The Constitution of South Africa identifies the legislative responsibilities of different spheres of government regarding airports, road infrastructure, rail, maritime, road traffic management and public transport. Transport is a function that is legislated and executed at national, provincial and local government level.

The implementation of transport functions at the national level takes place through public entities that are overseen by the Department of Transport (DoT), each with a specific delivery mandate, as specified in legislation establishing these entities.

The 1996 White Paper on Transport focuses on and defines the infrastructure and operations of rail, pipelines, roads, airports, harbours, and the intermodal operations of public transport and freight.

The DoT is responsible for implementing the legislation and policies for the subsectors mentioned above by doing the following:

- conducting sector research
- formulating legislation and policy to set the strategic direction of subsectors
- assigning responsibilities to public entities and other spheres of government
- regulating through setting norms and standards
- monitoring implementation.

Over the medium term, the DoT aims to focus on improving mobility and access to social and economic activities by maintaining the provincial and national road networks, upgrading and maintaining rail infrastructure, and improving public transport for rail and road commuters.

These activities will contribute to the realisation of Outcome 6 of government’s 2014 – 2019 Medium Term Strategic Framework (MTEF) of maintaining an efficient, competitive and responsive economic infrastructure network.

Legislation

For the cross-modal functions of public transport and freight, the principle guiding documents are the National Land Transport Act, 2009 (Act 5 of 2009), the public transport strategy and the national freight logistics strategy.

The DoT is further guided by the following legislation and policies:

- The Transport Laws and Related Matters Amendment Act, 2013 (Act 3 of 2013) aims, among other things, to amend the Cross-Border Road Transport Agency (C-BRTA) to collect toll on behalf of the South African National Roads Agency (SANRAL).
- The National Land Transport Act of 2009 clarifies the concurrent roles and responsibilities of the different spheres of government in relation to public transport. It also consolidates public transport planning, service delivery, regulation and monitoring in the municipal sphere, establishes the national and provincial public transport regulators, and enhances overall transport regulatory functions.
• The incorporation of the Shosholoza Meyl train service and the Autopax long-distance bus services into the Passenger Rail Agency of South Africa (PRASA) was finalised in the Legal Succession to the South African Transport Services Amendment Act, 2008 (Act 38 of 2008).
• The National Road Traffic Amendment Act, 2008 (Act 64 of 2008) and the Taxi and_C-BRTA_56 of 2008 (Act 12 of 2008) allow for better road-traffic enforcement and improved cross-border regulation.
• The pilot project for the implementation of the Administrative Adjudication of Road Traffic Offences (AARTO) Act, 1998 (Act 46 of 1998), a demerit point system for traffic offences, has been rolled out in the municipal areas of Tshwane and Johannesburg. The system is expected to be extended to all municipal areas following the establishment of the Road Traffic Infringement Agency (RTIA), which will administer the system.
• The Civil Aviation Act, 2009 (Act 13 of 2009), was promulgated to harmonise and rationalise safety and security legislation for aviation to ensure compliance with International Civil Aviation Organisation (ICAO) standards.
• The Air Service Licensing Amendment Act, 2008 (Act 21 of 2008), addresses corporate governance issues relating to the Air Services Licensing Council. The department plans to implement a sustainability strategy and improve aviation safety and compliance with the standards set by the United States of America (USA) Federal Aviation Administration’s international aviation safety assessment, and by the ICAO, an organ of the United Nations (UN).
• The Road Accident Fund (RAF) Amendment Act, 2005 (Act 19 of 2005), came into effect in August 2008 with the publication of regulations guiding, primarily, the assessment of injuries. The Act creates an equitable, affordable and sustainable system for victims of road accidents and their families. In November 2009, Cabinet approved the policy to provide benefits to road-accident victims as a form of social security and to move away from the current fault-based systems.
• The RAF (Transitional Provisions) Act, 2012, (Act 15 of 2012) provides for transitional measures regarding certain categories of third parties whose claims were limited to R25 000 under the RAF Act, 1996 (Act 56 of 1996) prior to 1 August 2008.

Budget

The DoT’s budget is expected to increase at an average annual rate of 6.8% over the MTEF, from R56.3 billion in 2016/17 to R68.6 billion in 2019/20. However, spending on goods and services is expected to decrease at an average annual rate of 1%, from R751.8 million in 2016/17 to R723.1 million in 2019/20, due to reorientations to other transport spending priorities.

These include: R15.9 million to support the operations of the Maritime and Aeronautical Rescue Coordination Centre; R19 million to strengthen the regulatory capacity of the Ports Regulator of South Africa; and R6 million to develop rail economic regulation capacity in the department in preparation for the establishment of the Single Transport Economic Regulator.

As part of Cabinet’s decision to lower the national aggregate expenditure ceiling, the budget for goods and services has been reduced by R49.6 million over the MTEF period.

Role players

The DoT has established 12 public entities to deliver on certain elements of government’s operational activities, namely the Airports Company South Africa (ACSA), Air Traffic and Navigation Services (ATNS), the C-BRTA, PRASA, the Ports Regulator, the Railway Safety Regulator (RSR), the RAF, the RTIA, the Road Traffic Management Corporation (RTMC), the South African Civil Aviation Authority (SACAA), the South African Maritime Safety Authority (SAMSA) and SANRAL. These entities report to the Minister of Transport. Commercial role players include Transnet, South African Airways (SAA) and SA Express (SAX).

Airports Company South Africa

ACSA’s regulated income in terms of the Airports Company Act, 1993 (Act 44 of 1993) and the Companies Act, 1973 (Act 61 of 1973), and is listed in terms of the Public Finance Management Act, 1999 (Act 1 of 1999).

The company was formed to own and operate the nine principal commercial airports, including the African national gateways: OR Tambo International Airport in Johannesburg, Cape Town International Airport and King Shaka International Airport in Durban.

The company is one of the concessionaires operating Mumbai International Airport in India and Guarulhos International Airport in Sao Paulo, Brazil.

Over the medium term, ACSA will continue providing safe and secure services as well as infrastructure for passengers and airlines to transport people and goods. This will be achieved through the effective use of existing airport infrastructure and investments in airport infrastructure.

Airports operated by the company are expected to accommodate 312 902 arriving aircraft and 20.9 million departing passengers a year by 2019/20, from 272 439 arriving aircraft and 19.2 million departing passengers in 2016/17. To support this growth, ACSA will continue to focus on airport maintenance and engineering, as well as air safety and security.

Airport maintenance and engineering costs are expected to increase over the medium term, at an average annual rate of 6.7%, from R870 million in 2016/17 to R1,1 billion in 2019/20. Airport safety and security costs per international airport are also expected to increase from R505.7 million in 2016/17 to R661.1 million in 2019/20, at an average annual rate of 9.3%.

After administration costs, expenditure on airport maintenance and engineering in all airports accounts for the bulk of the company’s total expenditure over the medium term, at 14.7% or R3 billion.

Spending on goods and services is expected to increase by 1.6% over the medium term, from R2.6 billion in 2016/17 to R2.7 billion in 2019/20. This is mainly because of the implementation of a new operational structure in 2017/18, which is expected to improve efficiency, and cost-containment initiatives planned over the medium term. However, aligning the remuneration policy with the new structure is expected to increase spending on compensation of employees at an average annual rate of 8%, from R1.1 billion in 2016/17 to R1.4 billion in 2019/20, with the staff complement remaining at 31 120 over the period.

The company’s aeronautical revenue is earned from passenger facilitation and airline services for which charges and tariffs such as aircraft landing and parking fees are collected. Non-aeronautical revenue is derived from property rental, advertising and car parking. Total revenue is expected to increase at an average annual rate of 5.3%, from R6.7 billion in 2016/17 to R7.9 billion in 2019/20, largely driven by the growth in the number of departing passengers and arrival aircraft. This offsets the effect of the downward adjustment of airport tariffs in 2017/18, which were determined by the regulating committee.

Air Traffic and Navigation Services

The ATNS was established in terms of the ATNS Act, 1993 (Act 45 of 1993). Its mandate is to provide safe, orderly and efficient air traffic navigational and associated services to the air traffic management community. It does this on behalf of the State and in accordance with the ICAO standards and recommended practices, as well as in terms of South African civil aviation regulations and technical standards.

The company’s strategic goals are to:
• provide safe, efficient and cost-effective air traffic management solutions and associated services
• expand the company footprint to cover Africa and the Indian Ocean region.

ATNS has also adopted the promotion of mathematics and physical science as its flagship project, aimed at increasing the pool of potential candidates who can be attracted and trained as air traffic controllers. Since its inception in 1993, the company has renewed the majority of the national communication, navigation, surveillance and air traffic management infrastructure.

ATNS trains air traffic controllers from South Africa, Africa and the Africa-Indian Ocean region.

South Africa is one of the 36 council members of the ICAO Council, serving under Part 2 and is committed to regional aviation safety, security and environment issues.

Cross-Border Road Transport Agency

The C-BRTA was established in terms of the Cross-Border Road Transport Act of 1998. The agency’s legislative mandate requires it to:
• advise the Minister of Transport on cross-border road transport policy
• regulate access to the market by the road transport freight and passenger industry in respect of cross-border road transport by issuing permits
• undertake road traffic law enforcement
• play a facilitative role in contributing to economic prosperity of the region.
The anticipated growth in passenger numbers is expected to increase fare revenue from R2.8 billion in 2016/17 to R4.3 billion in 2019/20, at an average annual rate of 15.7%. The agency also derives revenue from transfers from the DoT and rental income from property. Total revenue is expected to increase at an average annual rate of 7.8%, from R10.9 billion in 2016/17 to R13.7 billion in 2019/20.

PRASA is in the process of modernising its rail services. This includes buying new rolling stock for the Metrorail commuter service and locomotives for the agency’s long-distance mainline passenger service, as well as upgrading stations and infrastructure.

The agency was expected over the medium term to deliver 70 new train sets for Metrorail and 25 new locomotives for Shosholoza Meyl, complete 141 train station improvement projects, and refurbish 1 230 coaches for Metrorail and Shosholoza Meyl. By mid-2017, a total of 18 new trains, affectionately known as “The People’s Train”, had been delivered.

The new trains are part of the first roll-out which will be implemented over the next 20 years. The remaining 580 trains will be built in South Africa by Gibela at a local factory in Dunnottar Park, Ekurhuleni. Although Cabinet approved a reduction of R1 billion on transfers to the agency over the medium term, R3 billion will be reprioritised over the operations of the long-distance mainline passenger service, and R2.7 billion will be reprioritised for the renewal of rolling stock in 2019/20.

On Metrorail, PRASA is expected to subsidise more than 484 million passenger trips per year in the period ahead, and spending on the mainline passenger service is expected to subsidise 2.3 million passengers over the medium term.

National Ports Regulator (NPR)

The NPR was established in terms of the National Ports Act, 2005 (Act 12 of 2005). Its primary function is the economic regulation of the ports system, in line with government’s strategic objectives to promote equity of access to ports and to monitor the activities of the South African Transport and Security Regulator (TNSP).

In accordance with this mandate, the NPR performs certain functions and activities including:

- regulation of pricing and other aspects of economic regulation
- promotion of equity of access to ports facilities and services
- monitoring the industry’s compliance with the regulatory framework
- hearing any complaints and appeals lodged with it.

In addition, the NPR is a key component of the ports regulatory architecture envisaged in the National Commercial Ports Policy. The TNPA is the largest port authority in Africa. It owns and manages ports at Richards Bay, Durban, East London, Port Elizabeth, Mossel Bay, Cape Town, Saldanha and Ngqura. The TNPA provides suitable infrastructure as a conduit for the country’s imports and exports. Besides being the port landlord, it also has a control function, which includes:

- providing vessel-traffic control and navigational aids
- licensing and leasing terminals to operators
- monitoring the performance of port operators
- ensuring the orderly, efficient and reliable transfer of cargo and passengers between sea and land.

Based on the White Paper on the National Commercial Ports Policy (2002), the vision for South African ports is to become a system of ports, seamlessly integrated in the logistics network, that is jointly and individually self-sustainable.

The NPR performs functions that relate mainly to the regulation of pricing and other aspects of economic regulation, the promotion of equal access to ports facilities and services, the monitoring of the industry’s compliance with the regulatory framework, and the hearing of any complaints and appeals lodged with it. The regulator’s estimated expenditure for 2017/18 will be R22.8 million.

Railway Safety Regulator

The RSR is the custodian of railway safety in South Africa. Its functions include:

- issuing and managing safety permits
- conducting inspections and audits
- investigating railway accidents
- developing regulations, safety standards and related documents which form the basis of the regulatory regime
- issuing notices of non-compliance and non-compliance
- imposing penalties for non-compliance with the Act and safety standards adopted by the board of directors of the RSR.

The RSR is central to the safety of both passengers and the environment in the railway industry, and to that end has taken a bold stand to adopt the vision “Aspiring to Achieve Zero Occurrences”.

During 2016/17, a total number of 4 066 operational occurrences in comparison with 4 250 operational occurrences in the previous reporting period indicates a 5% decrease. This figure is the lowest number of operational occurrences for the period since 2010/11.

In stark comparison, 6 379 security-related incidents were recorded, representing an increase of 13% compared to 2015/16. Tragically, the occurrences resulted in 495 fatalities and 2 079 people injured. This represents a 5% drop in the number of operational occurrences, with an 8% increase in fatalities, and 10% decrease in the number of injuries.

The provincial distribution of operational occurrences is, therefore, as per the previous year, with Gauteng (29%), KwaZulu-Natal (27%) and Western Cape (19%). Transnet (Transnet Freight Rail (TFR) in particular) and PRASA Rail once again accounted for 97% of all operational occurrences reported to the RSR.

The contributions of these two operators remained the same as the previous reporting period; Transnet contributed 52% and Prasa Rail to 45% of all operational occurrences.
Road Safety and Road Accident Fund
The mandate of the RAF is derived from the RAF Act of 1996 as the payment of compensation for loss or damage wrongfully caused by the driving of motor vehicles in South Africa. The socio-economic mandate of the fund is to reintegrate victims of road accidents into society from a health and economic perspective, and to protect wrongdoers and their families from financial ruin.

The fund delivers on this mandate by:

- paying the medical and related costs required to restore road accident victims to health
- compensating the victim/s or their dependants for income or support lost as a result of the accident
- indemnifying the wrongdoer from liability
- paying general damages in instances where a person suffers a serious injury in a road traffic accident
- paying funeral expenses to families when a person dies as a result of a road traffic accident

The fund’s strategic goals over the medium term are to:

- develop a legislative dispensation that is aligned with the principles of social security
- ensure that the organisation is solvent, liquid and sustainable by 2020
- ensure that the organisation is customer-centric, operationally effective and efficient by 2017.

The key objectives of the RAF Road Safety Strategy are to reduce the high rate of road accidents by becoming proactively involved in activities aimed at addressing road-safety behaviour and promoting road-safety principles and effective law enforcement.

The RAF’s Road Safety Strategy also creates a platform to support the RAF core business, since post-crash care is one of the pillars prescribed by the Global Road Safety Commission. It aims to:

- increase awareness of the RAF’s business and service offering by conducting ongoing campaigns
- create a platform for all transport industry stakeholders to assist the victims of road accidents and their family members
- enhance the overall business strategy by identifying key stakeholders, establishing partnerships and developing effective stakeholder engagement channels to reach target audiences in a proactive manner.

The RABS Bill, which provides for the establishment of a new administrator, the RABS Administrator, to replace the current RAF, was published for public comment in 2016. Consultations sessions were held throughout the country with various stakeholders. The Bill proposes a comprehensive social security safety net scheme that is not fault-based.

It will allow expanded access to much-needed benefits to road users. These include the public and private transport passengers, widows, orphans and many other dependants who were previously and currently are excluded by virtue of fault.

Road Traffic Infringement Agency
The RTIA promotes road traffic quality by providing for a scheme to discourage road traffic infringements to support the prosecution of offences in terms of national and provincial laws relating to road traffic, and implements a points demerit system. The agency’s estimated expenditure for 2017/18 will be R387,9 million.

The RTIA’s objectives include:

- administering the procedures to discourage the contravention of road traffic laws and to execute the adjudication of infringements
- enforcing penalties imposed against people contravening road traffic laws
- providing specialised prosecution support services
- undertaking community education and community awareness programmes to ensure that individuals understand their rights and obligations.

The pursuit of this mandate entails the management and rollout of the Aarto Act of 1998, which includes the implementation of the driver points demerit system and rehabilitation programmes.

Road Traffic Management Corporation
The RTMC pools national and provincial government resources for the provision of road traffic management. This includes cooperative and coordinated road traffic strategic planning, regulation, facilitation and law enforcement. The RTMC’s estimated expenditure for 2017/18 will be R736,7 million.

South African Civil Aviation Authority
The SACAA is mandated with controlling, promoting, regulating, supporting, developing, enforcing and continuously improving levels of safety and security throughout the civil aviation industry. The SACAA presented the revised Cross-Functional Accident Reduction Plan still captured by the SACAA to inform future strategies although not yet comprehensive, industry activity is being in-depth statistics gathered, however a number of accident investigations remain open to complete the analysis.

The new Cross-Functional Accident Reduction Plan features the following:

- in-depth statistics gathered, however a number of accident investigations remain open to complete the analysis
- although not yet comprehensive, industry activity is being captured by the SACAA to inform future strategies
- expanded scope of stakeholder consultation prior to the finalisation of the strategy
- more in-depth experience in dealing with accidents.

The revised Cross-Functional Accident Reduction Plan still seeks to improve pilot competency development within the training environment with the authority intensifying its oversight role over pilot training schools.

South African Maritime Safety Authority
SAMSA and the DoT are working on mobilising the maritime sector, organising its industries and drawing the attention towards what the sector can contribute to the achievement of government’s social and economic goals.

SAMSA has successfully pulled together elements of the sector and created a cohesive sense of the boundaries and drivers of the country’s performance, with regional and international positioning options.

The maritime economic sector is of central and strategic importance to the National Growth Path (NGP), the BRICS bloc and South Africa’s influential role within the African Union (AU), India-Brazil-South Africa bloc and the Southern African Development Community (SADC).

The widening trade balance is to no small measure because of a lack of focus on shipping logistics and maritime transport. South Africa is the only country in all these partnerships that has no focused shipping and maritime transport sector policy and strategy, and owns no ships.

By August 2015, three cargo vessels were sailing the country’s flag, while the applications for an additional 12 ships were under consideration.

The increase in South Africa’s registered commercial cargo vessels is a strategic move to expand both training opportunities for the country cadets as well as business trade opportunities.

Through SAMSA, the DoT continued investing in intelligent surveillance breakthrough technologies in ship-tracking and maritime traffic management.

In the two years since the launch of Operation Phakisa, the country increased its focus on the opportunities provided by its more than 3 000 km of coastline.

SAMSA struck a partnership with the Nelson Mandela Metropolitan University and the Department of Higher Education in a National Cadetship Programme. This has resulted in 124 cadets being placed on 18 partner vessels.

South African National Roads Agency Limited
South Africa has 750 000 km of roads – the 10th longest road network in the world and by far the longest in Africa. Out of this, 183 283 km (85%) are non-toll roads and 3 120 km (15%) are toll roads.

At the core of this is the spine – a national network of almost 22 000 km, which is managed by SANRAL. It stretches from Beit Bridge in the north to the southern-most part of the continent and from Oranjemund to the KwaZulu-Natal coast.

SANRAL’s main strategic goal is to provide effective strategic road infrastructure to facilitate development, commerce, mobility and access.

Its functions include:

- being responsible for proclaimed national roads
- funding, maintaining, upgrading, operating and rehabilitating the national roads
- levying tolls to service toll roads
- managing concessions
- advising the Minister of Transport on road-related matters
- creating public value.

SANRAL was expected to receive an additional R1,7 billion over the medium term. The agency would also receive an additional R7,7 billion for upgrading the R573 Moloto Road.

During 2016/17, SANRAL created the equivalent of 15 721 full-time jobs, 9 269 of which were taken up by youth and 3 278 by women.

Transnet Limited
Transnet is a focused freight-transport and logistics company wholly owned by the South African Government.
**South African Airways**

SAA is the leading carrier in Africa, serving 26 destinations across the continent, as well as major destinations within South Africa and internationally from its Johannesburg hub at OR Tambo International Airport and is a member of the largest international airline network, Star Alliance.

SAA’s core business is the provision of passenger airline and cargo transport services together with related services, which are provided through SAA and its four wholly owned subsidiaries:

- SAA Technical
- Mango, its low-cost carrier
- Air Chefs, the catering entity of SAA
- South African Travel Centre.

SAA’s long-term Turnaround Strategy is a three-phase implementation approach with continuous and cyclical monitoring and review over a 20-year period.

One of the key elements of the strategy was increased focus and emphasis on governance and accountability. SAA believes these will go a long way in restoring the airline’s reputation in the global markets and among its stakeholders.

This makes SAA one of the world’s leading carriers in the areas of environmental responsibility and sustainability.

In January 2015, the SAA became the first airline globally to install the Satellite Authorisation System (SatAuth) that provides secure credit-card transactions anywhere in the skies.

SAA installed the device on one of its Airbus A340-300 aircraft at the SAAT maintenance facility in Kempton Park, Johannesburg.

The system also provides pinpoint accurate aircraft tracking services for operational purposes. It will allow for secure credit card transactions at any point and real-time positioning of any flight, anywhere, impacting fuel-saving interventions in-flight as well as providing full visibility of actual flight paths versus planned routing at any time. SatAuth, the first product of its kind, was developed in South Africa.

SAA is planning to install SatAuth across its entire long-haul fleet over time.

**SA Express**

SAX is a domestic and regional passenger and cargo carrier established on 24 April 1994. Although the airline is operationally independent of SAA, its flights are incorporated within the strategic alliance with Airlink and SAA.

SAX became the first airline in the country to adopt a new method of taxing after landing that burns less fuel and cuts fuel emissions.

This simple but unusual method of using only one engine to taxi off the runway to the terminal after landing, cuts the amount of fuel burned by an average of 20ℓ on every landing.

A flight from Johannesburg to Bloemfontein typically uses 1 000ℓ of fuel, so saving 20ℓ is a reduction of 2%, helping the airline to become more cost-efficient.

**Programmes and projects**

**Road Transport Management System (RTMS)**

The RTMS is an industry-led voluntary self-regulation scheme that encourages consignees, consignors and road transporters to implement a management system that preserves road infrastructure, improves road safety and increases productivity of the logistics value chain. This scheme also supports the DoT’s National Freight Logistics Strategy.

The system’s key components are load optimisation, driver wellness, vehicle maintenance and productivity. It is designed to show transport companies how to take greater corporate responsibility for road safety.

A national RTMS steering committee is responsible for the promotion and administration of the RTMS in South Africa. It comprises individuals representing major industries and aligned stakeholders within the country.

Road safety and road infrastructure are public concerns subject to strict regulation by government. Overregulation, road deterioration and high accident rates pose a significant threat to the long-term sustainability and global competitiveness of the road logistics value chain.

This prompted users of road haulage (consignors and consignees) and providers of road haulage (hauliers) to jointly develop strategies aimed at protecting the road network, improving road safety and transport productivity for the benefit of the country’s citizens and the industry itself.

The RTMS is a self-regulating scheme with standard rules that aim to become the business norm, supporting the principles of good corporate governance and ensuring that no one gains an unfair advantage by poor compliance to transport regulations.

Furthermore, industry recognises its critical role in the economy’s growth. Efficient movement of goods between a country’s centres of production and its shipping ports boosts competitiveness in international markets.

**National Transport Master Plan**

The long-term vision of NATMAP 2050 is to sustain South Africa’s projected growth and focus on integrated transport planning to ensure that the different modes of transport complement each other.

Government policies, plans and programmes, including the National Development Plan and the National Growth Plan, enjoin the nation to create a social contract to help propel South Africa to a higher developmental trajectory, as well as build a more cohesive and equitable society.

The transport sector is critical to realising the implementation of the 2030 vision of advanced economic development, job creation, growth and provision of equitable access to opportunities and services for all, while fostering an inclusive society and economy.

**Public Transport Strategy**

South Africa is on its way to becoming the first country in Africa to have rapid public transport networks. Such networks will not only change the face of the country, but also boost economic development, job creation and tourism.

South Africa’s Public Transport Strategy, which comprises a multibillion rand transport plan, is set to entirely reshape travel in South Africa. At the core of the plan is a high-quality integrated mass rapid public transport network that includes rail, taxi and bus services. The strategy aims to accelerate the improvement in public transport by establishing integrated rapid public transport networks (RPTNs), which will introduce priority rail corridors and Bus Rapid Transport (BRT) systems in cities.

The Public Transport Strategy is expected to improve public transport services for more than half the country’s population.

The long-term goal of the strategy is to have 85% of a metropolitan city’s population within 1 km of the network, and provide a transport service that is clean, comfortable, reliable, fast, secure, safe and affordable.

As part of government’s commitment towards rural development, the S’amba Sonke Programme addresses road maintenance on secondary roads and rural roads, with particular emphasis on repairing potholes, using labour-intensive methods of construction and maintenance.
Electronic National Traffic Information System (eNaTIS)
eNaTIS provides for the registration and licensing of vehicles. It manages and records applications for and authorisation of driving and learner’s licences. It is also a law-enforcement tool used to ensure that the details of stolen vehicles are circulated and prevents irregular and fraudulent re-registration of such vehicles. The system delineates the lifecycle of a vehicle, from the factory floor to the scrap yard. It is compulsory for all new motor vehicles and motor vehicles requiring a police clearance to be microdotted. The registration of a motor vehicle introduced onto the eNaTIS by the manufacturer, importer or builder is only allowed if the microdot information was loaded onto the system.

The DoT and the South African Police Service (SAPS) would enforce the requirements through eNaTIS.

In November 2016, the Constitutional Court ordered control of the eNatis Traffic Management System be handed over to the RTMC.

Shomba Sonke Road Maintenance Project

The Shomba Sonke (meaning “Walking Together”) programme was launched by the DoT in 2011 to address the backlog in road repairs.

The programme, through the Provincial Roads Maintenance Grant, consists of three budget components. The largest enables provinces to expand their maintenance activities. The other components allow provinces to repair roads damaged by floods and cover the cost of rehabilitation work created by coal haulage activities in Mpumalanga and Gauteng.

Through this programme, government continues to address the spatial inequalities, create job opportunities, improve rural transport and its infrastructure, and also open the rural economy to new investment and development while also providing the much needed maintenance to the road infrastructure.

This programme has created 137 887 jobs, of which 28 933 are for youth, 54 918 taken by women and 180 are done by people living with disabilities.

Scholar transport

In recognition of the challenges confronting learners who attend school far away from their homes, Cabinet approved the Learner Transport Policy in May 2015.

Its aim is to:

- improve access to quality education by providing safe, decent, effective and integrated sustainable learner transport
- improve access to quality education through a coordinated and aligned transport system
- improve planning and implementation of an integrated learner transport service
- manage and oversee the implementation of an integrated learner transport service
- ensure an effective management of learner transport system
- provide for a safe and secure transport environment for learners through cooperation and collaboration with law enforcement authorities.

Non-motorised transport (NMT)

The promotion of NMT is mainly aimed at increasing transport mobility and accessibility, mainly in rural areas. The DoT has broadened its Shova Kalula Project into a more comprehensive NMT undertaking that incorporates, among other things, cycling and animal-drawn carts.

The Shova Kalula (“Pedal Easy”) National Bicycle Programme aims to improve mobility and access to basic needs as well as social and economic opportunities for people especially in rural, remote and poorly resourced areas, including learners. Since the introduction of Shova Kalula, the DoT, in partnership with provinces, municipalities and private sector, has distributed more than 177 310 bicycles to destitute learners who travel long distances to their respective schools.

The project forms part of government’s action programme and is expected to contribute to its antipoverty strategy and second-economy interventions. It is believed that these initiatives improve rural communities’ mobility and access to economic opportunities.

The DoT’s aim is to distribute one million bicycles a year across South Africa.

The Shova Kalula Project also incorporates microbusinesses that sell, repair and maintain bicycles to ensure the project’s sustainability.

In February 2016, the Department of Environmental Affairs and the KFW German Development Bank launched Phase 2 of the Non-Motorised Transport Programme as part of South Africa’s National Climate Change Response Policy, which sets the country’s vision for an effective climate change response and the long-term transition to a climate-resilient and low-carbon economy and society.

Phase 1 of the programme was initiated in 2011 and focused on developing bicycle routes, parking facilities and rental stations with a view to promote non-motorised transport. The intended outcome was to reduce carbon emissions, improve air quality and advocate behavioural change towards a cleaner healthier lifestyle.

Given the success of Phase 1, the Department of Environmental Affairs secured a grant of US$5 million to finance a five-year NMT Phase 2 from the KFW Development Bank within the framework of the German-South African bi-national Financial Cooperation.

Phase 2 will comprise the extension of the existing bicycle networks to contribute towards efficient intermodal transportation networks within the cities. It will further include associated services such as the promotion of small, medium and micro-enterprise development through the establishment of bicycle encouragement centres.

Taxi Recapitalisation Programme (TRP)

The TRP was approved for implementation by Cabinet in 2004, for a period of seven years, at a total cost of R7.7 billion. Of the total amount, R5.5 billion was set aside for the scrapping of Old Taxi Vehicles (OTV) while R2.2 billion was to be used, among others, for systems development and implementation, which was part of a law-enforcement strategy and the development of a regulatory environment for the taxi industry.

Through the TRP, government has ensured the following changes:

- introduction of safety requirements for passengers
- comfort for passengers by insisting on the size and number of seats
- promotion of accessibility on the size and number of seats
- branding and colour-coding of taxi vehicles so that legal taxis can be identified and differentiated from illegal ones, and so that members of the public can easily identify a taxi vehicle.

Resources

Rods

National roads

Government is responsible for overall policy, while SANRAL is responsible for road-building and maintenance.

The DoT continues to improve the road network by ensuring that it is well maintained and safe.

A new national roads plan was developed, acknowledging the importance of roads to the economy.

Provincial roads

Provincial governments are responsible for planning, constructing and maintaining roads and bridges, except those falling under SANRAL or local governments. The DoT helps provincial and local governments to improve and develop the state of their roads.

In 2016, the provincial roads maintenance grant allocated R32.5 billion to rehabilitate road infrastructure.

Municipal roads

The construction and maintenance of most roads and streets within the municipal boundaries of cities and towns is the responsibility of the municipality concerned.

Toll roads

The toll-road network comprises about 19% (3 120 km) of the national road grid. SANRAL manages some 1 832 km of these toll roads.

In its endeavour to continue the expansion and maintenance of the comprehensive national road network, SANRAL will continue the selective expansion of toll roads.

About 1 288 km of the tolled sections of national roads have been concessioned to private companies to develop, operate and maintain.

In March 2016, the upgraded N12 freeway was reopened. The freeway was upgraded at a cost of R485 million. It entailed the rehabilitation and upgrading of the N12 from Eldorado Park to the North West border, with the entire section of the road developed into a dual carriageway.

The 20-month project involved the resurfacing of the freeway, clearing of drainage structures, replacing missing steel grids, reinstatement of road markings, erecting new road signs and replacing guard rails.

The N12 freeway serves as a critical freight link between Gauteng and the North West Province, including the Western Cape. It also services the mining, agriculture and tourism sectors.
The project had a strong economic empowerment component, with over 350 workers, particularly women and youth, as well as more than 20 local subcontractors from communities along the route.

In mid-2016, the N2 Wild Coast Toll Road Project announced a revised route, spanning 410 km from East London to the Mthamvuna River Bridge.

The greenfields portion of the road will be a 112-km stretch between Ndwalane outside Port St Johns and the Mthamvuna River between Mzamba and Port Edward. It will include two mega-bridges over the Mtemtu and Msikaba River gorges. The cost of building these bridges is estimated to be about R3.5 billion and construction was scheduled to begin in 2017.

Also included in the project are seven other major bridges, three interchange bridges and new roads. Construction on the greenfields portion of the road should start in the second half of 2018.

By mid-2016, the R396-million, 80-km upgrade of the N1 highway between Pretoria and Bela-Bela was 80% complete.

The project was scheduled for completion by the end of 2017, with R123 million to be spent in the final phase. The upgrade would increase the design life of the road by ten years.

Bakwena is also fully rebuilding 167 km of single carriageway on the N4 between Rustenburg and the Lobatse border post between Botswana and South Africa. The project has a budget of R1.22 billion. Work is scheduled to be completed by mid-2018.

Other upgrades on the 395 km of network under Bakwena’s control include adding 70 km of dual carriageway on the N4 between Pretoria and Rustenburg in a R1.5-billion project. Bakwena has already added 35 km of dual carriageway on the N4, with the upgrade to be completed by 2020/21.

Bakwena is also spending R230 million on selected plaza and interchange upgrades.

**Rail**

**Gautrain**

The Gautrain is an 80 km-long mass rapid transit railway system that links Johannesburg, Pretoria and OR Tambo International Airport.

It was built to relieve traffic congestion in the Johannesburg-Pretoria traffic corridor and offer commuters a viable alternative to road transport, as Johannesburg had limited public transport infrastructure.

The Gauteng 25-Year Integrated Transport Master Plan will ensure integration of transport with spatial patterns as well as the integration between various transport modes to transport people effectively.

The Gautrain ferries more than 60 000 people a day (including weekends) or 1.2 million people a year. It celebrated its 6th anniversary in June 2016, reaching a milestone of close to 80 million passenger trips.

Some 19 new Gautrain stations were in the pipeline by May 2017. The Gautrain Management Agency is planning to extend the rail route by 150 km over the following 20 years, including routes through Randburg, Fourways, and Soweto.

This expansion is expected to create 211 000 jobs. A feasibility study released in March 2017, which included demand modelling to determine transport needs for Gauteng in 2025 and 2037, showed that the “cost of doing nothing” in the province will lead to major road congestion in 2037, at which stage cars will travel at an average of 15 km/h due to doubling of car growth.

The feasibility study identified the following main links and stations of the Gautrain rail network extensions:

- On the link between Jabulani via Cosmo City and Samrand to Mamelodi, stations include Roodepoort, Little Falls, Fourways, Sunninghill, Olivenhoutsbosch, Irene, Tshwane East and Hazeldean.
- On the link between Sandton and Cosmo City has a station at Randburg.
- On the link between Rhodesfield and Boksburg there will be a station at East Rand Mall and possible link-up with the OR Tambo International Airport Midfield terminal development.
- A future link from Cosmo City to Lanseria Airport.

**Moloto Rail Development Corridor**

The Moloto Rail Project’s main objective is to ensure that passenger rail as the backbone of an integrated multi-modal transport system using proven state of the art rolling stock and equipment rail project would serve as a catalyst for economic development initiatives within and around the Corridor resolving challenges of safety, efficiency, reliability, affordability and overall integration with other public transport services.

The Moloto Development Corridor has its main objective to increase speed for buses from 70 km/h to 120 km/h and from 160 km/h to 200 km/h for standard gauge trains, thereby reduce travel time for commuters. This part of government’s policy to develop an intermodal transportation solution and involves the following aspects:

- 13 new train stations
- Koedoespoort Rapid Rail alignment (117 km of dual track) modal integration points
- surface 240 km of fedral routes
- Tshwane Bus Rapid Transit
- new dual 67-km carriageway from Siyabuswa to Moloto
- Mamelodi East and Greenview Plenaarspoort alignment.

**Civil aviation**

South Africa’s nine major airports are:

- OR Tambo International in Gauteng
- Cape Town International in the Western Cape
- King Shaka International in Kwazulu-Natal
- Bloemfontein International in the Free State
- Port Elizabeth International in the Eastern Cape
- Uptoning International in the Northern Cape
- East London Airport in the Eastern Cape
- George Airport in the Western Cape
- Kimberley Airport in the Northern Cape.

Through the launch of the Pilot Cadet Training and Development Programme for those who had been previously disadvantaged, the three state-owned airlines – SAA, SAX and Mango – will strengthen their role as engines of economic growth in the developmental state, and as leaders in the transformation of the aviation sector.

**Airlift Strategy**

The Airlift Strategy introduced structured regulatory measures for increasing tourism growth for South Africa. In particular, this strategy is based on aviation policy directives and contributes to the county’s growth by:

- aligning with Tourism Growth Strategy and industry
- prioritising tourism and trade markets
- unablocking obstacles to growth through regulatory mechanisms, and bilateral and multilateral air-services negotiations.

The overall objective of the Airlift Strategy is to increase aviation’s contribution towards sustainable economic growth and job creation. This requires the creation and maintenance of an enabling framework, within which both suppliers and consumers of air-tranport services may exercise reasonable flexibility and choice.

The strategy enhances the prospects of South Africa as a preferred air-travel destination and synchronises the basis for bilateral air-services negotiations with other priorities.

The strategy also provides specific guidelines for various unique markets, with emphasis on the needs of intra-African air services, and aims to improve the regulation of particularly the supply side of air-tranport services.

The department also developed the Airlift Implementation Plan, which provides a clear framework and capacity targets to be met.

**Airlines**

Several domestic airlines, as well as a number of smaller charter airline companies, operate in South Africa. South African Airways, British Airways (BA)/Comair, SAX, SA Airlink and Inter-Air operate scheduled air services within South Africa and the Indian Ocean islands.

In addition to serving Africa, SAA also operates services to Europe, Latin America and the Far East. Other airlines operating in the country are Kulula and Mango. Scheduled international air services are also provided by Air Afrique, Air Austral, Air Botswana, Air France, Air Gabon, Air Madagascar, Air Malawi, Air Mauritius, Air Namibia, Air Portugal, Air Seychelles, Air Tanzania, Air Zimbabwe, Airlink Swaziland, Alliance Express, BA, Cameroon Airlines, Delta Airlines, El Al, Egyptair, Emirates, Ethiopian Airlines, Ghana Airways, Iberia, KLM, Kenya Airways, LAM Mozambique Airlines, LTU International Airways, Lufthansa, MK Airlines, Malaysia Airlines, Martinair Holland, Northwest Airlines, Olympic Airways, Qantas, Royal Air Maroc, Saudi Arabian Airlines, Singapore Airlines, Swissair, Taag, Thai International, Turkish Airlines, Uganda Airlines, United Airlines, Varig, Virgin Atlantic, Yemenia, Zambian Air Services and Zambian Skyways.
Transport

**Freight transport**

**Ports**

Along its 3,000 km-long coastline, South Africa has eight commercial seaports: Richards Bay, Durban, East London, Ngqura, Port Elizabeth, Mossel Bay, Cape Town and Saldanha.

South Africa is situated on a major sea route, which facilitates the safe and secure movement of about 500 Mt of crude petrochemical sea trade. This represents over 30% of the world's petrochemical production, on board over 5,000 tanker voyages of very large crude carriers per year.

The nine commercial ports are crucial to South Africa's transport, logistics and socioeconomic development. About 98% of South Africa's exports are conveyed by sea. The Port of Durban is the busiest container terminal in Africa and the second busiest in the southern hemisphere following Melbourne, Australia. Richard's Bay is the busiest port in South Africa by tonnage and is one of the two top coal-handling ports in the world. Richard's Bay focuses on bulk cargo handling while the Durban Port focuses on general cargo. It has also been earmarked for expansion projects with R3.7 billion set aside for mobile and quayside equipment, as well as weighbridges. Safety-critical, environmental and legal-compliance projects would also be carried out.

Cape Town, located at the southern-most point of Africa, is ideally positioned as a hub terminal for cargo to South America and the Far East. West/East Africa cargo has grown substantially, making the Cape Town Container Terminal the terminal of choice for trans-shipment cargo. The terminal handles 3.1 million vessels per year for a gross tonnage of 44.5 million.

The Port Elizabeth Container Terminal is one of the three specialised container-handling facilities along the South African coastline.

**Pipelines**

South Africa consumes about 25 billion litres of petroleum products a year.

Transnet Pipelines transports almost 50% of all refined petroleum products in the country for the emerging and major oil companies of South Africa. The Tarlton storage and distribution terminals at Middelburg, Secunda and Kendal are the largest inland storage facilities in the country for the emerging and major oil companies of South Africa.

Transnet maintains an extensive pipeline network that extends from the coast to the inland regions. The multiproduct pipeline, being constructed at a cost of R23 billion between Durban and Johannesburg, will replace the existing Durban-Johannesburg pipeline.

**Freight**

Africa's road access rate is only 34% compared with 50% in other geographical zones. Yet roads remain the dominant mode of transportation, accounting for more than 90% of passenger and freight transport in Africa, compared with around 50% of freight in Europe.

Government will review its rail investment programme to accelerate the shift of freight transport from road to rail. Transnet will invest about R63 billion in the freight rail system by 2020. For its part, organised business will continue to promote greater use of rail freight by companies.

**Transnet Freight Rail**

TFR is the largest division of Transnet. It is a world-class heavy haul freight rail company that specialises in the transportation of freight.

The company prides itself in its technological leadership beyond Africa as well as within Africa, where it is active in some 17 countries.

TFR has positioned itself to become a profitable and sustainable freight rail company, assisting in driving the competitiveness of the South African economy.

- The company is made up of the following business units:
  - Agriculture and Bulk Liquids
  - Coal
  - Container and Automotive
  - Iron Ore and Manganese
  - Steel and Ferro Alloys
  - Mineral and Mining Chrome.

**Maritime**

Marine transport encompasses all forms of transport by sea, intermodal links and inland ports. It serves a large degree for the freight market, and in the South African context offers no significant passenger-carrying ability.

The DoT is responsible for South Africa’s maritime administration and legislation, which SAMSA controls on its behalf in terms of the SAMSA Act of 1998. The broad aim of SAMSA is to maintain the safety of life and property at sea within South Africa's area of maritime jurisdiction, and to ensure the prevention of marine pollution by oil and other substances emanating from ships.

The Department of Environmental Affairs is responsible for combating pollution and uses Kuswag coast-watch vessels to perform this function. SAMSA is responsible for introducing and maintaining international standards set by the International Maritime Organisation (IMO) in London, United Kingdom (UK), with respect to:

- ship construction
- maritime training and training curriculums
- watchkeeping
- certification of seafarers
- manning and operation of local and foreign ships
- marine search-and-rescue
- marine communications and radio navigation aids
- pollution prevention

SAMSA has an operations unit, a policy unit and a corporate support division to handle all financial, human resources and information technology issues.

Other functions include registering ships, establishing a coastal patrol service and managing marine casualties and wrecks. SAMSA is steadily improving its capacity to monitor safety standards of foreign vessels. Numerous ships calling at South Africa’s major ports are inspected, and those not complying with international safety standards are detained until the deficiencies are corrected.

The South African Marine Corporation, Unicorn Lines and Griffin Shipping are South Africa’s predominant shipping lines. Their fleets of container, oil tanker, general cargo and bulk cargo vessels operate not only between South African ports and as cross-traders to other parts of the world.

In 2016, the TNPA announced the completion of South Africa’s first tug boat, named Mvezo. There are eight more tug boats to be built as part of Operation Phakisa.

In late-2015, South Africa was elected to the 20-member “Category C” Council of the IMO.

Deputy Minister of Transport Sindiswe Chikunga led the country’s delegation to the 29th session of the IMO Assembly in London, UK.

**South African Maritime Training Academy (SAMTRA)**

The SAMTRA at Simon’s Town in the Western Cape provides advanced training to the broader maritime sector, including the merchant navy, harbour-craft operations, the fishing industry and the South African Navy.
The South African Merchant Navy Academy, General Botha, established at Granger Bay, is integrated with the Cape Peninsula University of Technology, with a similar training facility at the Durban Institute of Technology. Deck and engineering students and officers complete their academic training at the Cape Peninsula University of Technology and the Durban Institute of Technology, while lower classes of certificates are offered at the Training Centre for Seamen, situated in the Duncan Dock area in Cape Town. This training institution also caters for deck, engine-room and catering department ratings.

SAMSA is responsible for setting all standards of training certification and watch-keeping on behalf of the DoT, while the Maritime Education and Training Board is responsible for accrediting all maritime courses. Other maritime training organisations offer a wide range of courses that have been developed within the South African maritime industry. These are situated mainly in the ports of Cape Town and Durban and, to a lesser degree, Port Elizabeth.

As part of an initiative to reduce the vacancy rate of at least 45 000 jobs in the maritime industry, 12 Further Education and Training (FET) colleges across the country started to offer courses aimed at preparing young people for a career in the industry.

The FET colleges will meet at least 80% of the industry's skills demands, producing artisans such as riggers, welders and boiler makers. Annually between 1 200 and 1 600 students enter the maritime industry after completing their studies.

Through its involvement in the AU, South Africa was leading the development of an integrated African Maritime Strategy. In September 2016, SAMTRA, together with the Cape Peninsula University of Technology, hosted the International Navigation Simulator Lecturers' Conference (INSLC 19) – the first ever INSLC conference to be hosted in Africa.

Public transport

The DoT continues to administer subsidies for buses and other subsidised forms of public transport.

This includes world-class airports, upgraded train stations, refurbished coaches and luxury buses, taxis and IRPTNs such as the BRT System.

Integrated public transport networks

Bus Rapid Transport

The Tshwane Rapid Transit (A Re Yeng) started operating in 2011.

All A Re Yeng buses are equipped with free wi-fi on the trunk route, full air conditioning, low-floor technology which supports Euro V emission levels, vehicle stability and a cashless automated electronic system that is fully monitored by camera and sensors. The buses are operated by qualified former taxi drivers recruited from the various taxi associations in the city.

The A Re Yeng bus project will be rolled out in phases, culminating in the construction of 80-km long dedicated lanes. The route will comprise 51 bus stations that stretch from Soshanguve to Mamelodi, passing through the city centre and surrounding suburbs.

The City of Tshwane's launch follows on Johannesburg's Rea Vaya and Cape Town's MyCiT Integrated Rapid Transit systems. The City of Johannesburg's Rea Vaya bus system route was operational in October 2013.

The route runs from Soweto and passes through Noordegesig, New Canada, Pennyville, Bosmont, Coronationville, Newclare, Westbury, Westdene, Melville, Auckland Park and Parktown; and links to the city centre.

The GORDurban system was launched in 2015. Once completed, the GORDurban will see minibus vehicles collect people from residential areas to transfer stations where, they will get buses to their preferred destinations.

About R20 billion set aside for transformation of Durban's public transport system is expected to connect 600 000 commuters across the city to nine public transport corridors by 2027.

In mid-2016, the first phase of Ekurhuleni's Harambee BRT service was implemented. Harambee aims to connect the nine Ekurhuleni towns of Benoni, Germiston, Springs, Kempton Park, Edenvale, Nigel, Brakpan, Boksburg, and Alberton. Harambee's 56-km trunk route from Tembisa in the north to Vosloorus in the south will be built in phases, and started with the section from Tembisa via Kempton Park to OR Tambo International Airport.

All the South African BRT systems will expand in phases over the next decade.

Infrastructure development

It is the mandate of the Presidential Infrastructure Coordinating Commission (PICC) to oversee the implementation of infrastructure projects that stimulate social and economic growth.

South Africa's infrastructure plans include economic and social infrastructure that will unlock key mineral resources and exports. The PICC coordinates this infrastructure plan.

Rail

PRASA is at the forefront of government efforts to transform public transport in South Africa, with rail services forming the backbone of the network.

PRASA's mandate is to integrate intermodal facilities and services into public transport solutions that optimise the performance of the whole transport system.

The main thrust of the rail policy will focus on investment and new modern technology. It will address the regulatory framework required, particularly economic regulation, infrastructure and operations. It will also make proposals regarding the investment required to restore rail to its rightful place in the country's economy.

By 2020, existing logistics corridors are expected to be expanded upon and new corridors will have been established.

A world-class export-oriented rail manufacturing sector and 6 405 km of rail are expected to have been replaced for the general freight, coal and ore lines, increasing the rail network capacity by 149%.

The Durban-to-Gauteng Corridor is the busiest corridor in the southern hemisphere, both in terms of value and tonnage. It also forms an integral part of South Africa's freight transportation network.

Ports

Transnet Port Terminals is expected to spend R33 billion over the next six years on upgrading and expanding South Africa's ports, as part of a massive state-led infrastructure drive aimed at boosting the country's economic growth.

The expansion projects will see major increases in the container-handling capacity of the ports in Durban, KwaZulu-Natal and Ngqura outside Port Elizabeth in the Eastern Cape.

Durban Container Terminal's Pier 1 will see its capacity grow from 1.2 million 20-foot equivalent units (TEUs) by 2016/17, while its Pier 2 capacity will expand to 3.3 million TEUs by 2017/18.

Over the next 20 years, Transnet Port Terminals, which operates 45 cranes in seven ports across the country, will buy 39 new ship-to-shore cranes.

The Ngqura Container Terminal, which has been earmarked as a trans-shipment hub, will be expanded from 800 000 to two million TEUs by 2018/19.

Container capacity is also being created in other terminals, such as the Durban Ro-Ro and Maydon Wharf Terminal, through the acquisition of new equipment, including mobile cranes and various infrastructure upgrades.

The port is said to be the deepest container terminal in sub-Saharan Africa and will accommodate the new generation of giant container ships that regularly visit the country's shores.

Given its positioning and size, the Ngqura Trade Port will go a long way in boosting South Africa's trade with other countries in
the region and is expected to support the country's new growth path. The planning of the Ngqura has been integrated with that of the Coega Development Zone. The bulk handling capacity at Ngqura, Richards Bay in KwaZulu-Natal, and Saldanha in the Western Cape will also come in for major expansion.

Safety-critical, environmental and legal compliance projects are also in the pipeline. Some R1.2 billion will be spent on creating new capacity, including new storage areas, at Richards Bay. Transnet is also pursuing the re-engineering of the port to create additional capacity for bulk products at the terminal.

Saldanha’s iron-ore bulk facility, which has undergone significant expansion in recent years, will be further expanded, taking its capacity to 82 Mt a year. Additional manganese capacity will be created by the proposed relocation of the 5.5 Mt-a-year export facility in Port Elizabeth to a new two-berth manganese facility at the Port of Ngqura, boosting capacity to 12 Mt a year from 2016/17.

Safety of travellers

Arrive Alive

Government’s Arrive Alive Road-Safety Campaign has become an important part of the DoT’s road safety projects and awareness efforts, especially during critical periods for road traffic management such as the Easter long weekend and the December holidays.

At the end of 2015, it was announced that the RTMC could not use the Arrive Alive campaign anymore, as it had been registered as a brand. The safety campaign remains in place, operating under the name 365 Days of Road Safety Programme, which would focus on creating awareness all year round.

The goals of the campaign are to:

- reduce the number of road-traffic accidents in general, and fatalities in particular, by 5% compared with the same period the previous year
- improve road-user compliance with traffic laws
- forge improved working relationships between traffic authorities in the various spheres of government.

The campaign emphasised that the reduction in road deaths was urgent and non-negotiable.

The RAF pays out about R15 billion to victims of road accidents every year.

UN Decade of Action for Road Safety 2011 – 2020

South Africa is a signatory to the UN Decade of Action for Road Safety 2011 – 2020. The UN General Assembly resolution proclaiming a Decade of Action for Road Safety 2011 – 2020 was tabled by the Government of the Russian Federation and co-sponsored by more than 90 countries.

The initiative aims to save lives by halting the increasing trends in road traffic deaths and injuries worldwide. It is based on the following:

- Pillar 1 – Building road safety management capacity
- Pillar 2 – Improving the safety of road infrastructure and broader transport networks
- Pillar 3 – Further developing the safety of vehicles
- Pillar 4 – Enhancing the behaviour of road users
- Pillar 5 – Improving post-crash response.

As part of the Decade of Action for Road Safety 2011 – 2020 campaign, government is targeting the reduction in fatalities by 50% in 2020.

South Africa’s efforts are focused on four key areas:

- fatigue or driver fitness
- drinking and driving
- use of seat belts
- pedestrian safety.

A key aspect of the integrated Road Safety Management Programme is increasing pedestrian safety. In planning and design, SANRAL provides for interventions such as traffic calming, safe stopping areas for public transport, and pedestrian bridges. The DoT also engages communities adjacent to national roads to find solutions to pedestrians’ needs.

To contribute to safety on the roads, SANRAL has developed a database of projects that need to be implemented in areas that are hazardous to pedestrians. The solutions range from pedestrian bridges, pavements, road safety education and traffic calming measures.

When it comes to managing safety on freeways, SANRAL’s incident management system, supported by central command centres, embraces interaction between emergency services and law enforcement agencies on all declared national routes.

Passenger rail safety

The National RSR Act, 2002 (Act 16 of 2002), is the enabling legislation for setting up the independent RSR, reporting and accountable to the Minister of Transport.

The mandate of the RSR is to:

- oversee safety in railway transport, while operators remain responsible for managing the safety of their operations
- develop an appropriate regulatory framework through the development of regulations and standards for safe railway operations
- monitor and ensure safety compliance by conducting audits, inspections, safety assessments and occurrence investigations
- collect and disseminate information relating to safe railway operations
- promote the harmonisation of the railway safety regime of South Africa with SADC railway operations
- promote improved safety performance to support the use of rail.

In pursuance of this mandate, the RSR has, in collaboration with the railway industry and the South African Bureau of Standards, developed a series of standards to ensure a common and consistent approach to railway safety in areas such as safety management, technical and operational requirements, and the management of human factors.

A key to the successful regeneration of the railway system in South Africa, and indeed the subregion, is the interoperability of the railways.

This implies consistent standards and common usage of technology where railway infrastructure is used by more than one operator.

The RSR and the railway industry continue to collaborate in developing the overarching broad technical and operating standards.

The need for harmonisation of safety standards within the SADC region is of strategic importance. The RSR is facilitating efforts to adopt and align the current railway safety standards by regional railway operators through the Southern African Railway Association.

Since the RSR’s creation, there has been increased awareness of safety in railways, improvements in safety management and accountability, and standardisation of safety management systems among railway operators in South Africa and regional railways operating into South Africa.

The permit system employed by the RSR ensures the standardisation of safety management systems.

Through its Southern African Railway Association membership, the RSR plays a leading role in regional safety issues. The RSR played a central part in developing the Regional Safety Policy Framework and safety standards and in updating the Handbook on the Transportation of Hazardous Materials by Rail.

Since the re-introduction of the railway police, there has been a significant drop in crime on trains and at train stations.

Maritime safety

An estimated 7 000 vessels pass around South Africa’s coastline annually, of which many are laden tankers carrying in excess of 30 Mt of crude oil. South African weather conditions present regular challenges to vessels, often resulting in distress calls to the Cape Town-based Maritime Rescue Coordination Centre (MRCC).

Piracy constitutes a serious challenge to the development and stability of the SADC member states, given the importance of the region’s international seaborne trade and its vital contribution to regional food stocks and economic development. The threat from acts of piracy anywhere in the world has a significant impact on the global economy, and particularly with regard to the economies of the SADC region.

The threat around the Horn of Africa and SADC waters constitutes a serious challenge to the development and stability of the SADC member states, given the importance of the region’s international seaborne trade and its vital contribution to regional food stocks and economic development. Piracy constitutes a serious challenge to the development and stability of the SADC member states, given the importance of the region’s international seaborne trade and its vital contribution to regional food stocks and economic development.
• ratify or accede to international maritime conventions/treaties/ regimes and the incorporation of these into their national law
• put in place comprehensive legal regimes at national level, consistent with international law, to prosecute pirates
• stop the practice of “catch-and-release” of pirates since it allows experienced pirates to execute more sophisticated acts of piracy
• strengthen and harmonise regional and domestic legal frameworks for arrest, awaiting trial detention, prosecution and imprisonment or repatriation of pirates
• take responsibility for its own maritime security in cooperation with other regions, task forces, navies and role players.

The MRCC enables South Africa to exercise its responsibilities to the international community by employing state-of-the-art search-and-rescue infrastructure and services.

South Africa has a well-established pollution prevention strategy, and is ready to respond in case of threats to the environment or to provide assistance to vessels at risk.

South Africa acts in terms of the Indian Ocean Memorandum of Understanding (MoU) on Port State Control and has a similar agreement with the states of West Africa in the form of the Abuja MoU.

**Search and rescue services**

The Southern African Search and Rescue Organisation (SASAR) has been in existence since 1957. It was formalised through the enactment of the South African Maritime and Aeronautical Search and Rescue (SAR) Act, 2002 (Act 44 of 2002). The Act gave the organisation a statutory mandate to coordinate all SAR activities within South Africa’s area of responsibility.

South Africa is responsible for a huge SAR area, representing about 10% of the globe and about 28.5 million km² in total. To manage this vast area, the South African area is divided into the aeronautical and maritime SAR areas.

The aeronautical SAR region covers Lesotho, Namibia, South Africa and Swaziland, and associated flight information regions.

The maritime SAR area stretches about halfway between South Africa and South America on the western side, and about halfway between South Africa and Australia on the eastern side. It also borders on Namibia, Angola, South Africa and Mozambique on the northern side and then extends to the south pole.

Relevant operational structures and substructures were established for SASAR to execute its mandate successfully.

The Aeronautical Rescue Coordination Centre (ARCC) and the MRCC are the primary structures responsible for the execution of SASAR’s statutory mandate. The ARCC and the MRCC are based at the ATNS and SAMSA.

SAR only works when several countries and all stakeholders collaborate across borders. This culture of collaboration dates back to 1959 when the Convention on International Civil Aviation first made provision for cooperation between states.

According to this provision, states will individually or in cooperation with other states, arrange for the establishment and prompt provision of SAR services within their territories to ensure that people in distress get assistance.

Regional cooperation also uses scarce resources and helps nations to avoid duplicating efforts and facilities.

Through this collaboration, services are provided for poor states in a uniform way across a wide area. Collaboration also reduces the overall cost of SAR operations.

The SADC approached the ICAO and the IMO to fund the training requirements identified for the region.

In collaboration with the Department of Environmental Affairs, the DoT is also planning to create SAR capacity in the Antarctic region.

The DoT, the South African National Defence Force, Telkom, Portnet, SAMSA, SACAA, ATNS, SAPS, the Independent Communications Authority of South Africa, SAA and the Department of Cooperative Governance and Traditional Affairs are members of SASAR and contribute their services and facilities.

Voluntary organisations such as the 4x4 Rescue Club, the Mountain Club of South Africa, Hamnet (the national amateur radio emergency communication network) and the National Sea Rescue Institute are also members of SASAR.

The ARCC Centre is an operational facility of SASAR that promotes the efficient organisation of search and rescue services and coordinates aeronautical search and rescue operations. This plays a significant role in improving the safety of South African airspace.