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1 INTRODUCTION

1.1 PURPOSE

This document is the fourth deliverable in the preparation of the KwaZulu-Natal (KZN) Provincial Spatial Development Framework (PSDF). It presents the spatial proposals for the Province and includes the refinement of a long-term spatial development vision indicating the desired spatial pattern in line with the development vision contained in the PGDS. The document includes:

- A conceptual framework for the spatial development of the province using a range of spatial planning concepts, indicating different spatial interventions that will contribute towards the attainment of the spatial vision. It is built on the spatial development levers and identify spatial changes required to achieve the desired spatial outcomes. This includes the elements that should be put in place to transition the province from the current situation to the desired future.
- Formulation of spatial development objectives and spatial development strategies. Objectives and strategies are linked to outcomes.
- Translation of SDF concepts and spatial planning tools into proposals. This activity includes the
 identification and prioritisation of areas for strategic spatial planning interventions. These are
 areas that requires firm management of growth, promote economic development, and respond
 to the needs of a growing population.

1.2 Spatial Planning Practice in South Africa

The Spatial Planning and Land Use Management Act (SPLUMA), Act No. 16 of 2013 introduced a new spatial planning system in South Africa. It replaced a myriad of discrete apartheid era legislation and the associated disjointed planning system with a single framework legislation that provides for a uniform national approach to spatial planning. As set out in Section 4 of the SPLUMA, the new spatial planning system consists of the following:

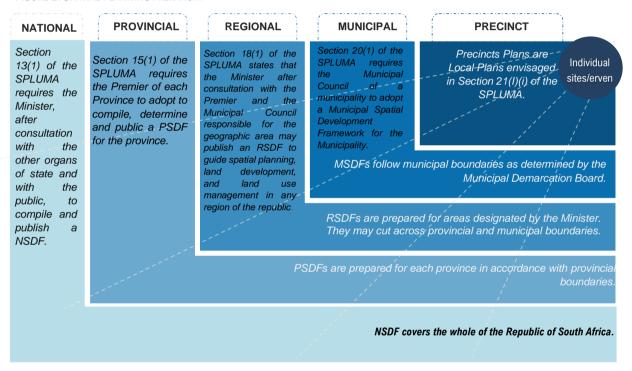
- Spatial Development Frameworks (SDFs) to be prepared at national, provincial, regional, and municipal scales.
- A set of development principles, norms and standards that will guide spatial planning, land use management and land development.
- Land use schemes which are essentially a mechanism for facilitating development and regulating land use in each local municipality.
- o Procedures and processes for the submission and consideration of land use applications.

The new approach places spatial planning at the centre of cooperative government and intergovernmental relations. Chapter 3 of the SPLUMA is dedicated to this issue, and in addition to Schedule 4 and 5 of the Constitution, mandates both national and provincial spheres of government to implement measures to support and monitor spatial planning within their areas of jurisdiction. It entrusts the national government with the responsibility to support and strengthen both provinces and municipalities in undertaking effective spatial planning; and allocates a duty to capacitate and

enable municipalities to perform their spatial planning duties and functions competently and successfully to the provincial government.

Section 12 of the SPLUMA outlines the general provisions applicable to all scales of SDFs including a PSDF. This document does not regurgitate these provisions suffice to mention that they require SDFs to express the desired long-term spatial pattern; guide both public and private sector decision making relating to spatial planning and land use management; address historical spatial imbalances; take cognisance of environmental management instruments; and give effect to the applicable legislation and policies. The attainment of this ideal necessitates a strong horizontal and vertical alignment of SDFs where higher scale SDFs provide a framework and are informed by the lower level SDFs. This makes SDFs a mechanism for spatial sectoral integration and coordination among the three spheres of government.

FIGURE 1: SPATIAL PLANNING HIERARCHY



The SPLUMA introduces five development principles to guide spatial planning and inform decision making. These principles are spatial justice, spatial sustainability, spatial resilience, efficiency, and good governance. The principles serve as a transformation lever and describes the desired outcomes/impact of the various spatial planning measures including the SDFs. They translate the spatial transformation issues that need to be addressed in the South African context into a legislated guideline that is intended to shape the content and outcomes of spatial planning (SACN, March 2015:30). The SDFs are therefore a mechanism through which the transformation principles contained in SPLUMA find expression in a specific spatial context. If the relevant aspects of spatial transformation are not appropriately considered and applied at this level of planning, the transformation drive through SPLUMA may fail in its entirety (Ibid, p. 33).

Furthermore, Section 8 of SPLUMA makes provision for the Minister to prescribe norms and standards for land use management and land development. Section 8 includes both normative and more detailed process related aspects that must be addressed in the norms and standards.

1.3 MANDATE FOR PROVINCIAL SPATIAL PLANNING

Schedule 5 Part B of the Constitution of the Republic of South Africa identifies 'provincial planning" as one of the functional areas of exclusive provincial legislative competence. Provincial planning has three components. Firstly, the Constitution empowers provinces to formulate and implement legislation to regulate development planning and land use management within their areas of jurisdiction. Secondly, strategic planning provides for the formulation of a cohesive strategy and its implementation plan for the integration and effective implementation of government development and service delivery programmes across the province. The preparation of a PSDF in terms of the SPLUMA falls under this category of provincial planning. Lastly, provincial planning entails the setting up of systems and procedures for support and monitoring of planning at a municipal level. This includes both integrated development planning and land use management.

1.4 Provincial Spatial Development Frameworks

Further to the above-outlined spatial planning system, Part C of the SPLUMA provides details regarding the preparation, content, and legal effect of PSDFs. Section 16 states that a PSDF must:

- provide a spatial representation of the land development policies strategies and objectives of the province particularly the Province's growth and development strategy;
- represent the desired spatial and land use pattern;
- coordinate and integrate the spatial expression of the sectoral plans of provincial government departments;
- o provide a framework for coordinating contiguous municipal spatial development frameworks; and
- incorporate any spatial aspects of relevant national development strategies and programmes as they apply in each province.

A PSDF is therefore a tool for spatial transformation and development at a provincial level. It should paint a picture and outline a strategy for the attainment of the desired future within the existing policy framework and based on an in-depth understanding of spatial challenges and opportunities that characterise the province. It is a territorially based mechanism for spatial governance and coordination and/or integration of the spatial dimension of sectoral policies. It addresses the tensions and contradictions among sectoral policies (i.e., conflicts among economic development, environmental management, and social cohesion policies). It creates a rational territorial organization of land uses and strengthen the linkages between them, to balance demands for development with the need to protect the environment and to achieve social and economic development objectives.

A PSDF is formulated and may not be inconsistent with the NSDF. It must provide a framework for the preparation of regional and municipal SDFs to achieve consistency, alignment, and continuity.

1.5 KWAZULU-NATAL PROVINCE

Further to Section 15 of the SPLUMA, the Premier of KwaZulu-Natal, through the MEC for Cooperative Government and Traditional Affairs (COGTA), has initiated a process towards a comprehensive review of the PSDF. This will satisfy the requirements of the SPLUMA; enable the province to deal effectively with the besetting spatial challenges; and reposition KwaZulu-Natal to cease opportunities that the national and international environment presents.

FIGURE 2: KWAZULU-NATAL PROVINCE WITHIN SOUTH AFRICA



KwaZulu-Natal (KZN) is one of the nine (9) provinces in the Republic of South Africa (RSA). It is the third smallest province (in geographic size) and covers approximately 94361 km² or 7.7% of South Africa's land mass. The province has the second largest population in the country with about 10 267 300 persons or 19.8% of the total population of South Africa (StatsSA, Census 2011). The population is spread unevenly among 10 District Municipalities (43 Local Municipalities KZN) and one metropolitan municipality (eThekwini Metropolitan Municipality). eThekwini accounts for 34% of the provincial population. 52.5% of the population resides in rural areas mostly in settlements under traditional

leadership. Massive poverty, poor access to basic services and public facilities, lack of economic opportunities and general underdevelopment characterise most of these areas

FIGURE 3: THE KZN PROVINCE



KZN is situated along the east-coast of South Africa and shares a border with Mozambique and Eswatini to the north, and Lesotho to the south west. Mpumalanga Province lies along the north-eastern boundary while the Free State and the Eastern Cape provinces are along the western and southern boundaries respectively (refer to figure 2Error! Reference source not found.). Access to the province occurs through the N2 north-south corridor that links KZN with the Eastern Cape Province to the South and Mpumalanga Province to the north; and the N3 east-west corridor which links the province with Free State Province and Gauteng Province to the west. The N11 branches of the N3 near

Ladysmith linking KZN with Mpumalanga Province to the north-west. A wide network of provincial and regional roads links the province with the surrounding areas including Lesotho, Eswatini and Mozambique.

The King Shaka International Airport (KSIA), Richards Bay Coal Terminal (RBCT) and the Port of Durban (commonly known as Durban Harbour) also serve as primary entry and exit points from the province for both passengers and goods. The province also benefits, in terms of access and connectivity, from an extensive national railway network.

Settlement and land use pattern in the province reflect a combined impact of the successive political regimes from Mfecane, colonialism and apartheid, to the current democratic dispensation; natural features such as terrain, river catchments and other ecological corridors; physical infrastructure such as road network; and climate change. Settlements range from low density sparsely populated rural settlement and relatively dense expansive rural settlements under traditional leadership through dislocated settlements of varying levels of population density in the commercial farming regions, to towns and cities. Each of these settlement types has its own dynamics and complexities that equally reflect the impact of the above-mentioned factors. In the urban centres, these include land use fragmentation, land use separation, and location of the poor in peripheral areas.

KZN has two world heritage sites, that is the Okhahlamba Drakensburg Park and Isimangaliso Wetland Park. It has a rich heritage and has some of the prime tourist destinations in the country. These include beaches along the coast, heritage sites, game reserves and various scenic routes.

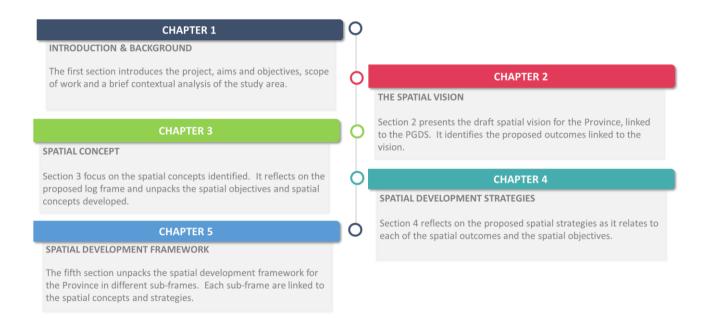
Although the provincial government has made significant progress in reshaping the provincial spatial structure, stubborn spatial imprints of the apartheid past remains one of the key challenges facing the province. These manifests themselves in the form of differences in the level of development; lack of spatial planning in the rural areas; concentration of the economy in eThekwini; and poor functional integration between areas previously separated by apartheid. Other spatial challenges facing the province include urbanisation, declining small towns, densifying rural settlements, impact of climate change, spatial marginalisation, overharvesting (depletion) of natural resource and economic decline in some regions.

1.6 SPATIAL PLANNING IN THE KWAZULU-NATAL PROVINCE

The KwaZulu-Natal province has not developed a comprehensive Provincial Spatial Development Framework. However, the province dealt with spatial issues within the Provincial Growth and Development Strategy (PGDS)-2011. This document identifies 'spatial equity' as one of the seven development goals and presents a Spatial Development Framework to guide strategic spatial interventions. Most municipalities in the province have developed SDFs as sector plans of their Integrated Development Plans (IDPs). These vary significantly in quality, detail, and compliance with the SPLUMA. Municipalities have also adopted by-laws for an effective implementation of the SPLUMA.

The enactment of the SPLUMA in 2016 has necessitated a comprehensive review of the PSDF to comply with the Act and set a framework for the preparation of Municipal Spatial Development Frameworks. Furthermore, KZN has made remarkable progress with the formulation of a Provincial Spatial Planning and land Use Management legislation as provided for in the SPLUMA.

1.7 STRUCTURE OF THE REPORT



1.8 PLANNING PROCESS

The planning process towards the review of the KZN Provincial Spatial Development Framework has five phases as depicted in figure 4 below. Each phase marks the completion of a milestone and is linked to specific deliverables. Phase three deals with the spatial proposals, which is the subject of this report.

FIGURE 4: PLANNING PROCESS Finalise Provincial Spatial Policies Finalise spatial development guidelines Preparation of Capital Investment Framework · Review legislative and policy Preparation of monitoring & context evaluation framework (spatial Vision directives targets) Social and economic analysis Spatial Governance Biophysical environmental Framework (Institutional arrangements) PHASE 1 Built environment analysis PHASE 3 PHASE 5 Alignment of policy, guidelines Spatial development challenges and institutional targets with M & E targets and opportunities. SPATIAL CHALLENGES AND IMPLEMENTATION INCEPTION SPATIAL PROPOSALS **OPPORTUNITIES** Initial data collection from Refinement of PSDF COGTA Finalise PSDF PHASE 2 Project Inception Report Spatial concepts and application PHASE 4 Set up of monitoring & Preparation of spatial strategies evaluation process and policies Preparation of development Preparation of Draft Provincial SDF Preparation of a Final Draft PSDF Monitoring & Evaluation establish indicators and targets Monitoring & Evaluation- develop spatial monitoring tools

2 THE SPATIAL VISION

PSDF VISION

Equitable utilisation of physical and environmental resources toward greater spatial integration and sustainability in development."

The spatial development vision of the province is based on the policy directives as well as current known spatial and land use challenges. To ensure that the vision is clearly expressed a series of outcomes have been identified and grouped in anticipated outcomes of the provincial development vision for an equitable, resilient, sustainable, productive and efficient, and well-managed province. The figure below illustrates how the grouping of envisaged provincial outcomes aligns with the development principles required within the Spatial Planning and Land Use Management Act.

FIGURE 5: KZN ENVISIONED

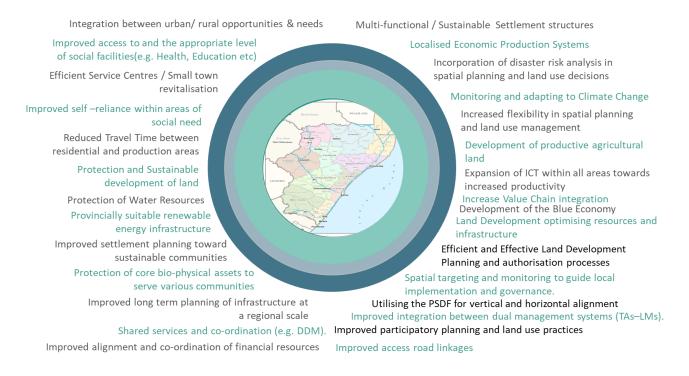


FIGURE 6: ENVISAGED SPATIAL DEVELOPMENT OUTCOMES



The specific intent and identified outcomes for each of the five provincial future states are discussed below:

AN INTEGRATED AND INCLUSIVE PROVINCE

An integrated and inclusive province where past and current injustices area addressed to ensure an improved spatial structure and land use management practices which benefits all communities within the province in an equitable manner. The following intended outcomes will contribute to the development of an equitable and integrated province:

- Spatial planning and settlement structures guiding and accommodating population structures and dynamic changes (e.g., migration patterns) to avoid the structural marginalisation of any groups or settlements.
- Planning and development of integrated and sustainable settlements provide a basis for social inclusivity and cohesion.
- Settlements with defined social or spatial networks tying people and places together, providing
 access and opportunity for all.
- Improved access to and the appropriate level of social facilities contribute to healthy, educated, active and safer communities.
- o Improved access of vulnerable groups to services and economic opportunities.
- Spatial planning and land use management addresses improved linkages between areas of need and areas of opportunity.
- o Spatial focus on viable rural development provides for localised development within rural areas.

A SPATIALLY SUSTAINABLE PROVINCE

The **sustainability** of the province is based on the spatial structuring and development of the province in a manner which will maintain the bio-physical environmental while providing the social and economic opportunities required within settlements and communities. The following intended outcomes will contribute to the development of a sustainable province:

- Protection and sustainable development of land and water resources towards an integrative economic structure.
- Water resources are protected, used sustainably and well-managed by both authorities and communities.
- o Increased air quality monitoring and management in both urban and rural production areas.
- Sustainable wastewater solutions in spatial planning and land use management across the province.
- Inclusion of stormwater solutions within all land use development process to protect lives, infrastructure and productive land.
- Implementation of provincially suitable renewable energy infrastructure as integral part of spatial planning and land use management.
- Carefully considered settlement planning towards sustainable communities which could flourish
 in their local area.
- Sustainable waste management solutions in spatial planning and land use management across the province.

A RESILIENT PROVINCE

The vision of a resilient province relates to the ability of human and natural systems to absorb disturbances while retaining the same basic structure and ways of functioning, the capacity for self-organization and the capacity to adapt to stress and change. A resilient province will have an effective, progressive, and coordinated response to adjust the spatial vulnerabilities of social, economic, and ecological systems while fostering its resilience and adaptive capacity to future uncertainties and potential risks. The following intended outcomes will contribute to the development of a resilient province:

- Establishment of sustainable and multifunctional settlements at all levels.
- Adaptive design in settlement planning which creates modularisation and redundancy into the settlement structure.
- o Strong focus on localised and regional economic production activities.
- Equitable distribution of social services to provide access to all communities.
- Incorporation of disaster risk reduction and climate change adaptation responses within all spatial planning and land use management.

A PRODUCTIVE AND EFFICIENT PROVINCE

The vision of a productive province relates to both public and private sector organisational efficiency as well as a productive use of available land and natural resources towards an economically productive province. In terms of the land productivity a province is envisaged where the following outcomes area achieved:

- o Reduced travel time between residential and employment areas at all spatial scales.
- Increased access to and development of productive agricultural land for economic development and food security.
- Agricultural resources at both commercial and subsistence scale are protected and systematically development to contribute to improved food security.
- The biodiversity economy is expanded, strengthened, and transformed to be more inclusive of the rural poor.
- Strengthened regional and localised economic centres which are focussed on providing both local and regional economic growth opportunities.
- Efficient urban centres service as support of surrounding regions towards economic integration and localised growth.
- Secondary towns are structured and developed to provide a social and economic linkage between large economic centres and peripheral areas.
- o Increased data connectivity within all urban and rural regions of the province.
- Land development optimises the use of existing resources and infrastructure.
- Spatial planning and development application procedures are efficient and streamlined to contribute to the rapid development of the province.

- Knowledge based spatial planning, land use management and production through digitally driven integration.
- Land use decision-making processes are structured to avoid negative financial, social, economic, or environmental impacts.

A WELL-MANAGED PROVINCE

The vision of a well-managed province relates to the improved level of provincial and municipal governance in spatial planning and land use management in terms of co-ordination between various role-players, consistency in governance systems, responsiveness, meaningful community participation and improved accountability. A well-managed province will be aimed at the achievement of the following outcomes:

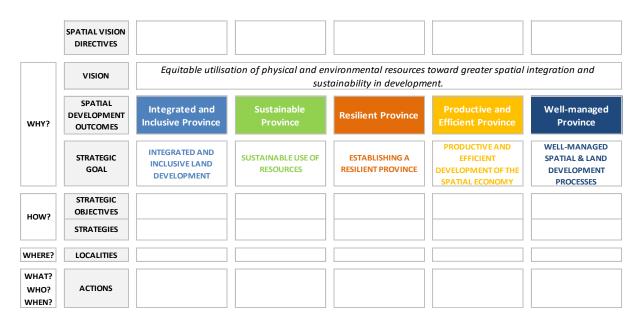
- Clear and consistent alignment between national, provincial, regional, and municipal spatial planning initiatives and land use management strategies.
- Co-ordinated land and resources planning and utilisation between various regions and roleplayers within the province.
- Move toward measurable development outcomes within all spatial planning and land use management governance.
- Well capacitated provincial, traditional and municipal authorities to implement spatial development priorities. Appropriate and consistent land use management which enables the implementation of spatial strategies and priorities.
- Established system of landscape differentiation with appropriate spatial planning and land use management and governance as part of an integrated provincial system.
- Structured and meaningful participation of communities in spatial planning and land use management impacting upon them.
- Integrated planning and land use management system within traditional authority areas and surrounding municipal areas.
- Understandable, supported and localised enforcement of spatial planning and land use management intentions towards protecting resources and implementing development priorities.
- Improve and consistent accountability of decision makers towards spatial development priorities and management policies.

3 SPATIAL CONCEPT

3.1 STRATEGIC LOG FRAME

The strategic log frame for the preparation of the Spatial development framework is indicated in figure 7 below. It identifies the provincial spatial vision, the related outcomes, and strategic goals. The next step answers the question of "how" and identifies the different objectives identified per outcome. Strategies on how to achieve the objectives are identified as part of this frame. The spatial component of where the outcomes and strategies should focus follows the strategies and is defined as different sub-frames.

FIGURE 7: PSDF STRATEGIC LOG FRAME



3.2 Spatial Objectives

Strategic objectives have been developed per strategic goal and is indicated on the figure below. Between two and four strategic objectives were identified per strategic goal.

FIGURE 8: STRATEGIC OBJECTIVES

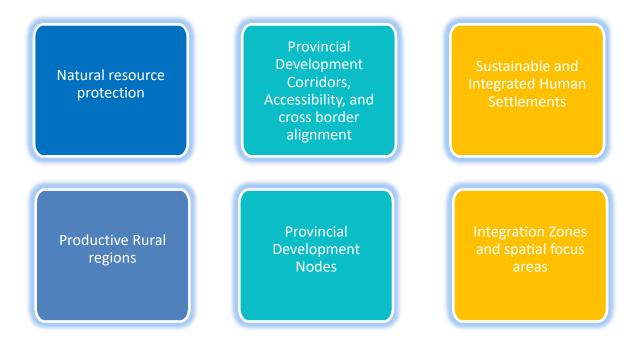


| SPATIAL DEVELOPMENT OUTCOMES | STRATEGIC GOAL | STRATEGIC OBJECTIVES |
|---|--|---|
| Resilient Province | ESTABLISHING A RESILIENT PROVINCE | 7. Reduce environmental degradation and loss which increases human vulnerability.8. Create social, economic, and ecological resilience in spatial planning and land use management. |
| Productive and Efficient Province | PRODUCTIVE AND EFFICIENT DEVELOPMENT OF THE SPATIAL ECONOMY | Develop and promote the agricultural potential of KZN. Develop and promote the biodiversity economy in KZN. Provide regional infrastructure networks to support economic production. Focus spatial economic development in strategic areas (note-link to nodal and corridor frameworks). |
| Well- managed Province | WELL- MANAGED SPATIAL & LAND DEVELOPMENT PROCESSES | Spatial planning and development application procedures are efficient and streamlined to contribute to the rapid development of the province. Accountable and capacitated spatial governance systems. Improved role-players participation in land use decision making |

3.3 SPATIAL CONCEPTS AND DRIVERS OF SPATIAL TRANSFORMATION

The Province will give effect to the intentions of the PSDF through a set of spatial planning concepts that indicates the desired future spatial situation, and broad policy positions to guide decision-making. The following diagram presents a synthesis of the key spatial concepts and must be read together with the discussion on each concept in the following sections.

FIGURE 9: PSDF SPATIAL CONCEPTS

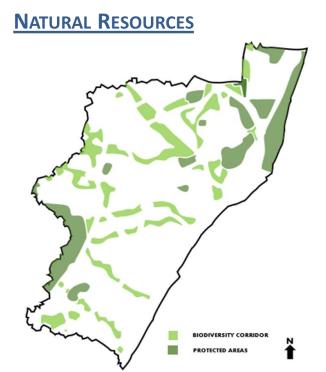


3.3.1 NATURAL RESOURCE PROTECTION

The identification of elements and systems within KZN must be considered as the foundations on which we build the PSDF. The spatial distribution of environmental areas of significance is considered

vital to provide the spatial framework for future spatial development planning. It is of particular importance that development needs to be avoided in these areas, or at best, carefully managed.

This spatial structuring principle focuses on conserving the core biodiversity areas, as well as elements such as topography, key catchment areas, fragile landscapes, environmentally sensitive zones / corridors, wetlands, flood plains, steep slopes and special sensitive bio-diversity areas. Development in sensitive areas must be compatible with the resource-specific objectives of such areas and emphasise the importance of the biodiversity corridors

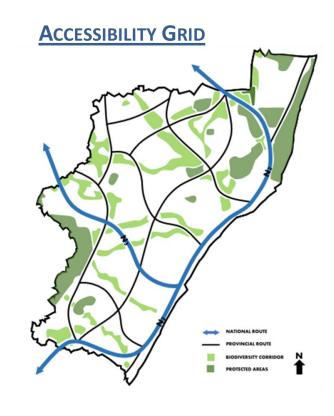


(buffer areas), which should link those core areas together, are important. Man-made elements such a major railway lines and highways could also form part of the key foundation elements. These assets perform a substantial and significant role in conserving biodiversity as well protecting the quality of life.

3.3.2 Provincial Development Corridors Accessibility and Cross-Border Alignment

The logical focus areas of an ordered strategy for development are through a system of provincial, regional, and local transport routes, which link several areas. It must be acknowledged that transport networks impact on the nature and extent of development in a specific development area. These routes should be seen as activity and investment lines. The structure they give to the area is articulated in the form of movement patterns and systematic distribution of land uses in space.

Not all regional routes are the same in terms of the intensity of use and ability to attract investment, services, economic activities, and settlement. Generally, larger routes linking generators of movement and investment have a greater generative capacity than smaller



routes. As such, regional facilities and services should gravitate towards these areas, while smaller facilities requiring smaller thresholds should be located along smaller routes. This has an impact of reducing spatial marginalization, increasing equitable access to all level of services, and promoting investment.

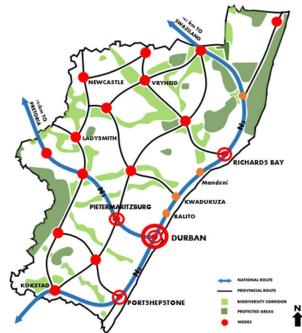
Cross border alignment needs to consider trade and economic issues, regional migration trends, provide for regional gateways, service delivery and protection of strategic regional ecosystems and biodiversity through shared management of International Trans-frontier Parks. The Province of KwaZulu-Natal does not operate in isolation and are dependent on connections and linkages to surrounding regions and countries (Eswatini, Mozambique, and Lesotho). Elements such as trade ports, key national and provincial roads and railway lines, border posts, airports and harbours, thus become important.

3.3.3 DEVELOPMENT NODES

At a provincial level, the various development linkages, and corridors service to connected people and goods to appropriate town, which in turn serve as a diverse set of development nodes. These provincial nodes aim to establish cost effective service delivery due to a concentration of people and infrastructure, counter urban sprawl and focus on improving the fragmented morphological form of certain settlements to become more efficient and sustainable.

Together, the corridors and nodes structure the investment network of zones, routes, and points as a spatial indication of where investment should be directed. The concept attempts to extend social and economic opportunities to all

NODAL FOCUS AREAS



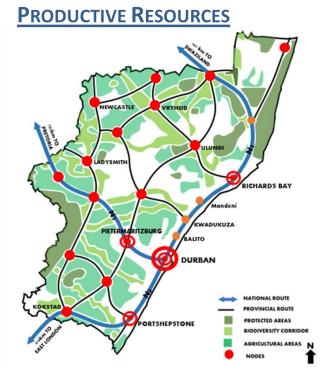
throughout the province. Investment will typically follow existing trends, although there are several nodes identified to redress the negative impacts of past policies as well as unlocking future potential through public as well as private funding.

3.3.4 PRODUCTIVE RURAL REGIONS

The rural regions of the province area often defined as the regions where the highest poverty concentrations perpetuate. The rural regions often lack accessibility (due to terrain, distance, and transport infrastructure) resulting in these settlements to have less access to urban economic opportunities.

Furthermore, the expanse of these rural areas impacts on productive agricultural land and critical biodiversity assets and there is thus a need to focus on the protection and development of productive rural regions to develop the agricultural and biodiversity economic potential of the province as well as the ability of the rural communities to access and develop the rural economy.

In order to balance the development of localised rural economic opportunities, protecting productive agricultural land, harnessing the economic opportunities of biodiversity resources and diversifying the rural economy, the PSDF will focus on productive rural regions. This will be done by



defined productive land, and areas with potential for unlocking the biodiversity economy, denser settlements, important access, and distribution routes as well as economic production facilities and nodes to support the production within rural regions.

3.3.5 Sustainable and Integrated Human Settlements

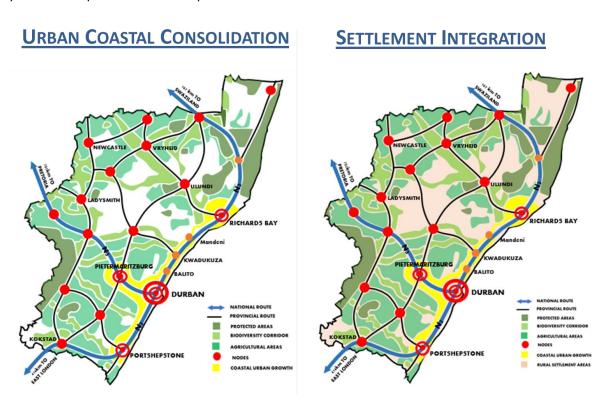
The KZN Province is characterised by a complex settlement pattern and a wide range of settlement types across the province, which is further characterised by blurring lines between settlement types. One of the main features of the settlement pattern is the scattered nature of rural settlements, which is not sustainable and renders service delivery and development ineffective. The highest settlement densities are usually found along main transport routes where a web of local access roads and public facilities holds settlements together. At a regional level, they should be knit together by a system of regional access routes.

Settlements are not static and respond to change, thus they are continuously transforming. The key challenge is to turn these settlements into sustainable human settlements, which has certain implications for detailed planning and development of these settlements:

- Centrally located settlement should provide improved access to higher order public facilities, intensive agriculture, and other urban services.
- They should generate a wide range of opportunities. Sparsely populated settlements are opportunity areas for agricultural development such as crop production and livestock farming.
- A convenient settlement improves the level of choice, encourages creativity and investment while
 a less convenient settlement imposes a lifestyle on people and results in unnecessary expenses.

 Settlements should be equitable in the sense that they should provide a reasonable access to opportunities and facilities to all. It is neither possible nor desirable for settlements to be homogenous hence an emphasis on choice.

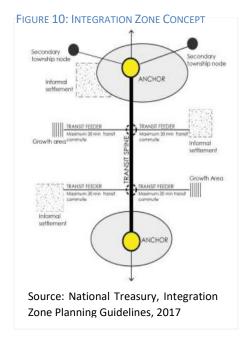
More compact settlements can be achieved with the maintenance of a settlement edge to discourage development sprawling into prime agricultural land and other natural resource areas. The settlement edge can be used to encourage more efficient use of underutilised land existing in a settlement, through development of vacant land or the re-use of 'brownfield' degraded land areas. It can also be used to manage the investment and characteristics of infrastructure levels according to the needs of communities and economic activities located within settlement edges or outside settlement edges. This requires detailed planning at a settlement level and could best be sustained through the coding or integration of the existing community rules into a land use management system. Certainly, the level of compaction will consider the nature and character of each settlement, as well as the prevailing spatial development trends and patterns.



3.3.6 INTEGRATION ZONES

The concept of integration zones is based on a spatially targeted network within a city, town, or city-wide network or between different service points. The network consists of different integration zones, which can be described as spatial planning elements that facilitate spatial targeting and transformation.

Elements that form part of the integration zone includes a transport / transit spine, as well as strategically located integration zone points or nodes located at strategic intersection points. These



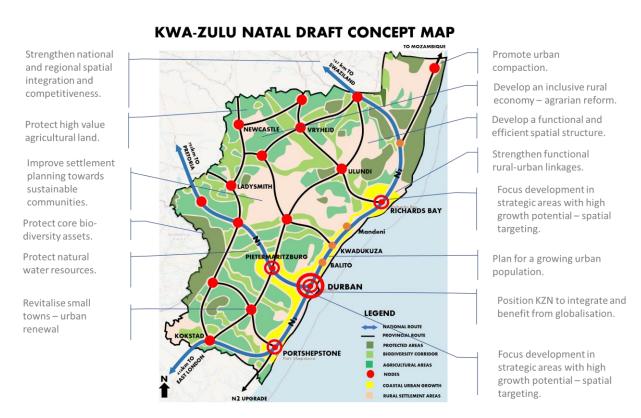
strategic points connect the marginalised areas such as townships, informal settlements, or rural settlements to economic nodes (commercial and industrial) via feeder routes (National Treasury, Guidance Note: BEPP Framework v5.3).

The intention of integration zones and points in the context of the PSDF is to be used as a tool by local municipalities to achieve spatial transformation of urban centres or towns and surrounding marginalised areas when developing their spatial development frameworks.

3.4 SPATIAL CONCEPT

The spatial concept map for the Province is a consolidation of the conceptual layers, concepts or tools and informants discussed in the previous sections. The spatial visioning directives and emerging linkages to certain spatial areas in the Province are depicted.

FIGURE 11: SPATIAL CONCEPT MAP FOR KZN



4 SPATIAL DEVELOPMENT STRATEGIES

The spatial development strategies are outlined in the sections below. The strategies are presented in a format that relates back to the five spatial development outcomes or intended impacts that are envisaged for the Province, as well as the identified strategic objectives.

4.1 OUTCOME 1: INTEGRATED AND INCLUSIVE PROVINCE

SPATIAL STRATEGIC DEVELOPMENT STRATEGIC OBJECTIVES GOAL OUTCOMES Improved integration between urban/rural opportunities and needs. Actively create more inclusive settlement in especially Traditional **INTEGRATED** Integrated Authority Areas. AND **INCLUSIVE** and Inclusive 3. Transformation of spatial form use and control of space to be more LAND **Province** integrated and inclusive for urban communities. DEVELOPMENT 4. Reduce urban sprawl through structured densification and compact development.

The impacts related to the spatial development outcomes and objectives can be grouped or discussed within the following themes:

- Spatial integration.
- Clustering of social and economic activities in development nodes.
- Spatial transformation and restructuring.

4.1.1 SPATIAL INTEGRATION

4.1.1.1 Improve Accessibility and Movement

STRATEGIC OBJECTIVE: Improved integration between urban/rural opportunities and needs.

The identification and classification of movement routes in the Province is based on the function/role, and intensity of use or development along the route/corridor. The Province recognises the significance of the national and provincial corridors such as the N2 and N3 and the opportunities it creates. It also recognises the significance of routes providing internal and external linkages within and around the Province. Other corridors include the main arterial roads that define the spatial structure and drives settlement pattern, and the major local link roads between different settlements. Improved accessibility and movement thus not only relate to the identification of corridors and road networks that link nodal areas, settlements, and productive areas within the province, but also the important linkages to areas outside of the Province.

Specific **spatial strategies** will include:

- Improved integration between urban and rural opportunities and needs by improving access roads to rural areas that can significantly connect to intra and inter-regional economies.
- Reduce Travel Time between residential and production areas.

4.1.1.2 Identify Integration Zones

STRATEGIC OBJECTIVE: Improved integration between urban/rural opportunities and needs.

The identification of integration zones can actively start redressing the remaining segregated spatial planning structures and developing area specific interventions within those zones. The integration zones are aimed at integrating marginalised areas such as townships, informal settlements, and rural settlements to economic nodes and areas of potential growth. Linkage of these zones to a development node and the connection between these areas within the integration zone via transportation routes must be considered.

Specific **spatial strategies** will include:

 Identification of integration zones by actively redressing the remaining segregated spatial planning structures and developing area specific interventions within those zones.

4.1.2 CLUSTER SOCIAL FACILITIES AND ECONOMIC ACTIVITIES IN DEVELOPMENT NODES

STRATEGIC OBJECTIVE: Actively create more inclusive settlement in especially Traditional Authority Areas.

The clustering of a range of social services and economic opportunities at central locations to improve access and restructure the existing spatial pattern is critical in the province. The establishment of a hierarchy of development nodes will assist in allocating facilities of various types to their most appropriate locations, based on the facility threshold and the appropriate number of people required within the catchment of that facility. Clustering will create opportunities for facility multi-use, sharing and land savings, cooperation and joint financial planning between the departments and the private sector. If this is achieved within nodes, it can contribute positively to service delivery, spatial restructuring, and financial sustainability.

Development nodes serve as points in the spatial system where potential access to a range of opportunities is greatest, where networks of association create diversity and where people can satisfy the broadest range of their day-to-day needs. They must be regarded as primary devices on which to anchor the structure of the regional and sub-regional spatial system.

4.1.2.1 Improved Access to Social Facilities and Basic Services

Different communities have different priorities in terms of social facilities, and different types of facilities will work efficiently in certain communities. The important issue is not to predetermine the form of all facilities, but rather the positioning of social institutions valued by the community. Community facilities are important place-making elements, and they should be deliberately used, in combination with public space, to make memorable places. They are dependent upon public support and play an important integrating function in and between communities/settlements. They should therefore be located in places of high accessibility and made accessible to the local and surrounding communities. In this way, they bring together people from different local areas and are not tied to the dynamics of any one community.

Social facilities and basic services that are planned well, designed in a way that it can be used for more than one use and located in highly accessible areas (e.g., along transport routes and areas with adequate available services) have different benefits. On the one hand it can attract economic activities and contribute to densification and diversification; but it can also promote nodal development, limit sprawl, and reduce transport costs.

Improved access to and the appropriate level of social facilities contributing to healthy, educated, active and safer communities through the identification and establishment of key multi-sectoral service points (as per the proposed nodal structure) thus becomes critical.

The structuring and development of secondary towns to provide a social and economic linkage between large economic centres and peripheral areas must be emphasised.

Specific spatial strategies will include:

- Improved access to and the appropriate level of social facilities contributing to healthy, educated, active and safer communities. (e.g., Health, Education etc). Identification and establishment of key multi-sectoral service points (as per the proposed nodal structure and associated interventions).
- Inkululeko as a basis for entrenching coordinated and integrated inter-departmental service delivery and development in KZN, by focussing on a single investment in an area by all departments to address social infrastructure as well as enablers for economic activities.

4.1.3 Spatial Transformation and Restructuring

4.1.3.1 Spatial Planning Systems

STRATEGIC OBJECTIVE: Transformation of spatial form, use and control of space to be more integrated and inclusive for urban communities.

The PSDF must provide clear guidance on directions for future settlement growth and proposed release of land for development. As such, it must facilitate the evolution of a settlement pattern that reflects strong functional linkages between the continuum of settlements ranging from rural to formal urban settlements. This pattern has several benefits, including:

- Maximizing lifestyle choice and where people want to live and attracting middle to higher income earners into an area.
- Providing an effective framework for the service delivery and application of service standards based on character of the area.
- Unlocking economic development potential at different scales thus enabling remote rural areas to realize their agricultural economic development potential.
- Improving economic performance of the region.

A convenient settlement improves the level of choice, encourages creativity and investment while a less convenient settlement imposes a lifestyle on people and results in unnecessary expenses.

Settlements should be equitable in the sense that they should provide a reasonable access to opportunities and facilities to all. It is neither possible nor desirable for settlements to be homogenous hence an emphasis on choice. Settlements should be located along the main transportation routes and held together by a web of local access roads and public facilities. At a regional level, they should be knit together by a system of regional access routes.

Specific spatial strategies will include:

- Provide clear guidance on directions for future settlement growth and proposed release of land for development.
- Develop clear guidelines for effective spatial planning tools for the settlement continuum (e.g., urban settlements, peri-urban estates, dense rural settlements, scattered rural settlements.

4.1.3.2 Promote Compact Development and Densification

STRATEGIC OBJECTIVE: Transformation of spatial form, use and control of space to be more integrated and inclusive for urban communities.

The promotion of compact development will mitigate the negative impact of sprawling settlements by encouraging the planning of co-ordinated, harmonious, sustainable, and compact settlements. Growth in peripheral areas is an inevitable process and needs to be managed to facilitate the establishment of planned settlements and to promote sustainable development. Compact development will further contribute to the protection of sensitive environmental and agricultural areas and will ensure effective and efficient social, engineering, and other services.

Targeted and structured densification can be achieved in a number of ways. This can include limiting and containing the urban development footprint within the Urban Development Line (urban edge / growth boundary); the application of growth boundaries and other growth management techniques; the delineation of settlement edges in rural areas (outer boundary) beyond which residential and other physical development will be discouraged; promoting higher "net" residential densities in strategically located areas within core areas, new growth areas and areas prioritised for infrastructure development; and creating new residential development opportunities that connect fragmented areas and consolidate urban form around high accessibility routes and nodes.

The local level spatial development plans must provide context to targeted densification at a local level, while the PSDF can only provide guidelines in respect of the densification framework for the Province. Nodes and corridors should become the focus of densification, although the intensity and application of densification will differ. Measures and targets for densification within each of these categories will differ, depending on the unique situation within each municipal area. Focus areas for targeted densification should include the following:

Identified nodes, as reflected in the Development Node sub-frame. Nodes are intended to give
effect to the ordering and location of services and facilities, in a manner that promotes
accessibility and efficiency in service delivery. This is critical for the performance of the Province

as a whole and land use integration. As such, the clustering of various activities at appropriate and accessible nodal locations provides the Province with a network/system of opportunity centres. Some of these nodes represent major economic growth centres, such as eThekwini, that benefited from significant public and private sector investment in services and infrastructure. Others are in previously disadvantaged areas, which have suffered from institutionalised neglect.

- Nodal areas along corridors and transport routes. This must include the nodal areas identified in the Corridor plans developed for the N3, the N2 North and South, as well as the Umhlathuze-Vryheid and the Vryheid-Emadlangeni-Newcastle-Ermelo (VENE) corridor. Densification cannot be applied evenly along different corridors or at the same scale across the board on a provincial level. Nodal points along corridors will provide an indication of the applicability and the level of densification to be applied.
- Areas under development pressure that require specific actions and interventions to improve an
 existing situation. These areas can include, amongst others, coastal areas, dense settlements on
 the urban periphery, informally settled areas, and urban areas requiring regeneration.

Specific spatial strategies will include:

- Promote compact development and targeted densification to reduce sprawl.
- Develop densification frameworks as part of local level spatial development frameworks.

4.1.3.3 Integrated and Sustainable Human Settlement Development

STRATEGIC OBJECTIVE: Transformation of spatial form, use and control of space to be more integrated and inclusive for communities.

The KZN PSDF perceives housing as a basic human right that must meet the basic needs of people at both household and community level. The national government defines sustainable human settlements in the Breaking New Ground (BNG) policy (p6), as: "well-managed entities in which economic growth and social development are in balance with the carrying capacity of the natural systems on which they depend for their existence and result in sustainable development, wealth creation, poverty alleviation and equity".

The fundamental tenets of human settlement are basic services, security of tenure, social facilities, and shelter. Human settlements are the spatial dimension as well as the physical expression of economic and social activity. Access to employment opportunities and sensitivity to biodiversity enhances the sustainability of human settlements. Sustainable human settlements therefore define and condition the relationship between where people live, play and work on the one hand and how this occurs within the confines of the natural environment on the other.

It is therefore imperative that the fundamental provincial objective relating to the creation of sustainable and integrated human settlements must relate to the advancement of spatial transformation and consolidation of human settlements.

Emerging spatial strategies will include:

- o Implementation of a radical Land Reform Programme.
- o Upgrading and integrating informal settlements into the urban management system.
- Deliver a range of housing options and housing typologies to attract different market segments of appropriate quality and innovation.
- o Packaging new projects using the Integrated Residential Development Programme.
- Facilitate the development of social housing in the gazetted Restructuring Zones.
- Prepare rural settlement plans.
- Develop site and service schemes.
- Use housing as a catalyst for socio-economic development.
- o Identify, acquire, and release of well-located land.
- Use alternative technologies (alternative energy provision or water harvesting in all projects).

4.2 OUTCOME 2: SUSTAINABLE PROVINCE

SPATIAL DEVELOPMENT OUTCOMES STRATEGIC GOAL STRATEGIC OBJECTIVES 5. Sustainable use and protection of critical natural resources needed as basis for health and development. 6. Sustainable land use management and spatial planning towards sustainable settlements.

The impacts related to the spatial development outcomes and objectives for a sustainable province can be grouped or discussed within the following themes:

- Protection of critical natural resources.
- Water resource and quality management.
- Human Vulnerability and Environmental Change.

4.2.1 PROTECTION OF CRITICAL NATURAL RESOURCES

STRATEGIC OBJECTIVE: Sustainable use and protection of critical natural resources needed as basis for health and development.

The increasing loss of natural habitat and changes in land cover are major drivers of biodiversity loss. These losses and changes pose significant challenges for meeting biodiversity conservation goals and targets. The main drivers of change in the landscape contribute to the direct loss of natural habitat. These effects may be direct (e.g., loss of habitat or extraction of water), indirect (e.g., pollution transported downstream), induced (e.g., associated industries and settlement) or cumulative (e.g., collective impacts on water quality and quantity)." The main challenge in KZN is thus to conserve biodiversity and natural habitat and strive toward conserving these areas in their near natural state.

Emerging spatial strategies will include:

- Protection of core bio-physical assets towards an integrative economic structure to serve various communities.
- Preparation of spatial linkage plans for core areas where critical biodiversity occurs.
- Prepare appropriate restrictive zoning categories and development control measures and guidelines for ecologically important areas.
- Adhere to regulatory requirements for development that is proposed within critical biodiversity areas.
- Participate in the National Protected Area Expansion.

4.2.2 WATER RESOURCE AND QUALITY MANAGEMENT

STRATEGIC OBJECTIVE: Sustainable use and protection of critical natural resources needed as basis for health and development.

The management of water resources requires the protection of water resource assets to secure a sustained supply of water and ecosystem goods and services over time. In addition, it must also reduce vulnerability to the effects of climate change. To this end, a sustained supply of water requires the management of natural assets (water resources management) and the introduction of new infrastructure (water services management). The impact of current and proposed development activities on the water resources of the Province is critical and goes hand in hand with investment into water services and sanitation infrastructure.

Emerging spatial strategies will include:

- Protect and use water resources sustainably and ensure that it is well-managed by both authorities and communities.
- Strategic investment in the maintenance and rehabilitation of water ecosystems.
- Declare strategic water source areas and critical groundwater recharge areas as protected areas.

4.2.3 HUMAN VULNERABILITY AND ENVIRONMENTAL CHANGE

STRATEGIC OBJECTIVE: Sustainable land use management and spatial planning towards sustainable settlements.

Poverty and vulnerability are interlinked and include various factors and agents influencing human well-being. Understanding the interrelationships between these factors is complex and demands an interdisciplinary approach. It is however becoming clear that issues of environmental degradation, water quality and scarcity, and limited access to agricultural production potential decrease the coping capacity of poor and vulnerable communities. Poverty and unemployment forces people to exploit natural resources as a livelihood strategy and as a result fall victim to environmental degradation. Changes associated with a changing climate may further impair the resilience of communities.

Emerging spatial strategies will include:

- Improved settlement planning toward sustainable communities.
 - → Determination of rural settlements and associated development boundaries.
 - → Diversification of settlement structures to be more economically sustainable.
 - → Systematic targeting of provincial priority housing projects.
 - → Accelerate the provision of basic services and infrastructure to all households in rural and impoverished areas.
 - → Preparation and effective implementation and use of environmental management instruments.
- Address issues of poverty and settlement planning on par with issues of ecological vulnerability:
 - → Promote strategies to optimize resource deficiency.
 - → Implementing alternative energy options to reduce high dependencies on natural wood resources for domestic energy needs
 - → Inclusion of responsible waste management practices and appropriate waste collection services.
 - → Improve the traditional land allocation system.
- Sustainable wastewater solutions in spatial planning and land use management across the province.
- Inclusion of stormwater solutions within all land use development process to protect lives, infrastructure, and productive land
- Implementation of provincially suitable renewable energy infrastructure as integral part of spatial planning and land use management.

4.3 OUTCOME 3: RESILIENT PROVINCE

DEVELOPMENT
OUTCOMES

Resilient
Province
RES

SPATIAL

STRATEGIC GOAL

STRATEGIC OBJECTIVES

ESTABLISHING A
RESILIENT PROVINCE

- 7. Reduce environmental degradation and loss which increases human vulnerability.
- 8. Create social, economic, and ecological resilience in spatial planning and land use management.

The impacts related to the spatial development outcomes and objectives for a resilient province can be grouped or discussed within the following themes:

- Environmental degradation.
- Human and natural resilience in spatial planning.

4.3.1 ENVIRONMENTAL DEGRADATION

STRATEGIC OBJECTIVE: Reduce environmental degradation and loss which increases human vulnerability.

Development pressures in the province, such as population growth, a dispersed settlement pattern and unsustainable use of natural resources, leads to negative environmental impacts and degradation. These negative impacts must be reversed and halted by more effective land use management instruments and effective implementation thereof.

Emerging spatial strategies will include:

- Ensure that spatial planning and land use management considers the impact of and plan for improved adaptation to Climate Change.
 - → Incorporation of disaster risk analysis in spatial planning and land use decisions.
 - → Spatially delineate high flood risk areas, develop a disaster response strategy for settlements within these areas and implement a programme to relocate such settlements.
 - → Identify interventions to maximise community based natural resource management programmes, focused in those areas where land degradation has become a concern.

4.3.2 HUMAN AND NATURAL RESILIENCE IN SPATIAL PLANNING

STRATEGIC OBJECTIVE: Create social, economic, and ecological resilience in spatial planning and land use management.

KZN is inherently vulnerable to the impacts of economic and environmental shocks, due to its social, economic, and ecological characteristics. These vulnerabilities must be reduced by addressing the conditions determined by socio-economic, physical, economic, and environmental factors which increases the susceptibility to the impacts of hazards. This will require effective adaptation planning that integrates biophysical and socio-economic aspects of vulnerability and resilience. An integrated approach will also address the relationships between climate change, disaster risk and socio-ecological vulnerability.

Emerging spatial strategies will include:

- Ensure that spatial planning and land use management integrates effective adaptation responses.
- o Implement effective adaptation planning:
 - → Spatial vulnerability and risk assessments to identify priorities.
 - → Interventions to increase resilience and adaptive capacity in human, economic, environment, physical and ecological infrastructure vulnerability.
 - → Integration of adaptation responses into spatial planning and land use management instruments.

- Increased flexibility in spatial planning and land use management to enable economic and social adaptation.
 - → Develop land use schemes and controls that introduce simplified development application procedures related to certain types of applications.
- Rural spatial structuring towards increased self-reliance and reduction in economic vulnerability.
 - → Develop interventions to improve the environmental management capacity of Traditional Leaders and development environmental planning standards that are aimed at creating ecological resilience.

4.4 OUTCOME 4: PRODUCTIVE AND EFFICIENT PROVINCE

SPATIAL DEVELOPMENT OUTCOMES

STRATEGIC GOAL

STRATEGIC OBJECTIVES

Productive and Efficient Province PRODUCTIVE AND
EFFICIENT
DEVELOPMENT OF
THE SPATIAL
ECONOMY

- 9. Develop and promote the agricultural potential of KZN.
- 10. Develop and promote the biodiversity economy in KZN
- **11.** Provide regional infrastructure networks to support economic production.
- 12. Focus spatial economic development in strategic areas.

The outcome and its associated objectives aim to achieve greater spatial efficiency and making productive use of available land and infrastructural resources, trough focussing on the following key impacts:

- o Protect high potential agricultural land for economic development.
- o Increased access to and development of productive agricultural land.
- Regional infrastructure networks to support economic production.
- Invest in the green and biodiversity economy.

4.4.1 AGRICULTURAL DEVELOPMENT

4.4.1.1 Protect High Potential Agricultural Land for Economic Development

STRATEGIC OBJECTIVE: Develop and promote the agricultural potential of KZN.

Agriculture and farmland are an integral part of the economy, environment, and overall quality of life. Appropriately, managed agricultural lands can provide groundwater recharge, wastewater infiltration, flood prevention, and habitat protection. Although some transformation and conversion of agricultural land is inevitable, the protection of high potential agricultural land is critical. To this end, the agricultural authorities regard land with a high agricultural potential as a scarce non-renewable resource and accordingly applies a risk averse and cautious approach when development of such land for purposes other than agricultural production is proposed. It is this imperative to support this risk-averse approach as the basis for decision-making that leads to the requirement for legal protection of land with high potential for agriculture.

Settlement development and the protection of natural resources, such as good agricultural soils, are two of the primary planning goals. Outward expansion of settlement occurs at the expense of high value, well located agricultural land near urban markets. Such land is a scarce resource, which should be set aside for productive agriculture and food security. If growth is properly directed, the two goals rarely come into conflict. If it is not, neither goal can be achieved. Therefore, programmes for the preservation of agricultural land should be integrated with the general settlement growth management programs.

Specific spatial strategies will include:

- Identification of higher potential agricultural land and distribution of a common dataset to all departments and municipalities for spatial planning and land use management.
- Ongoing monitoring of high potential agricultural land and the transformation thereof.
- Alignment with spatial planning frameworks and the High Potential Agricultural land as identified within the Preservation and Development of Agricultural Land Bill.
- Minimising settlement concentrations within high potential agricultural areas by directing nodal concentrations elsewhere and applying settlement growth boundaries.

4.4.1.2 Increased access to and development of productive agricultural land

STRATEGIC OBJECTIVE: Develop and promote the agricultural potential of KZN.

The agriculture sector is the main driver in the primary sector of the Province; produces almost 30% of national agricultural output; and hence contributes significantly to food security in South Africa. Increased access to and development of productive agricultural land for economic development and food security at provincial level is thus of grave importance. The linkage and development of this economic sector to large-scale agriculture, agro-processing, agro-eco enterprises, tourism and natural resource management and protection, play a key role in creating economic opportunities, and addressing poverty and unemployment. The implementation and establishment of viable regional Agri-Hubs and Farming Production Support Units (FPSUs), in line with the programmes of the National Department of Agriculture, Land Reform and Rural Development must be supported. In addition, agro-processing and rural economic activities must be promoted in local towns and rural service nodes.

Specific spatial strategies will include:

- Alignment between rural service nodes and Farming Production Support Units in support of each other.
- o Identification and development of infrastructure (road, rail, water, and Electricity) to integrate agricultural activities between rural settlements and agricultural production areas.
- Balance agricultural and water production capacities within quaternary catchment areas to identify appropriate farming capabilities.

4.4.2 GREEN ECONOMY

STRATEGIC OBJECTIVE: Develop and promote the biodiversity economy in KZN.

Working towards a green economy is one of the strategic priorities identified in the National Strategy for Sustainable Development (NSSD) and is identified as an area of opportunity for rural development and prosperity through potential job creation and the development of biodiversity nodes.

The green economy relates to economic goals based on ecological sustainability and built on a culture that recognises that socio-economic systems are dependent on and embedded in ecosystems. Opportunities can include environmentally friendly infrastructure; green (renewable) energy generation and green manufacturing; public employment schemes to support natural resource management; environmental programmes; and the identify biodiversity economy nodes.

Emerging Strategies will include:

- Identify key green economy areas associated with bioproduction, tourism and other environmental assets.
- Ensure that spatial planning and land use management contribute to the existing Biodiversity
 Economy Transformation Nodes.
- Improve access to relevant resources with potential for promoting the biodiversity economy (wildlife and bioprospecting) by identifying additional opportunity areas for expansion of the biodiversity economy.

4.4.3 REGIONAL INFRASTRUCTURE NETWORKS TO SUPPORT ECONOMIC PRODUCTION

4.4.3.1 Development Corridors

STRATEGIC OBJECTIVE: Provide regional infrastructure networks to support economic production.

At a national and regional scale, KwaZulu-Natal provides an important gateway for both the import and export of goods through the Ports of Durban and Richards bay. The SIP 2 Corridor is nationally the most significant corridor to the province, linking the Port of Durban, via the N3 route, to Gauteng and other African Countries. This route also includes multiple commercial pipelines of goods and crude oil, important to the national economy. The protection of the flow of goods (by road, rail, or pipeline) along the N3 route as well as the further development of potential beneficiation along key points of the corridor is an important anchor for the development of towns within the central parts of the province.

The development of the other major corridors such as the N2 north and south (to Mozambique and the Eastern Cape respectively) will further continue to provide not only intraregional accessibility and distribution of goods, but also serve as a development anchor for settlements along the entire coastline of the Province.

An important emerging regional development corridor is identified between Richards Bay – Ulundi – Vryheid and Mpumalanga. This corridor will contribute not only to the economy of the province, but also assist in the rural economies where this (and other corridors) intersects with rural settlement areas.

As part of a focussed strategy for rural development a system of regional and local transport routes has been identifies, which link a number of areas. These routes should be seen as activity and investment lines. The structure they give to the area is articulated in the form of movement patterns and systematic distribution of land uses in space.

However, not all regional routes are the same in terms of the intensity of use and ability to attract investment, services, economic activities, and settlement. Generally, larger routes linking generators of movement and investment have a greater generative capacity than smaller routes. As such, regional facilities and services should gravitate towards these areas, while smaller facilities, requiring smaller thresholds should be located along smaller routes. This has an impact of reducing spatial marginalization, increasing equitable access to all level of services, and promoting investment. The location of facilities along major routes recognizes the importance of choice to the rural communities with respect to services such as education, health, and welfare facilities.

Specific spatial strategies will include:

- Integrated network of development corridors with varied strategic functions.
- Identification of major economic corridors linking economic production and distribution areas with markets.
- Identification of rural linkages and development corridors to improve rural accessibility to regional economic opportunities.
- o Provincial alignment and implementation of NSDF spatial intervention areas.
- Increasing the use of freight rail systems.

4.4.3.2 Development Nodes and Service Points

STRATEGIC OBJECTIVE: Provide regional infrastructure networks to support economic production.

Both economic growth and social development requires an ordering and location of services and facilities, in a manner that promotes accessibility and efficiency in service delivery. This is critical for the performance of the Province as a whole and land use integration at a localised level. As such, the clustering of various activities at appropriate and accessible nodal locations provides the municipality with a network/system of opportunity centres. Some of these nodes have benefited from public and private sector investment in services and infrastructure, which needs to be managed and maintained. Others are located in previously disadvantaged areas, which have suffered from institutionalised neglect. Although the nodes have contrasting characters, profiles and management issues, they cumulatively accommodate the majority of economic activities, employment prospects, an existing/growing residential stock, and access to community facilities and services. As such, the strength and feasibility of the nodal points are linked to the functioning and health of their catchment

areas. The concentration of activities in and around these areas will stimulate further development of higher order activities.

Specific **spatial strategies** will include:

- Development on a nodal network, with varied nodal functions, in support of each other and collectively aimed at regional and provincial development.
- Focussed integration, structuring and densification strategies and programmes within key nodes.
- Alignment of a nodal hierarchy with other spatial strategies such as corridor development and infrastructure investment.
- o Identification and development of focussed economic zones (associated with nodes) for regional economic anchors and sector specific development (e.g., SEZs).

4.4.3.3 Long Term Planning of Regional Infrastructure

STRATEGIC OBJECTIVE: Provide regional infrastructure networks to support economic production.

The intended development of investment corridors and nodes requires improved long-term planning of infrastructure at a regional scale, in order to provide the necessary capacities within the investment zones to attract and accommodate the anticipated growth. This will require a direction towards more data driven and pro-active planning of infrastructure to not only respond to demands, but also guide/direct intend development. The use of infrastructure provision as an instrument for regional spatial structuring will assist to achieve the desired spatial structure within the Province.

The availability of natural, human, and financial resources will determine the strategic rollout and timing of such infrastructure investments and should therefore be used to direct strategic investments into areas where the greatest socio-economic impacts will be achieved.

Specific spatial strategies will include:

- Increased monitoring and modelling of spatial trends and future demands for services across the province.
- o Improved integrated planning of all services within spatial and land use planning. (e.g., alignment between water and sanitation planning within settlements).
- Pro-active determination of major bulk infrastructure routing and supply points.
- Systematic establishment of an acceptable, geographically varied Minimum Basic Service Levels.

4.4.3.4 Data Connectivity

STRATEGIC OBJECTIVE: Provide regional infrastructure networks to support economic production.

Spatially, there is a high level of correlation between the distribution of areas with low data connectivity levels and areas of low development levels. There is also an established understanding that future social services and economic activities are greatly linked to access to data.

Economic activities are increasingly moving online in all sectors and also, for both large corporate businesses and small businesses. Increased data connectivity can also serve as an equaliser by enabling even rural areas to participate within economic activities. Socially, data connectivity provide access to education, population services, grant payments and electronic government services.

Although data connectivity is mainly driven by private sector providers, market demand and affordability, and spatial planning could contribute to directing these services through integrated infrastructure provision and dedicated poverty alleviation strategies.

Specific spatial strategies will include:

- o Identify strategic geographical target areas for the rollout of ICT infrastructure.
- Establish Towns and Small Towns as centres where knowledge-based economic opportunities and ICT access nodes are made available to local communities and businesses in the broader rural and settlement communities that fall within the areas of influence of such towns.

4.4.4 FOCUS SPATIAL ECONOMIC DEVELOPMENT IN STRATEGIC AREAS

STRATEGIC OBJECTIVE: Focus spatial economic development in strategic areas.

Apart from investment concentration along development nodes and corridors, the broad economic sectors which drives the movement of people, goods and services along those nodes and corridors also needs to be targeted spatially.

This will include the identification of broad economic investment sectors linked to the Province's strategic locality and competitive advantages such as the development of the **Blue Economy**, the **Green Economy** (see 4.4.2), and the **Knowledge Economy**. Each of these economics may include primary, secondary, and tertiary economic activities, but need to be acknowledged as key economic opportunities which need to be developed and considered in regional spatial planning.

Specific **spatial strategies** will include:

- Develop the Blue Economy by identifying and integrating key maritime assets and opportunities in line with the Operation Phakisa Programme.
- Identification and integration of Technology Hubs within regional spatial development strategies.
- Establish local and rural centres of learning excellence in capacity building and skills development in all sectors of the local economy with a focus on the knowledge-based industries.

4.5 OUTCOME 5: WELL-MANAGED PROVINCE

| SPATIAL DEVELOPMENT OUTCOMES | STRATEGIC GOAL | STRATEGIC OBJECTIVES |
|------------------------------|--|--|
| Well-managed Province | WELL-MANAGED SPATIAL & LAND DEVELOPMENT PROCESSES | 13. Spatial planning and development application procedures are efficient and streamlined to contribute to the rapid development of the province. 14. Accountable and capacitated spatial governance systems. 15. Improved role-players participation in land use decision making. |

The outcome and its associated objectives aim to achieved improved spatial governance, trough focussing on the following key impacts:

- Vertical and horizontal alignment and co-ordination.
- Improved Spatial Governance.
- Participation in decision making.

4.5.1 Vertical and Horizontal Alignment and Coordination

STRATEGIC OBJECTIVE: Spatial planning and development application procedures are efficient and streamlined to contribute to the rapid development of the province.

The objective requires the adoption of an integrated approach in spatial planning and land development, particularly by different spheres of government and sectoral role-players. This alignment is important for the co-ordination and timing of resources to achieve the desired spatial structure and development levels.

Furthermore, although vertical alignment represents alignment between various tiers of government, horizontal alignment refers to cross border alignment at regional and local scales, but also between various service authorities and infrastructure providers to ensure co-ordination in focussed investment areas.

Lastly the co-ordination of spatial planning and land use management refers to the management of an improved integration between the dual land management systems employed by both Local Municipalities and Traditional Authorities in most of the municipalities within the Province.

Specific spatial strategies will include:

- Integration of spatial planning within various tiers of government by using the PSDF as a coordinating mechanism.
- Systematic alignment of financial resources towards the desired spatial structure of the province.
- o Increased departmental inputs into local spatial planning and land use management.
- Systematic implementation and co-ordination of online land use application systems.

4.5.2 IMPROVE SPATIAL GOVERNANCE

STRATEGIC OBJECTIVE: Accountable and capacitated spatial governance systems.

The achievement of the desired spatial transformation within the province will require both strategic plans, but also a level of accountability towards achieving specific spatial targets. This objective will require both specifically expressed targets, but also an increase in the capacity of role-players involved in the achievement thereof as well as the accountability of such role-players.

The envisaged level of monitoring an adjustment have not been fully implemented in the past and may have contributed to the lack of spatial transformation within the Province. The mechanisms involved in municipal organisational management have a significant role to play in the development of capacity and the measurement of performance in this regard.

Specific spatial strategies will include:

- Establishment of both provincial and local spatial transformation targets.
- Establishment of a spatial monitoring and assessment system linked to structures and individual performance.
- Continued training and capacity building programmes towards improved spatial planning and land use management.

4.5.3 Participation in Decision Making

STRATEGIC OBJECTIVE: Improved role-players participation in land use decision making.

Participation in spatial planning and land use management within the Province is driven by the fact that land is not always owned by the authorities planning on it and such planning furthermore impacts on various settlements, communities, and service authorities. Furthermore, the implementation of a number of spatial strategies are also not the responsibility of those involved in the spatial planning. It is therefore important to ensure that various key role-players are sufficiently included in the planning and decision-making processes which impacts on those role-players.

With KwaZulu-Natal, the recent community satisfaction surveys indicated that a fairly low percentage of the public engaged in the public spatial planning processes. Furthermore, the involvement of the traditional communities within planning has also been lacking. The objective therefor aims to improve the participation of various role-players by focusing on the mechanisms and motivation of participation with spatial planning and land use management processes.

Specific spatial strategies will include:

- Dedicated spatial planning and land use management capacity building programmes to specific groups such as Municipal Councils, State Owned Enterprises, Traditional Councils, Implementing Departments, and the public. (The Department of Agriculture, Land Reform and Rural Development is in process of developing a framework for such SPLUMA related capacity building)
- Systematic implementation and co-ordination of online land use application systems.

5 PROVINCIAL SPATIAL DEVELOPMENT FRAMEWORK

5.1 Spatial Development Sub-Frames

The spatial development framework is developed and informed by subframes, which relates to the spatial concepts outlined above. The intention of the subframes is to provide a spatial representation of the desired spatial and land use pattern for the province. The subframes were developed represent the development policies strategies and objectives of the province in a spatial manner, where possible. The subframes include the following:

FIGURE 12: SPATIAL DEVELOPMENT SUB-FRAMES



The intent of this sub-frame is to ensure the building blocks of natural resources, which includes water, biodiversity and agricultural land are protected, effectively managed and used in a sustainable manner.



- · Protect the primary resources necessary for the development of the Rural Space Economy.
- · Protect and develop productive agricultural land to improve food security within the province.
- · Identify areas for agricultural production and processing as input to other secondary sectors within the provincial economy.
- · Identify linkages required within the productive rural regions to better integrated rural settlements with agricultural economic opportunities..

Cross Border Alignment and Linkages



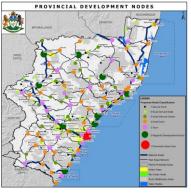
· Strengthen and enhance linkages to neighbouring countries and provinces through supporting and coordinating cross border spatial planning issues relating to spatial connectivity and linkages (transport and logistics), energy networks, ecological networks, and water availability.

Provincial Development Corridors, Accessibility & Cross border alignment



- · Identify key regional linkages to improve accessibility to all areas and economic regions within the province.
- · Identify national and international linkages and development corridors which impact on the provincial economic anchors, infrastructure, and growth opportunities.

Development Nodes



Sustainable & Integrated Human Settlements



- · Concentration of people, movement and production in certain points provides for cost effective service delivery,
- · Enables better access to social facilities and opportunities
- · Reduces Urban sprawl onto either sensitive environmental resources and/or productive agricultural land
- · The mere focus on nodes will also address the inefficient and fragmented morphological form and allow for nodes to become more efficient and sustainable

Creation of sustainable and integrated human settlements that relate to the advancement of spatial transformation and consolidation of human settlements.

Integration Zones



The intention of these zones are to spatially indicate areas that require specific interventions in terms of integration.

5.1.1 NATURAL RESOURCE PROTECTION

The natural resource system in the Province forms the foundation that enables all human life and activities. As such, it must be protected from disturbance and displacement by future development and must be used, managed and protected with great care. It is one of the Provinces most strategic assets and includes some of the country's national and international protected areas (e.g., Maloti Drakensberg Trans-frontier Conservation Area; Lubombo Trans-frontier Conservation Area, marine protected areas), irreplaceable agricultural areas and strategic surface and groundwater water production areas.

The spatial distribution of biodiversity areas of significance is considered vital to provide the spatial framework for future development planning, particularly indicating those areas where development needs to be avoided or carefully managed. The natural assets perform a substantial and significant role in conserving biodiversity as well protecting the quality of life of the residents of the Province. Of vital importance is the protection of protected areas, ecological, agricultural, water and heritage resources through well managed spatial planning and development.

From a PSDF perspective, it is thus critical to ensure that the following guiding areas of interventions are noted:

5.1.1.1 Priority Environmental Areas

The priority environmental areas are defined by the formally protected areas within the province and viewed as some of the core environmental areas. These areas serve as environmental anchors to the biodiversity network within the province and include large areas such the Ukhahlamba-Drakensberg World Heritage Site (233484ha) the iSimangaliso Wetland Park (324441ha), as well as various other smaller nature reserves, protected environments, and protected environments. The area also private and other parks which are found near the protected environmental areas and form part of the extended environmental resource network and tourism regions.

5.1.1.2 Critical Biodiversity Areas (CBAs)

The provincial spatial framework for the conservation of biodiversity (KZN Biodiversity Plan) identifies and map areas that are important to meet biodiversity conservation targets on a provincial scale. On the district scale, Biodiversity Sector Plans (BSP) are developed to refine and supersede the provincial dataset. These plans provide a biodiversity mapping profile that covers the terrestrial, aquatic and marine environs of a district and is reflected as a biodiversity sector map consisting of two main layers namely Critical Biodiversity Areas (CBAs) and Ecological Support Areas (ESAs). These spatial biodiversity priorities have implications for development, which are expected to be consistent with specific land use objectives and guidelines that are aimed at safeguarding the country's biodiversity resources.

5.1.1.3 Biodiversity Landscape Corridors

The identified biodiversity landscape corridors are regionally critical conservation areas which are linked in a continuous network of ecosystems and bioregions traversing the province between the

Drakensberg and the Indian Ocean. These areas were identified by Ezemvelo KZN Wildlife, by considering extensive environmental research into bio-resources throughout the province as part of the formulation of a Critical Biodiversity Plan for the province. These corridors are not viewed as absolute "no-go" areas, but rather highlighted as areas of environmental significance to the sustainable development of the entire province. Where economic opportunity (such as tourism development) and high social need exist within these biodiversity landscape corridors, it implies both that the rich natural environment should contribute to the address such needs and potential, and further that any interventions in these areas need to consider the impact on such important regional ecological corridors. These corridors are however perceived as areas where extensive densification would be discouraged, and sensitive development promoted.

5.1.1.4 Agricultural Production Areas

The agricultural production areas layer represents relatively high agricultural production areas, which are not located within biodiversity areas or combined with other potential economic sectors. These are highlighted by this category to identify and promote areas with the potential to make a significant contribution through agricultural production. Although successful farming practices are already occurring on some of these areas, it is proposed that underutilised agricultural land within these zones are more effectively utilised for sustainable agricultural production. Associated interventions may include agriculture specific infrastructure, skills development, market access interventions etc.

5.1.1.5 Low Potential Agricultural Areas

These are areas where the agricultural potential is relatively low, although limited and communal agricultural activities area often found within these areas. It is evident that it is found at the interface between the more productive agricultural areas and the rural settlement areas. These regions also have communities (although sparsely distributed) residing within these areas. It is therefore important that this category is not neglected from public and private interventions and as the various departmental programmes are inclusive in nature, these areas should also benefit from it. It is anticipated that the intensity of such programmes and the total portion of resource allocation to these areas would be less than the identified categories as well as the key intervention areas identified previously.

5.1.1.6 Strategic Water Source Areas

The Strategic Water Source Areas: Management Framework and Implementation Guidelines for Planners and Managers (2018) describes SWSAs as "are areas of land that either: (a) supply a disproportionate amount of mean annual surface water runoff in relation to their size and are considered nationally important; or (b) have high groundwater recharge or where the groundwater forms a nationally important resource or both; or (c) areas that meet both criteria (a) and (b). They are vital for water and food security in South Africa and also provide the water used in generating most of the electricity." As such, these are of critical importance for the natural resource protection framework.

NATURAL RESOURCE PROTECTION MOZAMBIQUE **ESWATINI** MPUMALANGA FRFF iSimangaliso STATE MPA Indian Ocean KwaDukuza LESOTHO Ballito LEGEND ietermaritzburg Proposed Nodal Classification National Roads Main Rivers Marine Protected Areas Primary Catchments Aliwal Priority Environmental Areas Strategic Water Source Areas World Heritage Site Buffer Layer 1 World Heritage Site Buffer Layer 2 Shepstone Protected Areas 5km Buffer

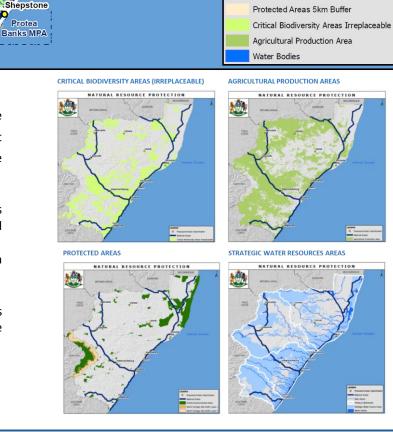
FIGURE 13: PROTECTION OF NATURAL RESOURCE SUB-FRAME

INFORMANTS

CAPE

The composite Natural Resource Protection mao consists of different informants, as indicated on the right:

- Priority environmental areas (includes protected areas and biodiversity corridors)
- o Critical Biodiversity Area (Irreplaceable)
- Primary catchments
- Strategic Water Source Areas (SWSAs) – ground and surface water.



PROTECTION OF NATURAL RESOURCES

Purpose/intent

The intent of this sub-frame is to ensure the building blocks of natural resources, which includes water, biodiversity and agricultural land are protected, effectively managed and used in a sustainable manner.

Informant policy or strategy (dept policy/strategy)

INFORMANTS AND STRATEGIES IMPACTING PROVINCIAL PLANNING

- KZN Environmental Implementation Plan, 2016
- o KZN Environmental Outlook Report, 2017
- KZN Biodiversity Plan (also referred to as the KZN Systematic Conservation Plan or the C-Plan)
- National Biodiversity Strategy and Action Plan 2015-2025 (NBSAP)
- o Biodiversity Framework 2017-2022 (NBF)
- o National Coastal Management Programme of South Africa, 2014
- o KZN Coastal Management Programme, 2019
- o KwaZulu-Natal Integrated Waste Management Plan (IWMP)
- o KZN Agriculture Master Plan
- o National Framework for Air Quality Management in South Africa, 2017
- National Waste Management Strategy, 2019
- Municipal waste sector plan, 2011
- National Water Resource Strategy (NWRS2), 2013
- National Water and Sanitation Master Plan (NWSMP), 2018
- o Policy for the Preservation and Development of Agricultural Land (2016)
- National Strategy For Sustainable Development

INFORMANTS AND STRATEGIES IMPACTING LOCAL PLANNING

- Ezemvelo KZN Wildlife Guidelines Incorp Biodiversity LUScheme V2.0 Oct2020
- Ezemvelo KZN Wildlife -Guideline for Biodiversity incorporation into SDFs 07 03 2017
- Ezemvelo KZN Wildlife Norms and standards to regulate the impact of tourism development upon landscape character in a specified area (Kwasani subregion) in the uKhahlamba-Drakensberg region, Kwazulu-Natal.
- National Protected Areas Expansion Plan 2016 (DEFF)
- o Ezemvelo KZN Wildlife Management Plans:
 - ightarrow aMahlongwa EMP (EDTEA) under development
 - → Durban Bay EMP (DEFF) gazetted
 - → iBilanhlonhlo EMP (RNM) developed
 - → iFafa EMP (uMdoni Muni) under development
 - → iKongeni EMP (EDTEA) under development
 - ightarrow iLovu EMP (EDTEA) under development
 - → iMpenjani EMP (Ezemvelo) under development
 - → iSipingo EMP (eThekwini Muni) under development
 - → iZinkwazi EMP (EDTEA) under development
 - → Kosi Bay EMP (IWP) under development
 - → Lake St Lucia EMP (iSimangaliso Wetland Park, IWP) developed
 - → Mgobozeleni EMP (IWP) developed
 - → Hlangeni EMP (RNM) developed
 - → uMbango EMP (RNM) developed
 - → uMhlangomkulu North EMP (RNM) developed

- o Improving sanitation and waste management infrastructure and services in nodal areas
- District Municipalities to facilitate and assist in establishing effective water quality monitoring programme, as well as the gathering and storage of all information available regarding water quality.

WATER QUALITY MANAGEMENT

- O Development of Integrated Catchment Management Plans.
- O Develop and implement a scheduled maintenance and upgrade programme of all sewerage infrastructure and wastewater treatment works.
- O Develop a water pollution emergency response protocol.
- Develop an integrated water quality and river health monitoring system.
- O Develop an incentive scheme designed to improve water quality.
- o Integrate the costs of restoration and sustainable management of catchments into the water reconciliation and pricing strategy.
- O Ensure adequate resources and capacity for the compliance monitoring and enforcement of relevant water legislation.
- O Develop policies for improved /efficient technologies at the points of waste generation and effluent treatment to reduce impacts.
- Implement and ensure compliance with an integrated waste discharge-charge system

WATER DEMAND AND SUPPLY

- o The restoration and sustainable management of water catchments.
- O Policies and measures implemented to significantly reduce levels of water consumption and demand through water use efficiencies.
- O Determination and maintenance of the ecological reserve for key rivers.
- o Coordinate and integrate strategies and programmes to ensure sustained implementation of alien plant control and rehabilitation.
- Coordinate and integrate strategies and programmes for wetland and riparian area rehabilitation.
- o Implement a water loss and wastage management plan.
- O Develop policies and strategies for the more efficient and effective management of farm dams and irrigation systems.

MANAGEMENT OF CULTURAL HERITAGE

- Cultural resources, such as rock art, museums, archaeological sites, historical buildings and material must be protected and managed to avoid destruction due to inappropriate forms of development, as well as activities undertaken that are associated with these resources (e.g. tours).
- O Cultural heritage sites can be used as an income generating resource, which could be used to protect and manage the resources of the region.
- O Education in culture and history must be supported and encouraged in order to enhance knowledge, protection and full economic use of these assets.

MANAGEMENT OF LAND RESOURCES

o Provide strategy and guidelines in SDF.

HUMAN VULNERABILITY AND ENVIRONMENTAL CHANGE

 Spatially delineate high flood risk areas, develop a disaster response strategy for settlements within these areas and implement a programme to relocate such settlements.

PROTECTION OF NATURAL RESOURCES

- Interventions to improve the environmental management capacity of Traditional Leaders and the Ingonyama Trust Board and the development of environmental planning standards that are aimed at creating ecological resilience.
- o Interventions to maximise community based natural resource management programmes, focused in those areas where land degradation has become a concern.

5.1.2 PRODUCTIVE RURAL REGIONS

Most poverty concentrations within the province, remain within the rural areas and associated with the traditional authority areas. This reduces accessibility (due to terrain, distance, and transport infrastructure) of these settlements to urban economic opportunities and necessitate the development of localised rural economic opportunities.

Furthermore, the expanse of these rural areas impacts on productive agricultural land and there is thus a need to focus on the protection and development of productive rural regions to develop the agricultural potential of the province as well as the ability of the rural communities to access and develop the rural economy.

5.1.2.1 Agricultural Production Areas

The agricultural production areas layer represents relatively high agricultural production areas, which are not located within biodiversity areas or combined with other potential economic sectors are highlighted by this category to identify and promote areas with the potential to make a significant contribution through agricultural production. This map indicates the areas with substantial agricultural potential, and those which have become highly degraded and have limited potential for agricultural production. Understanding agricultural land potential is essential in understanding the dynamics of rural communities and in formulating relevant strategies for rural development.

Although successful farming practices are already occurring on some of these areas, it is proposed that underutilised agricultural land within these zones are more effectively utilised for sustainable agricultural production. Associated interventions may include agriculture specific infrastructure, skills development, market access interventions etc.

5.1.2.2 Farming Production Support Units

As part of the AgriPark strategy being implemented within the province, the identification and development of the Farming Production Support Units (FPSUs) was identified as the priority first step towards anchoring rural agricultural efforts around production support facilities. A total of 22 FPSUs have been identified within the province as listed below:

TABLE 2: FARMING PRODUCTION SUPPORT UNITS

| District Municipality | Local Municipality | FPSU Project | Longitude | Latitude |
|--------------------------|-----------------------|-----------------|-----------|----------|
| Amajuba | Emadlangeni | Bensdorp FPSU | 30.3068 | -27.6993 |
| | Newcastle | Zamokwakhe FPSU | 29.9621 | -27.6965 |

| District | Local | | | |
|----------------|-----------------|-----------------------------|-----------|----------|
| Municipality | Municipality | FPSU Project | Longitude | Latitude |
| Harry Gwala | Ubuhlebezwe | Texas Valley/Highflats FPSU | 30.1993 | -30.2573 |
| | Greater Kokstad | Franklin FPSU | 29.4788 | -30.3071 |
| | Umzimkhulu | Malenge FPSU | 29.6347 | -30.1269 |
| | | St Pauls FPSU | 29.6477 | -30.2402 |
| Ilembe | Ndwedwe | Jikijela FPSU | 31.1506 | -29.325 |
| | | KwaNgcolosi FPSU | 30.8925 | -29.5698 |
| | Maphumulo | Mthandeni FPSU | 31.0782 | -29.2671 |
| King Cetshwayo | Nkandla | Nkungumathe FPSU | 31.0467 | -28.5297 |
| | Umhlathuze | Clanso FPSU | 31.8662 | -28.7226 |
| Ugu | Ray Nkonyeni | Horse Shoe Farm FPSU | 30.1518 | -30.7162 |
| Umgungundlovu | Mpofana | Manana FPSU | 30.2159 | -29.1047 |
| | | Mooi River FPSU | 30.3941 | -28.8967 |
| | | Clarence FPSU | 30.373 | -29.5752 |
| | Richmond | Hopewell FPSU | 30.4036 | -29.7745 |
| Umkhanyakude | Jozini | Ndumo B FPSU | 32.2521 | -26.9519 |
| | Big 5 Hlabisa | Hlabisa FPSU | 31.8713 | -28.1488 |
| | Jozini | Ndumo FPSU | 32.2611 | -26.9916 |
| Umzinyathi | Msinga | Tugela Ferry FPSU | 30.4377 | -28.7532 |
| Uthukela | Imbabazane | Hlathikhulu FPSU | 29.6489 | -29.1994 |
| Zululand | Nongoma | Bululwane FPSU | 31.507 | -27.9834 |

The FPSUs located in areas where productive agricultural land meets the rural communities and the associated socio-economic needs and would therefore significantly contribute to the regional agricultural production and process within rural areas.

5.1.2.3 Areas of Social Need

The highest ranges of combined social need when considering the population density, dependency ratio as the provincial index of multiple deprivation is illustrated by this category of high social need. These areas broadly the areas where the most intensive social interventions area required, and this category is further overlayed above all other categories to provide a spatial reference to the types of interventions which might be pursued towards addressing the concentrated social need within these areas.

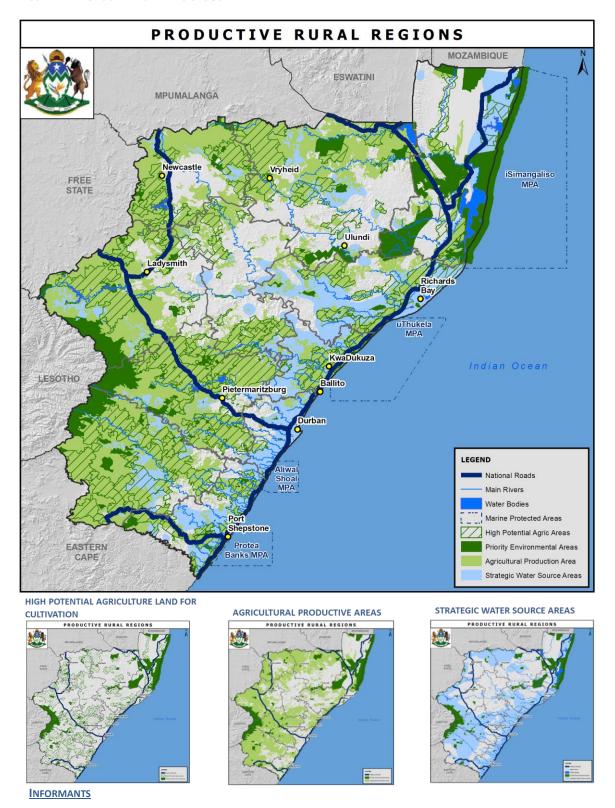
Where high social need is identified within an area earmarked as a conservation corridor, this firstly provides a reference to the fact that social conditions of communities will need to be addressed if any conservation is to be promoted within such areas. Further it suggests that the effective utilisation of the high biodiversity within such areas might be harnessed towards addressing social need through example conservation tourism.

5.1.2.4 Mandated Service Delivery Areas

The areas which are not representative of any of the above-mentioned categories are classified as undifferentiated areas. It is acknowledged that these areas also have communities residing on them with economic potential and environmental resources, however, based on the approach followed

these areas were not differentiated to the same degree as the identified preceding categories. It is therefore important that this category is not neglected from public and private interventions and as the various departmental programmes are inclusive in nature, these areas should also benefit from it. It is anticipated that the intensity of such programmes and the total portion of resource allocation to these areas would be less than the identified categories as well as the key intervention areas identified previously.

FIGURE 14: PRODUCTIVE RURAL REGIONS SUB-FRAME



The composite Natural Resource Protection map consists of different informants:

- · High Potential Agriculture Areas for Cultivation (Dept. of Agriculture, Land Reform Rural Development.
- · Productive Agricultural areas data (KwaZulu-Natal Agricultural Land Potential Categories A, B, C).
- · Strategic Water Source Areas (SWSAs) ground and surface water.

| Purpose/ intent | The purpose of this sub-frame is to |
|---------------------|--|
| | o Protect the primary resources necessary for the development of the Rural Space |
| | Economy. Displace and develop productive agricultural land to improve food security within |
| | Protect and develop productive agricultural land to improve food security within the province. |
| | O Identify areas for agricultural production and processing as input to other |
| | secondary sectors within the provincial economy. |
| | o Identify linkages required within the productive rural regions to better |
| Informant policy or | integrated rural settlements with agricultural economic opportunities. |
| strategy (dept | Informants and strategies impacting provincial planning: |
| policy/strategy) | o Provincial Growth and Development Strategy (PGDS) |
| | Provincial Spatial Economic Development Strategy (PSEDS), 2017 KwaZulu-Natal Poverty Eradication Master Plan (PEMP), 2014 |
| | National Local Economic Development Framework, 2018 |
| | O KwaZulu-Natal Strategy for Radical Agrarian Socio-economic Transformation |
| | (RASET), 2015 |
| | O KZN Agriculture Master Plan (Draft) |
| | o Kwa-Zulu Natal Policy on Food and Nutrition Security, 2017 |
| | Sustainable Agriculture Bill (Protection of high production areas) Poverty Eradication Master Plan (PEMP) |
| | o KZN Environmental Implementation Plan, 2016 |
| | o KZN Biodiversity Plan (also referred to as the KZN Systematic Conservation Plan |
| | or the C-Plan) |
| | O Policy for the Preservation and Development of Agricultural Land (2016) |
| | o National Water Resource Strategy (NWRS2), 2013 |
| | Policy for the Preservation and Development of Agricultural Land (2016) National Strategy For Sustainable Development |
| | o manonal cultures, i o cultural de compliment |
| Methodology of | Data used for mapping: |
| mapping | Legally proclaimed and environmentally protected areas. |
| | o Productive Agricultural areas data (obtained from the Department of |
| | Agriculture) |
| | O Legally proclaimed and environmentally protected areas. |
| | Maloti Drakensberg Trans-frontier Park (MDTP) World Heritage Site Water Bodies. |
| | Strategic Water Source Areas (national and provincial) |
| | , , , |
| Provincial spatial | Refer to section 4. |
| strategies | |
| Local spatial | In support of this intentions of this sub frame. |
| planning and land | O Development of Rural Development Plans aligned between Traditional |
| use management | Authorities and local Municipalities. |
| guidelines | o Protection of productive agricultural land. |
| | O Establishment of Farming Production Support Units (FPSUs) |
| | o Identification and planning for important rural distribution networks ito. road |
| | and rail. O Focussed infrastructure planning and provision towards the achievement of |
| | productive rural regions. |

5.1.3 CROSS-BORDER ALIGNMENT

The Province do not function in isolation and alignment and connectivity with neighbouring provinces and countries are imperative. Cross-border planning issues have become more prevalent and significant. The focus must be on strategic or shared development issues that would benefit from a joint approach and engaging with the relevant neighbouring authorities to explore joint working potential. Cross-border spatial planning issues relates to spatial connectivity and linkages (transport and logistics), energy networks, ecological networks, and water availability.

- There are two cross border electricity schemes between KZN and the Free State, namely the Drakensberg Pumped Storage Scheme, as well as the Ingula Pumped Storage Scheme where electricity is generated during times of peak demand. These schemes are important for the generation and sharing of energy and further investment and cross border cooperation must continue to be strengthened.
- KZN also shares the management of ecological infrastructure through international agreements, which includes the Maloti-Drakensberg Trans-frontier Park and the Lubombo Trans-frontier Conservation Area (KZN-Mozambique-Eswatini). The protection of these strategic regional ecosystems and bio-diversity networks through shared management are thus critical.
- The importance of **transport and logistics infrastructure** are noted as some of the building blocks of social and economic development. As such, sustained and focussed investment in national and international routes and railway lines, international and national airports, border posts and harbours are critical. The upgrading and investment strategies and plans pertaining to the following cross border transport and logistics infrastructure are noted and the reinforcement and strengthening of transport corridors are proposed. These would include and relate to the following:
 - → Vryheid-Emadlangeni-Newcastle-Ermelo Strategic Development Corridor (link to the Mpumalanga Province).
 - → N11 link to Volksrust in the Mpumalanga Province.
 - → N2 South Strategic Development Corridor link to the Eastern Cape Province. This includes plans to construct the Wild Coast route, which will link Port Edward via a new linkage along the coastline to Port St Johns and Mthatha in the Eastern Cape.
 - → Lebombo SDI Corridor to Maputo (R22), linking from Hluhluwe Mbazwana Manguzi to Ponta Du Ouro). This corridor focuses primarily on developments along the southern and eastern sections of the Pongola Poort Dam and is thus important for regional integration with Mozambique and an important trade route.
 - → Rail corridors and linkages include the Durban Free State Gauteng rail corridor (includes the Natal Corridor mainline (NATCOR) from City Deep/Kascon to Durban Port). It also includes an inter-provincial feeder line from Kroonstad to Ladysmith (Danskraal yard) via Harrismith and the Vryheid to Glencoe line from northern KwaZulu Natal. PRASA's Long Distance Strategic Plan identified a high-speed Rail

- Corridor to Gauteng as an intervention. A possible route from Durban via the Northern part of KZN (Ulundi) to Gauteng, is proposed.
- → King Shaka International is the only international airport in the province. It is noted that the rapid expansion at the King Shaka International Airport and surrounding Dube Trade Port has made this area a natural selection for further development into an aerotropolis. It is envisaged that the area will become a major trade and business hub in sub-Saharan Africa.
- Cross border water management. KZN shares the Usuthu/Pongola Maputo water catchment basin with Mozambique and Eswatini. There are international agreements in place on water sharing for this river basin that are shared with neighbouring countries. The Tugela-Vaal Project is an inter-basin transfer scheme between KZN and Gauteng through which water is transferred via the Drakensberg Pumped Storage Scheme to Sterkfontein Dam in the Vaal River Catchment.
- Pipelines are the most efficient and cost-effective means of transporting large quantities of liquids and gases over long distances in a safe and efficient manner. The Transnet pipeline infrastructure that traverses the Province include a new multi-products pipeline (NMPP), gas, crude oil and refined products pipelines, all of which are critical for economic growth.

FIGURE 15: CROSS BORDER ALIGNMENT SUB-FRAME

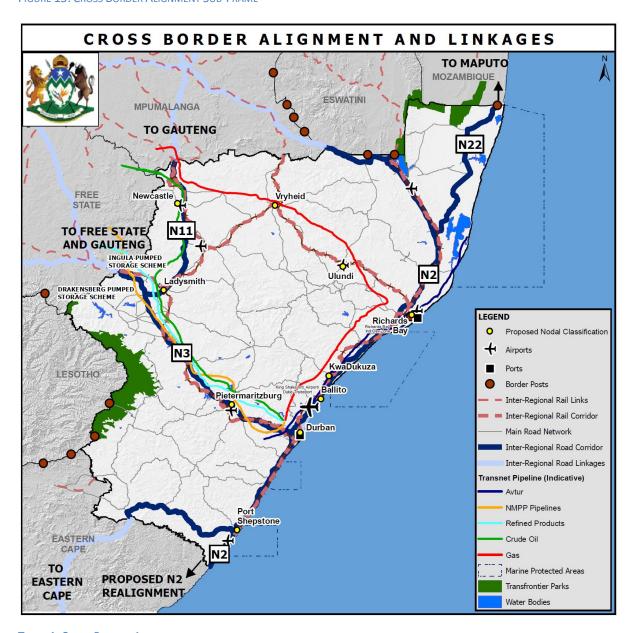


TABLE 4: CROSS BORDER ALIGNMENT

| CROSS BORDER ALIGN | MENT |
|---------------------|---|
| Purpose/ intent | The purpose of the cross border alignment sub-frame is to strengthen and enhance linkages to neighbouring countries and provinces through supporting and coordinating cross border spatial planning issues relating to spatial connectivity and linkages (transport and logistics), energy networks, ecological networks, and water availability. |
| Informant policy or | o National Spatial Development Framework |
| strategy (dept | o National Transport Master Plan (NATMAP), 2050 |
| policy/strategy) | KZN Biodiversity Plan (also referred to as the KZN Systematic Conservation Plan or the C-Plan) |
| | National Biodiversity Strategy and Action Plan 2015-2025 (NBSAP) |
| | o Biodiversity Framework 2017-2022 (NBF) |
| | o National Water Resource Strategy (NWRS2), 2013 |

| CROSS BORDER ALIGN | MENT |
|---|---|
| | National Water and Sanitation Master Plan (NWSMP), 2018 Strategic Infrastructure projects (SIP2 Durban-Free State Gauteng logistics and industrial corridor) N3 Strategic Corridor Plan (Cogta) N2 South Strategic Development Corridor (Cogta) PRASA - KZN Strategic Plan PRASA National Strategic Plan NATMAP 2050 |
| Methodology of mapping Provincial spatial | DATA USED FOR MAPPING: O Key Provincial roads O Key provincial railways O Trans-frontier parks O Strategic Corridor Plans O Border posts with Lesotho, Mozambique and Eswatini O Transnet Pipelines (indicative) O Refer to section 4. |
| strategies (log frame strategies) | |
| Include specific names/ regions/ routes/spatial location etc. (spatial focus areas) | Hydro-electric power scheme (Ingula Pumped Storage Scheme and Drakensberg Pumped Storage Scheme) which is located between KZN and the Free State. Tugela-Vaal Project through which water is transferred via the Drakensberg Pumped Storage Scheme to Sterkfontein Dam in the Vaal River Catchment. N2 South Corridor. Vryheid-Emadlangeni-Newcastle-Ermelo Corridor. N11 corridor. R22 corridor from Hluhluwe - Mbazwana - Manguzi - Ponta Du Ouro Railway lines. Transnet Pipelines (indicative) |
| Local spatial planning and land use management guidelines | Local municipalities must ensure that cross border alignment with neighbouring provincial municipalities and countries is considered during the preparation of SDFs. |

5.1.4 Provincial Development Corridors

The network of provincial linkage routes and development corridors are aimed at establishing a network of economic growth areas and regional economic opportunities at both a provincial and regional scale. Provincially, the national routes (N3, N2 and N11 are important linkages to connect the province to the national and international (e.g., Mozambique) economies.

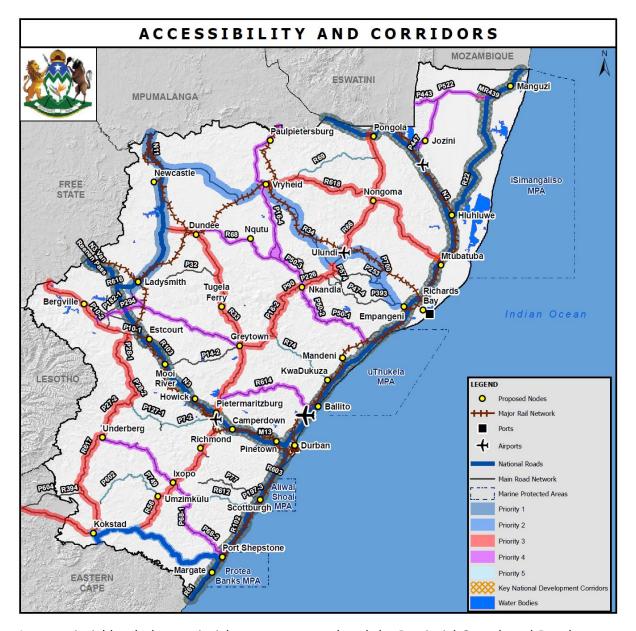
These national routes are further also subject to various national strategies such as the Strategic Integrated Projects (SIPS) identified by the Presidential Infrastructure Coordinating Commission (PICC). The specific SIPs which cover various social and economic sectors within the province are:

- o SIP 1: unlocking the northern mineral belt with Waterberg as the catalyst
- SIP 2: Durban-Free State-Gauteng logistics and industrial corridor
- SIP 3: South-Eastern node & corridor development
- SIP 8: Green energy in support of the South African economy

SIP 17: Regional integration for African cooperation and development

The SIPs were augmented by the National Transport Master Plan (NATMAP) 2050. Transport corridors identified in the NATMAP 2050 include the N3 Corridor (Durban-Free State-Johannesburg) and the Richards Bay Coal Export Line Corridor. In addition to the major corridors, the NATMAP 2050 also identifies the Drakensburg Tourism Area as an important potential node and a number of passenger rail transport lines that include a Johannesburg—Durban high-speed line.

FIGURE 16: ACCESSIBILITY AND CORRIDORS SUB-FRAME



At a provincial level, the provincial government produced the Provincial Growth and Development Strategy (PGDS), which identifies various provincial goals and aligned the provincial development agenda with ASGISA and the national priority outcomes of the NGP. Three of the PGDS goals were translated into a Poverty Eradication Master Plan (PEMP) that sought to eradicate poverty in the poverty.

The various priority development corridors proposed within the PSDF contribute to connect communities and lower order economic regions to higher order economic nodes and regions through these corridors which are in some cases mainly linkages and in other instances, activity corridors where investment will be intensified. The Provincial Spatial Economic Development Strategy (PSEDS) have expressed in more detail the intentions of some of these corridors and should be read in conjunction hereto.

TABLE 5: ACCESSIBILITY AND CORRIDORS

| Purpose/ intent | |
|-------------------------------------|--|
| Purpose/ litterit | The purpose of this sub-frame is to: |
| | Identify key regional linkages to improve accessibility to all areas and economic regions within the province. |
| | Identify national and international linkages and development corridors which impact on the provincial economic anchors, infrastructure, and growth opportunities. |
| Informant policy or | Informants and strategies impacting provincial planning: |
| strategy (dept policy/strategy) | Provincial Spatial Economic Development Strategy (PSEDS), 2017 Draft National Spatial Development Framework (NPC), 2020 Strategic Infrastructure projects (SIP2 Durban-Free State Gauteng logistics and industrial corridor) N3 Strategic Corridor Plan (Cogta) PRASA - KZN Strategic Plan N2 South Strategic Development Corridor (Cogta) N2 North Strategic Development Corridor (Cogta) P700 Umhlathuze- Ulundi- Vryheid Secondary Corridor (CogTA), 2016 Vryheid-Emadlangeni-Newcastle-Ermelo Strategic Corridor Development Plan National Transport Master Plan, 2050 PICC's 18 Strategic Integrated Projects (SIPS) PRASA: KwaZulu-Natal Regional Strategic Plan (2012) Durban-KwaDukuza Future Rail Linkages: Pre-Feasibility Study (PRAS), 2014 South Coast Rail Corridor: Stations Feasibility Study (PRASA), 2014 |
| Methodology of mapping | Data used for mapping: National Spatial Development Framework (Draft 2020) KwaZulu-Natal Department of Transport route and road mapping. Transnet Railway network Provincial Spatial Economic Development Strategy (2017) Buffers to differentiate various priority levels to corridors. |
| Provincial spatial strategies | Refer to section 4. |
| Local spatial | In support of this sub-frame, local municipalities will be required to: |
| planning and land use management | Map and define the national, provincial, and regional corridors identified within |
| guidelines | the PSDF, into their local municipal SDFs as well. |
| | Corridors identified within the PSDF need to be reinforced and strengthened to support socio-economic development and equitable access to opportunities, services and facilities for both urban and rural communities Develop localised / cross border strategies to develop the identified corridors. |

Align infrastructure planning to support areas of economic concentration and intensification associated with the corridors.
 Align densification strategies with the corridors and associated nodes along those corridors.
 Increase data connectivity within all urban and rural regions of the province, through a systematic rollout of the ICT network along identified corridors.

5.1.4.1 Priority 1 Corridors

The Priority 1 Corridors align with the national routes (N3 & N2) to provide national and international accessibility with KwaZulu-Natal as well as associated trade and local investment opportunities along these routes. The priority 1 corridors are identified below:

TABLE 6: PRIORITY 1 CORRIDORS

| Corridor | Description |
|----------------------|--|
| N3 Corridor | SIP2: Durban-Free State-Gauteng logistics and industrial corridor N3 Strategic Corridor Plan (Cogta) guides investment into the various sections and nodes along the corridor. Strengthen the logistics and transport corridor between SA's main industrial hubs. Particularly access to Durban's harbour and integrating the Free State into the industrial strategy The National Transport Master Plan, 2050 identifies the N3 Corridor (Durban-Free State-Johannesburg) an important as a link road connecting Durban and Gauteng through the town of Harrismith in the Free State. |
| N2 South Corridor | SIP 3: South-Eastern node & corridor development Alignment determined by future alignment of the N2 route along the current R62. Improve infrastructure around the N2 Wild Coast highway between Nelson Mandela Bay and KwaZulu-Natal. |
| N2 North Corridor | Corridor linkage between the Ports of Durban, Richardsbay and Maputo Important international trade corridor to be developed and planned further. Aligned with the planned Lubombo Spatial Development Initiative. SIP1: Unlocking the northern mineral belt with Waterberg as the catalyst Unlock the mineral resources in the northern mineral belt of the country (coal, palladium, platinum, chromite) by improving the rail, water, and energy infrastructure. This included a shift from road to rail particularly in Mpumalanga and Richards Bay and creating a logistics corridor connecting Mpumalanga and Gauteng. The National Transport Masterplan 2050 identified the Richards Bay Coal Export Line Corridor which links the coal fields in Mpumalanga to the coal port terminal in Richards Bay. N2 North Strategic Development Corridor (Cogta) guides investment into the various sections and nodes along the corridor. PRASA's Long Distance Strategic Plan has also identified a high-speed Rail Corridor to Gauteng as an intervention. A possible route from Durban via the Northern part of KZN (Ulundi) to Gauteng, is proposed |

5.1.4.2 Priority 2 Corridors

- Richards Bay to Mpumalanga
 - → SIP1: Unlocking the northern mineral belt with Waterberg as the catalyst
 - → Unlock the mineral resources in the northern mineral belt of the country (coal, palladium, platinum, chromite) by improving the rail, water, and energy

- infrastructure. This included a shift from road to rail particularly in Mpumalanga and Richards Bay and creating a logistics corridor connecting Mpumalanga and Gauteng.
- → The National Transport Masterplan 2050 identified the Richards Bay Coal Export Line Corridor which links the coal fields in Mpumalanga to the coal port terminal in Richards Bay.

5.1.4.3 Other Corridors

TABLE 7: OTHER CORRIDORS

| Corridor | Description |
|------------------------------------|--|
| Drakensburg Tourism Corridor | O NATMAP 2050 also identifies economic nodes which include the Drakensburg Tourism Area (The Maloti-Drakensberg Trans-Frontier Park in the Clarens-Qwa-Qwa area) as an important potential node whose transport infrastructure will need to be upgraded in order to make the most of the area as a tourist destination |

5.1.5 DEVELOPMENT NODES

Together with the development corridors sub-frame the provincial development nodes represents a network of cities, settlements, centres and points which aims to increase the both the intensity of social and economic activity, but also reach and accessibility of citizens to those economic opportunities and an appropriate level of services. These provincial nodes aim to establish cost effective service delivery due to a concentration of people and infrastructure, counter urban sprawl and focus on improving the fragmented morphological form of certain settlements to become more efficient and sustainable.

Although these nodes are important and impacted on by provincial targeted initiatives such as corridor investments, social facility planning and provision as well as bulk transport and infrastructure investment, the largest impact on the development of these nodes (at all levels) would be local municipal prioritisation, planning, investment, and maintenance of these nodes towards both local and provincial priorities. It is therefore envisaged that the implementation of the identified nodes will require provincial level interventions and support in lower resourced local municipalities.

FIGURE 17: DEVELOPMENT NODES SUB-FRAME

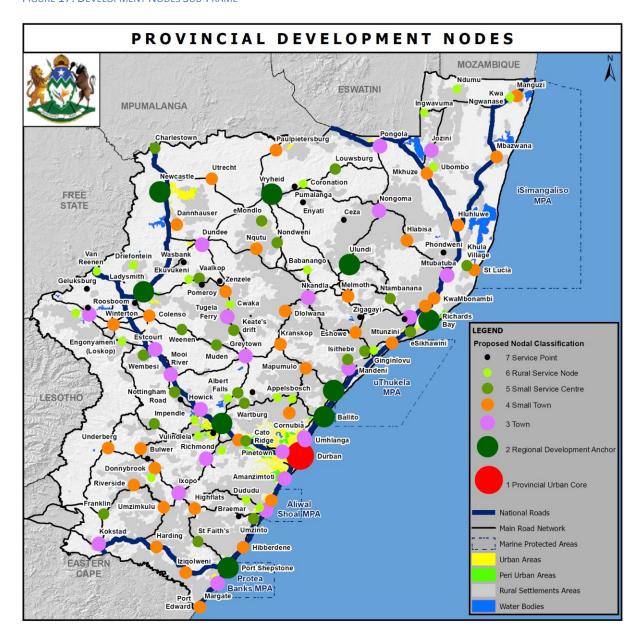


TABLE 8: DEVELOPMENT NODES

Purpose/ intent The purpose of the provincial development nodes subframe is to: Concentration of people, movement and production in certain points provides for cost effective service delivery, Enables better access to social facilities and opportunities Reduces Urban sprawl onto either sensitive environmental resources and/or productive agricultural land The mere focus on nodes will also address the inefficient and fragmented morphological form and allow for nodes to become more efficient and sustainable

| Informant policy or | |
|------------------------|--|
| strategy (dept | Informants and strategies impacting provincial planning: |
| | o Provincial Spatial Economic Development Strategy (PSEDS), 2017 |
| policy/strategy) | o Draft National Spatial Development Framework (NPC), 2020 |
| | o Integrated Urban Development Framework |
| | o Draft Provincial Growth and Development Strategy (PPC), 2020 |
| | Draft Provincial Small Town Socio-Economic Revitalisation Strategy (CoGTA), 2020 |
| | o Provincial Norms and Standards for Social Facility Provision (Draft 2020). |
| | o Provincial Local Economic Development Plan per District (COGTA), 2018 |
| | Feasibility Study for the Establishment of Youth Enterprise Parks (YEP) in KwaZulu-Natal (CoGTA) |
| | o National Local Economic Development Framework, 2018 |
| Methodology of mapping | Data used for mapping: |
| | o Focus Areas contained in the KZN Provincial Master Spatial Plan 2016 |
| | o Data from Rural Settlements Study (DALRRD), 2009 |
| | o Data from Development Edges Study (DALRRD), 2015 |
| Provincial spatial | Refer to section 4. |
| strategies | |
| Local spatial | o Land development within nodes should optimise the use of existing resources |
| planning and land | and infrastructure. |
| use management | O Spatial planning and development application procedures should be efficient |
| guidelines | and streamlined to contribute to the rapid development of the nodes. |
| | o Municipal implementation planning within nodes to focus on: |
| | o Nodal Intensification Strategy |
| | o Small Town Revitalisation |
| | o Regional Economic Infrastructure investment and integration. |
| | o Rural Space-Economy linkages |
| | o Urban Space-Economy, ensuring equitable access to opportunities |
| | Establishment of Smart Cities and Settlement Digital Transformation |

5.1.5.1 Provincial Urban Core

eThekwini is classified as the Provincial Urban Core as an urban centre with existing economic investment and the potential for expansion thereof. As the provincial urban core, eThekwini provides services to both the national and provincial economy and the NSDF also defines eThekwini as one of three National Urban Regions.

TABLE 9: PROVINCIAL URBAN CORE

| PSDF Provincial Node | City/ Town/ Centre | PSEDS 2017 Classification | NSDF Town Services |
|-----------------------------|-----------------------|---------------------------|-----------------------|
| 1. Provincial Urban Core | Durban | Multi Sectoral Node | City Region |

From the NSDF, the key strategic interventions specifically targeted within the eThekwini Urban Region, include:

 Establish compact, productive, sustainable, inclusive and well-governed settlements within the region.

- Prioritise infrastructure maintenance to mitigate against the expected impact of natural and climate change-related hazards on large numbers of people, especially the poor and most vulnerable members of society, and avoid repetitive infrastructure-repair costs.
- Manage demand and maintain, expand and refocus our infrastructure network, to enable and sustain bulk water supply and energy distribution within and to urban regions.
- Effectively utilise, protect and manage high-value agricultural lands, ecological infrastructure and national manmade and natural environmental assets, and mitigate down-stream impacts on water bodies, water catchments and other natural resources.
- Actively support national and international programmes aimed at climate change mitigation of CO2- emissions and introduce local policies and measures to assist such programmes.
- Utilise innovation, enterprise development and job creation opportunities in (1) agro-eco-industries, (2) tertiary and service sectors, (3) tourism, (4) knowledge-creation, and (5) cultural and entertainment industries.
- Maintain and upgrade road and rail routes within the urban region. Prioritise rail for bulk freight and improve the affordability of intercity public passenger transport.

5.1.5.2 Regional Development Anchors

The regional development anchors are also commonly referred to as the secondary cities within the province and identifies those strategic larger / significant towns and cities which should be prioritised and strengthened as key anchors or "engines" of the regional economy. These are also areas where significant future population growth is anticipated based on historical trends as well as the impacts of future targeted interventions in those areas.

They provide both the basis for regional economies as well as the centre for higher order social services to surrounding rural communities and are in some cased the core of the envisaged development integration zones.

The regional development anchors thus have an important role in the enhanced social service provision to provide for higher order services, but also enable officials working in rural regions to stay in these settlements and contribute to the local economy, instead of commuting to larger towns or cities on a daily or weekly basis or not settling in rural areas.

The regional significance of these nodes also identifies the role of specific settlements as gateways and interchanges on the regional public transportation network, which contributes both to the regional flow of economic goods, but also as vital support to functional rural areas.

The following Secondary Nodes have been identified important development anchors:

TABLE 10: REGIONAL DEVELOPMENT ANCHORS

| PSDF Provincial Node | Place | Local Municipality | District Municipality |
|----------------------|--------------|--------------------|-----------------------|
| 2. Regional | Newcastle | Newcastle | Amajuba |
| Development Anchor | Ballito | KwaDukuza | iLembe |
| | KwaDukuza | KwaDukuza | iLembe |
| | Richards Bay | uMhlathuze | King Cetshwayo |

| PSDF Provincial Node | Place | Local Municipality | District Municipality |
|----------------------|------------------|--------------------|-----------------------|
| | Port Shepstone | Ray Nkonyeni | Ugu |
| | Pietermaritzburg | The Msunduzi | Umgungundlovu |
| | Ladysmith | Alfred Duma | Uthukela |
| | Vryheid | Abaqulusi | Zululand |
| | Ulundi | Ulundi | Zululand |

Key strategic interventions specifically targeted at these nodes should include:

- Strengthen and Consolidate Existing Regional Development Anchor Towns to ensure there continued functioning at a regional level.
- Support Regional Development Anchors under stress.
- Prioritise and strengthen the identified regional development anchor towns in productive rural regions and provincial corridors to provide a range of services within the specific towns/cities and surrounding network of settlements and productive rural regions.
- Targeted settlement planning and provincial priority housing development.
- Higher-order social infrastructure provision.
- Focused support for small and medium-sized enterprise development, industrialisation and economic diversification.
- o Priority Socio-Economic Development Spending.
- o Promote as Primary Node in support of Corridor Development.
- o Promote Compact Urban Development & Combat Urban Sprawl.
- Promote Focused Investment & Managed Growth.
- o Promote Densification (Brown Agenda) and Infill Development.
- o Provide Economies of Scale for Effective & Affordable Service Delivery.
- Infill where High Levels of Services are Available (Restructuring Nodes).
- o Increased Residential Density (number of dwellings).
- o Promote provision of sufficient Bulk Infrastructure Services (Demand & Supply).
- o Priority spending on Infrastructural Upgrading Needs (New & Maintain).
- o Promote Effective & Efficient Public Transportation Systems linked to Multi Modal Facilities.
- Single Land Use Management System (Township Formalisation).

5.1.5.3 Towns

Towns are identified as those formal towns where a formal and established structure and commercial component is already present, together with associated higher order social facilities. Towns are furthermore located at noticeable access points (e.g. Greytown, Estcourt, Ixopo) or at frontier points servicing as important border towns (e.g. Pongola, Kokstad, Bergville). Although these nodes are not envisaged to makes a similar contribution to the provincial economy as the Regional Development Anchors might, the Towns are important points for the transformation of the province and provide a vital distribution and support function to the Small Towns and other lower order nodes.

The following Towns have been identified within the PSDF:

TABLE 11: TOWNS

| PSDF Provincial Node | Place | Local Municipality | District Municipality |
|----------------------------|--------------|----------------------|-----------------------|
| 3. Town | Amanzimtoti | eThekwini | eThekwini |
| | Cornubia | eThekwini | eThekwini |
| | Pinetown | eThekwini | eThekwini |
| | Umhlanga | eThekwini | eThekwini |
| | Kokstad | Greater Kokstad | Harry Gwala |
| | Ixopo | Ubuhlebezwe | Harry Gwala |
| | Mandeni | Mandeni | iLembe |
| | Nkandla | Nkandla | King Cetshwayo |
| | Empangeni | uMhlathuze | King Cetshwayo |
| | Margate | Ray Nkonyeni | Ugu |
| | Scottburgh | Umdoni | Ugu |
| | Mooi River | Mpofana | Umgungundlovu |
| | Richmond | Richmond | Umgungundlovu |
| | Howick | uMngeni | Umgungundlovu |
| | Jozini | Jozini | Umkhanyakude |
| | Mtubatuba | Mtubatuba | Umkhanyakude |
| | Dundee | Endumeni | Umzinyathi |
| | Tugela Ferry | Msinga | Umzinyathi |
| | Greytown | Umvoti | Umzinyathi |
| | Estcourt | Inkosi Langalibalele | Uthukela |
| | Bergville | Okhahlamba | Uthukela |
| | Nongoma | Nongoma | Zululand |
| | Pongola | uPhongolo | Zululand |

5.1.5.4 Small Towns

The Draft Small Town Socio-Economic Revitalisation Strategy (STRS) defines Small Towns as centres that provide services to the local economy (as opposed to the regional and sub-regional economy) and addresses community needs.

The **Draft Small Town Socio-Economic Revitalisation Strategy** (STRS) focusses specifically on the Small Towns identified as third order nodes within the Development Nodes sub-frame and aims to establish Productive, Resilient and Well-managed small town as vital interface as economic and social support centres within both economic regions as well as area of socio-economic need. The STRS further identifies nine drivers through which revitalisation could be achieved within small towns, including:

- o Partnerships for Small Town revitalisation.
- Creating Smart Small Towns.
- o Small Towns as Centres of Economic development through enterprise development and support.
- Small Towns Providing Quality Services.

- o Small Town Economic and Social Infrastructure development.
- o Small Towns as Centres of Learning Excellence through capacity and skills development.
- Mobilise under-utilised public assets and resources.
- o Small Town Marketing Investment Retention and Attraction.
- Small Towns as Well Managed Places through Improving the governance and management of small towns.

The following Small Towns have been identified within the PSDF:

TABLE 12: SMALL TOWNS

| PSDF Provincial | Place | Local Municipality | District Municipality |
|-----------------|-----------------|------------------------|-----------------------|
| Node | | | |
| 4. Small Town | Dannhauser | Dannhauser | Amajuba |
| | Utrecht | Emadlangeni | Amajuba |
| | Umkomaas | eThekwini | eThekwini |
| | Bulwer | Nkosazana Dlamini-Zuma | Harry Gwala |
| | Donnybrook | Nkosazana Dlamini-Zuma | Harry Gwala |
| | Underberg | Nkosazana Dlamini-Zuma | Harry Gwala |
| | Highflats | Ubuhlebezwe | Harry Gwala |
| | Riverside | Umzimkhulu | Harry Gwala |
| | Umzimkulu | Umzimkhulu | Harry Gwala |
| | Mapumulo | Maphumulo | iLembe |
| | Ndwedwe | Ndwedwe | iLembe |
| | KwaMbonambi | Mfolozi | King Cetshwayo |
| | Melmoth | Mthonjaneni | King Cetshwayo |
| | Dlolwana | Nkandla | King Cetshwayo |
| | eNseleni | uMhlathuze | King Cetshwayo |
| | Eshowe | uMlalazi | King Cetshwayo |
| | Mtunzini | uMlalazi | King Cetshwayo |
| | Hibberdene | Ray Nkonyeni | Ugu |
| | Iziqolweni | Ray Nkonyeni | Ugu |
| | Port Edward | Ray Nkonyeni | Ugu |
| | Harding | uMuziwabantu | Ugu |
| | Camperdown | Mkhambathini | Umgungundlovu |
| | Hlabisa | Big 5 Hlabisa | Umkhanyakude |
| | Hluhluwe | Big 5 Hlabisa | Umkhanyakude |
| | Mkhuze | Jozini | Umkhanyakude |
| | St Lucia | Mtubatuba | Umkhanyakude |
| | Manguzi | Umhlabuyalingana | Umkhanyakude |
| | Mbazwana | Umhlabuyalingana | Umkhanyakude |
| | Pomeroy | Msinga | Umzinyathi |
| | Nqutu | Nqutu | Umzinyathi |
| | Kranskop | Umvoti | Umzinyathi |
| | Colenso | Alfred Duma | Uthukela |
| | Winterton | Okhahlamba | Uthukela |
| | Paulpietersburg | eDumbe | Zululand |

Key strategic interventions specifically targeted at these nodes and their directly surrounding areas might include:

- Secondary economic growth areas.
- Promote as secondary node in support of corridor development.
- o Promote compact urban development & combat urban sprawl.
- o Promote focused investment & managed growth.
- o Promote densification (brown agenda) & infill development.
- o Provide economies of scale for effective & affordable service delivery.
- o Infill where high levels of services are available (restructuring nodes).
- o Increased residential density (number of dwellings).
- o Promote socio-economic upliftment.
- Promote provision of sufficient bulk infrastructure services (demand & supply).
- o Priority spending on infrastructural upgrading needs (new & maintain).
- o Promote effective & efficient public transportation systems linked to multi modal facilities.
- Single land use management system (township formalisation).
- Social inclusion areas focus investment in people rather than places.

5.1.5.5 Small Service Centres

TABLE 13: SMALL SERVICE CENTRES

| PSDF Provincial Node | Place | Local Municipality | District Municipality |
|-------------------------|-----------------|----------------------|-----------------------|
| 5. Small Service | Charlestown | Newcastle | Amajuba |
| Centre | Cato Ridge | eThekwini | eThekwini |
| | Franklin | Greater Kokstad | Harry Gwala |
| | Isithebe | Mandeni | iLembe |
| | eSikhawini | uMhlathuze | King Cetshwayo |
| | Ntambanana | uMhlathuze | King Cetshwayo |
| | Amatikulu | uMlalazi | King Cetshwayo |
| | Umzinto | Umdoni | Ugu |
| | St Faith's | Umzumbe | Ugu |
| | Impendle | Impendle | Umgungundlovu |
| | Nottingham Road | uMngeni | Umgungundlovu |
| | New Hanover | uMshwathi | Umgungundlovu |
| | Wartburg | uMshwathi | Umgungundlovu |
| | Khula Village | Mtubatuba | Umkhanyakude |
| | Keate's drift | Msinga | Umzinyathi |
| | Nondweni | Nqutu | Umzinyathi |
| | Muden | Umvoti | Umzinyathi |
| | Vaalkop | Alfred Duma | Uthukela |
| | Weenen | Inkosi Langalibalele | Uthukela |
| | Wembesi | Inkosi Langalibalele | Uthukela |

| PSDF Provincial Node | Place | Local Municipality | District Municipality |
|-------------------------|-----------|--------------------|-----------------------|
| | eMondlo | Abaqulusi | Zululand |
| | Louwsburg | Abaqulusi | Zululand |

Key strategic interventions specifically targeted at these nodes and their directly surrounding areas might include:

- Focused investment in areas of Poverty Concentrations.
- o Promote Integration (Green Agenda).
- Integration in terms of Mixed Densities & Uses.
- o Improve Transportation linkages to Nodes.
- o Promote Social-economic Integration.
- o Eradicate Backlogs & Promote Basic Service Infrastructure & Delivery.
- o Promote Socio-Economic Upliftment.
- o Promote provision of sufficient Bulk Infrastructure Services (Demand & Supply).
- o Priority spending on Infrastructural Upgrading Needs (New & Maintain).
- o Rural Service Delivery Point.
- o Promote & Establish PPP's.
- o Promote Cultural & Community Based Tourism.

5.1.5.6 Rural Service Nodes

TABLE 14: RURAL SERVICE NODES

| PSDF Provincial Node | Place | Local Municipality | District Municipality |
|-------------------------|----------------------|------------------------|-----------------------|
| 6. Rural Service | Creighton | Nkosazana Dlamini-Zuma | Harry Gwala |
| Node | Ozwathini | Ndwedwe | iLembe |
| | Ginginlovu | uMlalazi | King Cetshwayo |
| | Amandawe | Umdoni | Ugu |
| | Dududu | Umdoni | Ugu |
| | Hopewell | Richmond | Umgungundlovu |
| | Vulindlela | The Msunduzi | Umgungundlovu |
| | Mpophomeni | uMngeni | Umgungundlovu |
| | Albert Falls | uMshwathi | Umgungundlovu |
| | Appelsbosch | uMshwathi | Umgungundlovu |
| | Ingwavuma | Jozini | Umkhanyakude |
| | Ndumu | Jozini | Umkhanyakude |
| | Ubombo | Jozini | Umkhanyakude |
| | Kwa Ngwanase | Umhlabuyalingana | Umkhanyakude |
| | Cwaka | Msinga | Umzinyathi |
| | Driefontein | Alfred Duma | Uthukela |
| | Ekuvukeni | Alfred Duma | Uthukela |
| | Van Reenen | Alfred Duma | Uthukela |
| | Engonyameni (Loskop) | Inkosi Langalibalele | Uthukela |

| PSDF Provincial Node | Place | Local Municipality | District Municipality |
|-------------------------|------------|--------------------|-----------------------|
| | Woodstock | Okhahlamba | Uthukela |
| | Coronation | Abaqulusi | Zululand |
| | Babanango | Ulundi | Zululand |

5.1.5.7 Service Point

The proposed rural service points are envisaged to serves as the lowest level of provincial nodes and could typically be established around existing traditional administration centres as well as other accessible rural points identified as periodic markets.

TABLE 15: SERVICE POINTS

| PSDF Provincial Node | Place | Local Municipality | District Municipality |
|----------------------------|------------|------------------------|-----------------------|
| 7. Service Point | Maoleni | Nkosazana Dlamini-Zuma | Harry Gwala |
| | Ngwelezana | uMhlathuze | King Cetshwayo |
| | Zigagayi | uMlalazi | King Cetshwayo |
| | Braemar | Umdoni | Ugu |
| | iMbali | The Msunduzi | Umgungundlovu |
| | Lidgetton | uMngeni | Umgungundlovu |
| | Dalton | uMshwathi | Umgungundlovu |
| | Phondweni | Mtubatuba | Umkhanyakude |
| | Wasbank | Endumeni | Umzinyathi |
| | Zenzele | Msinga | Umzinyathi |
| | Rockcliff | Alfred Duma | Uthukela |
| | Roosboom | Alfred Duma | Uthukela |
| | Bethany | Okhahlamba | Uthukela |
| | Geluksburg | Okhahlamba | Uthukela |
| | Enyati | Abaqulusi | Zululand |
| | Pumalanga | Abaqulusi | Zululand |
| | Ceza | Ulundi | Zululand |

These will be identified in consultation with the district municipalities and should serve as first access to basic services within rural areas. These rural service centres will include, as some have already emerged to include a combination of the following activities:

- Traditional administration centre.
- Taxi/ bus stop.
- Informal trading / market area.
- Social facility (clinic, library etc).
- Skills development centre (mainly local schools).
- Mobile services point (mobile clinics, pension pay points, mobile library etc).
- Small commercial facility.
- Recreational facility such as a sport field.

5.1.6 Sustainable and Integrated Human Settlements

The PGDS (2016) identifies the promotion of sustainable human settlement as a strategic objective. Similarly, the PGDS (2020 Review, draft document) identifies "Spatial integration, human settlements and local government" as one of the five Provincial Strategic Priorities, with an intended impact being 'Achieving spatial transformation through improved integrated settlement development and linking job opportunities and housing opportunities'.

5.1.6.1 Priority Human Settlements and Housing Development Areas

The Priority Housing and Human Settlements Development Areas (PHHSDAs) in the KZN Province intends to advance human settlements spatial transformation and consolidation. This is proposed by ensuring that the delivery of housing is used to restructure and revitalise towns and cities, strengthen the livelihood prospects of households and overcome apartheid spatial patterns by fostering integrated urban forms. It is also imperative that National Housing Programmes be coordinated within the PHHSDAs.

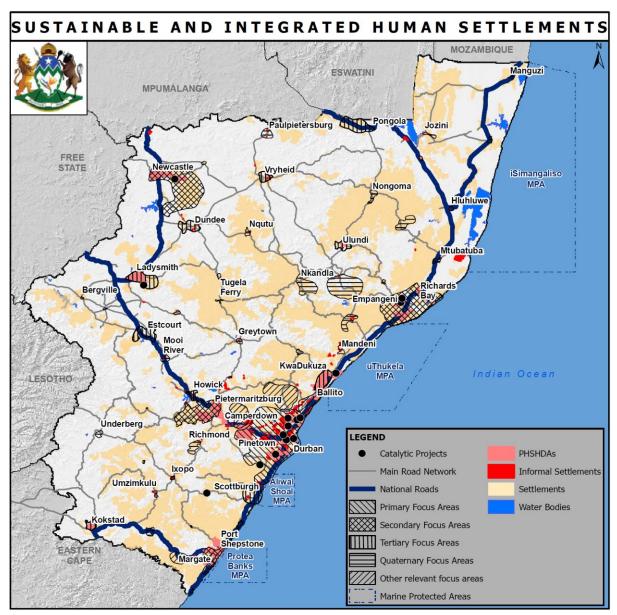
5.1.6.2 Human Settlement Focus Areas

The Human Settlement Focus Area Identified in the Provincial Master Spatial Plan (2016) provides guidance to the optimal spatial allocation of available discretionary resources for future human settlement development processes. It is noted that most of the provincial housing backlog, as well as more than 60% of the provincial population is located within these focus areas. Other areas outside the focused areas should however not be neglected but that the necessary housing interventions required be implemented in these areas. An appropriate range of housing typologies must be provided in these focus areas.

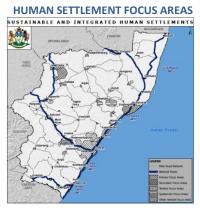
5.1.6.3 Informal Settlement Upgrading

Upgrading of informal settlements must follow the Upgrading of Informal Settlement Program (UISP), which supports a phased in-situ upgrading approach to informal settlements, in line with international best practice. The National Upgrading Support Programme (NUSP) provides further assistance to provinces and municipalities in their efforts to upgrade informal settlements.

FIGURE 18: SUSTAINABLE AND INTEGRATED HUMAN SETTLEMENT SUB-FRAME









| SUSTAINABLE AND IN | TEGRATED HUMAN SETTLEMENT | | |
|------------------------|---|-------------------------------------|--|
| Purpose/ intent | Creation of sustainable and integrated hui | man settlements that relate to the | |
| | advancement of spatial transformation and consolidation of human settlements. | | |
| Informant policy or | | | |
| strategy (dept | O Gazetted 22 Priority Housing and Hum (PHHSDAs) | ian Settlements Development Areas | |
| policy/strategy) | o Informal Settlements Plan for KZN | | |
| 7 - 7// | o Restructuring zones for social housing in k | KZN | |
| | o KZN Provincial Master Spatial Plan (2016) | | |
| Methodology of | DATA USED FOR MAPPING: | | |
| mapping | o PHHSDAs | | |
| | o Catalytic/Mega projects | | |
| | Focus Areas contained in the KZN Province | ial Master Spatial Plan 2016 | |
| | o KZN Informal Settlements data | > | |
| | o Data from Rural Settlements Study (DALRI | | |
| Provincial spatial | O Data from Development Edges Study (DAI | נוחחו, בענט | |
| strategies | Refer to section 4. | | |
| Include specific | · PHHSDAs | · Catalytic/Mega projects | |
| names/ regions/ | · 1 eThekwini Inner City Node | · Amaoti | |
| routes/spatial | · 2 Greater Cato Manor- uMkumbaan | · Cornubia | |
| location etc. (spatial | · 3 Greater Mpumalanga | · Empangeni IRDP | |
| focus areas) | · 4 Mhlanga/Cornubia/Mawothi/KwaMashu | · Ethekwini Inner City | |
| | · 5 Umlazi/Austerville | · Hyde Park | |
| | 6 Newcastle | · JBC | |
| | · 7 Ballito/Shakaskra al Development Area | · KwaMashu Bridge City | |
| | 8 KwaDukuza Town/Hyde Park- Nonoti Area | · Umlazi | |
| | · 9 Kokstad Town | | |
| | · 10 Gamalakhe Nositha | · Focus Area Identified (Provincial | |
| | · 11 Greater Port Shepstone | Master Spatial Plan) | |
| | · 12 Shelly Beach | · Primary: Ethekwini | |
| | · 13 Uvongo-Margate | Secondary: Pietermaritzburg; Port | |
| | · 14 Edendale | Shepstone-Margate; Richards | |
| | · 15 Msunduzi North and East Development | Bay/Empangeni; Newcastle/ | |
| | Areas | Dannhauser | |
| | · 16 Jozini Urban Development Node | · Tertiary: KwaDukuza; Pongola; | |
| | · 17 Mkuze Urban Development Node | Vryheid; Dundee; Ulundi; Howick; | |
| | · 18 Ladysmith Development Area | Umzinto/Scottburg; Kokstad; | |
| | · 19 Empangeni | Escourt; Ladysmith; Ixopo; | |
| | · 20 eSikhaleni- Vulindlela Corridor | Hibberdene | |
| | · 21 Richards Bay | · Quaternary: Utrecht; Maphumulo; | |
| | · | | |
| | · 22 Ulundi Peri Urban Integration | Nongoma; Weenen; Jozini; Mkuze; | |
| | | Paulpietersburg; Nqutu; Hlabisa; | |
| | | Melmoth; Eshowe; Richmond; | |

| SUSTAINABLE AND IN | TEGRATED HUMAN SETTLEMENT | | |
|--------------------|--|--|--|
| | | Mooiriver; Greytown; Nkandla; | |
| | | Harding; St Faiths; Umzimkulu; | |
| | | Creighton; Underberg; Impendle; | |
| | | New Hanover; Mandeni; | |
| | | Ntambanana; KwaMbonambi; | |
| | | Mtubatuba; Hluhluwe; Mbazwana; | |
| | | Manguzi; Tugela Ferry; Winterton; | |
| | | Bergville; Port Edward | |
| | | · Other: Pomeroy; Camperdown; | |
| | | Tongaat/Umhlali; Ndwedwe; | |
| | | Izinqoleni. | |
| Local spatial | o Ensure that the delivery of housing is use | ed to restructure and revitalise towns | |
| planning and land | and cities. | | |
| use management | Strengthen the livelihood prospects of spatial patterns by fostering integrated ur | Strengthen the livelihood prospects of households and overcome apartheid | |
| guidelines | o Reduce urban sprawl and focus on more of | | |
| | · | Increase development densities that are appropriate to the level and function of | |
| | Ensure investment in appropriate levels of sustainable. | f infrastructure that are affordable and | |
| | Systematic targeting of provincial priority | housing projects. | |
| | Synchronise national housing programme housing development areas. | es in priority human settlements and | |

5.1.7 INTEGRATION ZONES AND SPATIAL ACTION AREAS

5.1.7.1 Integration Zones

The application of the concept of integration zones has led to the identification of different areas within the KZN provincial landscape where spatial integration zones are required. These integration zones are aimed at integrating marginalised areas such as townships, informal settlements, or rural settlements to economic nodes and areas of potential growth. Thus, these zones generally include a provincial development node connected via transportation routes.

The following integration zones have been identified and are spatially indicated on Figure 19: Integration Zones:

- Integration zone 1: Mkuze is situated along the N2 corridor (also identified as a key national development corridor), linking Mkuze to the Lavumisa / Golela border post with Eswatini and Pongola. This area will be anchored by Mkuze and has the potential to and is well suited for the for future expansion and development but requires integration.
- Integration zone 2: This integration zone is proposed in the King Cetshwayo District along the N2 and includes Richards Bay (Regional Development Anchor), Empangeni, eNseleni, eSikaweni and Kwambonambi as anchors. Rural settlements within this zone will include Esikaweni, Ngwelezane, eNseleni and Mbonambi rural settlement area along the coast.

- o Integration zone 3: The Ulundi integration zone are proposed around the town of Ulundi as an anchor (Regional Development Anchor), where a significant amount of infrastructure is available but not used to its full potential. This zone must include the surrounding rural settlements of the Mpungose traditional authority.
- o Integration zone 4: This proposed integration zone is located around the town of Vryheid. Vryheid is at the intersection of the P34, the R618 and the R33. The anchors in this zone will include Vryheid (Regional Development Anchor), Coronation, Pumalanga and Enyati.
- o Integration zone 5: The Emondlo integration zone is proposed to the south of Vryheid, stretching from Emondlo as an anchor to Nguthu in the south. The R68 runs through Nguthu.
- Integration zone 6: This zone will include the anchors of Newcastle (Regional Development Anchor), Madadeni and Osizweni along the P483. It includes the rural settlements of Ubuhlebomzinyathi to the south as well.
- o Integration zone 7: This integration will focus on the area of Ladysmith (Regional Development Anchor) on the N11, extending to and including Ezakheni, the Driefontein area as an anchor to the North and Roosboom as an anchor to the southwest of Ladysmith.
- Integration zone 8: This zone includes Bergville as a main anchor along the R74, as well as Woodstock (Rural Service Node) and the rural settlement areas of Zwelisha, Dukuza, Rookdale, Bethany, Woodford and Hoffenthal.
- o Integration zone 9: This zone extends from Ekuvukeni, Vaalkop, Pomeroy, Qwaka, Tugela Ferry and Keats Drift in the south. The main transport link linking these areas is the R33.
- o Integration zone 10: This zone is concentrated around Riverside and the surrounding rural settlements and extend east to include Umzimkhulu town as an anchor. The R749 serves as the main transport route within this zone and between these anchors.
- o Integration zone 11: This zone is concentrated around Port Shepstone (Regional Development Anchor) in the north and extends south along the N2 (key national development corridor) and including Margate. It also extends to the west to include Eziqolweni along the N2 inland.
- Integration Zone 12: This zone is concentrated around Pietermaritzburg (Msunduzi) along the N3 and stretches and includes the Camperdown node, Greater Edendale and Imbali, Howick and Mpophomeni.

FIGURE 19: INTEGRATION ZONES SUB-FRAME

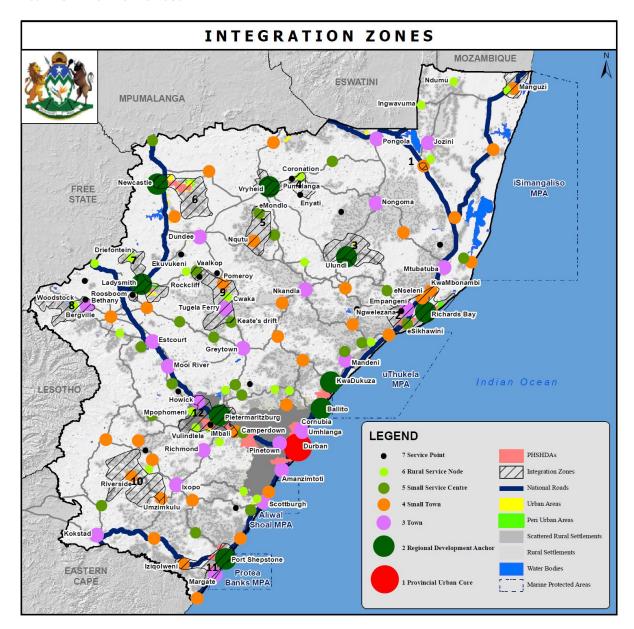


TABLE 17: INTEGRATION ZONES

| INTEGRATION ZONES | |
|---------------------|---|
| Purpose/ intent | The intention of these zones are to spatially indicate areas that require specific interventions in terms of integration. |
| Informant policy or | o COGTA Spatial Integration Position Paper and Spatial Equity Tool |
| strategy | |
| Methodology of | DATA USED FOR MAPPING: |
| mapping | o National roads |
| | o Development nodes (PSDF 2021) |
| | o Data from Rural Settlements Study (DALRRD), 2009 |
| | o Data from Development Edges Study (DALRRD), 2015 |
| | O Gazetted Priority Housing and Human Settlements Development Areas (PHHSDAs) |

| INTEGRATION ZONES | |
|---|--|
| Provincial spatial strategies | Refer to section 4. |
| Include specific names/ regions/ routes/spatial location etc. (spatial focus areas) | Integration zone 1: Mkuze is situated along the N2 corridor (also identified as a key national development corridor), linking Mkuze to the Lavumisa / Golela border post with Eswatini and Pongola. This area will be anchored by Mkuze and has the potential to and is well suited for the for future expansion and development but requires integration. Integration zone 2: This integration zone is proposed in the King Cetshwayo District along the N2 and includes Richards Bay (Regional Development Anchor), |
| | Empangeni, eNseleni, eSikaweni and Kwambonambi as anchors. Rural settlements within this zone will include Esikaweni, Ngwelezane, eNseleni and Mbonambi rural settlement area along the coast. Integration zone 3: The Ulundi integration zone are proposed around the town of Ulundi as an anchor (Regional Development Anchor), where a significant amount of infrastructure is available but not used to its full potential. This zone must include the surrounding rural settlements of the Mpungose traditional |
| | authority. Integration zone 4: This proposed integration zone is located around the town of Vryheid. Vryheid is at the intersection of the P34, the R618 and the R33. The anchors in this zone will include Vryheid (Regional Development Anchor), Coronation, Pumalanga and Enyati. |
| | O Integration zone 5: The Emondlo integration zone is proposed to the south of Vryheid, stretching from Emondlo as an anchor to Nquthu in the south. The R68 runs through Nquthu. |
| | O Integration zone 6: This zone will include the anchors of Newcastle (Regional Development Anchor), Madadeni and Osizweni along the P483. It includes the rural settlements of Ubuhlebomzinyathi to the south as well. |
| | O Integration zone 7: This integration will focus on the area of Ladysmith (Regional Development Anchor) on the N11, extending to and including Ezakheni, the Driefontein area as an anchor to the North and Roosboom as an anchor to the southwest of Ladysmith. |
| | O Integration zone 8: This zone includes Bergville as a main anchor along the R74, as well as Woodstock (Rural Service Node) and the rural settlement areas of Zwelisha, Dukuza, Rookdale, Bethany, Woodford and Hoffenthal. |
| | O Integration zone 9: This zone extends from Ekuvukeni, Vaalkop, Pomeroy, Qwaka, Tugela Ferry and Keats Drift in the south. The main transport link linking these areas is the R33. |
| | O Integration zone 10: This zone is concentrated around Riverside and the surrounding rural settlements and extend east to include Umzimkhulu town as an anchor. The R749 serves as the main transport route within this zone and between these anchors. |
| | O Integration zone 11: This zone is concentrated around Port Shepstone (Regional Development Anchor) in the north and extends south along the N2 (key national development corridor) and including Margate. It also extends to the west to include Eziqolweni along the N2 inland. |
| | Integration Zone 12: This zone is concentrated around Pietermaritzburg (Msunduzi) along the N3 and stretches and includes the Camperdown node, Greater Edendale and Imbali, Howick and Mpophomeni. |
| Local spatial planning and land use management guidelines | o National Treasury, Integration Zone Planning Guidelines, 2017 |

5.1.7.2 National and Provincial Spatial Action Areas

The National Spatial Development Framework (NSDF) identifies National Spatial Action Areas (NSAA), which are urgent short-term, strategic spatial development catalysts. These national spatial development priorities are informed by: (1) the challenges and trends most likely to impact our country, (2) development objectives in national and provincial development and sector plans, and (3) the gap between our national spatial development vision and status quo (NSDF, Draft 2019; p142).

These national spatial development priorities seek to: (1) identify urgently required interventions in national space and priority spatial development enablers for accelerated development impact in this space, and (2) ensure the restoration, management and sustainable utilization of our country's rich natural resource foundation and ecological infrastructure (NSDF, Draft 2019; p142).

These areas are identified as areas of significant national risk and potential and are the most urgent short term, strategic spatial development catalysts aimed to bring out radical spatial transformation at scale; manage and mitigate rising national risks; and move our country at speed towards the ideal national spatial development pattern.

The spatial action areas as they relate to KZN includes the following:

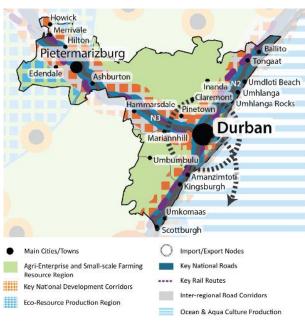
- Ethekwini Urban Region.
- Coastal Transformation Corridor (as it relates to KZN).
- Two National Resource Risk Areas, namely the uMgeni River Catchment and the Upper Vaal River Catchment.

The integration of these NSAA in the KZN PSDF will be in the form of provincial spatial focus areas, as discussed below.

ETHEKWINI URBAN REGION

This region extends from the eThekwini Metro (Provincial Urban Core) and runs along the N3 (identified as a key national development corridor) to include the municipalities of Umdoni in Ugu District Municipality, KwaDukuza and Ndwedwe in Ilembe District Municipality, Mkhambathini, Richmond, uMsunduzi, uMngeni, uMshwathi Local Municipalities Umgungundlovu in District Municipality. Areas of importance that fall within this region includes Pietermaritzburg (Regional Development Anchor), Vulindlela (Rural Service Node), Edendale (Small Service Centre), Imbali (Service Point), Camperdown (Small Town), Howick (Service Town), Mphophomeni (Rural Service Node).

FIGURE 20: ETHEKWINI URBAN REGION



Source: National Spatial Development Framework Draft, 2019

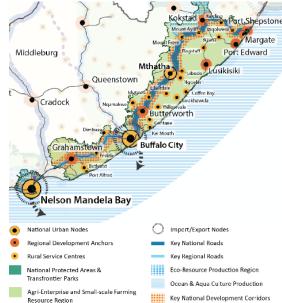
Key actions and interventions proposed:

- Infrastructure maintenance must be undertaken within this area, as it will ensure economic viability.
- Develop tailor-made funding, land access, land tenure and service provision mechanisms, to (1) enable higher residential densities and the provision of a range of housing options, (2) alleviate pressure on basic and social services, (3) optimize urban land reform dividends, (4) manage urban growth, and (5) provide effective public transport.
- Support innovation and skills development in growing economic sectors, with a focus on youth development and employment.
- Prepare for climate change through urban-specific research and mitigation and adaptation strategies.

COASTAL TRANSFORMATION CORRIDOR

The Coastal Transformation Corridor comprises the N2 and the towns of Port Shepstone, Margate, Port Edward, Kokstad in KZN and Mthatha, Butterworth, Buffalo Grahamstown and Nelson Mandela Bay in the Eastern Cape. The focus area of this corridor is the N2 from Port Shepstone to Kokstad. What needs to be recognised in terms of this corridor is that there is a proposed new alignment of the N2 from Port Shepstone along the coastline to Port Edward and then Mthatha (Wild Coast Highway). This realignment requires its own interventions but will in the end form part of this Coastal Transformation Corridor. As such, interventions and activities proposed must also relate to this corridor.

FIGURE 21: COASTAL TRANSFORMATION CORRIDOR



Source: National Spatial Development Framework Draft, 2019

- Several strategic corridor studies have been undertaken in KZN, namely the 1) N3 SIP corridor study, 2) N2 North corridor study and 3) N2 South corridor study. These corridors are divided into regions that includes its own projects. Some of the projects along the Coastal Transformation Corridor includes:
- The Wild Coast Highway that will connect Shepstone to Mthatha in the Eastern Cape. This
 proposal will reduce travel distance by approximately 100 km and improve commuter and freight
 linkages between KZN and Eastern Cape.
- The Margate Airport Upgrade and Mixed-Use Development, which includes the expansion of Margate airport and associated mixed use development, including commercial/mixed use and freight and logistics.

 A Tertiary Education Facility, of which the preferred location is in the vicinity of Port Shepstone and Margate airport. The aim is to retain young people, develop skills and help to drive business development and employment generation within the area.

The significance of the N2 South corridor as part of the Coastal Transformation corridor is that it is aimed at strengthening local connectivity to the international, national, and provincial economy, which hinge on the ability of local, provincial, and national government to fostering human resource development, technology and innovation.

The following are proposed in terms of this corridor:

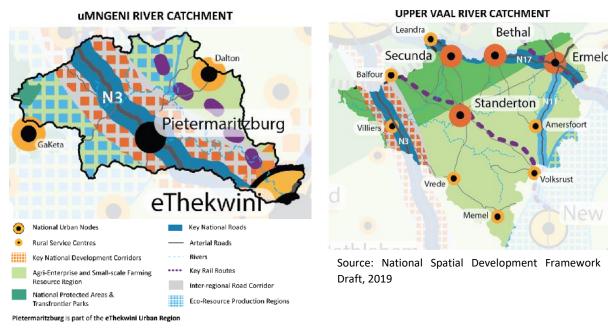
- Enhance cross-boundary collaboration with regards to spatial and economic development.
- Strengthen small-and-medium sized farming activities, agro-eco production and agri-led industrialization.
- Ensure protection and management of ecological infrastructure.
- o Create strong and viable regional development anchors, small towns and small service centers.
- Use rural design, rural/settlement edges and land administration and reform to ensure innovative settlement planning.
- Enhance rural-urban and rural-rural connectivity and ICT infrastructure.
- Plan for and ensure regular infrastructure maintenance.

5.1.8 National and Provincial Resource Risk Areas

There are two catchment areas that were identified in KZN as National Resource Risk Areas:

 the Umngeni River Catchment [Part of eThekwini Metro, Mpofana and Richmond (Umgungudlovu), part of Impendle, Mkhambathini, Msunduzi, uMngeni and Umshwathi in Umgungundlovu District and Umvoti in Umzinyathi District Municipality].

FIGURE 22: KZN NATIONAL RESOURCE RISK AREAS - UMNGENI RIVER CATCHMENT AND UPPER VAAL RIVER CATCHMENT



The National Resource Risk Areas are areas that have national importance to the economy of the country and the lives of its people. They are under severe stress from an ecological perspective, while also being 'resource critical regions' for other economic sectors, such as agriculture and human settlement. Keeping these economies going, and expanding them further, as is currently happening in a number of these catchment areas, poses a serious risk to the quantity and quality of the water supplied by these areas to the country, and presents the country with a serious conundrum and set of trade-offs. Now, however, the trade-offs between water, food and energy security in these areas (and the knock-on effects in other places) are playing out in a largely ad hoc way. It is, however, not due to lack of awareness and concern, as numerous plans refer to the challenge. The problem is that not much has been done to date, with urgent engagement being required concerning the following trade-offs:

- Water supply for eThekwini both domestic and industrial
- Intensive agriculture and
- Expanding settlements

The challenge with the uMgeni River Catchment is that it does not have the capacity to provide water to Ethekwini, the Provincial Urban Core. As a result, other catchments must be used.

Besides water being rerouted from the Umkomaas and Lions River Catchment to the uMgeni Catchment the other challenge is settlement growth.

The Upper Vaal River Catchment affects the municipalities of Dannhauser and part of Newcastle local Municipalities, both in Amajuba District Municipality. However, the catchment area is mainly outside the Province.

Moving towards the future vision for the Province, the various sub-frames have been consolidated to reflect the intended spatial development pattern for the Province.

FIGURE 23: CONSOLIDATED PSDF MAP

