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# Botswana's Online Mining Cadastre System

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Landfolio LatAm Xperience - 4 May 2023

# Outline

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Botswana, its geology & minerals

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Ministry of Mineral Resources, Green Technology and Energy Security (MMGE) & Botswana Geoscience Institute (BGI)

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# 01

## **Project Context**

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Botswana, its geology & minerals



# Botswana

“The land of the Tswana”<sup>1</sup>

**Population:** 2.65 million in Jan 2023<sup>2</sup>

**Area:** 581 730 km<sup>2</sup> \*

**4.4 people** per km<sup>2</sup> \*

**Elevation:** 1 013 metres above sea level \*



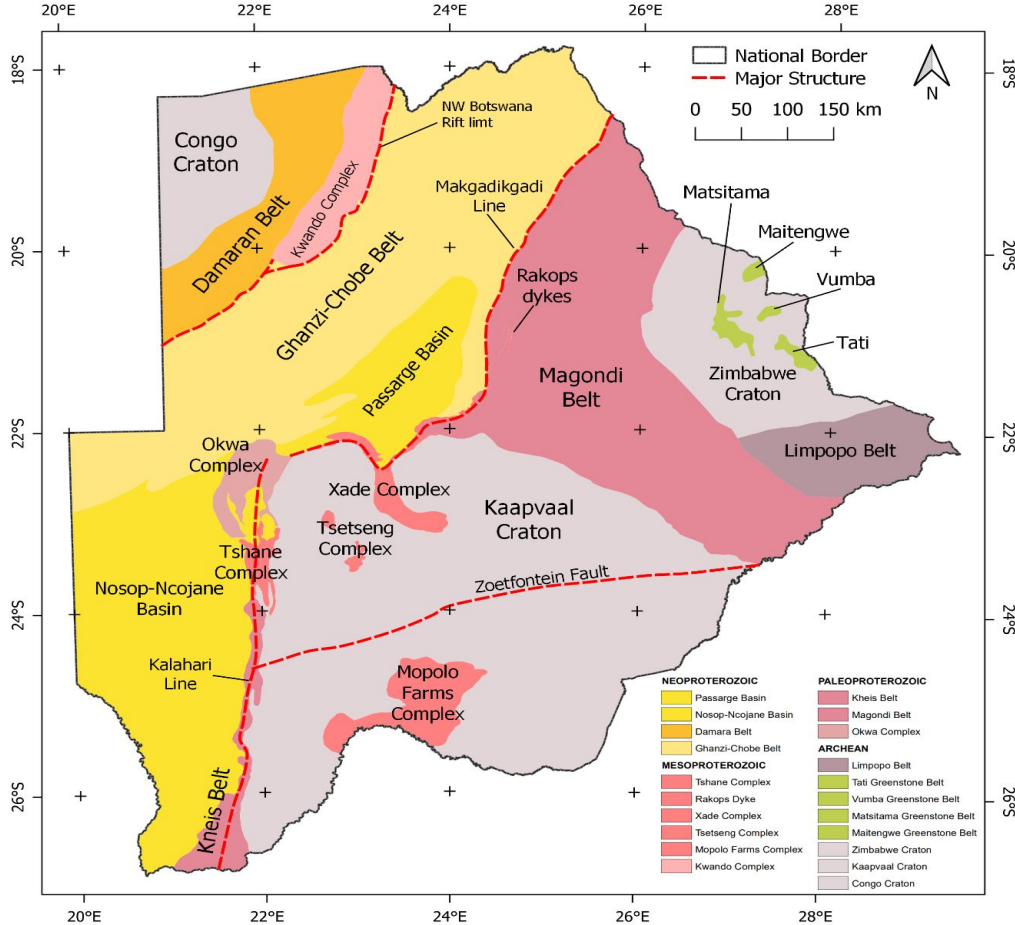
<sup>1</sup> [https://www.botswana.co.za/History\\_of\\_Botswana-travel/botswana-country-guide-dung-to-diamonds.htm](https://www.botswana.co.za/History_of_Botswana-travel/botswana-country-guide-dung-to-diamonds.htm)

<sup>2</sup> <https://datareportal.com/reports/digital-2023-botswana>

\* <https://www.worlddata.info/africa/botswana/index.php>



# Botswana's Geology



## NEOPROTEROZOIC

- Passarge Basin
- Nosop-Ncojane Basin
- Damara Belt
- Ghanzi-Chobe Belt

## MESOPROTEROZOIC

- Tshane Complex
- Rakops Dyke
- Xade Complex
- Tsetseng Complex
- Mopolo Farms Complex
- Kwando Complex

## PALEOPROTEROZOIC

- Kheis Belt
- Magondi Belt
- Okwa Complex

## ARCHEAN

- Limpopo Belt
- Tati Greenstone Belt
- Vumba Greenstone Belt
- Matsitama Greenstone Belt
- Maitengwe Greenstone Belt
- Zimbabwe Craton
- Kaapvaal Craton
- Congo Craton



# Mineral Occurrences

- **Diamonds**
  - 80% of the country's export revenues <sup>1</sup>
- Gold
- Copper
- Nickel
- Uranium
- Iron
- Coal

<sup>1</sup> [https://www.export.gov/article?series=a0pt0000000PAtNAAW&type=Country\\_Commercial\\_\\_kav](https://www.export.gov/article?series=a0pt0000000PAtNAAW&type=Country_Commercial__kav)



# 02

## Who is the client?



# Ministry of Mineral Resources, Green Technology and Energy Security (MMGE)

## Departments/Sections:

- Department of Corporate Services
- Department of Mines
- Department of Energy
- Mineral Affairs Division
- Diamond Hub
- Projects & Energy Development Unit

## Parastatals

- Botswana Power Corporation (**BPC**)
- Botswana Energy Regulatory Authority (**BERA**)
- Botswana Geoscience Institute (**BGI**)
- Okavango Diamond Company (Pty) Ltd. (**ODC**)
- Botswana Oil Limited. (**BOL**)
- Minerals Development Company Botswana (**MDCB**)





# 03

## Vision & Goals

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Vision 2036 & NDP 11



# Botswana's Vision 2036

*“...aims to transform Botswana from an upper middle-income country to a high-income country by 2036”*





## The Pillars

Botswana's economic, social, environmental and governance systems are interconnected, and define the pillars of our vision. Driving and coordinating these pillars towards a common destiny requires a fine balance that uses sustainability and transformation as a common lens and pathway to the future we want.



### Sustainable Economic Development

By 2036, Botswana will be a high-income country, with an export led economy underpinned by diversifies, inclusive and sustainable growth driven by high levels of productivity.

[Learn More >](#)



### Human and Social Development

By 2036 Botswana will be a moral, tolerant and inclusive society that provides opportunities for all.

[Learn More >](#)



### Sustainable Environment

By 2036, sustainable and optimal use of our natural resources will have transformed our economy and uplifted our people's livelihoods.

[Learn More >](#)



### Governance, Peace and Security

By 2036, Botswana will be a land of peace, freedom and progressive governance.

[Learn More >](#)

## Vision 2036

### The Pillars



*MINERAL SECTOR*

The diamond led mineral sector is an important contributor to our economy. It is a major source of government revenue, foreign direct investment and foreign exchange earnings.

**We will have a sustainable, vibrant and diversified mineral sector that is integrated into other sectors of the economy.** We will mine and beneficiate mineral resources where viable, and exploit the entire mineral value chain. We will pursue initiatives that ensure continuous social and economic activity in mining areas post mining. Technology will be used to enhance the efficiency and competitiveness of mining and beneficiation activities.

*AGRICULTURAL SECTOR*

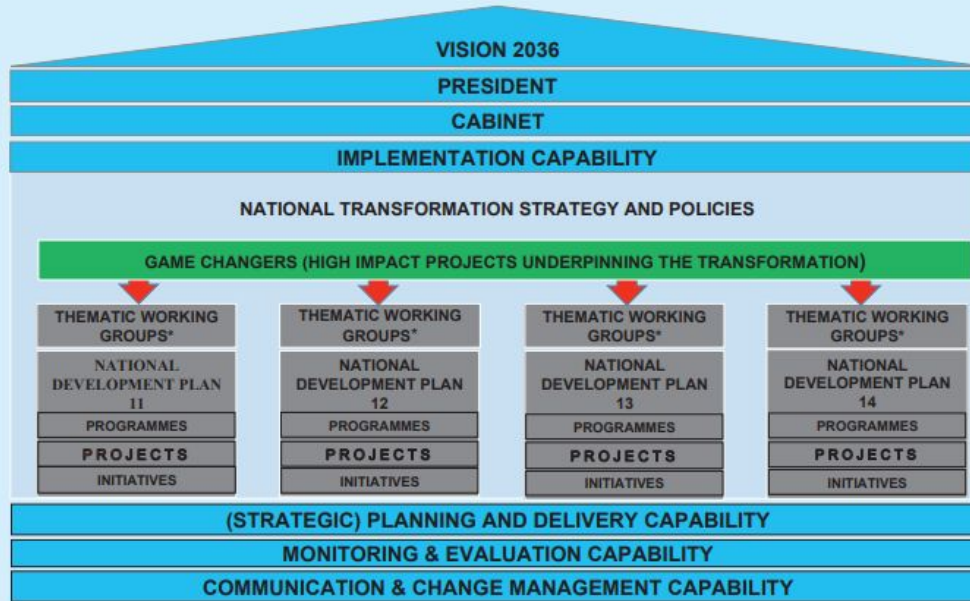
Many of our people live in rural areas where agricultural activities take place. If well

## Vision 2036

### Mineral Sector



FIGURE 1: VISION 2036 DELIVERY MECHANISM



## Vision 2036

Delivery Mechanism



# **National Development Plan 11**

*Facilitate digitalisation in the country by implementing a new Mining Cadastre System*



# 04

## Project Implementation

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Planning & execution



# Proposed Timeline

- **Inception phase** - 2 months
- **Configuration phase** - 5 months
- **Training phase** - 2 months
- **Go-live phase** - 3 months
- **Post go-live support phase** - 24 months





# Scope & Goals

- Allow investors to **manage mineral rights online**
- Provide a **portal with an interactive web map**
- Provide a **platform** for efficient and reliable **management of mineral licences**
- Improve **transparency**, access to information and security of tenure
- Procure and install **infrastructure**
  - Hardware, software, network and peripheral devices



# Implementation

- **Commenced** in August 2021
- **Completed** in September 2022
- **Launched** in October 2022



# 05

## Outcomes

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Key results & outputs



Search

< Home

Settings

Home

Licences

- Exploration
- Explosives
- Mining
- Miscellaneous
- Prospecting

Agreements

Actions

Maps

Reports

Documents

Companies

People

My Settings

Admin Tools

e-Gov Portal

Help

Licence Summary

Licence Type Group	Application	Active	Inactive
Exploration	3	3	0
Explosives	77	256	99
Mining	53	178	80
Miscellaneous	71	94	60
Portal Communication	0	0	0
Prospecting	261	1637	112

Action Summary

Actions	All Actions	My Actions
Overdue:	18019	0
Due today:	26	0
Due this week:	994	0

My Reports

My Searches

Today's Notifications ( All Notifications )

Mineral Concessions Tasks

- Add a Licence
- Add a new Development Licence Application
- Add a new Exploration Licence Application
- Add a new Mineral Permit Application
- Add a new Mining Licence Application
- Add a new Prospecting Licence Application
- Add a new Retention Licence Application
- Schedule New Action
- Amendment Request
- Application Withdrawal Request
- Area Enlargement
- Full Revocation / Cancellation
- Full Surrender Request
- Inspection Report - Machinery & Electrical

Miscellaneous

- Add a Licence
- Add a new Miscellaneous - Bulk Sampling Permit Application
- Add a new Miscellaneous - Approval of Arc Welding Application
- Add a new Miscellaneous - Bulk Sampling Permit Application
- Add a new Miscellaneous - Export Mineral Samples Permit Application
- Add a new Miscellaneous - Export of Semi-Precious Stones Licence Application
- Add a new Miscellaneous - Import of Precious Stones Application
- Add a new Miscellaneous - Letter of Good Standing Application
- Add a new Miscellaneous - Permit to Import Minerals
- Add a new Miscellaneous - Semi-Precious Stones Dealers Licence Application
- Add a new Miscellaneous - Tender Clearance Certificate Application
- Add a new Miscellaneous - Unwrought Precious Metals Permit Application

# Outcomes

Landfolio - efficient and reliable management of mineral licences



# Licence Types

- Exploration Licences
- Explosives Licences
  - various authorisation types, blasting, construction of facilities, licenses to manufacture, sell, possess, etc.
- Mining Licences
  - Development Licence, Minerals Permit & Mining Licence
- Prospecting Licences
- Other Miscellaneous Licences





Applications Evolution **Commodities**

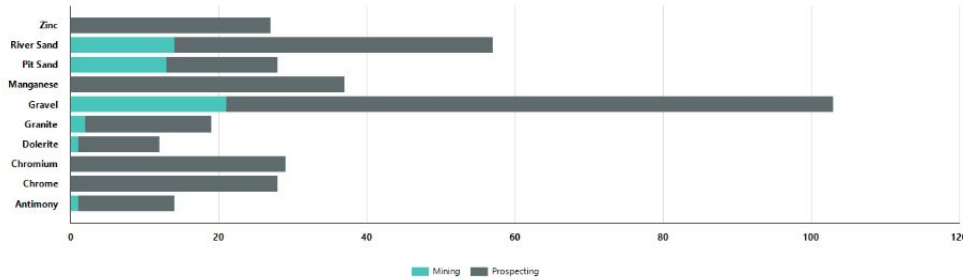
Commodity Agate,All Semi Precious Sto

License Type Group Exploration,Explosives,Minir

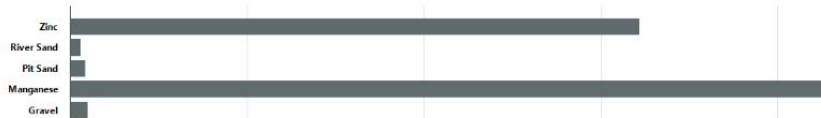
License Type Code E-ABS,E-AEE,E-AUDF,E-BL,E-

View Report

Top 10 Commodities (No. of Applications)



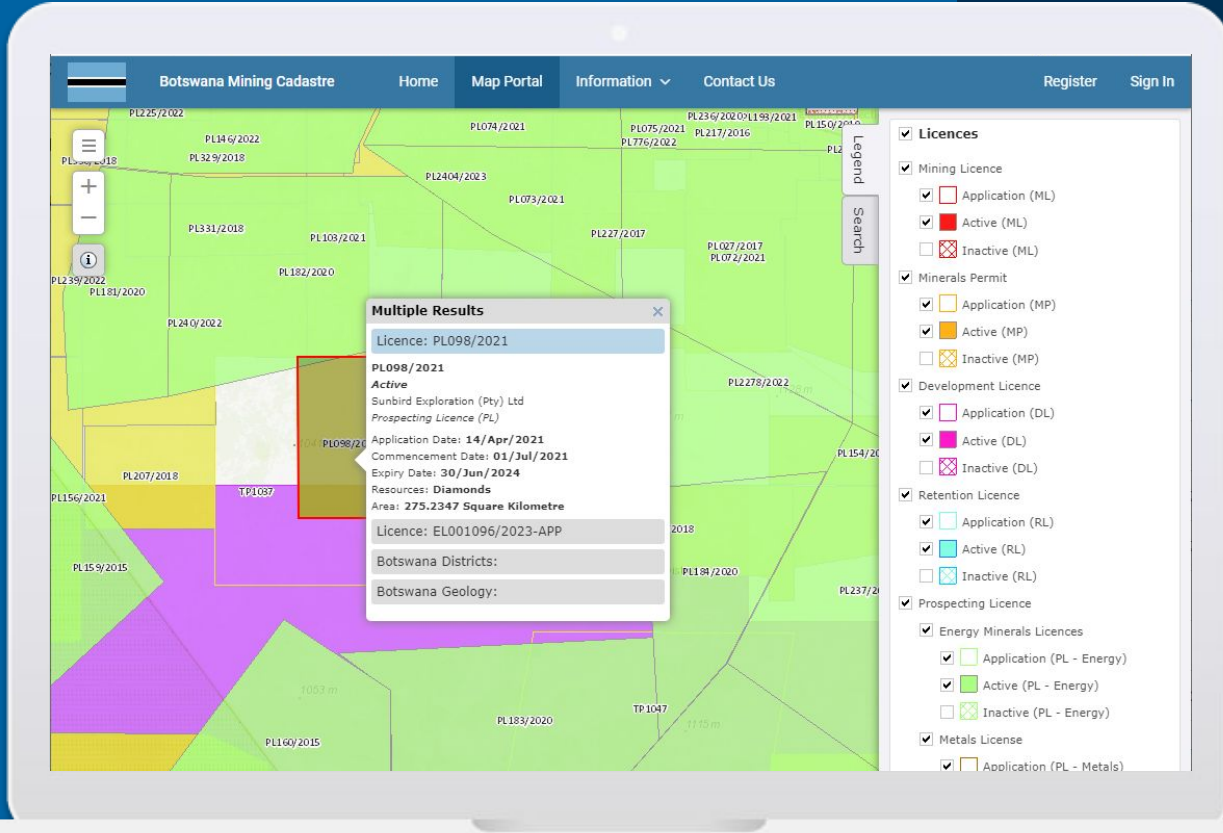
Top 10 Commodities (Area)



## Outcomes

**Dashboard** - efficient and reliable management of mineral licences

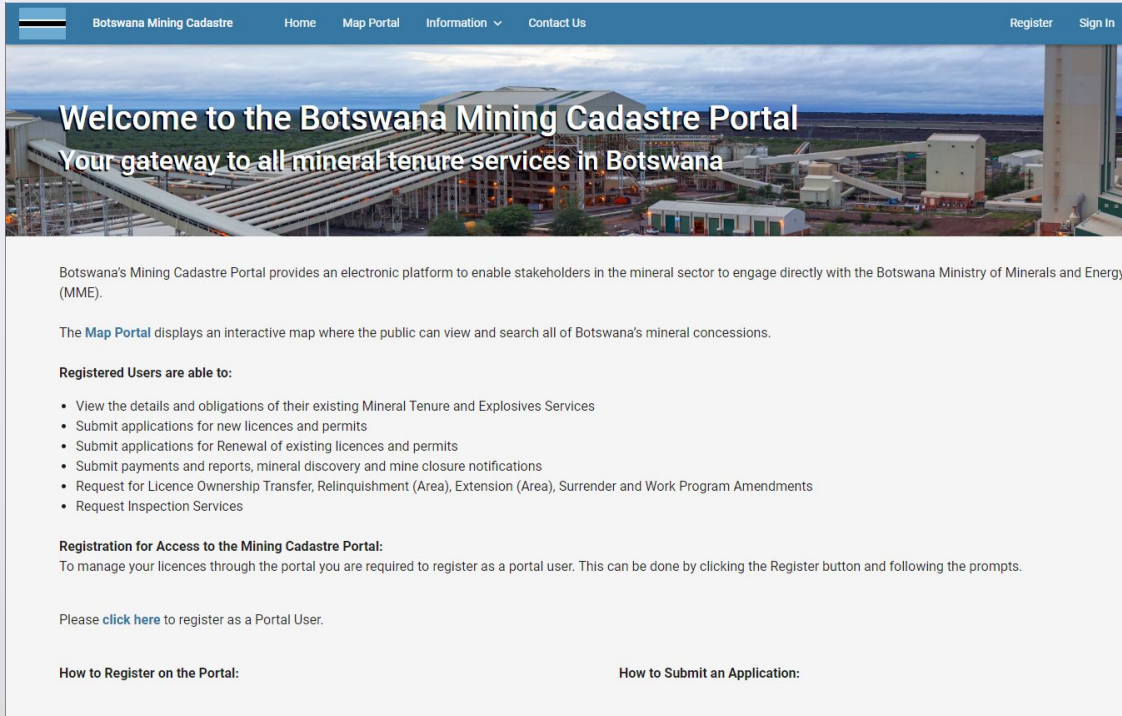




## Outcomes

**Map Portal** - interactive web map: improve transparency, access to information and security of tenure





Botswana Mining Cadastre Home Map Portal Information Contact Us Register Sign In

## Welcome to the Botswana Mining Cadastre Portal

### Your gateway to all mineral tenure services in Botswana

Botswana's Mining Cadastre Portal provides an electronic platform to enable stakeholders in the mineral sector to engage directly with the Botswana Ministry of Minerals and Energy (MME).

The [Map Portal](#) displays an interactive map where the public can view and search all of Botswana's mineral concessions.

**Registered Users are able to:**

- View the details and obligations of their existing Mineral Tenure and Explosives Services
- Submit applications for new licences and permits
- Submit applications for Renewal of existing licences and permits
- Submit payments and reports, mineral discovery and mine closure notifications
- Request for Licence Ownership Transfer, Relinquishment (Area), Extension (Area), Surrender and Work Program Amendments
- Request Inspection Services

**Registration for Access to the Mining Cadastre Portal:**

To manage your licences through the portal you are required to register as a portal user. This can be done by clicking the Register button and following the prompts.

Please [click here](#) to register as a Portal User.

**How to Register on the Portal:** **How to Submit an Application:**

## Outcomes

**Transactional Portal** - investors can manage mineral rights **online**





# Usage Metrics

Since 1 November 2022

- 117 users fully registered in the Portal
- 184 payments submitted online
- 646 new licence applications received



# 06

## Demo

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