



# **Environmental, Social, Governance (ESG) – Mapping towards a Sustainable Future**

Geo-enabling your business applications and processes to align with sustainability policies.

**25 October 2023 – 14:00-15:30**

Esri SA User Conference  
24-27 October 2023

Deon Marais  
GIS Professional

Environmental Spatial Information (ESI)  
Department: Forestry, Fisheries and the Environment (DFFE)

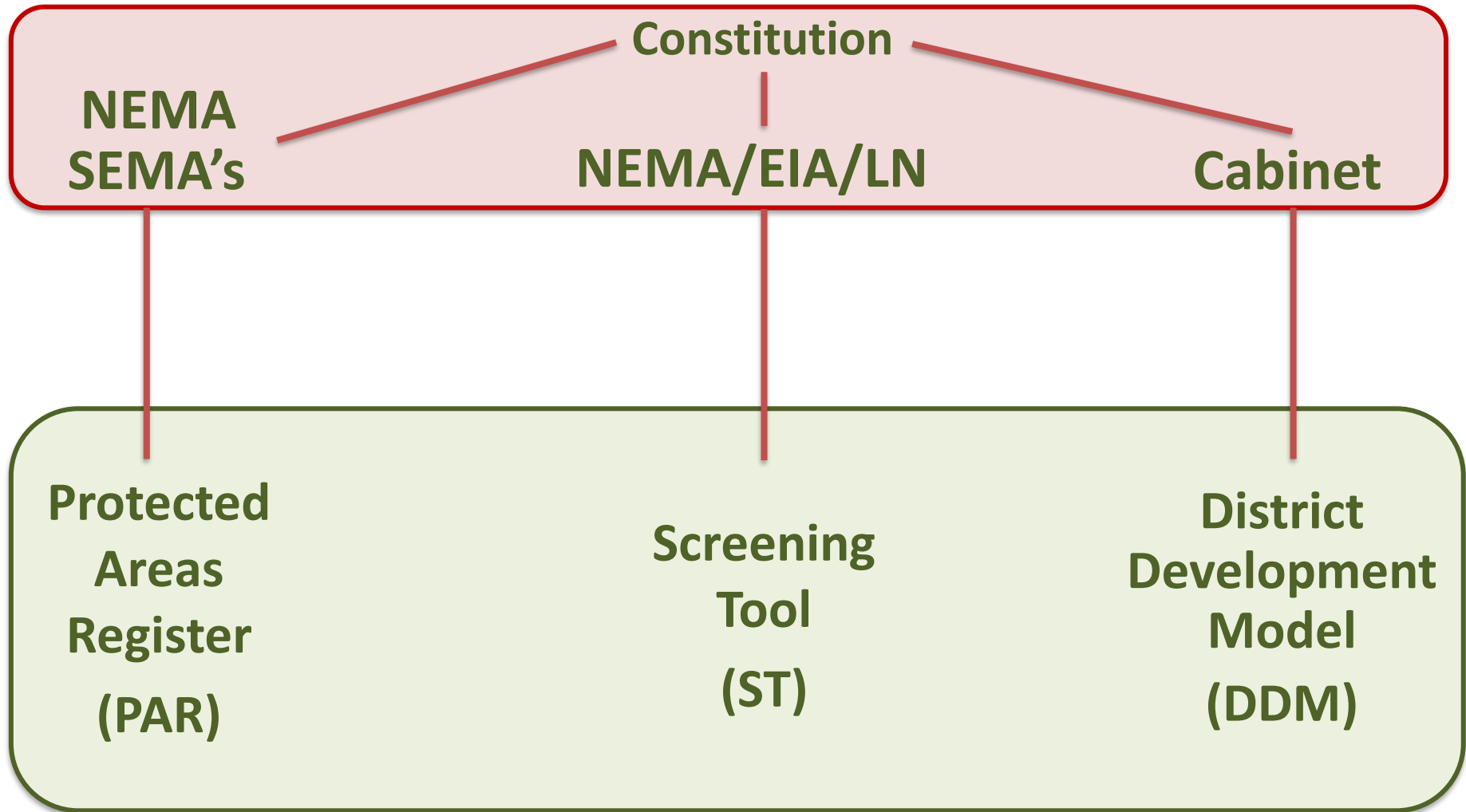


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# Structure of Presentation



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# Legislative Background

**Section 24 of the Constitution** states that: **“Everyone has the right to: an environment which is not harmful to their health or well-being.”**  
**(A Right according to the Bill of Rights)**

The **National Environmental Management Act, 1998** (Act No. 107 of 1998, abbreviated **NEMA**) is the *statutory framework to enforce Section 24 of the Constitution of the Republic of South Africa.*

**NEMA** supported by **5 SEMA’s** –

**Specific Environmental Management Acts:**



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# Constitution - NEMA & 5 SEMA Environmental Acts

The **Constitution** of  
South Africa  
S24 (Environmental Rights)

The National Environmental  
Management Act  
Act 107 of 1998 (**NEMA**)

National Environmental  
Management: Protected  
Areas Act  
Act 57 of 2003 (**NEMPAA**)

National Environmental  
Management: Biodiversity Act  
Act 10 of 2004 (**NEMBA**)

National Environmental  
Management: Waste Act  
Act 59 of 2008 (**NEMWA**)

National Environmental  
Management: Air Quality Act  
Act 39 of 2004 (**NEMAQA**)

National Environmental  
Management: Integrated Coastal  
Management Act  
Act 24 of 2008 (**NEMICMA**)



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# NEMPAA: Protected Areas Register (PAR)

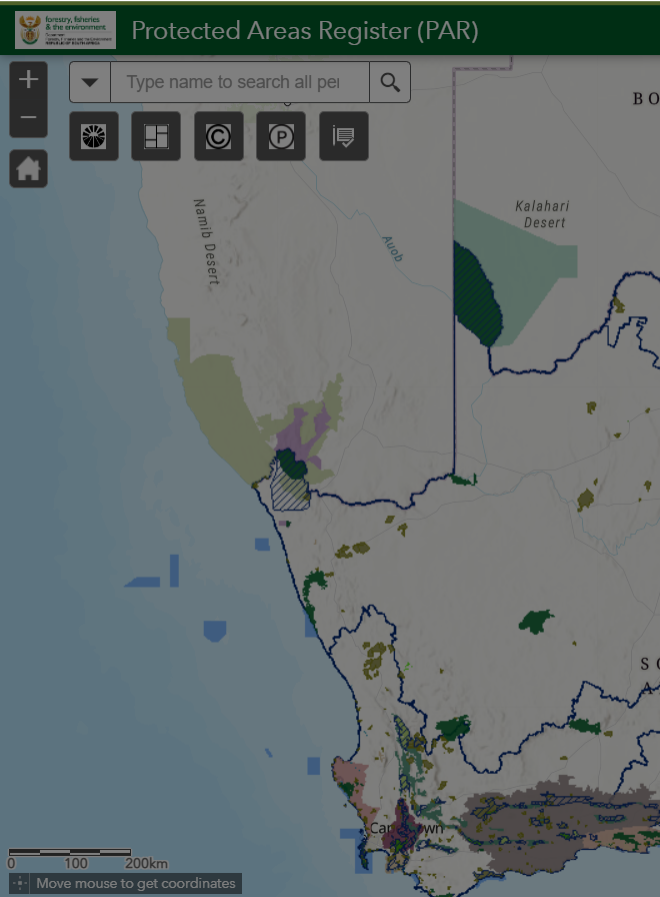
According to the National Environmental Management: Protected Areas Act (Act 57 of 2003), The Minister must maintain a register called the Register of Protected Areas (PAR).

## The Register must:

- contain a **list** of all protected areas;
- indicate the **kind** of protected area in each case; and
- contain any **other** information determined by the Minister.



# NEMPAA: PAR WebApp





According to the National Environmental Management: Protected Areas Act (Act 57 of 2003), the Minister must maintain a register called the

## REGISTER OF PROTECTED AREAS (PAR)

of which the Department of Environmental Affairs is the **data custodian**.

This register contains:  
**Protected Areas**  
and  
**Conservation Areas**  
of South Africa.







Here you will get access to:  
**The MAP VIEWER:**  
*Reflects the latest PACA data layers released for this quarter.*

**The PAR REPORT CREATOR:**  
*Can be used to create quick reports based on the latest PACA data.*  
**UNDER CONSTRUCTION**

**Note:**  
**Protected Areas (PA)** are Legally Declared (Gazetted),  
**Conservation Areas (CA)** are Managed for Biodiversity Conservation but **NOT Legally Declared**.

For 'n copy of the official gazette please e-mail:  
[par@doe.gov.za](mailto:par@doe.gov.za)

Do not show this splash screen again.



## INFO and HELP

### Register of Protected Areas (PAR)

**Information:**

According to the National Environmental Management: Protected Areas Act (Act 57 of 2003), The Minister must maintain a register called the Register of Protected Areas.




A Register of Protected Areas was therefore developed for reporting and mapping purposes of PROTECTED AREAS and CONSERVATION AREAS in South Africa.

This Register used a database called the Protected and Conservation Areas database (PACA) and comprises of all data required for the Register of Protected Areas (legally declared) as well as data on Conservation Areas (areas responsibly managed for biodiversity conservation but not legally declared as Protected Areas).

**How to use the:**  
**PAR MAP SERVICE**

This **interactive map service** shows the various types of PROTECTED AREAS and CONSERVATION AREAS in South Africa.

**Search and Queries Tools:**

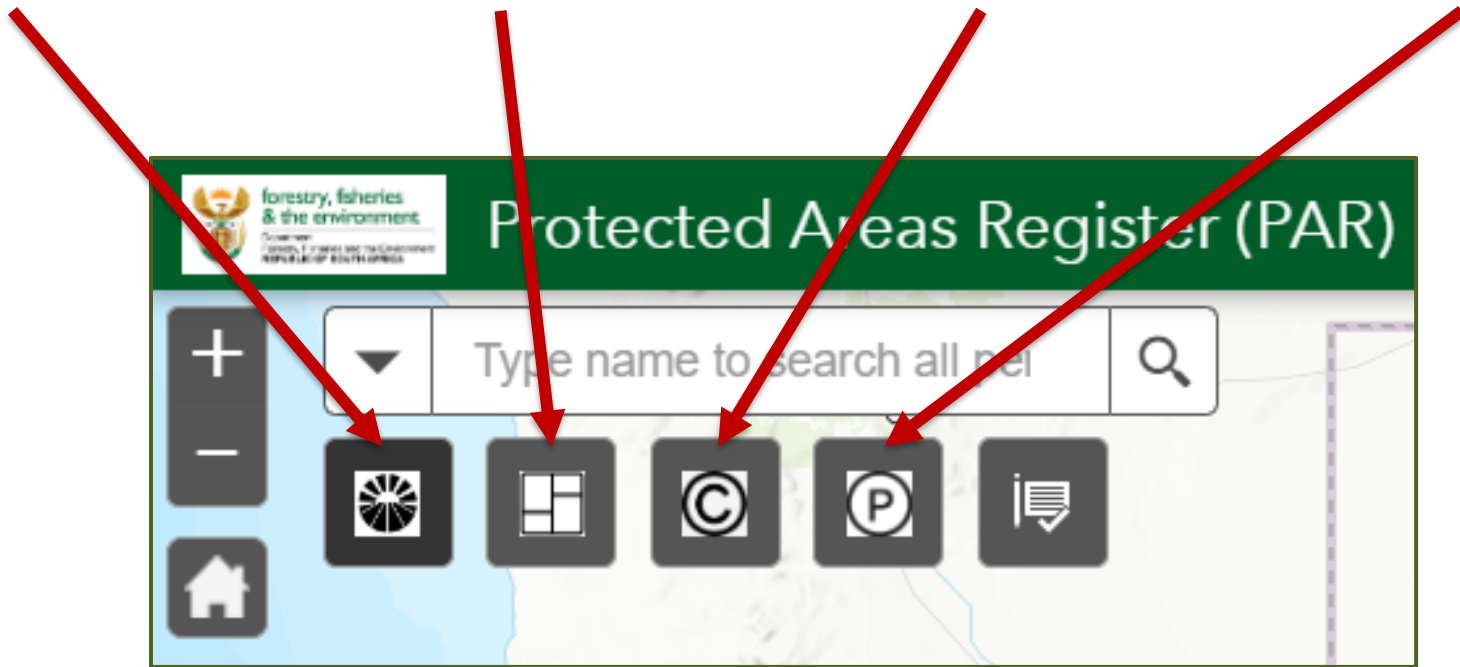
-  Protected Areas Search
-  Conservation Areas Search
- 

App State Search

Click to restore the map extent and layers visibility where you left off.

# NEMPAA: PAR WebApp – Search options

Farm                      Erf                      CA                      PA  
Search                      Search                      Search                      Search



# NEMPAA: PAR WebApp – Azure Reporting

Swipe      Queries      **Reports**

Standard Reports      Custom Reports      My Reports

### Standard Reports

Select from a list of Standard Reports below or configure your own report by clicking the configure button at the bottom

- Conservation Areas Dissolved To Total Area
- List Of All Conservation Areas
- List Of All Conservation Areas Per Province
- List Of All OECM Areas
- List Of All OECM Areas Per Province
- List Of All Protected And OECM Areas
- List Of All Protected Areas
- List Of All Protected Areas Per Province
- List Of Conservation Area Types With Area And Percentages
- List Of OECM Types With Areas And Percentages
- List Of Protected Area Types With Areas And Percentages
- OECM Areas Dissolved Total Area
- Proportion Total Percentage Of Conservation Areas In South Africa
- Proportion, Total Percentage Of OECM Areas In South Africa
- Proportion, Total Percentage Of Protected Areas In South Africa
- Protected Areas Dissolve Total Area
- Total Conservation Estate, PA And OECM Area After Full Dissolve Report

- Conservation Areas Dissolved To Total Area
- List Of All Conservation Areas
- List Of All Conservation Areas Per Province

## Reports

- Proportion Total Percentage Of Conservation Areas In South Africa
- Proportion, Total Percentage Of OECM Areas In South Africa
- Proportion, Total Percentage Of Protected Areas In South Africa





Tankwa-Karoo National Par X



# PDF gazette

**National Park**

Current Name: **Tankwa-Karoo National Park**  
WCM: **National**  
Major Type: **PA**  
Type: **National Park**  
Date Declared: **9/19/1986 12:00 AM**  
Legal Status: **Designated**  
GIS Area (Ha): **143,500.34**  
Gazette: [Pdf Document](#)

[Zoom to](#) ...

# NEMPAA: PAR WebApp – Azure Reporting

GOVERNMENT GAZETTE, 19 SEPTEMBER 1986

No. 10442 33

No. 1934

19 September 1986

## TANKWA-KAROO NASIONALE PARK.— INSTELLING

Ek, John Walter Edington Wiley, Minister van Omgewingsake en Toerisme, kragtens die bevoegdheid my verleen by artikel 2 (2) (a) van die Wet op Nasionale Parke, 1976 (Wet 57 van 1976)—

- (a) verklaar hierby dat die eiendomme in die Bylae hiervan vermeld, 'n nasionale park is wat as die Tankwa-Karoo Nasionale Park bekend staan; en
- (b) wysig hierby Bylae 1 van genoemde Wet deur die byvoeging van die beskrywing van Tankwa-Karoo Nasionale Park.

Geteken te Kaapstad op hede die 5de dag van September 1986.

J. W. E. WILEY,  
Minister van Omgewingsake, en Toerisme.

### BYLAE

#### TANKWA-KAROO NASIONALE PARK

<i>Beskrywing</i>	<i>Grootte (ha)</i>
Grasberg North 1084 .....	3 806,3269
Varsch Fontein 1085.....	3 226,6345
Potklys Berg South 1095.....	4 126,7712
Springbokfontein 1096.....	3 078,5887
Folmoesfontein 1097.....	3 333,8866
Springbok Vlakte 1098.....	3 453,8368
Luipers Kop 1099.....	3 998,8696
Luipers Kop South 1100.....	2 038,7503

No. 1934

19 September 1986

## TANKWA-KAROO NATIONAL PARK.— ESTABLISHMENT

I, John Walter Edington Wiley, Minister of Environment Affairs and Tourism, by virtue of the powers vested in me by section 2 (2) (a) of the National Parks Act, 1976 (Act 57 of 1976)—

- (a) hereby declare that the properties referred to in the Schedule hereto shall be a national park known as the Tankwa-Karoo National Park; and
- (b) hereby amend Schedule 1 to the said Act by the addition of the description of the Tankwa-Karoo National Park.

Signed at Cape Town, this 5th day of September 1986.

J. W. E. WILEY,  
Minister of Environment Affairs and Tourism.

### SCHEDULE

#### TANKWA-KAROO NATIONAL PARK

<i>Description</i>	<i>Extent (ha)</i>
Grasberg North 1084 .....	3 806,3269
Varsch Fontein 1085.....	3 226,6345
Potklys Berg South 1095.....	4 126,7712
Springbokfontein 1096.....	3 078,5887
Folmoesfontein 1097.....	3 333,8866
Springbok Vlakte 1098.....	3 453,8368
Luipers Kop 1099.....	3 998,8696
Luipers Kop South 1100.....	2 038,7503



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# National Web Based Environmental Screening Tool (ST): Environmental Impact Assessment (EIA) in NEMA

**NEMA requires** that an **environmental authorisation (EA)** (sections 24(5) and 44) be issued by a **competent authority (CA)** before the commencement of a **listed activity** (sections 24(2) and 24D) in terms of the **Environmental Impact Assessment Regulations Listing Notices** for Basic Assessment Report (BAR) or scoping & Environmental Impact Assessment.



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# Why the National Web based Environmental Screening Tool?

- In 2014 - EIA regulations 16(1)(b)(v) - the **requirement to submit “the report generated by the National Web based Environmental Screening Tool, ...”**
- Screening Tool (ST) – **specifically designed to provide data for the EIA process**
- The ST **produces the report** required in terms of the EIA requirements
- The ST is based on **national wall-to-wall datasets**
- The ST is **Web based**
- The ST house data based on **national environmental datasets**
- The ST does a **sensitivity “screening”** but does not replace a site assessment
- **Standardization, up-to-date data, save money & time**
- The ST provides a **proactive identification of environmental sensitivities**



# ST: Landing Page



## Welcome to the National Screening Tool

The National Web based Environmental Screening Tool is a geographically based web-enabled application which allows a proponent intending to submit an application for environmental authorisation in terms of the Environmental Impact Assessment (EIA) Regulations 2014, as amended to screen their proposed site for any environmental sensitivity.

The Screening Tool also provides site specific EIA process and review information, for example, the Screening Tool may identify if an industrial development zone, minimum information requirement, Environmental Management Framework or bio-regional plan applies to a specific area.

Some of these documents can then be accessed through the Screening Tool via links, for consideration during screening.

Further to this, the Screening Tool identifies related exclusions and/ or specific requirements including specialist studies applicable to the proposed site and/or development, based on the national sector classification and the environmental sensitivity of the site.

Finally, the Screening Tool allows for the generating of a Screening Report referred to in Regulation 16(1)(v) of the Environmental Impact Assessment Regulations 2014, as amended whereby a Screening Report is required to accompany any application for Environmental Authorisation and as such the tool has been developed in a manner that is user friendly and no specific software or specialised GIS skills are required to operate this system.

All users are required to agree to the [Terms and Conditions](#) before proceeding from the Home Page. The terms and conditions are downloadable by clicking on this [Terms and Conditions](#) link.

\*\*\*\*\*

**Tip:** Bookmark the Screening Tool webpage on your preferred Browser: <https://screening.environment.gov.za/screeningtool>

**Tip:** Sourcing Sensitivity/Original data from the relevant custodian: <https://egis.environment.gov.za/links>

**Note:** We monitor & respond to all Screening Tool related [emails \(screening@environment.gov.za\)](mailto:screening@environment.gov.za) on a daily basis as a matter of priority & we value your inputs.

I agree to the [Terms and Conditions](#)

Next

CA Login

Need help?

### FAQ - Frequently Asked Questions

For a list of frequently asked questions  
[Click here!](#)



### Latest News!

#### Notifications

**\*\*Kindly CLEAR CACHE to effect changes\*\***  
Screening Report [Gazetted Notice](#)  
Amended [EIA Regulations](#)

Get Help

Copyright © 2021 [Terms and Conditions](#)

### Contact Us

Screening Web Master: 012 399 9295  
Screening Tool Assistance: 012 399 9301  
EIA Process Queries : 012 399 8883  
[Web Assistance](#)

Background

Tips

FAQ

Notificatons

Contacts



## ST: Process Steps

1 Select the National Sector Classification Category

2 Identify Site

3 Check Site Sensitivity

4 Place Development Footprint

5 Check Sensitivity of Development Footprint

6 Generate Report

# ST: National Sector Classification

## Select the National Sector Classification Category

You can choose your National Sector Classification Category by selecting an option from the dropdown list below. When you have selected the first option, if there is a sub category for your selection, another selection box will appear for you to select. When the last level category has been selected, details of that classification will be shown in box below. At this stage you may click NEXT

Transformation of lar

Indigenous vegetatic

This is a General related methodology

Home

Next



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# ST: Layer Pane / Map Pane / Sensitivity Pane

You are now viewing the information for the Transformation of land - Indigenous vegetation application

What would you like to do? ▾

View Applications ▾



1 Disclaimer 2 Select a Category 3 Identify Site 4 Check Site Sensitivity 5 Place Footprint 6 Check Footprint Sensitivity 7 Generate Report 8 Link Report to CIPS

Layers

- Screening Site
- Planning Cadastral
- Orientation Map
- Transformation of land - Indigenous vegetation Sensitivity Layers
- Transformation of land - Indigenous vegetation Original Data

Measurement

Measurement Result

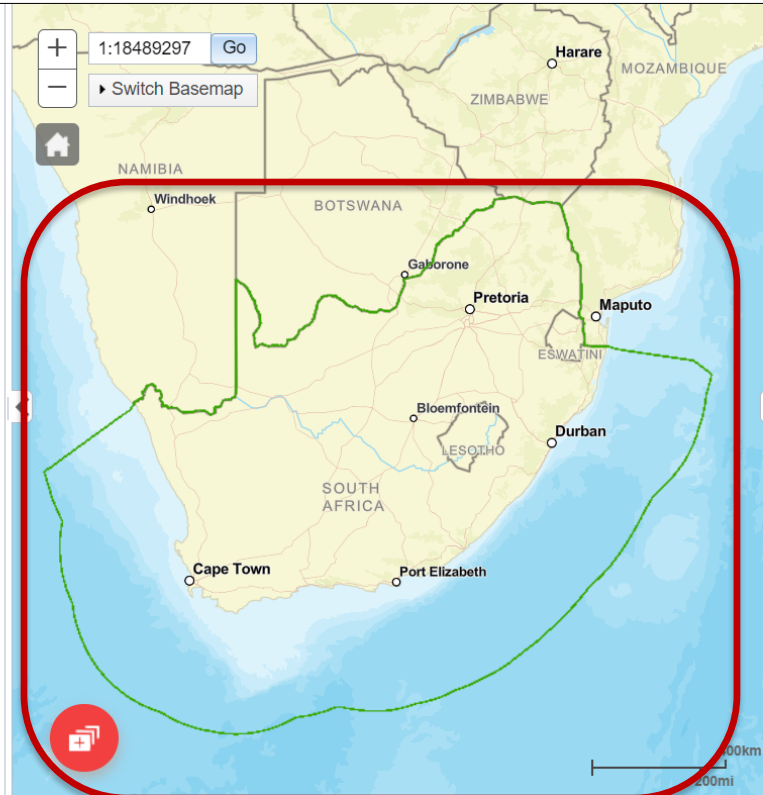
Add Data

Add your data to the map

Drag-and-drop KML files, CSV files, shapefiles, or service urls here or onto the map

Select a Format ▾

Add to map Remove my layers



Identify Site [Get more info...](#)

Search Select Draw Coordinates Upload

Select an option below to search on

- Erf No. and Area Name
- SG 21 Digit Code
- Farm No. and Portion
- Farm Name
- Erf No. and Area Name (Agricultural Holding)
- Placename or Address
- Existing Application

Farm Name:

Use current map extent

Results(Click to flash):

Clear results Search



# ST: Site Functionalities

1:18489297 Go

Switch Basemap

Home

(2 of 2)

Cadastrate	
Oid	9445309
Uniqueid	P245309
Proprsc	Farm Portion
Sg Code	TOLR00000000033100003
Minreg Frmm	STEENBOKSKLOOF
Ma Region	LR
X	28.67021
Y	-23.224865

Zoom to

Identify Site [Get more info...](#)

Search Select Draw Coordinates Upload

Select the property type: All

Select property boundary from the map:

Current select mode: None

Buffer distance (Optional):

Show results within: 0 Kilometers

Create buffer

Results(Click to flash):

0 properties have been selected

Clear results

Create site area

Delete site area

Print

Check site sensitivity

Title: Steenbokskloof

Layout: A4 Landscape

Format: PDF

Back Settings Print

Add map annotations (optional): Select annotation mode

Note: All annotations on your map will be lost when you click on the Back button above. First print and save your map before you go back.

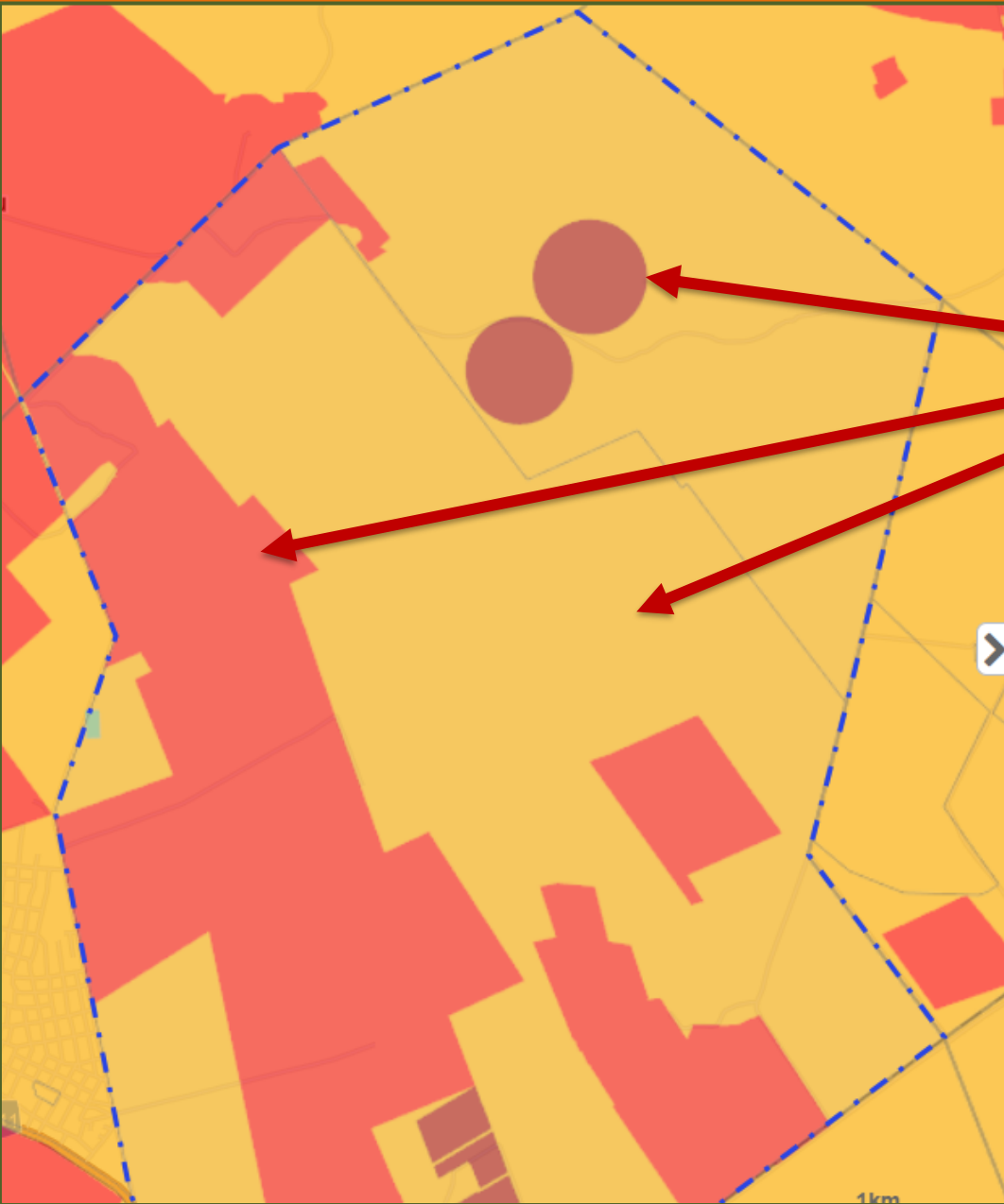


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# ST: Sensitivity Pane



## Check Site Sensitivity

[Get more info...](#)

Check site sensitivity

Download theme layers

Select a Sensitivity Theme to view on the map



Agriculture Theme



Very High

High

Medium

Low

Previous Theme

Next Theme

100% 50% 0%

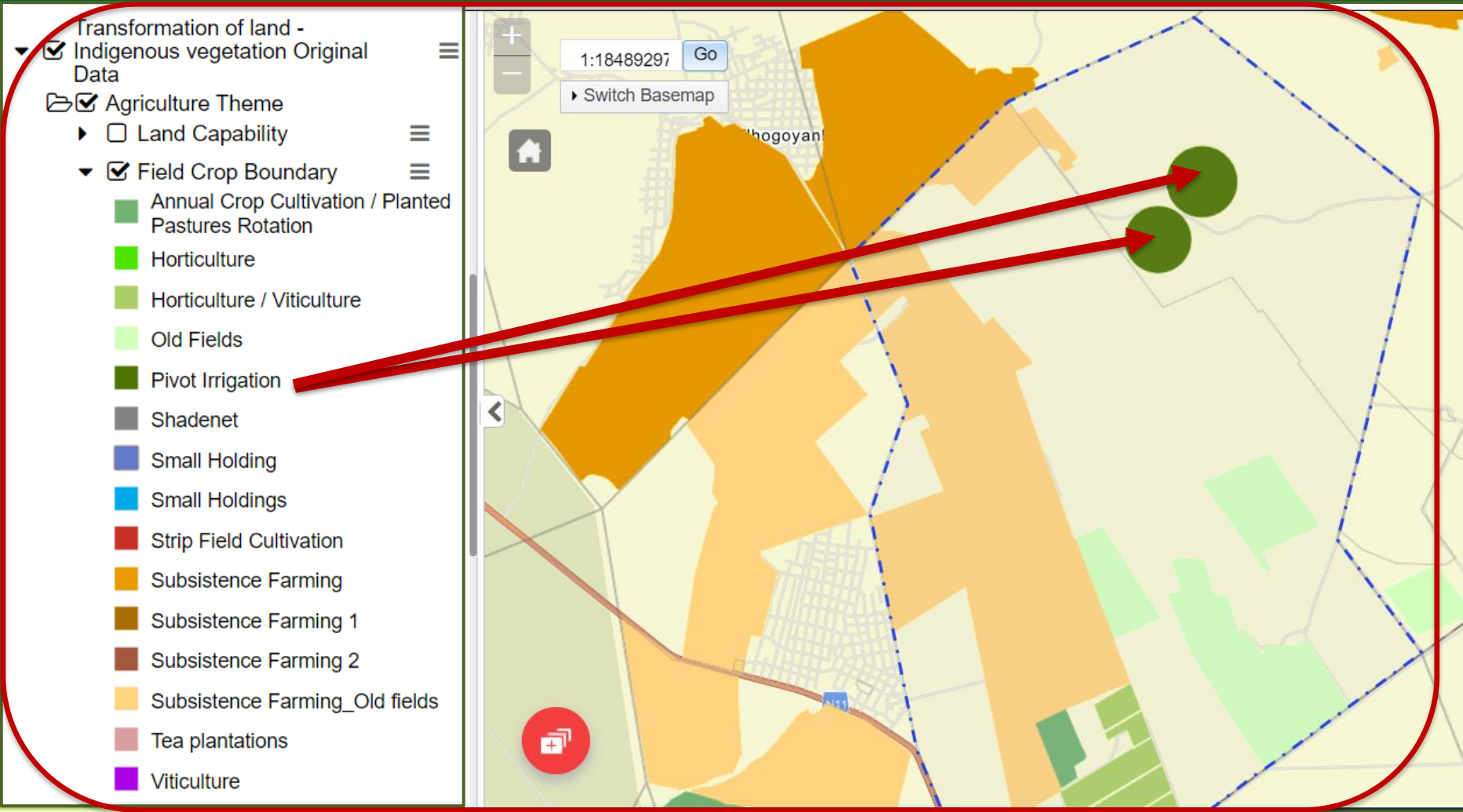
The current area drawn coincides with environmental sensitivities in the following environmental themes:

**Agriculture Combined Sensitivity**

Very High  
High  
Medium  
Low

Show assessment protocol

# ST: Original Data



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Proposed

Orient

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Wind

under

Enviro

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Relev

Propo

Specia

Results

MAP

MAP

MAP

MAP

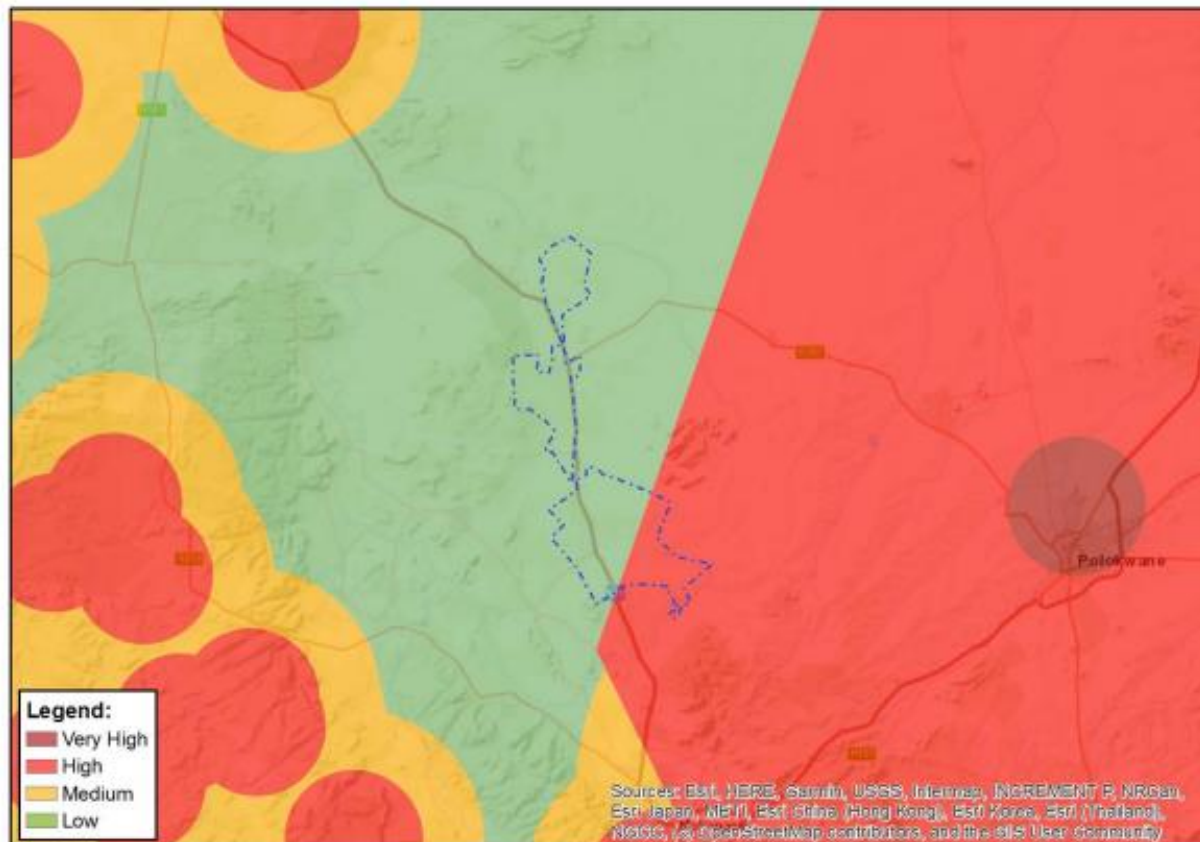
MAP

MAP

MAP

MAP

MAP



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, NEIT, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NOAA, Swisstopo, StreetView contributors, and the GIS User community

0 10 20 40 Kilometers



Very High sensitivity	High sensitivity	Medium sensitivity	Low sensitivity
	X		

Sensitivity Features:

Sensitivity	Feature(s)
High	Dangerous and restricted airspace as demarcated
Low	Low sensitivity
Medium	Between 15 and 35 km from a civil aviation radar

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# District Development Model (DDM) EPIP/NRM/Environmental Sector Projects (ESP) ...



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# DDM: District Development Model

- District Development Model (DDM) initiated by President Cyril Ramaphosa in his Budget Speech in 2019.
- **DDM** was discussed and **adopted by Cabinet**, the 2019 Presidential Coordinating Council (PCC), the March 2020 extended PCC and various MINMECs.”
- Amongst other key words/phrases are:
- ... “pattern of operating in silos” ...
- ... called for the rolling out of “a new integrated district-based approach to addressing our service delivery challenges ...”
- The **Model** consists of a process by which joint and collaborative planning is undertaken at local, district and metropolitan by all three spheres of governance resulting in a single strategically focused One Plan for each of the 44 districts and 8 metropolitan geographic spaces in the country, wherein the district is seen as the ‘landing strip’. (DDM)

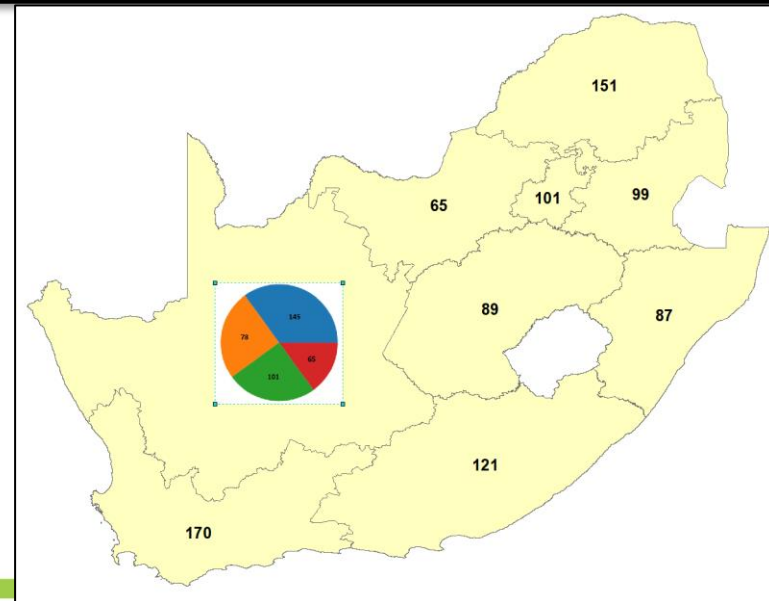
# DDM: Objectives

- The **OBJECTIVES** of the District Development Model are to:
  - Coordinate a government response to address challenges of poverty, unemployment and inequality particularly amongst **women**, **youth** and people living with **disabilities**.
  - Ensure inclusivity by **gender budgeting** based on the needs and aspirations of our people and communities at a local level.  
**Narrow the distance between people and government** by strengthening the coordination role and capacities at the District and City levels.
  - Foster a **practical intergovernmental relations mechanism** to plan, budget and implement jointly in order to provide a coherent government for the people in the Republic; (solve silo's, duplication and fragmentation) maximise impact and align plans and resources at our disposal through the development of "**One District, One Plan and One Budget**".
  - Build government capacity to **support municipalities**.  
Strengthen **monitoring and evaluation** at district and local levels.  
Implement a **balanced approach** towards development between **urban and rural** areas.
  - Exercise oversight over budgets and projects in an accountable and transparent manner.

# DDM: Spreadsheet to Survey123

	A	B	C	
1	Uniquel	BRANCH/PROVINCE/ENTIT	PROJECT NAME	PROJECT DESCRIPTION
2	792	Fisheries	Hamburg cluster (Marine Finfish)	Government project supported by the Department of Environment, Forestry and Fisheries
3	793	Fisheries	Hamburg cluster (Oysters and sea urchins)	Government initiative supported by DEFF, ECDRDAR and ECDC. Sea based oyster farming
	794	Fisheries	Wild Coast Abalone	Private Abalone hatchery and growout farm situated in Haga Haga, Eastern Cape. The
4				
5	795	Fisheries	Wild Coast Abalone Ranching Cluster	Ulwandle Fishing / Wild Coast Abalone undertakes ranching in species: abalone, in the
6	796	Fisheries	East London Aquaculture Development Zone	Aquaculture development Zone, situated in East London Industrial development Zone,
7	797	Fisheries	Disaneng Fishery and Aquaculture	Government project supported by DEFF and the North West Department of Rural, Environ
8	798	Fisheries	Diamond Coast Aquaculture	Private abalone farm situated in Hondeklipbaai, Northern Cape. Operational and produ
9	799	Fisheries	Hondeklip Bay- Abalone (DST Abalone Hatch	Government project supported by DEFF and the Department of Science and Innovation
10	800	Fisheries	Diamond Coast Abalone	Private abalone farm situated in Hondeklipbaai, Northern Cape. This farm has been su
	801	Fisheries	Diamond Coast Abalone Ranching	Private abalone ranching farm situated along the coastline of Hondeklipbaai, Northern

- ✓ Different levels of readiness
- ✓ Initial exercise resulted in many errors, wrong formats (dates, coordinates) ... “Garbage In – Garbage Out” principle
- ✓ Move to automated Survey123 platform using the DFFE ELA in order to consolidate the Environmental Sector Projects



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# DDM: Products

## EPIP/NRM/ESP (Environmental Sector Projects)

### Capture & Update Forms sharing Feature Service

The screenshot displays the ArcGIS Survey123 interface. At the top, the title bar reads "My Survey123". Below the title bar is a search bar and a QR code. The main content area is a grid of form options:

- DDM EPIP Capture Form**: Represented by a brown triangle icon with "EPIP Capture" and "Env Protection & Infrast Prog's".
- DDM EPIP Update Form**: Represented by a yellow triangle icon with "EPIP Update" and "Env Protection & Infrast Prog's". A blue badge with "534" is in the top right corner.
- DDM NRM Capture Form**: Represented by a green rounded square icon with "Capture NRM Nat Resource Management".
- DDM NRM Update Form**: Represented by a yellow rounded square icon with "Update NRM Nat Resource Management". A blue badge with "782" is in the top right corner.
- ESP DDM Capture Form**: Represented by a light green rounded square icon with "Capture DDM Env Sect Proj's (ESP)".
- ESP DDM Update Form**: Represented by a yellow rounded square icon with "Update DDM Env Sect Proj's (ESP)". A blue badge with "1300" is in the top right corner.
- FMIS Capture**: Represented by a circular icon with "FACILITIES MANAGEMENT".
- FMIS Update**: Represented by a circular icon with "FACILITIES MANAGEMENT". A blue badge with "19" is in the top right corner.

Below the grid, there are two additional form options:

- HEADOFFICE: DFFE Record of ...**: Represented by a blue icon of a document with a checklist.
- Waste Management Lic...**: Represented by a blue icon of a document with a checklist.

# DDM: Page 1 - Landing Page / Background

ArcGIS Survey123

Environmental Sector Projects DDM Capture Form

## District Development Model (DDM)

**Capture**  
**DDM**  
**Env Sect**  
**Proj's (ESP)**

**WELCOME to the District Development Model (DDM) Capture Form for Environmental Sector Projects (ESP)!**

<p><b>WHY The "DISTRICT DEVELOPMENT MODEL"?</b> <a href="https://www.cogta.gov.za/ddm/index.php/about-us/">https://www.cogta.gov.za/ddm/index.php/about-us/</a></p> <p>The District Development Model was initiated by President CYRIL RAMAPHOSA in his BUDGET SPEECH in 2019. Subsequently, the District Development Model was discussed and ADOPTED BY CABINET, the 2019 Presidential Coordinating Council (PCC), the March 2020 extended PCC and various MINMECs. The President in the 2019 Presidency Budget Speech (2019) identified the "PATTERN OF OPERATING IN SILOS" as a challenge which led to "to lack of coherence in planning and implementation and has made monitoring and oversight of government's programme difficult". The consequence has been NON OPTIMAL DELIVERY of services and diminished impact on the triple challenges of POVERTY, INEQUALITY and EMPLOYMENT. The President further called for the rolling out of "a new integrated</p>	<p><b>The OBJECTIVES of the DISTRICT DEVELOPMENT MODEL are to:</b></p> <ul style="list-style-type: none"><li>* Coordinate a government response to challenges of <i>poverty, unemployment and inequality</i> particularly amongst <i>women, youth and people living with disabilities</i>.</li><li>* Ensure <i>inclusivity by gender</i> budgeting based on the needs and aspirations of our people and communities at a local level.</li><li>* Narrow the distance between <i>people and government</i> by strengthening the coordination role and capacities at the District and City levels.</li><li>* Foster a <i>practical intergovernmental relations mechanism</i> to plan, budget and implement jointly in order to provide a coherent</li></ul>	<p><b><u>Why is the District Development Model needed?:</u></b></p> <p><i>In order for the State to function and perform optimally and effectively, every organ of State has to perform its core functions well and work harmoniously with other organs of State and with civil society.</i></p> <p>...</p> <p><i>The President has given emphasis to the District Development Model as a unique form of social compacting that involves all key players in every district and metro space to unlock development and economic opportunities, highlighting that "It builds the capacity of the state where it has been most broken."The DDM calls for collaborative planning at district and metropolitan level together by all of government, on the basis of a detailed,</i></p>
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1 of 10

# DDM: Page 3 – Project Information

## Project Information

### IMPORTANT!

This section covers the capturing of information (data) regarding the descriptive nature of the Environmental Project. Compulsory fields are indicated with a red asterisk "\*" and must be completed. Do not skip or ignore compulsory fields since the form will warn you only at completion & updating of data will be impossible.

Note: Text in Maroon contains a "hint" and if a "hand" appears when moving the mouse-cursor over the "hint" (or lookout for the lightbulb) a hyperlink to more descriptive text is available! Simply click next to the hyperlink window to discard the "hint" window.

**UniqueID** **EPWP/Project/File Reference Number\***

*Automatically Generated*

\_\_da65d186

*Type the Filing Reference Number as a Unique id*

**Branch/Province/Entity\***

*Select using the Dropdown Arrow*



**Project Name\***

*Type Project Name*

**Project Description\***

*Type brief description - max 255 characters*

**Project Programme / Focus Area\***

*Select using the Dropdown Arrow*



**Intervention\***

*Select using the Dropdown Arrow*



3 of 10



# DDM: Page 4 (a) – Project Location – filtered DM & LM

## Project Location

### Province\*

Select Province - Select "radio button"

- Eastern Cape Province
- Free State Province
- Gauteng Province
- Kwazulu Natal Province
- Limpopo Province
- Mpumalanga Province
- Northern Cape Province
- North West Province
- Western Cape Province

### District Municipality\*

Select "filtered" District Municipality - Select "radio button"

- City of Johannesburg DM
- City of Tshwane DM
- Ekurhuleni DM
- Sedibeng DM
- West Rand DM

### Local Municipality\*

Select "filtered" Local Municipality - Select "radio button"

- Emfuleni (GT421)
- Lesedi (GT423)
- Midvaal (GT422)

Indicate if the Project covers more than one District Municipality & select these DM's using the relevant Province (filter)

### Multiple Province

Does the Project fall in more than one Province? Select Provinces.

- Eastern Cape Province
- Free State Province
- Gauteng Province
- Kwazulu Natal Province
- Limpopo Province
- Mpumalanga Province
- Northern Cape Province
- North West Province
- Western Cape Province

### Multiple District Municipalities

Does the Project fall in more than one District Municipality? Select District Municipalities.



# DDM: Page 4 (b) – Project Location (Images/Photos)

Provide related photographs to show progress

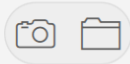
## Project Photo\*

Please provide Photo(s) providing insight into the nature of the Project - PHOTOS LIMITED TO 2 not exceeding 2MB per photo!



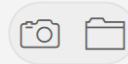
## Before Intervention Photo

Please provide Photo(s) indicating the problem to be addressed - PHOTOS LIMITED TO 2 not exceeding 2MB per photo!



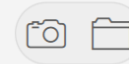
## During Intervention Photo

Please provide Photo(s) showing project activities - PHOTOS LIMITED TO 2 not exceeding 2MB per photo!



## After Intervention Photo

Please provide After Intervention photo(s) - PHOTOS LIMITED TO 2 not exceeding 2MB per photo!



## Comments

Type a brief comment regarding a project that spans more than one Prov, District or Local Municipality & add related Budget/Job breakdown comment(s) - max 255 characters



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# DDM: Page 6 – Project Location

## Project Location (Map)

### General Project Location using Map

*Open the map; Search area of interest; Place a marker as accurately as possible*



**Latitude Degrees**

*Automatically Calculated*

**Latitude Minutes**

*Automatically Calculated*

**Latitude Seconds**

*Automatically Calculated*

**Longitude Degrees**

*Automatically Calculated*

**Longitude Minutes**

*Automatically Calculated*

**Longitude Seconds**

*Automatically Calculated*

**Map Latitude**

*Automatically Extracted from the map*

**Map Longitude**

*Automatically Extracted from the map*

**Project Map Coordinates**

*Automatically generated*

**Address**

*Automatically Extracted from the map*

**Province Name**

*Automatically Extracted from the map*

**District Municipality Name**

*Automatically Extracted from the map*

**Local Municipality Name**

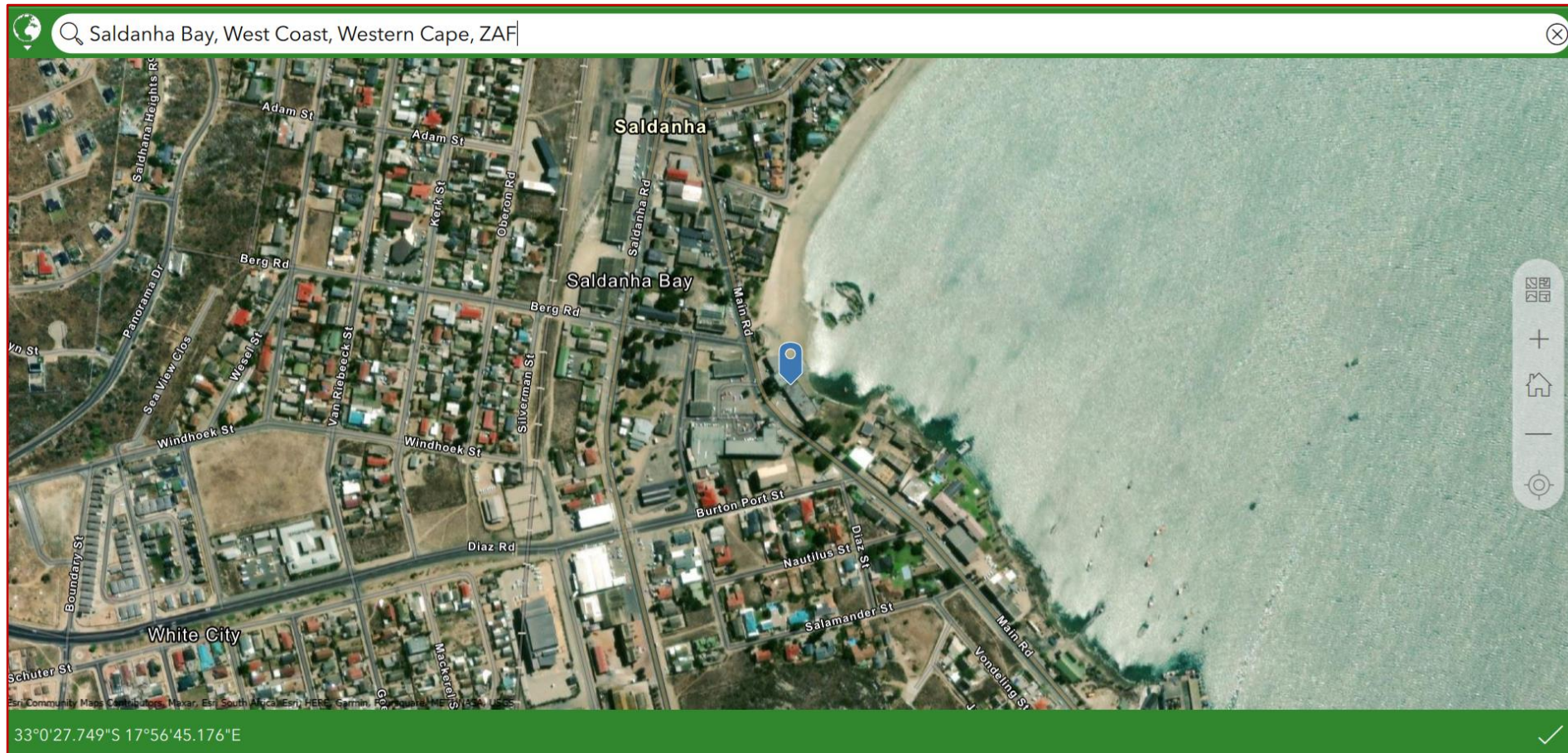
*Automatically Extracted from the map*

**Ward ID**

*Automatically Extracted from the map*



# DDM: Page 6 – Project Location “Pindrop” -- Saldanha Bay Zoom



# DDM: Page 6 – Project Location

## Populated attribute fields (Saldanha Bay)

33°0'S 17°57'E



<b>Latitude Degrees</b> <i>Automatically Calculated</i> <input type="text" value="33"/>	<b>Latitude Minutes</b> <i>Automatically Calculated</i> <input type="text" value="0"/>	<b>Latitude Seconds</b> <i>Automatically Calculated</i> <input type="text" value="27,7488"/>
<b>Longitude Degrees</b> <i>Automatically Calculated</i> <input type="text" value="17"/>	<b>Longitude Minutes</b> <i>Automatically Calculated</i> <input type="text" value="56"/>	<b>Longitude Seconds</b> <i>Automatically Calculated</i> <input type="text" value="45,1752"/>
<b>Map Latitude</b> <i>Automatically Extracted from the map</i> <input type="text" value="-33,007708"/>	<b>Map Longitude</b> <i>Automatically Extracted from the map</i> <input type="text" value="17,945882"/>	<b>Project Map Coordinates</b> <i>Automatically generated</i> <input type="text" value="-33.007708 17.945882"/>
<b>Address</b> <i>Automatically Extracted from the map</i> <input type="text" value="Main Rd, Saldanha, West Coast, Western Cape, 7395"/>	<b>Province Name</b> <i>Automatically Extracted from the map</i> <input type="text" value="Western Cape"/>	<b>District Municipality Name</b> <i>Automatically Extracted from the map</i> <input type="text" value="Saldanha Bay"/>
<b>Local Municipality Name</b> <i>Automatically Extracted from the map</i> <input type="text" value="Saldanha Bay WC014"/>	<b>Ward ID</b> <i>Automatically Extracted from the map</i> <input type="text" value="WC014"/>	



# DDM: Page 10 – Project Location

## Additional Point/Line/Poly(s) - (“Repeat”)

### ▼ Add Polygon detail

#### Area Description

Type Area (Polygon) Description

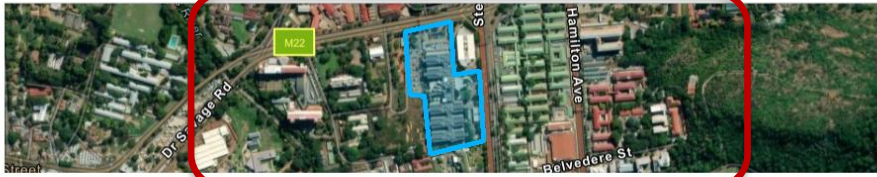
DFFE



#### Area Feature

Draw Area Feature on the Map

Area: 3,58 hectares, Perimeter: 901 m



#### Area Perimeter (m)

Automatically generated

900,7

#### Area Size (hectare)

Automatically generated

3,58



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# DDM: Page 11 – Project Start-End Date Filtering

## Project Duration & Budget Allocation

Project Start Date\*

Select a Date

Tuesday, 01 February 2022



Project End Date\*

Select a Date

Saturday, 01 June 2024



Project Hand Over Date

Select a Date

Sunday, 30 June 2024



Financial Year Start \*

Automatically generated as reference

2021

Financial Year End \*

Automatically generated as reference

2025

Funding Mechanism\*

Select using the Dropdown Arrow

Government Funding (Medium Term Financial Strategy)



Currency of Values provided\*

Choose Currency Type using the Dropdown Arrow

ZAR



Project Budget Requested\*

Type a "0" (zero) using the Tablet if the amount not known/available

5000000,56



Value:

For reference

R/\$/£/€: 5 000 000.56

Project Budget Allocated\*

Type a "0" (zero) using the Tablet if the amount not known/available



Value:

For reference

R/\$/£/€: 0.00

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# DDM: Page 12 – Budget & Jobs (Attribute Data)

## Annual Budget & Jobs Created

### Financial Years:

#### Financial Year\*

 The Financial Years are filtered based on the Project Start & End Dates as selected. SELECT the Financial Years sequentially BY SELECTING/CLICKING the "RADIO BUTTON" (circle) without skipping a year & populate the Budget & Job related detail. **IMPORTANT NOTE:** Select a "radio button" related to a specific Financial Year (eg 2022/23) & populated all the information for that Financial Year. Use the "+" at the bottom of the page to add a second "Financial Year Page" and select the next relevant Financial Year's "radio button" (eg 2023/24) & populate all the fields accordingly. Do not use the "radio buttons" of the Financial Years to verify data, BUT "toggle" through the different pages at the bottom of the "Annual Budget & Jobs Created" main page using the left & right arrows

- 2021/22
- 2022/23
- 2023/24
- 2024/25

#### Budget: Spent\*

Type a "0" (zero) using the Tablet if the amount not known/available



#### Value:

For reference

R/\$/£/€: 0.00

#### Budget: Committed Private Sector\*

Type a "0" (zero) using the Tablet if the amount not known/available



#### Value:

For reference

R/\$/£/€: 0.00

### Jobs Created

#### Jobs: Youth\*

Type a "0" (zero) using the Tablet if the amount not known/available



#### Jobs: Woman\*

Type a "0" (zero) using the Tablet if the amount not known/available



#### Jobs: Disability\*

Type a "0" (zero) using the Tablet if the amount not known/available



#### Jobs: Men\*

Type a "0" (zero) using the Tablet if the amount not known/available



#### Jobs: LGBTQ\*

Type a "0" (zero) using the Tablet if the amount not known/available

#### Jobs: Number of Jobs Created\*

Type a "0" (zero) using the Tablet if the amount not known/available

#### Jobs: Number of Person Days\*

Type a "0" (zero) using the Tablet if the amount not known/available

#### Jobs: Number of Full Time Jobs Created (FTE)

# DDM: Page 14 – Contact Details

## Government Project Manager Contact Details

**Government Cluster Manager Name\***

Type Name

**Government Cluster Manager E-mail address\***

Type e-mail address

**Government Cluster Manager Tel Number\***

Type 10-digit cell/tel number

**Government Project Manager Name\***

Type Name

**Project Manager E-mail address\***

Type e-mail address

**Project Manager Tel Number\***

Type 10-digit cell/tel number

**Government Implementation Manager Name\***

Type Name

**Project Implementation Manager E-mail address\***

Type e-mail address

**Project Implementation Manager Tel Number\***

Type 10-digit cell/tel number

**Date Updated\***

Select a Date

**Project Data Updated By\***

Type Name

# DDM: Using the Data to inform DECISIONS

## Environmental Programmes - Progress

Select District  
No category selected

### Count of Projects

553

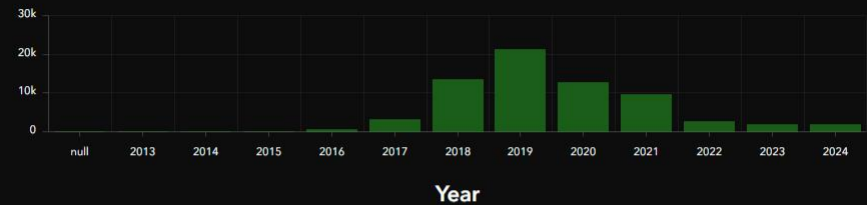
### EPIP compared to Departmental Projects



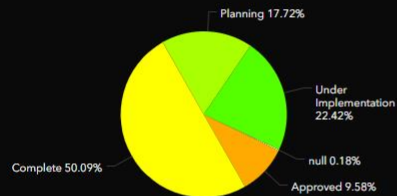
### Budget Allocated versus Budget Spent

27Bn  
1.8Bn

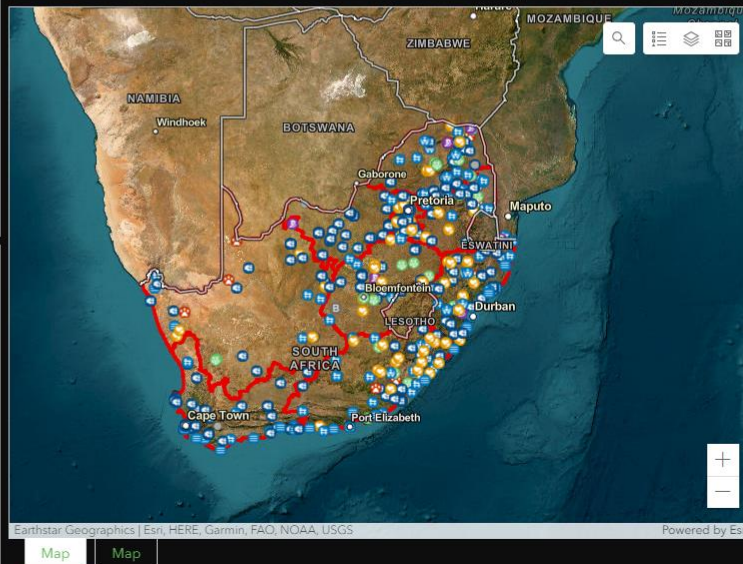
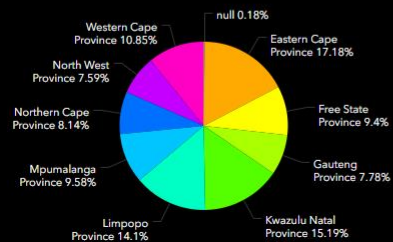
### Number of Jobs Per Year



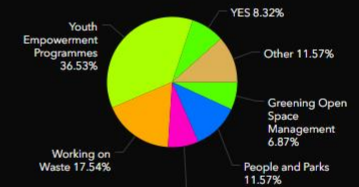
### Project Status



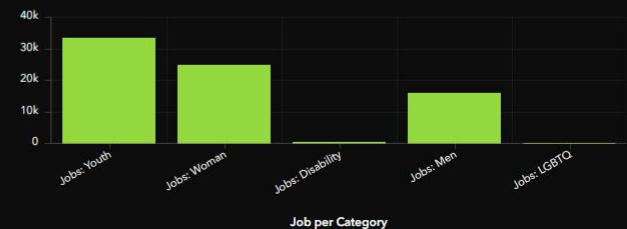
### Distribution of Projects Per Province



### Projects Per Focus Area



### Jobs per Category



## Other Environmental Tools

- National Climate Change Information System (**NCCIS**)
- South African Waste Information Centre (**SAWIC**)
- Spatial representation of the DFFE Annual Performance Plans (**APP's**)
- Work of **Forestry, Oceans & Coasts** AND the 4 entities:  
**SANBI / SAWS / SANParks & iSimangaliso Wetland Authority (part of ELA)**

# THANK YOU!

Relevant URL's: *(Uniform Resource Locator)*

**Protected Areas Register (PAR):**

<https://egis.environment.gov.za/>

**Screening Tool:**

<https://screening.environment.gov.za/screeningtool/>

**District Development Model (DDM):**

<https://www.cogta.gov.za/ddm/>

**Deon Marais**

[dmarais@dffe.gov.za](mailto:dmarais@dffe.gov.za)

Environmental Spatial Information (ESI)

Department of Forestry, Fisheries and the Environment

Website: <http://www.environment.gov.za>

Address: The Environment House, 473 Steve Biko Road, Arcadia, Pretoria, 0083

Thank You

# NEMPAA: Protected Areas Register (PAR)

The spatial feature layers called **PACA (Protected and Conservation Areas)**, comprises of all **legally declared Protected Areas** as well as **Conservation Areas (areas responsibly managed** for biodiversity conservation but not legally declared as protected areas) and can be searched and viewed through the use of the **Protected Areas Register (PAR) Interactive Map** and can be easily access from the **DFFE webpage** under the **E-Tools/EGIS tab**.



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# National Web Based Environmental Screening Tool (ST): Environmental Impact Assessment (EIA) in NEMA

**Environmental Impact Assessment (EIA)** is a critical examination of the effects of a project on the environment.

The Act (NEMA) ... makes the **regulations** pertaining to **environmental impact assessments (EIAs)**, under sections 24(5) and 44 of the **National Environmental Management Act, 1998 (Act No. 107 of 1998)**, ...

**NEMA --- EIA Regulations --- Listing Notices 1 / 2 & 3** (to identify activities and competent authorities in terms of sections 24(2) and 24D of NEMA)



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