |
| 31.55 | Project Description: | Additional lanes and interchange/intersection upgrades between on N11 between Balangeich and Volksrust (110 lane km) |

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| Project Programming: | Project Type: | Other project type: |
| 2015 - 2030 | Infrastructure - Roads | |

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| Project Extent: | Project Location: |
| National | KwaZulu Natal |

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| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R. | R1,210.00 | R.00 |

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| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: |
| Not committed | PPP | N.A. |

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| Institutional Responsibility: |
| SANRAL |

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| GAM Score: | Project Name: | KZN R102 a |
| 31.35 | Project Description: | Upgrading of R102 from Umzumbe to Port Shepstone with additional lanes and intersection improvements |

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| Project Programming: | Project Type: | Other project type: |
| 2010 - 2015 | Infrastructure - Roads | |

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| Project Extent: | Project Location: |
| Provincial | KwaZulu Natal |

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| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R. | R225.00 | R.00 |

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| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: |
| Not committed | Fiscus | N.A. |

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| Institutional Responsibility: |
| KZN DoT |

Project Information and GAM Score

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| GAM Score: | Project Name: | KZN R74 a |
| 30.84 | Project Description: | R74 Oliviershoek Pass upgrade (13 km) |

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| Project Programming: | Project Type: | Other project type: |
| 2015 - 2030 | Infrastructure - Roads | |

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| Project Extent: | Project Location: |
| National | KwaZulu Natal |

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| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R. | R420.00 | R.00 |

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| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: |
| Not committed | Fiscus | N.A. |

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| Institutional Responsibility: |
| KZN DoT |

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| GAM Score: | Project Name: | Upgrade and Expand Durban Port (b) |
| 29.3 | Project Description: | Develop Dbn South Port for containers; Upgrade Bluff and Maydon Warf bulk terminals; Reconstruct and deepen Maydon Warf berths; improve road and rail access |

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| Project Programming: | Project Type: | Other project type: |
| 2015 - 2030 | Infrastructure - Ports | |

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| Project Extent: | Project Location: |
| Provincial | KwaZulu Natal |

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| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R. | R13,090,000.00 | R.00 |

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| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: |
| Not committed | Fiscus | Transnet funding |

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| Institutional Responsibility: |
| Transnet |

Project Information and GAM Score

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| GAM Score: | Project Name: | Upgrade and Expand Durban Port (c) |
| 29.3 | Project Description: | Develop Dbn South port for containers; Upgrade terminals to increase throughput of containers and for larger vessels; Increase bulk liquid capacity; Bayhead vehicle park |

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| Project Programming: | Project Type: | Other project type: |
| 2030 - 2050 | Infrastructure - Ports | |

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| Project Extent: | Project Location: |
| Provincial | KwaZulu Natal |

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| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R. | R14,210,000.00 | R.00 |

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| Committed Funding or not: | Funding mechanisms: | Other Funding Mechnisims: |
| Not committed | Fiscus | Transnet funding |

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| Institutional Responsibility: |
| Transnet |

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| GAM Score: | Project Name: | KZN N3 d |
| 28.88 | Project Description: | New Pietermaritzburg Bypass between Lion Park Interchange and Nottingham Road |

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| Project Programming: | Project Type: | Other project type: |
| 2030 - 2050 | Infrastructure - Roads | |

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|------------------------|--------------------------|
| Project Extent: | Project Location: |
| National | KwaZulu Natal |

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|-----------------------------------|----------------------|------------------------------------|
| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R. | R2,688.00 | R.00 |

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|----------------------------------|----------------------------|----------------------------------|
| Committed Funding or not: | Funding mechanisms: | Other Funding Mechnisims: |
| Not committed | PPP | N.A. |

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| Institutional Responsibility: |
| DoT / Toll Company |

Project Information and GAM Score

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|-------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GAM Score: | Project Name: | KZN N2N c |
| 28.35 | Project Description: | Construction of R102 Tongaat bypass (48 lane km), plus additional lanes and intersection upgrades on R102 between: a) Tongaat and Stanger (50 lane km) b) Gingindlovu and Mtunzini (34 lane km) |

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| Project Programming: | Project Type: | Other project type: |
| 2015 - 2030 | Infrastructure - Roads | |

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| Project Extent: | Project Location: |
| Provincial | KwaZulu Natal |

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| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R. | R1,188.00 | R.00 |

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| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: |
| Not committed | Fiscus | N.A. |

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| Institutional Responsibility: |
| KZN DoT |

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|-------------------|-----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| GAM Score: | Project Name: | Upgrade and Expand Richards Bay Port (b) |
| 27.7 | Project Description: | Additional coal berths; Increase dry bulk handling facilities; Increase break bulk capacity; Increase bulk liquid tanker berth capacity; Improve road and rail access |

| | | |
|-----------------------------|------------------------|----------------------------|
| Project Programming: | Project Type: | Other project type: |
| 2015 - 2030 | Infrastructure - Ports | |

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|------------------------|--------------------------|
| Project Extent: | Project Location: |
| Provincial | KwaZulu Natal |

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| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R. | R16,790,000.00 | R.00 |

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| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: |
| Not committed | Fiscus | Transnet funding |

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| Institutional Responsibility: |
| Transnet |

Project Information and GAM Score

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|-------------------|-----------------------------|---------------------------------------------------------------------------------------------------|
| GAM Score: | Project Name: | Upgrade and Expand Richards Bay Port (c) |
| 27.7 | Project Description: | Additional coal berths; Increase break bulk capacity; Increase bulk liquid tanker berth capacity. |

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|-----------------------------|------------------------|----------------------------|
| Project Programming: | Project Type: | Other project type: |
| 2030 - 2050 | Infrastructure - Ports | |

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|------------------------|--------------------------|
| Project Extent: | Project Location: |
| Provincial | KwaZulu Natal |

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| First Order Lifetime Cost: | Capital Cost: | Maintenance/Operational Cost: |
| R. | R5,200,000.00 | R.00 |

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| Committed Funding or not: | Funding mechanisms: | Other Funding Mechanisms: |
| Not committed | Fiscus | Transnet funding |

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| Institutional Responsibility: |
| Transnet |

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|-------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|
| GAM Score: | Project Name: | KZN N2S c |
| 26.84 | Project Description: | N2 additional lanes and new interchanges between: a) Port Shepstone and Izingolweni (74 lane km) b) Weza and Brookes Nek (84 lane km) |

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| Project Programming: | Project Type: | Other project type: |
| 2030 - 2050 | Infrastructure - Roads | |

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| Project Extent: | Project Location: |
| National | KwaZulu Natal |

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| First Order Lifetime Cost: | Capital Cost: | Maintenance/Operational Cost: |
| R. | R1,422.00 | R.00 |

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| Committed Funding or not: | Funding mechanisms: | Other Funding Mechanisms: |
| Not committed | PPP | N.A. |

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| Institutional Responsibility: |
| SANRAL |

Project Information and GAM Score

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|-------------------|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| GAM Score: | Project Name: | KZN R620 |
| 25.68 | Project Description: | Upgrading of R620 from Port Shepstone to Southbroom with additional lanes, parallel service roads and intersection improvements |

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| Project Programming: | Project Type: | Other project type: |
| 2010 - 2015 | Infrastructure - Roads | |

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| Project Extent: | Project Location: |
| Provincial | KwaZulu Natal |

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| First Order Lifetime Cost: | Capital Cost: | Maintenance/Operational Cost: |
| R. | R320.00 | R.00 |

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| Committed Funding or not: | Funding mechanisms: | Other Funding Mechanisms: |
| Not committed | Fiscus | N.A. |

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| Institutional Responsibility: |
| Municipality |

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|-------------------|-----------------------------|----------------------------------------------|
| GAM Score: | Project Name: | KZN 5 Rail: Stanger - Richards Bay: Doubling |
| 24.55 | Project Description: | No description provided |

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| Project Programming: | Project Type: | Other project type: |
| 2015 - 2030 | Infrastructure - Rail | |

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| Project Extent: | Project Location: |
| Provincial | KwaZulu Natal |

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| First Order Lifetime Cost: | Capital Cost: | Maintenance/Operational Cost: |
| R. | R4,658.00 | R.00 |

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| Committed Funding or not: | Funding mechanisms: | Other Funding Mechanisms: |
| Not committed | Other | Transnet |

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| Institutional Responsibility: |
| Transnet |

Project Information and GAM Score

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|--------------------------------------|----------------------------------------|---------------------------------------------------------------------------------------------------------|--|
| GAM Score: | Project Name: | SA 2Rail c: Johannesburg - durban New high speed rail | |
| 24.47 | Project Description: | Provide a high speed rail between Johannesburg and Durban - Construction & procurement of rolling stock | |
| Project Programming: | Project Type: | Other project type: | |
| 2030 - 2050 | Infrastructure - Rail | | |
| Project Extent: | Project Location: | | |
| National | Mpumalanga KwaZulu Natal Gauteng | | |
| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: | |
| R. | R77,950.00 | R.00 | |
| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: | |
| Not committed | Fiscus | PPP | |
| Institutional Responsibility: | | | |
| DOT/PRASA/Transnet | | | |

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|--------------------------------------|-----------------------------|-----------------------------------------------------------------------------|--|
| GAM Score: | Project Name: | KZN R74 b | |
| 23.75 | Project Description: | Additional lanes and upgrading of R74 between Frere and Bergville (46 km) | |
| Project Programming: | Project Type: | Other project type: | |
| 2030 - 2050 | Infrastructure - Roads | | |
| Project Extent: | Project Location: | | |
| National | KwaZulu Natal | | |
| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: | |
| R. | R468.00 | R.00 | |
| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: | |
| Not committed | Fiscus | N.A. | |
| Institutional Responsibility: | | | |
| KZN DoT | | | |

Project Information and GAM Score

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| GAM Score: | Project Name: | KZN R68 |
| 21.35 | Project Description: | Additional lanes and upgrading on R68 from Dundee to Nqutu (54 km) |

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| Project Programming: | Project Type: | Other project type: |
| 2030 - 2050 | Infrastructure - Roads | |

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|------------------------|--------------------------|
| Project Extent: | Project Location: |
| Provincial | KwaZulu Natal |

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| First Order Lifetime Cost: | Capital Cost: | Maintenance/Operational Cost: |
| R. | R918.00 | R.00 |

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| Committed Funding or not: | Funding mechanisms: | Other Funding Mechanisms: |
| Not committed | Fiscus | N.A. |

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| Institutional Responsibility: |
| KZN DoT |

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|-------------------|-----------------------------|-----------------------------------------------------------------------------------------|
| GAM Score: | Project Name: | KZN 4 Rail a: Durban - Stanger: Upgrade & Provide 3rd Line |
| 20.14 | Project Description: | Planning & procurement: Upgrade existing lines and provide a 3rd line in suburban area. |

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| Project Programming: | Project Type: | Other project type: |
| 2010 - 2015 | Infrastructure - Rail | |

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|------------------------|--------------------------|
| Project Extent: | Project Location: |
| Provincial | KwaZulu Natal |

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| First Order Lifetime Cost: | Capital Cost: | Maintenance/Operational Cost: |
| R. | R600.00 | R.00 |

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| Committed Funding or not: | Funding mechanisms: | Other Funding Mechanisms: |
| Not committed | Other | Transnet |

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| Institutional Responsibility: |
| Transnet |

Project Information and GAM Score

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|--------------------------------------|-----------------------------|-------------------------------------------------------------|--|
| GAM Score: | Project Name: | KZN 4 Rail b: Durban - Stanger Provide 3rd Line | |
| 20.14 | Project Description: | Construction of a 3rd line and upgrading of existing lines. | |
| Project Programming: | Project Type: | Other project type: | |
| 2015 - 2030 | Infrastructure - Rail | | |
| Project Extent: | Project Location: | | |
| Provincial | KwaZulu Natal | | |
| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: | |
| R. | R5,622.00 | R.00 | |
| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: | |
| Not committed | Other | Transnet | |
| Institutional Responsibility: | | | |
| Transnet | | | |

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|--------------------------------------|-----------------------------|---------------------------------------------------------------------------------------------------------|--|
| GAM Score: | Project Name: | KZN 11 Rail: Cato Ridge New container depot | |
| 18.14 | Project Description: | Provide an new container terminal at Cato Ridge to reduce road traffic between Cato Ridge and Bay Head. | |
| Project Programming: | Project Type: | Other project type: | |
| 2015 - 2030 | Freight Transport | | |
| Project Extent: | Project Location: | | |
| Provincial | KwaZulu Natal | | |
| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: | |
| R. | R962.00 | R.00 | |
| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: | |
| Not committed | Other | Transnet | |
| Institutional Responsibility: | | | |
| Transnet | | | |

Project Information and GAM Score

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|--------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|--|
| GAM Score: | Project Name: | KZN 2 Rail a: Johannesburg - Durban Provide 3rd line | |
| 13.54 | Project Description: | Planning & commencement of construction of a 3rd line between Durban and Johannesburg. (Note: Project SA 2 is an alternative to this project) | |
| Project Programming: | Project Type: | Other project type: | |
| 2015 - 2030 | Infrastructure - Rail | | |
| Project Extent: | Project Location: | | |
| National | Mpumalanga KwaZulu Natal Gauteng | | |
| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: | |
| R. | R14,106.00 | R.00 | |
| Committed Funding or not: | Funding mechanisms: | Other Funding Mechnisims: | |
| Not committed | Other | Transnet | |
| Institutional Responsibility: | | | |
| Transnet | | | |

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| GAM Score: | Project Name: | KZN 6 Rail: Richards Bay - Golela Improve capacity | |
| 13.54 | Project Description: | No description provided | |
| Project Programming: | Project Type: | Other project type: | |
| 2015 - 2030 | | | |
| Project Extent: | Project Location: | | |
| Regional | KwaZulu Natal | | |
| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: | |
| R. | R1,045.00 | R.00 | |
| Committed Funding or not: | Funding mechanisms: | Other Funding Mechnisims: | |
| Not committed | Other | Transnet | |
| Institutional Responsibility: | | | |
| Transnet | | | |

Project Information and GAM Score

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|-------------------|-----------------------------|--------------------------------------------------------------|
| GAM Score: | Project Name: | KZN 2 Rail b: Johannesburg - Durban: Provide 3rd line |
| 13.54 | Project Description: | Construction of a third line between Johannesburg and Durban |

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| Project Programming: | Project Type: | Other project type: |
| 2030 - 2050 | Infrastructure - Rail | |

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| Project Extent: | Project Location: |
| National | Mpumalanga KwaZulu Natal Gauteng |

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| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R. | R21,158.00 | R.00 |

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| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: |
| Not committed | Other | Transnet |

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| Institutional Responsibility: |
| Transnet |

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|-------------------|-----------------------------|-------------------------------------------------------------------------------|
| GAM Score: | Project Name: | KZN 9 Rail: Umbogintwini - Umkomaas Double rail line |
| 11.89 | Project Description: | Double the rail line between Umbogintwini and Umkomaas and improve signalling |

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| Project Programming: | Project Type: | Other project type: |
| 2015 - 2030 | Infrastructure - Rail | |

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| Project Extent: | Project Location: |
| Provincial | KwaZulu Natal |

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| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R. | R1,190.00 | R.00 |

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| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: |
| Not committed | Fiscus | Transnet |

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| Institutional Responsibility: |
| PRASA |

Project Information and GAM Score

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|-------------------|-----------------------------|------------------------------------------------------------------------------|
| GAM Score: | Project Name: | KZN 3 Rail: Bayhead - Cato Ridge New Bypass |
| 11.14 | Project Description: | Provide a new bypass between Bathead and Cato Ridge to avoid suburban trains |

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| Project Programming: | Project Type: | Other project type: |
| 2015 - 2030 | Infrastructure - Rail | |

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| Project Extent: | Project Location: |
| Provincial | KwaZulu Natal |

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|-----------------------------------|----------------------|--------------------------------------|
| First Order Lifetime Cost: | Capital Cost: | Maintenance/Operational Cost: |
| R. | R6,222.00 | R.00 |

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| Committed Funding or not: | Funding mechanisms: | Other Funding Mechanisms: |
| Not committed | Other | Transnet |

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| Institutional Responsibility: |
| Transnet |

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|-------------------|-----------------------------|--------------------------------------------------------------------|
| GAM Score: | Project Name: | KZN 1 Rail: Durban - Palmford Signal infilling |
| 9.37 | Project Description: | Provide intermediate signals on the main line to increase capacity |

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| Project Programming: | Project Type: | Other project type: |
| 2015 - 2030 | Infrastructure - Rail | |

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|------------------------|--------------------------|
| Project Extent: | Project Location: |
| National | KwaZulu Natal |

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| First Order Lifetime Cost: | Capital Cost: | Maintenance/Operational Cost: |
| R. | R143.00 | R.00 |

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| Committed Funding or not: | Funding mechanisms: | Other Funding Mechanisms: |
| Not committed | Other | Transnet |

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| Institutional Responsibility: |
| Transnet |

Project Information and GAM Score

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|-------------------|-----------------------------|-----------------------------------------------------------------------------------------|
| GAM Score: | Project Name: | KZN N2S a |
| 3.75 | Project Description: | Additional lanes and interchange upgrading on N2 between the R603 (Winkelspruit) and N3 |

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| Project Programming: | Project Type: | Other project type: |
| 2010 - 2015 | Infrastructure - Roads | |

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| Project Extent: | Project Location: |
| National | KwaZulu Natal |

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|-----------------------------------|----------------------|------------------------------------|
| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R. | R461.00 | R.00 |

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| Committed Funding or not: | Funding mechanisms: | Other Funding Mechnisims: |
| Not committed | PPP | N.A. |

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| Institutional Responsibility: |
| Sanral |

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|-------------------|-----------------------------|------------------------------------------------------------------------|
| GAM Score: | Project Name: | KZA 10 Rail: Umkomaas - Kelso Double rail line |
| 0.1 | Project Description: | Double the rail line between Umkomaas and Kelso and improve signalling |

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| Project Programming: | Project Type: | Other project type: |
| 2030 - 2050 | Infrastructure - Rail | |

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| Project Extent: | Project Location: |
| Provincial | KwaZulu Natal |

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| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R. | R1,048.00 | R.00 |

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| Committed Funding or not: | Funding mechanisms: | Other Funding Mechnisims: |
| Not committed | Fiscus | N.A. |

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| Institutional Responsibility: |
| PRASA |

Project Information and GAM Score

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|-------------------|-----------------------------|--------------------------------------------------------------------------------|
| GAM Score: | Project Name: | KZN 8 Rail:Richards Bay - Broodsnyersplaas Provide 3rd line |
| -10.45 | Project Description: | Provide a 3rd line for the coal line between Richards Bay and Broodsnyersplaas |

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| Project Programming: | Project Type: | Other project type: |
| 2030 - 2050 | Infrastructure - Rail | |

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| Project Extent: | Project Location: |
| National | Mpumalanga KwaZulu Natal |

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| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R. | R29,803.00 | R.00 |

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| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: |
| Not committed | Other | Transnet |

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| Institutional Responsibility: |
| Transnet |

ADDENDUM A2

**PROJECT DESCRIPTIONS FOR NATIONAL
PROJECTS**



NATMAP 2050

Project Information and GAM Score (2010)

Project Information and GAM Score

National

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|-------------------|-----------------------------|---------------------------------------------------|
| GAM Score: | Project Name: | Create Transport Investment Clearing House (TICH) |
| 100 | Project Description: | No description provided |

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| Project Programming: | Project Type: | Other project type: |
| 2010 - 2015 | Institutional | |

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| Project Extent: | Project Location: |
| National | National |

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| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R. | R10,000,000.00 | R.00 |

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| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: |
| Committed | Fiscus | N.A. |

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| Institutional Responsibility: |
| DOT |

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|-------------------|-----------------------------|-------------------------------------|
| GAM Score: | Project Name: | Create Transport Economic Regulator |
| 100 | Project Description: | No description provided |

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| Project Programming: | Project Type: | Other project type: |
| 2010 - 2015 | Institutional | |

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| Project Extent: | Project Location: |
| National | National |

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| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R. | R20,000,000.00 | R.00 |

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| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: |
| Committed | Fiscus | N.A. |

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| Institutional Responsibility: |
| DOT |

Project Information and GAM Score

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|-------------------|-----------------------------|----------------------------------------|
| GAM Score: | Project Name: | Create Weight Distance Charging Agency |
| 100 | Project Description: | No description provided |

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| Project Programming: | Project Type: | Other project type: |
| 2010 - 2015 | Institutional | |

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| Project Extent: | Project Location: |
| National | National |

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| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R. | R80,000,000.00 | R.00 |

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| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: |
| Committed | Fiscus | N.A. |

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| Institutional Responsibility: |
| DOT |

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|-------------------|-----------------------------|---------------------------------------------------------------|
| GAM Score: | Project Name: | Implement road freight operator register and licensing system |
| 100 | Project Description: | No description provided |

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| Project Programming: | Project Type: | Other project type: |
| 2010 - 2015 | Institutional | |

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| Project Extent: | Project Location: |
| National | National |

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| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R. | R10,000,000.00 | R.00 |

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| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: |
| Committed | Fiscus | N.A. |

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| Institutional Responsibility: |
| DOT |

Project Information and GAM Score

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| GAM Score: | Project Name: | Changes to SANRAL to expand board and portfolio | |
| 100 | Project Description: | No description provided | |
| Project Programming: | Project Type: | Other project type: | |
| 2010 - 2015 | Institutional | | |
| Project Extent: | Project Location: | | |
| National | National | | |
| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: | |
| R. | R10,000,000.00 | R.00 | |
| Committed Funding or not: | Funding mechanisms: | Other Funding Mechnisims: | |
| Committed | Fiscus | N.A. | |
| Institutional Responsibility: | | | |
| DOT | | | |

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|--------------------------------------|-----------------------------|--------------------------------------------------------------|--|
| GAM Score: | Project Name: | Provincial Departments of Roads: Audit and develop standards | |
| 100 | Project Description: | No description provided | |
| Project Programming: | Project Type: | Other project type: | |
| 2010 - 2015 | Institutional | | |
| Project Extent: | Project Location: | | |
| National | National | | |
| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: | |
| R. | R20,000,000.00 | R.00 | |
| Committed Funding or not: | Funding mechanisms: | Other Funding Mechnisims: | |
| Committed | Fiscus | N.A. | |
| Institutional Responsibility: | | | |
| DOT | | | |

Project Information and GAM Score

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|-------------------|-----------------------------|--------------------------------------------|
| GAM Score: | Project Name: | Transnet Ringfencing and Divisionalisation |
| 100 | Project Description: | No description provided |

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|-----------------------------|----------------------|----------------------------|
| Project Programming: | Project Type: | Other project type: |
| 2010 - 2015 | Institutional | |

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|------------------------|--------------------------|
| Project Extent: | Project Location: |
| National | National |

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| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R. | R80,000,000.00 | R.00 |

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| Committed Funding or not: | Funding mechanisms: | Other Funding Mechnisims: |
| Committed | Fiscus | DPE or Transnet |

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| Institutional Responsibility: |
| DOT |

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|-------------------|-----------------------------|-----------------------------------------|
| GAM Score: | Project Name: | PRASA Ringfencing and Divisionalisation |
| 100 | Project Description: | No description provided |

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| Project Programming: | Project Type: | Other project type: |
| 2010 - 2015 | Institutional | |

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| Project Extent: | Project Location: |
| National | National |

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| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R. | R20,000,000.00 | R.00 |

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| Committed Funding or not: | Funding mechanisms: | Other Funding Mechnisims: |
| Committed | Fiscus | PRASA? |

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| Institutional Responsibility: |
| DOT |

Project Information and GAM Score

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| GAM Score: | Project Name: | DOT - Expand Rail Division to give strategic guidance | |
| 100 | Project Description: | No description provided | |
| Project Programming: | Project Type: | Other project type: | |
| 2010 - 2015 | Institutional | | |
| Project Extent: | Project Location: | | |
| National | National | | |
| First Order Lifetime Cost: | Capital Cost: | Maintenance/Operational Cost: | |
| R. | R20,000,000.00 | R.00 | |
| Committed Funding or not: | Funding mechanisms: | Other Funding Mechanisms: | |
| Committed | Fiscus | N.A. | |
| Institutional Responsibility: | | | |
| DOT | | | |

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|--------------------------------------|-----------------------------|--------------------------------------|--|
| GAM Score: | Project Name: | ACSA - Expand portfolio and board | |
| 100 | Project Description: | No description provided | |
| Project Programming: | Project Type: | Other project type: | |
| 2010 - 2015 | Institutional | | |
| Project Extent: | Project Location: | | |
| National | National | | |
| First Order Lifetime Cost: | Capital Cost: | Maintenance/Operational Cost: | |
| R. | R10,000,000.00 | R.00 | |
| Committed Funding or not: | Funding mechanisms: | Other Funding Mechanisms: | |
| Committed | Fiscus | ACSA? | |
| Institutional Responsibility: | | | |
| DOT | | | |

Project Information and GAM Score

| | | | |
|--------------------------------------|-----------------------------|-----------------------------------------------------------|--|
| GAM Score: | Project Name: | DOT - Expand Aviation Division to give strategic guidance | |
| 100 | Project Description: | No description provided | |
| Project Programming: | Project Type: | Other project type: | |
| 2010 - 2015 | Institutional | | |
| Project Extent: | Project Location: | | |
| National | National | | |
| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: | |
| R. | R10,000,000.00 | R.00 | |
| Committed Funding or not: | Funding mechanisms: | Other Funding Mechnisims: | |
| Committed | Fiscus | N.A. | |
| Institutional Responsibility: | | | |
| DOT | | | |

| | | | |
|--------------------------------------|-----------------------------|-------------------------------------------------------------------|--|
| GAM Score: | Project Name: | SA Marine Safety Authority - review of responsibilities and align | |
| 100 | Project Description: | No description provided | |
| Project Programming: | Project Type: | Other project type: | |
| 2010 - 2015 | Institutional | | |
| Project Extent: | Project Location: | | |
| National | National | | |
| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: | |
| R. | R10,000,000.00 | R.00 | |
| Committed Funding or not: | Funding mechanisms: | Other Funding Mechnisims: | |
| Committed | Fiscus | N.A. | |
| Institutional Responsibility: | | | |
| DOT | | | |

Project Information and GAM Score

| | | | |
|--------------------------------------|-----------------------------|--------------------------------------|--|
| GAM Score: | Project Name: | DOT - Create Multimodal Policy Forum | |
| 100 | Project Description: | No description provided | |
| Project Programming: | Project Type: | Other project type: | |
| 2010 - 2015 | Institutional | | |
| Project Extent: | Project Location: | | |
| National | National | | |
| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: | |
| R. | R5,000,000.00 | R.00 | |
| Committed Funding or not: | Funding mechanisms: | Other Funding Mechnisims: | |
| Committed | Fiscus | N.A. | |
| Institutional Responsibility: | | | |
| DOT | | | |

| | | | |
|--------------------------------------|-----------------------------|-------------------------------------------------------------------|--|
| GAM Score: | Project Name: | National Ports Authority - structure to allow for more competitio | |
| 100 | Project Description: | No description provided | |
| Project Programming: | Project Type: | Other project type: | |
| 2010 - 2015 | Institutional | | |
| Project Extent: | Project Location: | | |
| National | National | | |
| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: | |
| R. | R10,000,000.00 | R.00 | |
| Committed Funding or not: | Funding mechanisms: | Other Funding Mechnisims: | |
| Committed | Fiscus | N.A. | |
| Institutional Responsibility: | | | |
| DOT | | | |

Project Information and GAM Score

| | | | |
|--------------------------------------|-----------------------------|-----------------------------------------------------------|--|
| GAM Score: | Project Name: | DOT Maritime Division - expand and align responsibilities | |
| 100 | Project Description: | No description provided | |
| Project Programming: | Project Type: | Other project type: | |
| 2010 - 2015 | Institutional | | |
| Project Extent: | Project Location: | | |
| National | National | | |
| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: | |
| R. | R10,000,000.00 | R.00 | |
| Committed Funding or not: | Funding mechanisms: | Other Funding Mechnisims: | |
| Committed | Fiscus | N.A. | |
| Institutional Responsibility: | | | |
| DOT | | | |

| | | | |
|--------------------------------------|-----------------------------|--------------------------------------------------------------|--|
| GAM Score: | Project Name: | Reorganise DOT to create structure for the management of reg | |
| 100 | Project Description: | No description provided | |
| Project Programming: | Project Type: | Other project type: | |
| 2010 - 2015 | Institutional | | |
| Project Extent: | Project Location: | | |
| National | National | | |
| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: | |
| R. | R10,000,000.00 | R.00 | |
| Committed Funding or not: | Funding mechanisms: | Other Funding Mechnisims: | |
| Committed | Fiscus | N.A. | |
| Institutional Responsibility: | | | |
| DOT | | | |

Project Information and GAM Score

| | | |
|-------------------|-----------------------------|----------------------------------------------------|
| GAM Score: | Project Name: | Moloto Jane Furse: Extend New Moloto Rail corridor |
| 37.78 | Project Description: | No description provided |

| | | |
|-----------------------------|-----------------------|----------------------------|
| Project Programming: | Project Type: | Other project type: |
| 2015 - 2030 | Infrastructure - Rail | |

| | |
|------------------------|--------------------------|
| Project Extent: | Project Location: |
| National | National |

| | | |
|-----------------------------------|----------------------|------------------------------------|
| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R. | R9,500,000,000.00 | R.00 |

| | | |
|----------------------------------|-----------------------------|----------------------------------|
| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: |
| Not committed | Fiscus | N.A. |

| |
|--------------------------------------|
| Institutional Responsibility: |
| Unknown |

| | | |
|-------------------|-----------------------------|------------------------------------------------------------|
| GAM Score: | Project Name: | Pretoria Moloto New Medium Speed Rail line and passenger s |
| 36.18 | Project Description: | No description provided |

| | | |
|-----------------------------|-----------------------|----------------------------|
| Project Programming: | Project Type: | Other project type: |
| 2010 - 2015 | Infrastructure - Rail | |

| | |
|------------------------|--------------------------|
| Project Extent: | Project Location: |
| National | National |

| | | |
|-----------------------------------|----------------------|------------------------------------|
| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: |
| R. | R12,000,000,000.00 | R.00 |

| | | |
|----------------------------------|-----------------------------|----------------------------------|
| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: |
| Not committed | Fiscus | N.A. |

| |
|--------------------------------------|
| Institutional Responsibility: |
| DOT |

Project Information and GAM Score

| | | | |
|--------------------------------------|-----------------------------|--------------------------------------|--|
| GAM Score: | Project Name: | Pretoria - Polokwane High Speed Rail | |
| 10.77 | Project Description: | No description provided | |
| Project Programming: | Project Type: | Other project type: | |
| 2030 - 2050 | Infrastructure - Rail | | |
| Project Extent: | Project Location: | | |
| National | National | | |
| First Order Lifetime Cost: | Capital Cost: | Maintance/Operational Cost: | |
| R. | R14,000,000,000.00 | R.00 | |
| Committed Funding or not: | Funding mechanisims: | Other Funding Mechnisims: | |
| Not committed | Fiscus | N.A. | |
| Institutional Responsibility: | | | |
| DOT | | | |

ADDENDUM A3

**PROJECT DESCRIPTIONS FOR INSTITUTIONAL
PROJECTS**

1. Project Reference

Project Name Department of Transport Multimodal Policy Forum

Reference number

2. Category of Project

| | | | |
|----------------------------|--------------------------|---------------------|-------------------------------------|
| Infrastructure – roads | <input type="checkbox"/> | Passenger transport | <input type="checkbox"/> |
| Infrastructure – rail | <input type="checkbox"/> | Freight transport | <input type="checkbox"/> |
| Infrastructure – ports | <input type="checkbox"/> | Legal / policy | <input type="checkbox"/> |
| Infrastructure – airports | <input type="checkbox"/> | Financing | <input type="checkbox"/> |
| Infrastructure - pipelines | <input type="checkbox"/> | Institutional | <input checked="" type="checkbox"/> |

Other:

| | | | |
|------------|-------------------------------------|---------------|-------------------------------------|
| Regional | <input type="checkbox"/> | Committed | <input type="checkbox"/> |
| National | <input checked="" type="checkbox"/> | Not committed | <input checked="" type="checkbox"/> |
| Provincial | <input type="checkbox"/> | | |

3. Description of Project

Create a Multimodal Policy Forum in the DOT where policy can be developed that can guide modal choices in order to allow the different modes to focus on mode specific issues. Currently a lot of energy is wasted in turf-wars between modes “fighting” for territory. These can be done away with by keeping the modal choice debate out of the mode specific debate.

4. Programming

| | |
|--------------|-------------------------------------|
| 2010 to 2015 | <input checked="" type="checkbox"/> |
| 2015 to 2030 | <input type="checkbox"/> |
| 2030 to 2050 | <input type="checkbox"/> |

5. Location

| | | | |
|---------------|--------------------------|-------------------------|--------------------------|
| Western Cape | <input type="checkbox"/> | Gauteng | <input type="checkbox"/> |
| Northern Cape | <input type="checkbox"/> | Mpumalanga | <input type="checkbox"/> |
| Eastern Cape | <input type="checkbox"/> | Limpopo | <input type="checkbox"/> |
| Free State | <input type="checkbox"/> | North West | <input type="checkbox"/> |
| KwaZulu Natal | <input type="checkbox"/> | Outside of South Africa | <input type="checkbox"/> |

6. Motivation

Goal achievement matrix score

7. First Order Cost Estimate

Total R5.0 million

8. Proposed Funding Mechanisms

Funding committed yet? No

| | |
|--------------------|-------------------------------------|
| National fiscus | <input checked="" type="checkbox"/> |
| Provincial funding | <input type="checkbox"/> |
| Public enterprise | <input type="checkbox"/> |
| Private sector | <input type="checkbox"/> |

Other _____

9. Proposed Institutional Responsibility

Other Department of Transport

4. Programming

| | |
|--------------|-------------------------------------|
| 2010 to 2015 | <input checked="" type="checkbox"/> |
| 2015 to 2030 | <input type="checkbox"/> |
| 2030 to 2050 | <input type="checkbox"/> |

5. Location

| | | | |
|---------------|--------------------------|-------------------------|--------------------------|
| Western Cape | <input type="checkbox"/> | Gauteng | <input type="checkbox"/> |
| Northern Cape | <input type="checkbox"/> | Mpumalanga | <input type="checkbox"/> |
| Eastern Cape | <input type="checkbox"/> | Limpopo | <input type="checkbox"/> |
| Free State | <input type="checkbox"/> | North West | <input type="checkbox"/> |
| KwaZulu Natal | <input type="checkbox"/> | Outside of South Africa | <input type="checkbox"/> |

6. Motivation

Goal achievement matrix score

7. First Order Cost Estimate

Total R20.0 million

8. Proposed Funding Mechanisms

Funding committed yet? No

| | |
|--------------------|-------------------------------------|
| National fiscus | <input checked="" type="checkbox"/> |
| Provincial funding | <input type="checkbox"/> |
| Public enterprise | <input type="checkbox"/> |
| Private sector | <input type="checkbox"/> |

Other _____

9. Proposed Institutional Responsibility

Other Department of Transport

4. Programming

| | |
|--------------|-------------------------------------|
| 2010 to 2015 | <input checked="" type="checkbox"/> |
| 2015 to 2030 | <input type="checkbox"/> |
| 2030 to 2050 | <input type="checkbox"/> |

5. Location

| | | | |
|---------------|--------------------------|-------------------------|--------------------------|
| Western Cape | <input type="checkbox"/> | Gauteng | <input type="checkbox"/> |
| Northern Cape | <input type="checkbox"/> | Mpumalanga | <input type="checkbox"/> |
| Eastern Cape | <input type="checkbox"/> | Limpopo | <input type="checkbox"/> |
| Free State | <input type="checkbox"/> | North West | <input type="checkbox"/> |
| KwaZulu Natal | <input type="checkbox"/> | Outside of South Africa | <input type="checkbox"/> |

6. Motivation

Goal achievement matrix score

7. First Order Cost Estimate

Total R20.0 million

8. Proposed Funding Mechanisms

Funding committed yet? No

| | |
|--------------------|-------------------------------------|
| National fiscus | <input checked="" type="checkbox"/> |
| Provincial funding | <input type="checkbox"/> |
| Public enterprise | <input type="checkbox"/> |
| Private sector | <input type="checkbox"/> |

Other _____

9. Proposed Institutional Responsibility

Other Department of Transport

1. Project Reference

Project Name Create Road Weight Distance Charging entity

Reference number

2. Category of Project

| | | | |
|----------------------------|--------------------------|---------------------|-------------------------------------|
| Infrastructure – roads | <input type="checkbox"/> | Passenger transport | <input type="checkbox"/> |
| Infrastructure – rail | <input type="checkbox"/> | Freight transport | <input type="checkbox"/> |
| Infrastructure – ports | <input type="checkbox"/> | Legal / policy | <input type="checkbox"/> |
| Infrastructure – airports | <input type="checkbox"/> | Financing | <input type="checkbox"/> |
| Infrastructure - pipelines | <input type="checkbox"/> | Institutional | <input checked="" type="checkbox"/> |

Other:

| | | | |
|------------|-------------------------------------|---------------|-------------------------------------|
| Regional | <input type="checkbox"/> | Committed | <input type="checkbox"/> |
| National | <input checked="" type="checkbox"/> | Not committed | <input checked="" type="checkbox"/> |
| Provincial | <input type="checkbox"/> | | |

3. Description of Project

To allow for the national charging of road usage a national Road Weight Distance Charging entity is required to collect user charges for the road networks of the country. As such it should own the national infrastructure to measure usage and systems to charge for usage. The agency could be managed as a division inside SANRAL however it would have to be in a position where it can direct funding to provinces as well.

4. Programming

| | |
|--------------|-------------------------------------|
| 2010 to 2015 | <input checked="" type="checkbox"/> |
| 2015 to 2030 | <input type="checkbox"/> |
| 2030 to 2050 | <input type="checkbox"/> |

5. Location

| | | | |
|---------------|--------------------------|-------------------------|--------------------------|
| Western Cape | <input type="checkbox"/> | Gauteng | <input type="checkbox"/> |
| Northern Cape | <input type="checkbox"/> | Mpumalanga | <input type="checkbox"/> |
| Eastern Cape | <input type="checkbox"/> | Limpopo | <input type="checkbox"/> |
| Free State | <input type="checkbox"/> | North West | <input type="checkbox"/> |
| KwaZulu Natal | <input type="checkbox"/> | Outside of South Africa | <input type="checkbox"/> |

6. Motivation

Goal achievement matrix score

7. First Order Cost Estimate

Total R80.0 million

8. Proposed Funding Mechanisms

Funding committed yet? No

| | |
|--------------------|-------------------------------------|
| National fiscus | <input checked="" type="checkbox"/> |
| Provincial funding | <input type="checkbox"/> |
| Public enterprise | <input type="checkbox"/> |
| Private sector | <input type="checkbox"/> |

Other _____

9. Proposed Institutional Responsibility

Other Department of Transport

1. Project Reference

Project Name Implement Road Freight Operator Register and Licensing System

Reference number

2. Category of Project

| | | | |
|----------------------------|--------------------------|---------------------|-------------------------------------|
| Infrastructure – roads | <input type="checkbox"/> | Passenger transport | <input type="checkbox"/> |
| Infrastructure – rail | <input type="checkbox"/> | Freight transport | <input type="checkbox"/> |
| Infrastructure – ports | <input type="checkbox"/> | Legal / policy | <input type="checkbox"/> |
| Infrastructure – airports | <input type="checkbox"/> | Financing | <input type="checkbox"/> |
| Infrastructure - pipelines | <input type="checkbox"/> | Institutional | <input checked="" type="checkbox"/> |

Other:

| | | | |
|------------|-------------------------------------|---------------|-------------------------------------|
| Regional | <input type="checkbox"/> | Committed | <input type="checkbox"/> |
| National | <input checked="" type="checkbox"/> | Not committed | <input checked="" type="checkbox"/> |
| Provincial | <input type="checkbox"/> | | |

3. Description of Project

Specify all aspects of an effective Road Freight Operator Registration System . DOT will create registry office and will manage the implementation and operational controls , with enforcement delegated to provinces

System to include the testing and certification .of “Competent Persons” who will be issued with a Certificate of Professional Competence “(CPC) and this will be a mandatory requirement to operate road freight transport.

Application processes to be designed for Transport companies to be registered and to record all pertinent details Name of Operator, Addresses, CPC holder per depot, Drivers employed, Vehicles operated, premises , maintenance arrangements etc All operators will have unique registration numbers.

Operating offences related to vehicles, drivers, and other offences reported by SAPS or provinces as well administrative contraventions will be linked to operator number and will be placed on record for analysis and action.

Foreign operators, vehicles and driver will be captured via C-BRTA as a DOT agency.

Arrangements for e-filing of monthly reports or alternatives e.g. fax, post office scan, etc
Once system has been populated and is operational non-commercial performance reporting will be introduced into the monthly reporting system.

4. Programming

| | |
|--------------|-------------------------------------|
| 2010 to 2015 | <input checked="" type="checkbox"/> |
| 2015 to 2030 | <input type="checkbox"/> |
| 2030 to 2050 | <input type="checkbox"/> |

5. Location

| | | | |
|---------------|--------------------------|-------------------------|--------------------------|
| Western Cape | <input type="checkbox"/> | Gauteng | <input type="checkbox"/> |
| Northern Cape | <input type="checkbox"/> | Mpumalanga | <input type="checkbox"/> |
| Eastern Cape | <input type="checkbox"/> | Limpopo | <input type="checkbox"/> |
| Free State | <input type="checkbox"/> | North West | <input type="checkbox"/> |
| KwaZulu Natal | <input type="checkbox"/> | Outside of South Africa | <input type="checkbox"/> |

6. Motivation

Goal achievement matrix score

7. First Order Cost Estimate

Total R10.0 million

8. Proposed Funding Mechanisms

Funding committed yet? No

| | |
|--------------------|-------------------------------------|
| National fiscus | <input checked="" type="checkbox"/> |
| Provincial funding | <input type="checkbox"/> |
| Public enterprise | <input type="checkbox"/> |
| Private sector | <input type="checkbox"/> |

Other _____

9. Proposed Institutional Responsibility

Other Department of Transport to initiate

1. Project Reference

Project Name SANRAL Expand board to allow for operator participation and expand network responsibilities

Reference number

2. Category of Project

| | | | |
|----------------------------|--------------------------|---------------------|-------------------------------------|
| Infrastructure – roads | <input type="checkbox"/> | Passenger transport | <input type="checkbox"/> |
| Infrastructure – rail | <input type="checkbox"/> | Freight transport | <input type="checkbox"/> |
| Infrastructure – ports | <input type="checkbox"/> | Legal / policy | <input type="checkbox"/> |
| Infrastructure – airports | <input type="checkbox"/> | Financing | <input type="checkbox"/> |
| Infrastructure - pipelines | <input type="checkbox"/> | Institutional | <input checked="" type="checkbox"/> |

Other:

| | | | |
|------------|-------------------------------------|---------------|-------------------------------------|
| Regional | <input type="checkbox"/> | Committed | <input type="checkbox"/> |
| National | <input checked="" type="checkbox"/> | Not committed | <input checked="" type="checkbox"/> |
| Provincial | <input type="checkbox"/> | | |

3. Description of Project

The expansion of the board of SANRAL to allow for operator participation is not expected to result in additional investment requirements. The expansion of the road network that SANRAL is responsible for would require additional funds to in future flow to SANRAL to fund additional works. The structures of SANRAL would require marginal increases in personnel. Fund an investigation into the best way to expand the SANRAL responsibilities and specific requirements that would result.

4. Programming

| | |
|--------------|-------------------------------------|
| 2010 to 2015 | <input checked="" type="checkbox"/> |
| 2015 to 2030 | <input type="checkbox"/> |
| 2030 to 2050 | <input type="checkbox"/> |

5. Location

| | | | |
|---------------|--------------------------|-------------------------|--------------------------|
| Western Cape | <input type="checkbox"/> | Gauteng | <input type="checkbox"/> |
| Northern Cape | <input type="checkbox"/> | Mpumalanga | <input type="checkbox"/> |
| Eastern Cape | <input type="checkbox"/> | Limpopo | <input type="checkbox"/> |
| Free State | <input type="checkbox"/> | North West | <input type="checkbox"/> |
| KwaZulu Natal | <input type="checkbox"/> | Outside of South Africa | <input type="checkbox"/> |

6. Motivation

Goal achievement matrix score

7. First Order Cost Estimate

Total R10.0 million

8. Proposed Funding Mechanisms

Funding committed yet? No

| | |
|--------------------|-------------------------------------|
| National fiscus | <input checked="" type="checkbox"/> |
| Provincial funding | <input type="checkbox"/> |
| Public enterprise | <input type="checkbox"/> |
| Private sector | <input type="checkbox"/> |

Other _____

9. Proposed Institutional Responsibility

Other Department of Transport to initiate

1. Project Reference

Project Name Provincial Departments of Roads (or agencies) - Audit operations and development of standards for compliance

Reference number

2. Category of Project

| | | | |
|----------------------------|--------------------------|---------------------|-------------------------------------|
| Infrastructure – roads | <input type="checkbox"/> | Passenger transport | <input type="checkbox"/> |
| Infrastructure – rail | <input type="checkbox"/> | Freight transport | <input type="checkbox"/> |
| Infrastructure – ports | <input type="checkbox"/> | Legal / policy | <input type="checkbox"/> |
| Infrastructure – airports | <input type="checkbox"/> | Financing | <input type="checkbox"/> |
| Infrastructure - pipelines | <input type="checkbox"/> | Institutional | <input checked="" type="checkbox"/> |

Other:

| | | | |
|------------|-------------------------------------|---------------|-------------------------------------|
| Regional | <input type="checkbox"/> | Committed | <input type="checkbox"/> |
| National | <input checked="" type="checkbox"/> | Not committed | <input checked="" type="checkbox"/> |
| Provincial | <input type="checkbox"/> | | |

3. Description of Project

Concern has been raised about the service delivery of some provincial roads departments and the disparity in their cost structures. A national audit of costs, effectiveness and efficiency of activities of the provincial roads departments is required. Based on the audit standards should be developed for their operations to comply with. Possible restructuring should be addressed from findings of the audits as and where required.

4. Programming

| | |
|--------------|-------------------------------------|
| 2010 to 2015 | <input checked="" type="checkbox"/> |
| 2015 to 2030 | <input type="checkbox"/> |
| 2030 to 2050 | <input type="checkbox"/> |

5. Location

| | | | |
|---------------|--------------------------|-------------------------|--------------------------|
| Western Cape | <input type="checkbox"/> | Gauteng | <input type="checkbox"/> |
| Northern Cape | <input type="checkbox"/> | Mpumalanga | <input type="checkbox"/> |
| Eastern Cape | <input type="checkbox"/> | Limpopo | <input type="checkbox"/> |
| Free State | <input type="checkbox"/> | North West | <input type="checkbox"/> |
| KwaZulu Natal | <input type="checkbox"/> | Outside of South Africa | <input type="checkbox"/> |

6. Motivation

Goal achievement matrix score

7. First Order Cost Estimate

Total R20.0 million

8. Proposed Funding Mechanisms

Funding committed yet? No

| | |
|--------------------|-------------------------------------|
| National fiscus | <input checked="" type="checkbox"/> |
| Provincial funding | <input type="checkbox"/> |
| Public enterprise | <input type="checkbox"/> |
| Private sector | <input type="checkbox"/> |

Other _____

9. Proposed Institutional Responsibility

Other Department of Transport to initiate

1. Project Reference

Project Name Ringfencing and divisionalisation of Transnet into Rail
Infrastructure Divisions and Rail Service Operator Divisions

Reference number

2. Category of Project

| | | | |
|----------------------------|--------------------------|---------------------|-------------------------------------|
| Infrastructure – roads | <input type="checkbox"/> | Passenger transport | <input type="checkbox"/> |
| Infrastructure – rail | <input type="checkbox"/> | Freight transport | <input type="checkbox"/> |
| Infrastructure – ports | <input type="checkbox"/> | Legal / policy | <input type="checkbox"/> |
| Infrastructure – airports | <input type="checkbox"/> | Financing | <input type="checkbox"/> |
| Infrastructure - pipelines | <input type="checkbox"/> | Institutional | <input checked="" type="checkbox"/> |

Other:

| | | | |
|------------|-------------------------------------|---------------|-------------------------------------|
| Regional | <input type="checkbox"/> | Committed | <input type="checkbox"/> |
| National | <input checked="" type="checkbox"/> | Not committed | <input checked="" type="checkbox"/> |
| Provincial | <input type="checkbox"/> | | |

3. Description of Project

Concerns have been raised about the lack of competition in the freight rail environment as well as the disuse/neglect of branch lines. It is proposed that the infrastructure and operations of the Transnet be ringfenced as a first step. Further that the branchlines be separated inside the rail infrastructure entity so that it can be managed separately. Allow for third party operations on the national network by using the Transport Economic Regulator to regulate access and charges on the national rail network.

4. Programming

| | |
|--------------|-------------------------------------|
| 2010 to 2015 | <input checked="" type="checkbox"/> |
| 2015 to 2030 | <input type="checkbox"/> |
| 2030 to 2050 | <input type="checkbox"/> |

5. Location

| | | | |
|---------------|--------------------------|-------------------------|--------------------------|
| Western Cape | <input type="checkbox"/> | Gauteng | <input type="checkbox"/> |
| Northern Cape | <input type="checkbox"/> | Mpumalanga | <input type="checkbox"/> |
| Eastern Cape | <input type="checkbox"/> | Limpopo | <input type="checkbox"/> |
| Free State | <input type="checkbox"/> | North West | <input type="checkbox"/> |
| KwaZulu Natal | <input type="checkbox"/> | Outside of South Africa | <input type="checkbox"/> |

6. Motivation

Goal achievement matrix score

7. First Order Cost Estimate

Total R80.0 million

8. Proposed Funding Mechanisms

Funding committed yet? No

| | |
|--------------------|-------------------------------------|
| National fiscus | <input checked="" type="checkbox"/> |
| Provincial funding | <input type="checkbox"/> |
| Public enterprise | <input type="checkbox"/> |
| Private sector | <input type="checkbox"/> |

Other _____

9. Proposed Institutional Responsibility

Other Transnet to initiate with the involvement of DPE

1. Project Reference

Project Name Divisionalisation of PRASA into Rail Infrastructure Divisions
and Rail Service Operator Divisions

Reference number

2. Category of Project

| | | | |
|----------------------------|--------------------------|---------------------|-------------------------------------|
| Infrastructure – roads | <input type="checkbox"/> | Passenger transport | <input type="checkbox"/> |
| Infrastructure – rail | <input type="checkbox"/> | Freight transport | <input type="checkbox"/> |
| Infrastructure – ports | <input type="checkbox"/> | Legal / policy | <input type="checkbox"/> |
| Infrastructure – airports | <input type="checkbox"/> | Financing | <input type="checkbox"/> |
| Infrastructure - pipelines | <input type="checkbox"/> | Institutional | <input checked="" type="checkbox"/> |

Other:

| | | | |
|------------|-------------------------------------|---------------|-------------------------------------|
| Regional | <input type="checkbox"/> | Committed | <input type="checkbox"/> |
| National | <input checked="" type="checkbox"/> | Not committed | <input checked="" type="checkbox"/> |
| Provincial | <input type="checkbox"/> | | |

3. Description of Project

PRASA – ringfence costs and activities of infrastructure and operational divisions; ensure metros are effectively represented on board; allow for performance agreements with metros to ensure accountability; promote third party operations on commuter network; ensure rail fares cover operational cost and reduce subsidy dependence; to lay the foundation for possible future vertical separation.

.

4. Programming

| | |
|--------------|-------------------------------------|
| 2010 to 2015 | <input checked="" type="checkbox"/> |
| 2015 to 2030 | <input type="checkbox"/> |
| 2030 to 2050 | <input type="checkbox"/> |

5. Location

| | | | |
|---------------|--------------------------|-------------------------|--------------------------|
| Western Cape | <input type="checkbox"/> | Gauteng | <input type="checkbox"/> |
| Northern Cape | <input type="checkbox"/> | Mpumalanga | <input type="checkbox"/> |
| Eastern Cape | <input type="checkbox"/> | Limpopo | <input type="checkbox"/> |
| Free State | <input type="checkbox"/> | North West | <input type="checkbox"/> |
| KwaZulu Natal | <input type="checkbox"/> | Outside of South Africa | <input type="checkbox"/> |

6. Motivation

Goal achievement matrix score

7. First Order Cost Estimate

Total R20.0 million

8. Proposed Funding Mechanisms

Funding committed yet? No

| | |
|--------------------|-------------------------------------|
| National fiscus | <input checked="" type="checkbox"/> |
| Provincial funding | <input type="checkbox"/> |
| Public enterprise | <input type="checkbox"/> |
| Private sector | <input type="checkbox"/> |

Other _____

9. Proposed Institutional Responsibility

Other Department of Transport to initiate

1. Project Reference

Project Name Department of Transport – Expand Rail Division to undertake strategic planning and guidance of rail infrastructure

Reference number

2. Category of Project

| | | | |
|----------------------------|-------------------------------------|---------------------|--------------------------|
| Infrastructure – roads | <input type="checkbox"/> | Passenger transport | <input type="checkbox"/> |
| Infrastructure – rail | <input checked="" type="checkbox"/> | Freight transport | <input type="checkbox"/> |
| Infrastructure – ports | <input type="checkbox"/> | Legal / policy | <input type="checkbox"/> |
| Infrastructure – airports | <input type="checkbox"/> | Financing | <input type="checkbox"/> |
| Infrastructure - pipelines | <input type="checkbox"/> | Institutional | <input type="checkbox"/> |

Other:

| | | | |
|------------|-------------------------------------|---------------|-------------------------------------|
| Regional | <input type="checkbox"/> | Committed | <input type="checkbox"/> |
| National | <input type="checkbox"/> | Not committed | <input checked="" type="checkbox"/> |
| Provincial | <input checked="" type="checkbox"/> | | |

3. Description of Project

The Department of Transport's current lack of involvement in the strategic planning of the rail network and guidance to institutions like Transnet and PRASA is of concern. The DOT should take an active role in the guidance of the strategic direction and planning of its rail infrastructure assets inclusive of the roll-out of a future standard gauge network.

4. Programming

| | |
|--------------|-------------------------------------|
| 2010 to 2015 | <input checked="" type="checkbox"/> |
| 2015 to 2030 | <input type="checkbox"/> |
| 2030 to 2050 | <input type="checkbox"/> |

5. Location

| | | | |
|---------------|--------------------------|-------------------------|--------------------------|
| Western Cape | <input type="checkbox"/> | Gauteng | <input type="checkbox"/> |
| Northern Cape | <input type="checkbox"/> | Mpumalanga | <input type="checkbox"/> |
| Eastern Cape | <input type="checkbox"/> | Limpopo | <input type="checkbox"/> |
| Free State | <input type="checkbox"/> | North West | <input type="checkbox"/> |
| KwaZulu Natal | <input type="checkbox"/> | Outside of South Africa | <input type="checkbox"/> |

6. Motivation

Goal achievement matrix score

7. First Order Cost Estimate

Total R20.0 million

8. Proposed Funding Mechanisms

Funding committed yet? No

| | |
|--------------------|-------------------------------------|
| National fiscus | <input checked="" type="checkbox"/> |
| Provincial funding | <input type="checkbox"/> |
| Public enterprise | <input type="checkbox"/> |
| Private sector | <input type="checkbox"/> |

Other _____

9. Proposed Institutional Responsibility

Other Department of Transport to initiate

10. Project Reference

Project Name ACSA expand portfolio of airports managed

Reference number

11. Category of Project

| | | | |
|----------------------------|-------------------------------------|---------------------|--------------------------|
| Infrastructure – roads | <input type="checkbox"/> | Passenger transport | <input type="checkbox"/> |
| Infrastructure – rail | <input checked="" type="checkbox"/> | Freight transport | <input type="checkbox"/> |
| Infrastructure – ports | <input type="checkbox"/> | Legal / policy | <input type="checkbox"/> |
| Infrastructure – airports | <input type="checkbox"/> | Financing | <input type="checkbox"/> |
| Infrastructure - pipelines | <input type="checkbox"/> | Institutional | <input type="checkbox"/> |

Other:

| | | | |
|------------|-------------------------------------|---------------|-------------------------------------|
| Regional | <input type="checkbox"/> | Committed | <input type="checkbox"/> |
| National | <input type="checkbox"/> | Not committed | <input checked="" type="checkbox"/> |
| Provincial | <input checked="" type="checkbox"/> | | |

12. Description of Project

ACSA – expand number of airports managed; allow for competition between airports. This is expected to have a marginal impact on the personnel complement of ACSA. Additional operational expenses to be financed out of user charges.

13. Programming

| | |
|--------------|-------------------------------------|
| 2010 to 2015 | <input checked="" type="checkbox"/> |
| 2015 to 2030 | <input type="checkbox"/> |
| 2030 to 2050 | <input type="checkbox"/> |

14. Location

| | | | |
|---------------|--------------------------|-------------------------|--------------------------|
| Western Cape | <input type="checkbox"/> | Gauteng | <input type="checkbox"/> |
| Northern Cape | <input type="checkbox"/> | Mpumalanga | <input type="checkbox"/> |
| Eastern Cape | <input type="checkbox"/> | Limpopo | <input type="checkbox"/> |
| Free State | <input type="checkbox"/> | North West | <input type="checkbox"/> |
| KwaZulu Natal | <input type="checkbox"/> | Outside of South Africa | <input type="checkbox"/> |

15. Motivation

Goal achievement matrix score

16. First Order Cost Estimate

Total R10.0 million

17. Proposed Funding Mechanisms

Funding committed yet? No

| | |
|--------------------|-------------------------------------|
| National fiscus | <input checked="" type="checkbox"/> |
| Provincial funding | <input type="checkbox"/> |
| Public enterprise | <input type="checkbox"/> |
| Private sector | <input type="checkbox"/> |

Other _____

18. Proposed Institutional Responsibility

Other Department of Transport to initiate

1. Project Reference

Project Name Department of Transport – Aviation Division
Expand responsibilities strategic management and National
Airports Development Master Plan

Reference number

2. Category of Project

| | | | |
|----------------------------|----------------------|---------------------|---------------------------------|
| Infrastructure – roads | <input type="text"/> | Passenger transport | <input type="text"/> |
| Infrastructure – rail | <input type="text"/> | Freight transport | <input type="text"/> |
| Infrastructure – ports | <input type="text"/> | Legal / policy | <input type="text"/> |
| Infrastructure – airports | <input type="text"/> | Financing | <input type="text"/> |
| Infrastructure - pipelines | <input type="text"/> | Institutional | <input checked="" type="text"/> |

Other:

| | | | |
|------------|---------------------------------|---------------|---------------------------------|
| Regional | <input type="text"/> | Committed | <input type="text"/> |
| National | <input checked="" type="text"/> | Not committed | <input checked="" type="text"/> |
| Provincial | <input type="text"/> | | |

3. Description of Project

Department of Transport Aviation Division: ensure strategic management of airport infrastructure; initiate a National Airport Development Master Plan; etc

4. Programming

| | |
|--------------|-------------------------------------|
| 2010 to 2015 | <input checked="" type="checkbox"/> |
| 2015 to 2030 | <input type="checkbox"/> |
| 2030 to 2050 | <input type="checkbox"/> |

5. Location

| | | | |
|---------------|--------------------------|-------------------------|--------------------------|
| Western Cape | <input type="checkbox"/> | Gauteng | <input type="checkbox"/> |
| Northern Cape | <input type="checkbox"/> | Mpumalanga | <input type="checkbox"/> |
| Eastern Cape | <input type="checkbox"/> | Limpopo | <input type="checkbox"/> |
| Free State | <input type="checkbox"/> | North West | <input type="checkbox"/> |
| KwaZulu Natal | <input type="checkbox"/> | Outside of South Africa | <input type="checkbox"/> |

6. Motivation

Goal achievement matrix score

7. First Order Cost Estimate

Total R10.0 million

8. Proposed Funding Mechanisms

Funding committed yet? No

| | |
|--------------------|-------------------------------------|
| National fiscus | <input checked="" type="checkbox"/> |
| Provincial funding | <input type="checkbox"/> |
| Public enterprise | <input type="checkbox"/> |
| Private sector | <input type="checkbox"/> |

Other _____

9. Proposed Institutional Responsibility

Other Department of Transport to initiate

1. Project Reference

Project Name SA Marine Safety Authority – Review responsibilities and align with other modes

Reference number

2. Category of Project

| | | | |
|----------------------------|--------------------------|---------------------|-------------------------------------|
| Infrastructure – roads | <input type="checkbox"/> | Passenger transport | <input type="checkbox"/> |
| Infrastructure – rail | <input type="checkbox"/> | Freight transport | <input type="checkbox"/> |
| Infrastructure – ports | <input type="checkbox"/> | Legal / policy | <input type="checkbox"/> |
| Infrastructure – airports | <input type="checkbox"/> | Financing | <input type="checkbox"/> |
| Infrastructure - pipelines | <input type="checkbox"/> | Institutional | <input checked="" type="checkbox"/> |

Other:

| | | | |
|------------|-------------------------------------|---------------|-------------------------------------|
| Regional | <input type="checkbox"/> | Committed | <input type="checkbox"/> |
| National | <input checked="" type="checkbox"/> | Not committed | <input checked="" type="checkbox"/> |
| Provincial | <input type="checkbox"/> | | |

3. Description of Project

SAMSA (SA Marine Safety Authority) – review roles and expand to eliminate overlaps with other institutions; ensure the whole spectrum of marine safety issues is covered. Ensure that approach is homogeneous with other modes.

4. Programming

| | |
|--------------|-------------------------------------|
| 2010 to 2015 | <input checked="" type="checkbox"/> |
| 2015 to 2030 | <input type="checkbox"/> |
| 2030 to 2050 | <input type="checkbox"/> |

5. Location

| | | | |
|---------------|--------------------------|-------------------------|--------------------------|
| Western Cape | <input type="checkbox"/> | Gauteng | <input type="checkbox"/> |
| Northern Cape | <input type="checkbox"/> | Mpumalanga | <input type="checkbox"/> |
| Eastern Cape | <input type="checkbox"/> | Limpopo | <input type="checkbox"/> |
| Free State | <input type="checkbox"/> | North West | <input type="checkbox"/> |
| KwaZulu Natal | <input type="checkbox"/> | Outside of South Africa | <input type="checkbox"/> |

6. Motivation

Goal achievement matrix score

7. First Order Cost Estimate

Total R10.0 million

8. Proposed Funding Mechanisms

Funding committed yet? No

| | |
|--------------------|-------------------------------------|
| National fiscus | <input checked="" type="checkbox"/> |
| Provincial funding | <input type="checkbox"/> |
| Public enterprise | <input type="checkbox"/> |
| Private sector | <input type="checkbox"/> |

Other _____

9. Proposed Institutional Responsibility

Other Department of Transport to initiate

1. Project Reference

Project Name National Ports Authority – restructure to allow for more competition

Reference number

2. Category of Project

| | | | |
|----------------------------|--------------------------|---------------------|-------------------------------------|
| Infrastructure – roads | <input type="checkbox"/> | Passenger transport | <input type="checkbox"/> |
| Infrastructure – rail | <input type="checkbox"/> | Freight transport | <input type="checkbox"/> |
| Infrastructure – ports | <input type="checkbox"/> | Legal / policy | <input type="checkbox"/> |
| Infrastructure – airports | <input type="checkbox"/> | Financing | <input type="checkbox"/> |
| Infrastructure - pipelines | <input type="checkbox"/> | Institutional | <input checked="" type="checkbox"/> |

Other:

| | | | |
|------------|-------------------------------------|---------------|-------------------------------------|
| Regional | <input type="checkbox"/> | Committed | <input type="checkbox"/> |
| National | <input checked="" type="checkbox"/> | Not committed | <input checked="" type="checkbox"/> |
| Provincial | <input type="checkbox"/> | | |

3. Description of Project

National Ports Authority – competition be allowed between ports; structure ports into separate business entities; allow for specialisation and niche markets between ports.

4. Programming

| | |
|--------------|-------------------------------------|
| 2010 to 2015 | <input checked="" type="checkbox"/> |
| 2015 to 2030 | <input type="checkbox"/> |
| 2030 to 2050 | <input type="checkbox"/> |

5. Location

| | | | |
|---------------|--------------------------|-------------------------|--------------------------|
| Western Cape | <input type="checkbox"/> | Gauteng | <input type="checkbox"/> |
| Northern Cape | <input type="checkbox"/> | Mpumalanga | <input type="checkbox"/> |
| Eastern Cape | <input type="checkbox"/> | Limpopo | <input type="checkbox"/> |
| Free State | <input type="checkbox"/> | North West | <input type="checkbox"/> |
| KwaZulu Natal | <input type="checkbox"/> | Outside of South Africa | <input type="checkbox"/> |

6. Motivation

Goal achievement matrix score

7. First Order Cost Estimate

Total R10.0 million

8. Proposed Funding Mechanisms

Funding committed yet? No

| | |
|--------------------|-------------------------------------|
| National fiscus | <input checked="" type="checkbox"/> |
| Provincial funding | <input type="checkbox"/> |
| Public enterprise | <input type="checkbox"/> |
| Private sector | <input type="checkbox"/> |

Other _____

9. Proposed Institutional Responsibility

Other Department of Transport to initiate

1. Project Reference

Project Name Department of Transport Marine Division – expand and align responsibilities

Reference number

2. Category of Project

| | | | |
|----------------------------|--------------------------|---------------------|-------------------------------------|
| Infrastructure – roads | <input type="checkbox"/> | Passenger transport | <input type="checkbox"/> |
| Infrastructure – rail | <input type="checkbox"/> | Freight transport | <input type="checkbox"/> |
| Infrastructure – ports | <input type="checkbox"/> | Legal / policy | <input type="checkbox"/> |
| Infrastructure – airports | <input type="checkbox"/> | Financing | <input type="checkbox"/> |
| Infrastructure - pipelines | <input type="checkbox"/> | Institutional | <input checked="" type="checkbox"/> |

Other:

| | | | |
|------------|-------------------------------------|---------------|-------------------------------------|
| Regional | <input type="checkbox"/> | Committed | <input type="checkbox"/> |
| National | <input checked="" type="checkbox"/> | Not committed | <input checked="" type="checkbox"/> |
| Provincial | <input type="checkbox"/> | | |

3. Description of Project

Department of Transport Maritime Division – create functional area responsible for promotion of inter-coastal shipping; create coordination structures with all relevant entities and institutions.

4. Programming

| | |
|--------------|-------------------------------------|
| 2010 to 2015 | <input checked="" type="checkbox"/> |
| 2015 to 2030 | <input type="checkbox"/> |
| 2030 to 2050 | <input type="checkbox"/> |

5. Location

| | | | |
|---------------|--------------------------|-------------------------|--------------------------|
| Western Cape | <input type="checkbox"/> | Gauteng | <input type="checkbox"/> |
| Northern Cape | <input type="checkbox"/> | Mpumalanga | <input type="checkbox"/> |
| Eastern Cape | <input type="checkbox"/> | Limpopo | <input type="checkbox"/> |
| Free State | <input type="checkbox"/> | North West | <input type="checkbox"/> |
| KwaZulu Natal | <input type="checkbox"/> | Outside of South Africa | <input type="checkbox"/> |

6. Motivation

Goal achievement matrix score

7. First Order Cost Estimate

Total R10.0 million

8. Proposed Funding Mechanisms

Funding committed yet? No

| | |
|--------------------|-------------------------------------|
| National fiscus | <input checked="" type="checkbox"/> |
| Provincial funding | <input type="checkbox"/> |
| Public enterprise | <input type="checkbox"/> |
| Private sector | <input type="checkbox"/> |

Other _____

9. Proposed Institutional Responsibility

Other Department of Transport to initiate

1. Project Reference

Project Name Reorganise Department of Transport to create structure for Management of regulated competition for all modes

Reference number

2. Category of Project

| | | | |
|----------------------------|-------------------------------------|---------------------|--------------------------|
| Infrastructure – roads | <input type="checkbox"/> | Passenger transport | <input type="checkbox"/> |
| Infrastructure – rail | <input checked="" type="checkbox"/> | Freight transport | <input type="checkbox"/> |
| Infrastructure – ports | <input type="checkbox"/> | Legal / policy | <input type="checkbox"/> |
| Infrastructure – airports | <input type="checkbox"/> | Financing | <input type="checkbox"/> |
| Infrastructure - pipelines | <input type="checkbox"/> | Institutional | <input type="checkbox"/> |

Other:

| | | | |
|------------|-------------------------------------|---------------|-------------------------------------|
| Regional | <input type="checkbox"/> | Committed | <input type="checkbox"/> |
| National | <input checked="" type="checkbox"/> | Not committed | <input checked="" type="checkbox"/> |
| Provincial | <input type="checkbox"/> | | |

3. Description of Project

Reorganise DOT to create structure for effective management of regulated competition between operators in all freight modes :

Create or reorganise Freight Regulation Division to cover Road, rail, ports, pipelines and air transport :

- Safety Regulator [Road, rail, ports, pipeline, air]
- Economic Regulator [Road, rail, ports, pipeline, air]
- State Asset Agency [Roads Agency, Rail Track Agency, Ports authorities Pipeline Agency , Airports Agency]

The restructuring should be achieved by retraining and deployment of existing staff.

Consultants will be needed to assist with the integration of existing entities and agencies into a cohesive system as well as the development of the management and monitoring systems required to create registers and define procedures.

4. Programming

| | |
|--------------|-------------------------------------|
| 2010 to 2015 | <input checked="" type="checkbox"/> |
| 2015 to 2030 | <input type="checkbox"/> |
| 2030 to 2050 | <input type="checkbox"/> |

5. Location

| | | | |
|---------------|--------------------------|-------------------------|--------------------------|
| Western Cape | <input type="checkbox"/> | Gauteng | <input type="checkbox"/> |
| Northern Cape | <input type="checkbox"/> | Mpumalanga | <input type="checkbox"/> |
| Eastern Cape | <input type="checkbox"/> | Limpopo | <input type="checkbox"/> |
| Free State | <input type="checkbox"/> | North West | <input type="checkbox"/> |
| KwaZulu Natal | <input type="checkbox"/> | Outside of South Africa | <input type="checkbox"/> |

6. Motivation

Goal achievement matrix score

7. First Order Cost Estimate

Total R10.0 million

8. Proposed Funding Mechanisms

Funding committed yet? No

| | |
|--------------------|-------------------------------------|
| National fiscus | <input checked="" type="checkbox"/> |
| Provincial funding | <input type="checkbox"/> |
| Public enterprise | <input type="checkbox"/> |
| Private sector | <input type="checkbox"/> |

Other _____

9. Proposed Institutional Responsibility

Other Department of Transport to initiate

ADDENDUM B1

GOAL ACHIEVEMENT RATINGS FOR KZN PROVINCIAL PROJECTS



GAM Score per Project - Provincial

KwaZulu Natal

| GAM Score | Project Name: | Programming | Project Category | Project Category Other | Project extent | Funding | Other Funding | First Order Lifetime Cost | Capital Cost | Maintance/Operational Cost | Funding Mechanisms | Institutional Responsibility |
|-----------|---------------------------------------------------------------------|-------------|---------------------------|-----------------------------------------|----------------|---------------|---------------|---------------------------|--------------|----------------------------|--------------------|------------------------------|
| 57 | KZN Wild Coast Road a | 2015 - 2030 | Infrastructure - Roads | | National | Not committed | N.A. | R. | R.00 | R1,272.00 | Other | DoT / Toll Company |
| 54 | KZN R34 a | 2015 - 2030 | Infrastructure - Roads | | National | Not committed | N.A. | R. | R.00 | R2,288.00 | PPP | DoT / Toll company |
| 52.375 | Inter-city IRPTN Operational Plan | 2010 - 2015 | Planning | Planning related to Passenger Transport | National | Not committed | N.A. | R30,000,000. | R.00 | R.00 | Fiscus | DoT |
| 100 | KZN N3 a | 2010 - 2015 | Infrastructure - Roads | | National | Committed | N.A. | R. | R.00 | R5,200.00 | PPP | N3 Toll Company |
| 51 | KZN N11 a | 2015 - 2030 | Infrastructure - Roads | | National | Not committed | N.A. | R. | R.00 | R440.00 | PPP | SANRAL |
| 49.545 | KZN N2N b | 2010 - 2015 | Infrastructure - Roads | | National | Not committed | N.A. | R. | R.00 | R326.00 | PPP | SANRAL |
| 44.92 | KZN N3 b | 2010 - 2015 | Infrastructure - Roads | | National | Not committed | N.A. | R. | R.00 | R1,400.00 | PPP | DoT / SANRAL |
| 43.55 | KZN N2S b | 2010 - 2015 | Infrastructure - Roads | | Provincial | Not committed | N.A. | R. | R.00 | R1,152.00 | Fiscus | KZN DoT / eThekweni |
| 41 | KZN R34 d | 2030 - 2050 | Infrastructure - Roads | | National | Not committed | N.A. | R. | R.00 | R1,170.00 | PPP | DoT / Toll Company |
| 40.77 | SA2 Rail a: Johannesburg - Durban High Speed Line | 2010 - 2015 | Infrastructure - Rail | | National | Not committed | N.A. | R. | R.00 | R50.00 | Fiscus | DOT |
| 40.17 | KZN Rail a | 2010 - 2015 | Infrastructure - Rail | | National | Not committed | N.A. | R. | R.00 | R.00 | Fiscus | Transnet |
| 37.71 | KZN Heavy Haul a | 2010 - 2015 | Infrastructure - Roads | | National | Not committed | N.A. | R. | R.00 | R720.00 | Fiscus | DoT |
| 37.12 | SA2 Rail b: Johannesburg - durban New High Speed line - Procurement | 2015 - 2030 | Infrastructure - Rail | | National | Not committed | PPP | R. | R.00 | R20,000.00 | Fiscus | DOT/PRASA/Transnet |
| 37.05 | KZN N3 c | 2015 - 2030 | Infrastructure - Roads | | National | Not committed | N.A. | R. | R.00 | R1,122.00 | PPP | N3 Toll Company |
| 100 | New Airport at La Mercy (a) | 2010 - 2015 | Infrastructure - Airports | | National | Committed | ACSA funding | R. | R.00 | R460.00 | Other | ACSA |

GAM Score per Project - Provincial

| | | | | | | | | | | | | |
|--------|----------------------------------------------------|-------------|----------------------------|--|------------|---------------|--------------|---------------|-----------------|-----------------|------------|---------------------|
| 100 | La Mercy Airport Upgrading (c) | 2030 - 2050 | Infrastructure - Airports | | National | Committed | ACSA funding | R. | R.00 | R8,000.00 | Other | ACSA |
| 100 | Develop Second Airport near Durban | 2030 - 2050 | Infrastructure - Airports | | National | Committed | ACSA funding | R. | R.00 | R8,000.00 | Other | ACSA |
| 36.95 | KZN R617 / P604 | 2030 - 2050 | Infrastructure - Roads | | Provincial | Not committed | N.A. | R. | R.00 | R2,160.00 | Fiscus | KZN DoT |
| 36.75 | KZN Heavy Haul b | 2015 - 2030 | Infrastructure - Roads | | National | Not committed | N.A. | R. | R.00 | R3,210.00 | Fiscus | DoT |
| 36.05 | KZN N2N e | 2030 - 2050 | Infrastructure - Roads | | National | Not committed | N.A. | R. | R.00 | R2,170.00 | PPP | SANRAL |
| 36.05 | KZN R34 c | 2030 - 2050 | Infrastructure - Roads | | National | Not committed | N.A. | R. | R.00 | R1,248.00 | Fiscus | DoT / Toll company |
| 36.05 | KZN Wild Coast Road b | 2030 - 2050 | Infrastructure - Roads | | National | Not committed | N.A. | R. | R.00 | R636.00 | PPP | Dot / Toll Company |
| 34.8 | KZN N2N d | 2015 - 2030 | Infrastructure - Roads | | National | Not committed | N.A. | R. | R.00 | R2,210.00 | PPP | SANRAL |
| 34.19 | KZN P200 | 2015 - 2030 | Infrastructure - Roads | | Provincial | Not committed | N.A. | R. | R.00 | R648.00 | Fiscus | KZN DoT |
| 33.84 | KZN N11 c | 2015 - 2030 | Infrastructure - Roads | | National | Not committed | N.A. | R. | R.00 | R1,200.00 | PPP | SANRAL |
| 33.2 | KZN KSIA N3 Link | 2030 - 2050 | Infrastructure - Roads | | National | Not committed | N.A. | R. | R.00 | R1,980.00 | Fiscus | DoT / Toll Company |
| 33.05 | KZN N2N f | 2030 - 2050 | Infrastructure - Roads | | National | Not committed | N.A. | R. | R.00 | R518.00 | PPP | SANRAL |
| 33.09 | KZN rail b | 2010 - 2015 | Infrastructure - Rail | | National | Not committed | N.A. | R. | R.00 | R.00 | Fiscus | Transnet |
| 100 | Multi products pipeline between Durban and Gauteng | 2010 - 2015 | Infrastructure - Pipelines | | National | Committed | N.A. | R999,000,000. | R999,000,000.00 | R999,000,000.00 | Co-funding | Transnet/Sasaol/PPP |
| 31.845 | KZN N2N a | 2015 - 2030 | Infrastructure - Roads | | Provincial | Not committed | N.A. | R. | R.00 | R992.00 | Fiscus | KZN DoT / eThekwini |
| 31.8 | KZN R34 b | 2015 - 2030 | Infrastructure - Roads | | National | Not committed | N.A. | R. | R.00 | R960.00 | PPP | DoT / Toll Company |
| 31.55 | KZN N11 b | 2015 - 2030 | Infrastructure - Roads | | National | Not committed | N.A. | R. | R.00 | R1,210.00 | PPP | SANRAL |
| 31.35 | KZN R102 a | 2010 - 2015 | Infrastructure - Roads | | Provincial | Not committed | N.A. | R. | R.00 | R225.00 | Fiscus | KZN DoT |

GAM Score per Project - Provincial

| | | | | | | | | | | | | |
|-------|------------------------------------------------------------------------|-------------|----------------------------|--|------------|---------------|-------------------|--------------|------|----------------|------------|--------------------|
| 30.84 | KZN R74 a | 2015 - 2030 | Infrastructure - Roads | | National | Not committed | N.A. | R. | R.00 | R420.00 | Fiscus | KZN DoT |
| 100 | Multimodal transfer at Jameson Park for transfer from pipeline to road | 2010 - 2015 | Infrastructure - Pipelines | | National | Committed | N.A. | R20,000,000. | R.00 | R.00 | Co-funding | Transnet/Sasol/PPP |
| 100 | Upgrade and Expand Durban Port (a) | 2010 - 2015 | Infrastructure - Ports | | Provincial | Committed | Transnet | R. | R.00 | R25,920,000.00 | Fiscus | Transnet |
| 29.3 | Upgrade and Expand Durban Port (b) | 2015 - 2030 | Infrastructure - Ports | | Provincial | Not committed | Transnet funding | R. | R.00 | R13,090,000.00 | Fiscus | Transnet |
| 29.3 | Upgrade and Expand Durban Port (c) | 2030 - 2050 | Infrastructure - Ports | | Provincial | Not committed | Transnet funding | R. | R.00 | R14,210,000.00 | Fiscus | Transnet |
| 28.88 | KZN N3 d | 2030 - 2050 | Infrastructure - Roads | | National | Not committed | N.A. | R. | R.00 | R2,688.00 | PPP | DoT / Toll Company |
| 28.35 | KZN N2N c | 2015 - 2030 | Infrastructure - Roads | | Provincial | Not committed | N.A. | R. | R.00 | R1,188.00 | Fiscus | KZN DoT |
| 27.7 | Upgrade and Expand Richards Bay Port (b) | 2015 - 2030 | Infrastructure - Ports | | Provincial | Not committed | Transnet funding | R. | R.00 | R16,790,000.00 | Fiscus | Transnet |
| 27.7 | Upgrade and Expand Richards Bay Port (c) | 2030 - 2050 | Infrastructure - Ports | | Provincial | Not committed | Transnet funding | R. | R.00 | R5,200,000.00 | Fiscus | Transnet |
| 100 | Pietermaritzburg Airport Upgrading (C) © | 2030 - 2050 | Infrastructure - Airports | | National | Committed | Municipal funding | R. | R.00 | R45.00 | Other | Municipality |
| 26.84 | KZN N2S c | 2030 - 2050 | Infrastructure - Roads | | National | Not committed | N.A. | R. | R.00 | R1,422.00 | PPP | SANRAL |
| 25.68 | KZN R620 | 2010 - 2015 | Infrastructure - Roads | | Provincial | Not committed | N.A. | R. | R.00 | R320.00 | Fiscus | Municipality |
| 24.55 | KZN 5 Rail: Stanger - Richards Bay: Doubling | 2015 - 2030 | Infrastructure - Rail | | Provincial | Not committed | Transnet | R. | R.00 | R4,658.00 | Other | Transnet |
| 24.47 | SA 2Rail c: Johannesburg - durban New high speed rail | 2030 - 2050 | Infrastructure - Rail | | National | Not committed | PPP | R. | R.00 | R77,950.00 | Fiscus | DOT/PRASA/Transnet |
| 23.75 | KZN R74 b | 2030 - 2050 | Infrastructure - Roads | | National | Not committed | N.A. | R. | R.00 | R468.00 | Fiscus | KZN DoT |
| 100 | Richards Bay Airport Upgrade (b) | 2030 - 2050 | Infrastructure - Airports | | National | Committed | N.A. | R. | R.00 | R80.00 | PPP | Private company |
| 100 | Margate Airport Upgrading (a) | 2030 - 2050 | Infrastructure - Airports | | National | Committed | Municipal | R. | R.00 | R40.00 | Other | Municipality |
| 21.35 | KZN R68 | 2030 - 2050 | Infrastructure - Roads | | Provincial | Not committed | N.A. | R. | R.00 | R918.00 | Fiscus | KZN DoT |

GAM Score per Project - Provincial

| | | | | | | | | | | | | |
|--------|-------------------------------------------------------------------------|-------------|---------------------------|--|------------|---------------|-------------------|----|------|---------------|--------|-----------------|
| 20.14 | KZN 4 Rail a: Durban - Stanger: Upgrade & Provide 3rd Line | 2010 - 2015 | Infrastructure - Rail | | Provincial | Not committed | Transnet | R. | R.00 | R600.00 | Other | Transnet |
| 20.14 | KZN 4 Rail b: Durban - Stanger Provide 3rd Line | 2015 - 2030 | Infrastructure - Rail | | Provincial | Not committed | Transnet | R. | R.00 | R5,622.00 | Other | Transnet |
| 18.14 | KZN 11 Rail: Cato Ridge New container depot | 2015 - 2030 | Freight Transport | | Provincial | Not committed | Transnet | R. | R.00 | R962.00 | Other | Transnet |
| 100 | Richards Bay Airport Upgrade (a) | 2010 - 2015 | Infrastructure - Airports | | National | Committed | N.A. | R. | R.00 | R50.00 | PPP | Private company |
| 100 | KZN 7 Rail:Richards Bay - Piet Retief Improve capacity of the coal line | 2010 - 2015 | Infrastructure - Rail | | National | Committed | Transnet | R. | R.00 | R5,656.00 | Other | Transnet |
| 100 | Pietermaritzburg Airport Upgrading (b) | 2015 - 2030 | Infrastructure - Airports | | National | Committed | Municipal funding | R. | R.00 | R20.00 | Other | Municipality |
| 100 | Upgrade and Expand Richards Bay Port (a) | 2010 - 2015 | Infrastructure - Ports | | Provincial | Committed | Transnet funding | R. | R.00 | R5,000,000.00 | Fiscus | Transnet |
| 13.54 | KZN 2 Rail a: Johannesburg - Durban Provide 3rd line | 2015 - 2030 | Infrastructure - Rail | | National | Not committed | Transnet | R. | R.00 | R14,106.00 | Other | Transnet |
| 13.54 | KZN 6 Rail: Richards Bay - Golela Improve capacity | 2015 - 2030 | | | Regional | Not committed | Transnet | R. | R.00 | R1,045.00 | Other | Transnet |
| 13.54 | KZN 2 Rail b: Johannesburg - Durban: Provide 3rd line | 2030 - 2050 | Infrastructure - Rail | | National | Not committed | Transnet | R. | R.00 | R21,158.00 | Other | Transnet |
| 11.89 | KZN 9 Rail: Umbogintwini - Umkomaas Double rail line | 2015 - 2030 | Infrastructure - Rail | | Provincial | Not committed | Transnet | R. | R.00 | R1,190.00 | Fiscus | PRASA |
| 11.14 | KZN 3 Rail: Bayhead - Cato Ridge New Bypass | 2015 - 2030 | Infrastructure - Rail | | Provincial | Not committed | Transnet | R. | R.00 | R6,222.00 | Other | Transnet |
| -10.45 | KZN 8 Rail:Richards Bay - Broodsniersplaas Provide 3rd line | 2030 - 2050 | Infrastructure - Rail | | National | Not committed | Transnet | R. | R.00 | R29,803.00 | Other | Transnet |
| 9.37 | KZN 1 Rail: Durban - Palmford Signal infilling | 2015 - 2030 | Infrastructure - Rail | | National | Not committed | Transnet | R. | R.00 | R143.00 | Other | Transnet |
| 100 | Pietermaritzburg Airport Upgrade(a) | 2010 - 2015 | Infrastructure - Airports | | National | Committed | Municipal funding | R. | R.00 | R20.00 | Other | Municipality |
| 100 | La Mercy Airport Upgrading (b) | 2015 - 2030 | Infrastructure - Airports | | National | Committed | ACSA funding | R. | R.00 | R7,800.00 | Other | ACSA |
| 3.75 | KZN N2S a | 2010 - 2015 | Infrastructure - Roads | | National | Not committed | N.A. | R. | R.00 | R461.00 | PPP | Sanral |
| 0.1 | KZA 10 Rail: Umkomaas - Kelso Double rail line | 2030 - 2050 | Infrastructure - Rail | | Provincial | Not committed | N.A. | R. | R.00 | R1,048.00 | Fiscus | PRASA |

ADDENDUM B2

GOAL ACHIEVEMENT RATINGS FOR NATIONAL PROJECTS



NATMAP 2050

GAM Score per Project - Provincial

National

| GAM Score | Project Name: | Programming | Project Category | Project Category Other | Project extent | Funding | Other Funding | First Order Lifetime Cost | Capital Cost | Maintance/Operational Cos |
|-----------|--------------------------------------------------------------------------------------------------|-------------|-----------------------|------------------------|----------------|---------------|-----------------|---------------------------|--------------|---------------------------|
| 37.78 | Moloto Jane Furse: Extend New Moloto Rail corridor | 2015 - 2030 | Infrastructure - Rail | | National | Not committed | N.A. | R. | R.00 | R9,500,000,000. |
| 36.18 | Pretoria Moloto New Medium Speed Rail line and passenger service | 2010 - 2015 | Infrastructure - Rail | | National | Not committed | N.A. | R. | R.00 | R12,000,000,000. |
| 100 | Transnet Ringfencing and Divisionalisation | 2010 - 2015 | Institutional | | National | Committed | DPE or Transnet | R. | R.00 | R80,000,000. |
| 100 | PRASA Ringfencing and Divisionalisation | 2010 - 2015 | Institutional | | National | Committed | PRASA? | R. | R.00 | R20,000,000. |
| 100 | Reorganise DOT to create structure for the management of regulated competition between all modes | 2010 - 2015 | Institutional | | National | Committed | N.A. | R. | R.00 | R10,000,000. |
| 100 | DOT - Expand Aviation Division to give strategic guidance | 2010 - 2015 | Institutional | | National | Committed | N.A. | R. | R.00 | R10,000,000. |
| 10.77 | Pretoria - Polokwane High Speed Rail | 2030 - 2050 | Infrastructure - Rail | | National | Not committed | N.A. | R. | R.00 | R14,000,000,000. |
| 100 | Create Transport Investment Clearing House (TICH) | 2010 - 2015 | Institutional | | National | Committed | N.A. | R. | R.00 | R10,000,000. |
| 100 | DOT Maritime Division - expand and align responsibilities | 2010 - 2015 | Institutional | | National | Committed | N.A. | R. | R.00 | R10,000,000. |
| 100 | SA Marine Safety Authority - review of responsibilities and align with other modes | 2010 - 2015 | Institutional | | National | Committed | N.A. | R. | R.00 | R10,000,000. |



| st | Funding Mechanisms | Institutional Responsibility |
|----|--------------------|------------------------------|
| | .00 Fiscus | Unknown |
| | .00 Fiscus | DOT |
| | .00 Fiscus | DOT |
| | .00 Fiscus | DOT |
| | .00 Fiscus | DOT |
| | .00 Fiscus | DOT |
| | .00 Fiscus | DOT |
| | .00 Fiscus | DOT |
| | .00 Fiscus | DOT |
| | .00 Fiscus | DOT |

GAM Score per Project - Provincial

| | | | | | | | | | | |
|-----|--------------------------------------------------------------------|-------------|---------------|--|----------|-----------|-------|----|------|--------------|
| 100 | Changes to SANRAL to expand board and portfolio | 2010 - 2015 | Institutional | | National | Committed | N.A. | R. | R.00 | R10,000,000. |
| 100 | Provincial Departments of Roads: Audit and develop standards | 2010 - 2015 | Institutional | | National | Committed | N.A. | R. | R.00 | R20,000,000. |
| 100 | Create Weight Distance Charging Agency | 2010 - 2015 | Institutional | | National | Committed | N.A. | R. | R.00 | R80,000,000. |
| 100 | ACSA - Expand portfolio and board | 2010 - 2015 | Institutional | | National | Committed | ACSA? | R. | R.00 | R10,000,000. |
| 100 | Create Transport Economic Regulator | 2010 - 2015 | Institutional | | National | Committed | N.A. | R. | R.00 | R20,000,000. |
| 100 | Implement road freight operator register and licensing system | 2010 - 2015 | Institutional | | National | Committed | N.A. | R. | R.00 | R10,000,000. |
| 100 | DOT - Expand Rail Division to give strategic guidance | 2010 - 2015 | Institutional | | National | Committed | N.A. | R. | R.00 | R20,000,000. |
| 100 | National Ports Authority - structure to allow for more competition | 2010 - 2015 | Institutional | | National | Committed | N.A. | R. | R.00 | R10,000,000. |
| 100 | DOT - Create Multimodal Policy Forum | 2010 - 2015 | Institutional | | National | Committed | N.A. | R. | R.00 | R5,000,000. |

ADDENDUM C1

PROJECT EXPENDITURE PROGRAMME FOR KZN PROVINCIAL ROADS

| NATMAP PHASE 4: ROAD PROJECTS | | | | | | | | | | | | | |
|------------------------------------|---|--------------------------------------------------------|------------------------------------|-----------------------------------------------------------------------------|---------------------------------|------------|----------------|----------------|----------------|----------------|----------------|-----------------|-----------------|
| Category | # | Name of the Project | Status : Committed (Yes or No) | Is the project identified as NATMAP Critical Provincial Project (Yes or No) | Total/Residual Cost (R Million) | Short-Term | | | | | Medium - Term | Long-Term | |
| | | | | | | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2015-2030 | 2030-2050 |
| PROVINCIAL : KWA-ZULU NATAL | | | | | | | | | | | | | |
| Road | | N2 South between R603 and N3 | No | Yes | R 1,883.00 | | | R 115.25 | R 115.25 | R 115.25 | R 115.25 | | R 1,422.00 |
| | | Construction of P579 between Pine Town and Amanzimtoti | No | No | R 1,152.00 | | | | | | | R 1,152.00 | |
| | | N2 North Construction of Tongaat bypass | No | No | R 1,188.00 | | | | | | | R 1,188.00 | |
| | | N2 North between N3 and stanger | No | No | R 992.00 | | | | | | | R 992.00 | |
| | | N2 North Mtubatuba and Hluhluwe | No | No | R 2,170.00 | | | | | | | | R 2,170.00 |
| | | N2 North between N3 and Umhlanga | No | Yes | R 3,054.00 | | R 81.50 | R 81.50 | R 81.50 | R 81.50 | | R 2,210.00 | R 518.00 |
| | | N3 De Beers Pass between Keeverfontein and Warden | No | Yes | R 5,200.00 | | R 1,040.00 | R 1,040.00 | R 1,040.00 | R 1,040.00 | R 1,040.00 | | |
| | | N3 between Durban and Pietermaritzburg | No | Yes | R 1,400.00 | | R 280.00 | R 280.00 | R 280.00 | R 280.00 | R 280.00 | | |
| | | N3 between Pinetown and Nottingham road | No | No | R 1,122.00 | | | | | | | R 1,122.00 | |
| | | N3 New Pietermaritzburg bypass | No | Yes | R 2,688.00 | | | | | | | | R 2,688.00 |
| | | N11 to bypass the Ladysmith CBD | No | No | R 440.00 | | | | | | | R 440.00 | |
| | | N11 between N3 and Clontarf | No | No | R 1,200.00 | | | | | | | R 1,200.00 | |
| | | N11 between Balangeich and Volksrust | No | No | R 1,210.00 | | | | | | | R 1,210.00 | |
| | | R34 between Richards bay and Melmoth | No | No | R 2,288.00 | | | | | | | R 2,288.00 | |
| | | R34 N11 to N3 | No | No | R 1,170.00 | | | | | | | | R 1,170.00 |
| | | R34 Vryheid to N11 | No | No | R 2,208.00 | | | | | | | R 960.00 | R 1,248.00 |
| | | R74 Frere and Bergville | No | No | R 888.00 | | | | | | | R 420.00 | R 468.00 |
| | | R620 from Port Shepstone to Southbroom | No | Yes | R 320.00 | | | | | R 160.00 | R 160.00 | | |
| | | New Heavy haul Route from Durban to N2 | No | Yes | R 3,930.00 | | | R 240.00 | R 240.00 | R 240.00 | R 240.00 | R 3,210.00 | |
| | | KSIA N3 link | No | No | R 1,980.00 | | | | | | | | R 1,980.00 |
| | | R102 Umzumbe to Port Shepstone | No | Yes | R 225.00 | | | | | R 112.50 | R 112.50 | | |
| | | P200 from Sezela to Umzumbe | No | No | R 648.00 | | | | | | | R 648.00 | |
| | | R68 from Dundee to Nqutu | No | No | R 918.00 | | | | | | | | R 918.00 |
| | | R617/P604 | No | No | R 2,160.00 | | | | | | | | R 2,160.00 |
| TOTAL (PER PROVINCE) | | | | | R 40,434 | R 0 | R 1,402 | R 1,517 | R 1,757 | R 2,029 | R 1,948 | R 17,040 | R 14,742 |

ADDENDUM C2

PROJECT EXPENDITURE PROGRAMME FOR KZN PROVINCIAL RAIL

| NATMAP PHASE 4: RAIL PROJECTS | | | | | | | | | | | | | | |
|-----------------------------------|------------------------------|----------------------------------------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------------|-----------------|----------------|----------------|--------------|--------------|--------------|------------------|-----------------|----------------|
| Category | No | Name of the Project | Status : Committed (Yes or No) | Is the project identified as NATMAP Critical Provincial Project (Yes or No) | Total/Residual Cost (R Million) | Short -Term | | | | | | Medium - Term | Long- Term | |
| | | | | | | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2015-2030 | 2030-2050 | |
| PROVINCIAL : KWAZULU-NATAL | | | | | | | | | | | | | | |
| Rail | KZN 1 | Durban - Palmford: Implement Signaling infilling to improve capacity | N | N | R 143 | R 0 | R 0 | R 0 | R 0 | R 0 | R 0 | R 103 | R 40 | |
| | KZN 3 | Bayhead - Cato Ridge: New Bypass | N | Y | R 5,716 | R 0 | R 0 | R 0 | R 0 | R 0 | R 0 | R 5,716 | R 0 | |
| | KZN 4 | Durban - Stanger: Upgrade & 3rd line | N | Y | R 6,222 | R 0 | R 0 | R 0 | R 0 | R 100 | R 500 | R 5,622 | R 0 | |
| | KZN 5 | Stanger - Richards Bay: Doubling | N | N | R 4,658 | R 0 | R 0 | R 0 | R 0 | R 0 | R 0 | R 1,397 | R 3,261 | |
| | KZN 6 | Golela - Richards Bay: Improve capacity | N | N | R 1,045 | R 0 | R 0 | R 0 | R 0 | R 0 | R 0 | R 751 | R 294 | |
| | KZN 7 | Richards Bay - Piet Retief: Coal Line improve capacity | Y | Y | R 5,656 | R 1,334 | R 1,312 | R 636 | ##### | R 787 | R 3 | R 456 | R 0 | |
| | KZN 9 | Umbogintwini - Umkomaas: Double Line | N | N | R 1,190 | R 0 | R 0 | R 0 | R 0 | R 0 | R 0 | R 952 | R 238 | |
| | KZN 10 | Umkomaas - Kelso: Double Line | N | N | R 1,048 | R 0 | R 0 | R 0 | R 0 | R 0 | R 0 | R 0 | R 1,048 | |
| | KZN 11 | Cato Ridge: New Container Terminal | N | N | R 962 | R 0 | R 0 | R 0 | R 0 | R 0 | R 96 | R 866 | R 0 | |
| | TOTAL (PER PROVINCE) | | | | | R 26,640 | R 1,334 | R 1,312 | R 636 | ##### | R 887 | R 599 | R 15,864 | R 4,880 |

ADDENDUM C3

PROJECT EXPENDITURE PROGRAMME FOR KZN PROVINCIAL PORTS AND AIRPORTS

| NATMAP PHASE 4: AIRPORTS AND PORTS PROJECTS | | | | | | | | | | | | | |
|---------------------------------------------|---|---------------------------------------|--------------------------------------|-----------------------------------------------------------------------------------------|------------------------------------|--------------------|--------------------|--------------------|----------------|----------------|----------------|--------------------|--------------------|
| Category | # | Name of the Project | Status : Committed (Yes or No) | Is the project identified as NATMAP Critical Provincial Project (Yes or No) | Total/Residual Cost (R Million) | Short -Term | | | | | | Medium -Term | Long -Term |
| | | | | | | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2015-2030 | 2030-2050 |
| PROVINCIAL : KWA-ZULU NATAL | | | | | | | | | | | | | |
| Airports | | New International Airport at La Mercy | Yes | Yes | R 16,260.00 | R 322.00 | R 27.60 | R 27.60 | R 27.60 | R 27.60 | R 27.60 | R 7,800.00 | R 8,000.00 |
| | | Pietermaritzburg Airport Upgrading | Yes | No | R 85.00 | R 3.33 | R 3.33 | R 3.33 | R 3.33 | R 3.33 | R 3.33 | R 20.00 | R 45.00 |
| | | Richards Bay Airport Upgrading | Yes | No | R 150.00 | R 8.33 | R 8.33 | R 8.33 | R 8.33 | R 8.33 | R 8.33 | R 20.00 | R 80.00 |
| | | Margate Airport Upgrading | No | No | R 65.00 | R 1.00 | R 1.80 | R 1.80 | R 1.80 | R 1.80 | R 1.80 | R 15.00 | R 40.00 |
| | | Second International Airport near Dbn | No | No | R 8,000.00 | | | | | | | | R 8,000.00 |
| Ports | | Expand & Upgrade Durban Port | Yes | Yes | R 53,220.00 | R 8,639.00 | R 8,639.00 | R 8,639.00 | | | | R 13,090.00 | R 14,210.00 |
| | | Expand & Upgrade Richards Bay Port | Yes | Yes | R 26,990.00 | R 1,667.00 | R 1,667.00 | R 1,667.00 | | | | R 16,790.00 | R 5,200.00 |
| TOTAL (PER PROVINCE) | | | | | R 104,770.00 | R 10,640.66 | R 10,347.06 | R 10,347.06 | R 41.06 | R 41.06 | R 41.06 | R 37,735.00 | R 35,575.00 |

ADDENDUM C4

PROJECT EXPENDITURE PROGRAMME FOR NATIONAL PROJECTS

| NATIONAL | | | | | | | | | | | | | | Annual operating cost (R Million) |
|---------------|---------|------------------------------------------------------------------------------------------|--------------------------------|------------------------------------------------------------------|---------------------------------|--------------|------|------|------|------|---------------|-------------|-----------|-----------------------------------|
| Category | Proj No | Name of the Project | Status : Committed (Yes or No) | Is the project identified as NATMAP Critical Project (Yes or No) | Total/Residual Cost (R Million) | Short - Term | | | | | Medium - Term | Long - Term | Instution | |
| | | | | | | 2010 | 2011 | 2012 | 2013 | 2014 | 2015-2030 | 2030-2050 | | |
| Institutional | | Vertical Separation of National Rail System | N | Y | 100 | 1 | 10 | 15 | 15 | 30 | 29 | 0 | | |
| Institutional | I1 | Department of Transport - Create Multimodal Policy Forum | N | Y | 5.0 | | 2 | 3 | | | | | | 0.0 |
| Institutional | I2 | Create Transport Investment Clearing House | N | Y | 10.0 | | 2 | 3 | 5 | | | | | 10.0 |
| Institutional | I3 | Create Transport Economic Regulator with modal units | N | Y | 20.0 | | 5 | 10 | 5 | | | | | 30.0 |
| Institutional | I4 | Create Road Weight Distance Charging entity | N | Y | 80.0 | 2 | 3 | 20 | 30 | 25 | | | | 10.0 |
| Institutional | I5 | Implement Road Freight Operator Register and licensing system | N | Y | 10.0 | | 3 | 3 | 4 | | | | | 30.0 |
| Institutional | I6 | Changes at SANRAL to expand portfolio and board | N | Y | 10.0 | | 2 | 4 | 4 | | | | | 0.0 |
| Institutional | I7 | Provincial Departments of Roads - Audit & Develop Standards | N | Y | 20.0 | | 5 | 10 | 5 | | | | | 0.0 |
| Institutional | I8 | Transnet Ringfencing & Divisionalisation | N | Y | 80.0 | 2 | 8 | 25 | 25 | 20 | | | | 0.0 |
| Institutional | I9 | PRASA Ringfencing & Divisionalisation | N | Y | 20.0 | 2 | 5 | 5 | 5 | 3 | | | | 0.0 |
| Institutional | I10 | Department of Transport - Expand Rail Division to give Strategic Guidance | N | Y | 20.0 | | 10 | 10 | | | | | | 10.0 |
| Institutional | I11 | ACSA - Expand portfolio and board | N | Y | 10.0 | | 2 | 4 | 4 | | | | | 0.0 |
| Institutional | I12 | Department of Transport - Expand Aviation Division to give Strategic Guidance | N | Y | 10.0 | | 5 | 5 | | | | | | 10.0 |
| Institutional | I13 | SA Maritime Safety Authority - Review responsibilities and align w other modes | N | Y | 10.0 | | 5 | 5 | | | | | | 5.0 |
| Institutional | I14 | National Ports Authority - restructure to allow for more competition | N | Y | 10.0 | | | 5 | 5 | | | | | 0.0 |
| Institutional | I15 | Department of Transport - Maritime Division expand and align responsibilities. | N | Y | 10.0 | | | 5 | 5 | | | | | 5.0 |
| Institutional | I16 | Reorganise DOT to create structure for management of regulated competition for all modes | N | Y | 10.0 | | 5 | 5 | | | | | | 10.0 |

| | | | | | | | | | | | | | | |
|----------------|----|---------------------------------------------------------------------------------------------------------------|---|---|------------|---------|---------|---------|------------|------------|------------|---------|-------------------------------------|-----|
| Rail-Passenger | 1 | Johannesburg to Durban Rail Link | N | | 98,000 | 3 | 7 | 10 | 10 | 20 | 20000 | 77950 | | |
| Rail-Passenger | 22 | Develop a regional passenger rail system: Moloto corridor (Siyabuswa to Pretoria) | N | | 17000 | 850 | 850 | 5100 | 5100 | 5100 | 0 | 0 | National DOT, PRASA, private sector | |
| Rail-Passenger | 23 | Develop a regional passenger rail system: Moloto corridor (Siyabuswa to Marble Hall) | N | | 12000 | 0 | 355 | 355 | 3195 | 3195 | 4900 | 0 | National DOT, PRASA, private sector | |
| Rail-Passenger | 24 | Develop a regional passenger rail system: N12 corridor (Johannesburg-Delmas-Ogies-eMalahleni) | N | | 9500 | 0 | 0 | 0 | 0 | 0 | 4700 | 4800 | National DOT, PRASA, private sector | |
| Rail-Passenger | 25 | Develop a regional passenger rail system: N4 corridor (Pretoria-eMalahleni-Middelburg-Mbombela-Kaapmuiden) | N | | 23920 | 0 | 0 | 0 | 0 | 0 | 23920 | 0 | National DOT, PRASA, private sector | |
| Rail-Passenger | | Johannesburg - Durban : Provide 3rd Line | N | N | 35264 | 0 | 0 | 0 | 0 | 0 | 14105.6 | 21158.4 | | |
| Rail-Passenger | | Broodspnyersplaas - Richards Bay: Provide 3rd line | N | Y | 29803.2 | 0 | 0 | 0 | 0 | 0 | 0 | 29803.2 | | |
| Rail-Passenger | | Pretoria - Moloto - Medium Speed Rail | Y | Y | 12000 | 5 | 100 | 500 | 1500 | 5000 | 4895 | 0 | | |
| Rail-Passenger | | Pretoria - Polokwane - High Speed Rail | N | N | 13999.6 | 0.2 | 0.3 | 1 | 2 | 8 | 1000 | 12988.1 | | |
| Road | 3 | Upgrade of secondary road network | N | | 64366 | 12873.2 | 12873.2 | 12873.2 | 12873.2 | 12873.2 | | | | |
| Road | 5 | Road link between N4 to Maputo through Nelspruit, Bushbuckridge, Burgersfort, Phalaborwa and Giyani to Musina | N | | 4500 | 0 | 0 | 0 | 0 | 0 | 4500 | 0 | 0 | |
| Road, Rail | 6 | Road and rail regional access to Lephalale along R33 corridor | N | | 9330 | 930 | 900 | 7500 | | | | | | |
| Road | 7 | N2 Multi-modal Coastal route corridor | N | | R 6,000.00 | | | | R 1,000.00 | R 2,000.00 | R 3,000.00 | | | |
| | | | | | 396,087 | 22,335 | 21,213 | 31,606 | 24,634 | 28,832 | 90,662 | 176,805 | 0 | 120 |

ADDENDUM D

FUNDING SOURCES

| Category | Total/Residual Cost (R Million) | Short -Term | | | | | Medium - Term | Long- Term |
|---------------------------------|---------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------|
| | | 2010 | 2011 | 2012 | 2013 | 2014 | 2015-2030 | 2030-2050 |
| Institutional | 435 | 7 | 72 | 137 | 112 | 78 | 29 | 0 |
| Institutional-Opex | 4,800 | 120 | 120 | 120 | 120 | 120 | 1,800 | 2,400 |
| Legal | 31 | | 16 | 14 | 1 | 0 | 0 | 0 |
| Planning-Passenger Operations | 30 | 5 | 10 | 15 | 0 | 0 | 0 | 0 |
| Planning-Freight Operations | 144 | 4 | 6 | 6 | 6 | 10 | 112 | 0 |
| Rail - Passenger Infrastructure | 251,487 | 858 | 1,312 | 5,966 | 9,807 | 13,323 | 73,521 | 146,700 |
| Rail -Freight Infrastructure | 48,565 | 2,458 | 3,023 | 2,095 | 835 | 548 | 9,500 | 30,106 |
| Road | 19,830 | 930 | 900 | 7,500 | 1,000 | 2,000 | 7,500 | 0 |
| Pipeline | 11,200 | 5,200 | 3,000 | 3,000 | 0 | 0 | 0 | 0 |
| Backlog/Maintenance | 64,366 | 12,873 | 12,873 | 12,873 | 12,873 | 12,873 | 0 | 0 |
| Total (RSA) | 400,887 | 22,455 | 21,333 | 31,726 | 24,754 | 28,952 | 92,462 | 179,205 |

NATMAP Proposed Funding Sources

1. **RIGHT OF ACCESS** consists of :

- a. Licence fees that discriminate between commercial and private use, freight and passenger conveyance
- b. Environmental externalities recoument according to degradation caused

Licensing Fees: Calculation Formula

Charge = Base Licensing Rate for vehicle category X Category of use factor X No. of Registered Vehicles

Category of use factor:

- Private cars: 1.10
- Motor Cycles: 1.10
- Minibus taxis: 1.00
- Busses: 1.00
- LDVs: 1.15
- HDV2s (>20tons): 1.30
- Other: 1.10

Based on the formula above the calculated licensing fees are presented below:

Table 1: Proposed Licensing Fees

| Provinces | Proposed Licensing Fees (R million) | | | | |
|------------|-------------------------------------|--------------|--------------|--------------|--------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 |
| GP | 2,015 | 2,096 | 2,181 | 2,269 | 2,361 |
| KZN | 1,264 | 1,315 | 1,368 | 1,424 | 1,481 |
| WC | 979 | 1,019 | 1,060 | 1,103 | 1,147 |
| EC | 566 | 589 | 613 | 638 | 663 |
| FS | 317 | 329 | 343 | 357 | 371 |
| MP | 376 | 391 | 407 | 424 | 441 |
| NW | 517 | 538 | 560 | 583 | 606 |
| LP | 349 | 364 | 378 | 393 | 409 |
| NC | 174 | 181 | 189 | 196 | 204 |
| RSA | 6,558 | 6,823 | 7,099 | 7,386 | 7,684 |

Source: Consultant's Calculations

Table 2: Comparison of Budget Estimate vis-à-vis Consultant's Proposed calculations

| Provinces | Budget Estimate (R million) | Consultant's Calculations(R million) | Difference(Budget-Proposed)-R Million |
|-------------|-----------------------------|--------------------------------------|----------------------------------------|
| 2010 | | | |
| GP | 2 | 2,015 | -2013 |
| KZN | 1 | 1,264 | -1263 |
| WC | 1 | 979 | -978 |
| EC | 0 | 566 | -566 |
| FS | 0 | 317 | -316 |
| MP | 0 | 376 | -376 |
| NW | 0 | 517 | -517 |
| LP | 0 | 349 | -349 |
| NC | 0 | 174 | -174 |
| 2011 | | | |
| GP | 2 | 2,096 | -2094 |
| KZN | 1 | 1,315 | -1314 |
| WC | 1 | 1,019 | -1018 |
| EC | 0 | 589 | -589 |
| FS | 0 | 329 | -329 |
| MP | 0 | 391 | -391 |
| NW | 0 | 538 | -538 |
| LP | 0 | 364 | -363 |
| NC | 0 | 181 | -181 |
| 2012 | | | |
| GP | Not Available | 2,181 | - |
| KZN | Not Available | 1,368 | - |
| WC | Not Available | 1,060 | - |
| EC | Not Available | 613 | - |
| FS | Not Available | 343 | - |
| MP | Not Available | 407 | - |
| NW | Not Available | 560 | - |
| LP | Not Available | 378 | - |
| NC | Not Available | 189 | - |
| 2013 | | | |
| GP | Not Available | 2,269 | - |
| KZN | Not Available | 1,424 | - |
| WC | Not Available | 1,103 | - |
| EC | Not Available | 638 | - |
| FS | Not Available | 357 | - |
| MP | Not Available | 424 | - |
| NW | Not Available | 583 | - |
| LP | Not Available | 393 | - |

| Provinces | Budget Estimate (R million) | Consultant's Calculations(R million) | Difference(Budget-Proposed)-R Million |
|-------------|-----------------------------|--------------------------------------|----------------------------------------|
| NC | Not Available | 196 | - |
| 2014 | | | |
| GP | Not Available | 2,361 | - |
| KZN | Not Available | 1,481 | - |
| WC | Not Available | 1,147 | - |
| EC | Not Available | 663 | - |
| FS | Not Available | 371 | - |
| MP | Not Available | 441 | - |
| NW | Not Available | 606 | - |
| LP | Not Available | 409 | - |
| NC | Not Available | 204 | - |

Source: Budget Estimates, Consultant's Calculations

Externalities Surcharge: Calculation Formula

Externalities Surcharge = Licensing rate X emission factor x No. of Registered Vehicles
Emission factors:

- Flat rate of 1.1 of licensing rate for category

Based on the formula above the calculated licensing fees are presented below:

Table 3: Proposed Externalities Surcharge

| Provinces/Year | Proposed Externalities Surcharges (R million) | | | | |
|----------------|-----------------------------------------------|-----------|-----------|-----------|-----------|
| | 2010 | 2011 | 2012 | 2013 | 2014 |
| GP | 22 | 24 | 25 | 27 | 28 |
| KZN | 10 | 10 | 11 | 12 | 12 |
| WC | 10 | 10 | 11 | 12 | 12 |
| EC | 5 | 6 | 6 | 6 | 7 |
| FS | 4 | 4 | 5 | 5 | 5 |
| MP | 5 | 5 | 5 | 6 | 6 |
| NW | 4 | 5 | 5 | 5 | 5 |
| LP | 4 | 5 | 5 | 5 | 6 |
| NC | 2 | 2 | 2 | 2 | 3 |
| RSA | 67 | 71 | 75 | 80 | 85 |

Source: Consultant's Calculations

2. USAGE COST RECOVERY

User charge that accounts for geographic location, weight-distance travelled and pavement condition

USER CHARGE COLLECTABLE = Kilometres travelled X rate (R 0.50c/km) X weight factor X No. of Registered Vehicles

Weight factor:

| | |
|------------------|-----|
| Private cars: | 0 |
| Motor Cycles: | 0 |
| Minibus taxis: | 0 |
| Busses: | 0.5 |
| LDVs: | 0.5 |
| HDV2s (>20tons): | 1.0 |
| Others: | 0 |

Table 4: Proposed User Charges

| Provinces | Proposed User Charges(R million) | | | | |
|------------|----------------------------------|--------------|--------------|--------------|--------------|
| | 2010 | 2011 | 2012 | 2013 | 2014 |
| GP | 1,756 | 1,864 | 1,978 | 2,099 | 2,227 |
| KZN | 435 | 461 | 489 | 519 | 551 |
| WC | 377 | 400 | 424 | 450 | 478 |
| EC | 108 | 115 | 122 | 130 | 138 |
| FS | 69 | 73 | 77 | 82 | 87 |
| MP | 121 | 128 | 136 | 144 | 153 |
| NW | 73 | 78 | 82 | 87 | 93 |
| LP | 65 | 69 | 73 | 78 | 83 |
| NC | 14 | 15 | 16 | 17 | 18 |
| RSA | 3,018 | 3,203 | 3,399 | 3,607 | 3,827 |

Source: Consultant's Calculations

Table 5: Comparison of General Fuel Levy vis-à-vis Consultant's Proposed Calculations

| Category | 2010 | 2011 | 2012 | 2013 | 2014 |
|-----------------------------------|-------------|---------------|---------------|---------------|---------------|
| General Fuel Levy (R million) | 25.2 | Not Available | Not Available | Not Available | Not Available |
| Proposed User Charges (R million) | 3,018 | 3,203 | 3,399 | 3,607 | 3,827 |

Source: 2009 Estimate of National Revenue, Consultant's Calculations