

# CREATING A **BETTER FUTURE** THROUGH THE METALS WE PRODUCE



RESPECT, CARE  
AND DELIVER

 **ZIMPLATS**  
Member of the Implats Group

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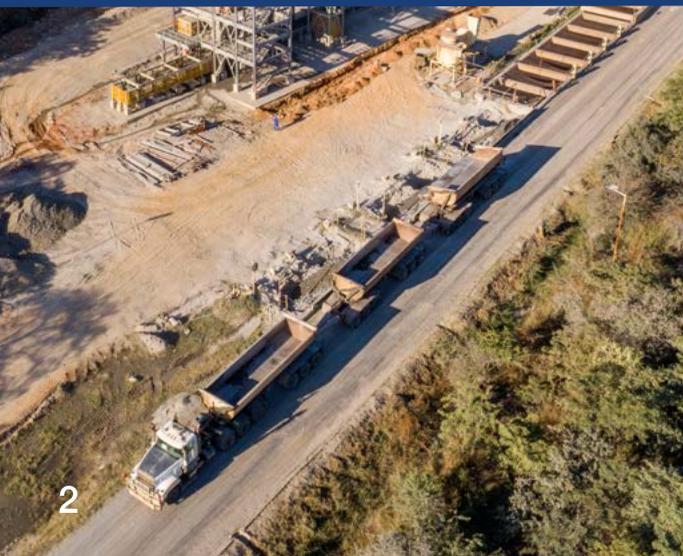
## WHO WE ARE

We are Zimplats, member of the Implats Group, a leading globally integrated metals producer. We are the leading PGM's producer along the Great Dyke in Zimbabwe.



### **We are focused on creating a better future**

- We align the interest of our stakeholders behind our ability to unlock the power of the metals we produce to improve the quality of life for everyone, today and for generations to come.
- We are sustainable and competitive thinkers with a strong focus on long-term value creation.
- We seek to deliver to the full potential of our assets and place sustainable practices at the core of our business.
- We operate in an environmentally and socially responsible way.





## Purpose

Creating a better future through the metals we produce and through the way we do business

## Vision

To be the most valued and responsible metals producer, creating a better future for our stakeholders

## Values

Respect, Care, Deliver

### RESPECT;

- We believe in ourselves
- We work together as a team
- We take ownership of our responsibilities
- We are accountable for our actions

### CARE;

- We set each other up for success
- We care for the environment
- We work safely and smartly
- We make a positive contribution to society

### DELIVER;

- We play our A-game every day
- We go the extra mile
- We learn, adapt and, grow
- We create a better future



# WHERE WE HAVE COME FROM



- Development of Mupani mine (replacement mine for Rukodzi in FY2022 and Ngwarati in FY2025) ahead of schedule.
- Embarked on development of third Concentrator Plant at a cost of US\$93.8million with name plate capacity of 0.9Mtpa. Project is scheduled for commissioning in first quarter FY2023.
- Implementation of SMC tailings dam extension project to sustain the operation at the termination of the existing tailings storage facility (TSF) when it reaches its maximum design height of 43m.
- Commenced bankable feasibility studies for sulphur dioxide emissions abatement and smelter expansion projects.
- Progressed with bankable feasibility study for resuscitating the mothballed Base Metal refinery at SMC.
- Implementation of employee houses project in Turf (Ngezi additional 1052 houses) and 340 Chegutu (SMC employees).

2021

2016 - 2020

- Achieved Bimha mine design capacity after redevelopment
- Surpassed Phase 2 nameplate capacity (6.2Mtpa) mining and milling production capacity.
- Resolution of mining lease area and mining tenure issues.
- Attained another 10 million fatality free shifts.
- 10% equity stake issued to the Zimplats Employee Share Ownership Trust as part of its Indigenisation implementation plan.
- Embarked on development of Mupani mine to replace Rukodzi and Ngwarati mines at a cost of US\$388 million.

- Phase 2 expansion plant commissioned on schedule.
- Attained 10 million fatality free shifts.
- Bimha Mine partial collapse and redevelopment.
- Resuscitation of open-pit operations following the Bimha Mine collapse.
- Established the Community Share Ownership Trust and donated US\$10 million.

2011 - 2015

2006 - 2010

- Zimplats embarked on the US\$340 million Phase 1 expansion project. A 2.0Mtpa Bimha mine and concentrator module plant were established at Ngezi.
- Increasing mining and concentrator capacity from 2.2Mtpa to 4.2Mtpa.
- Zimplats embarked on the US\$492 million Phase 2 expansion, development of a 4th underground mine (Mupfuti mine) and concentrator module at Ngezi, to increase production to 6.2Mtpa nameplate capacity. Phase 2 expansion included construction of the 30 500ML Chitsuwa dam, 1000 employee houses and associated infrastructure at Ngezi.
- Release of ground agreement in which Zimplats released 36% of its ground to the Government of Zimbabwe in return for anticipated cash and empowerment credits, prior to promulgation of indigenisation legislation.
- Terminated open pit operations.

- Zimplats took over BHP Minerals International Exploration Inc's share of Hartley Mine.
- Zimplats established an open-pit mine at Ngezi (2.2Mtpa) with investment from Implats and resuscitated SMC concentrator and smelter.

2000 - 2005



## OUR OPERATIONS

The Zimplats mining operations consist of four underground mines at steady-state production and one development project (Mupani Mine). The Mupani mine project will replace production from Rukodzi and Ngwarati mines whose ore reserves will be depleted in June 2022 and September 2024 respectively.

As part of the current mine upgrade projects, the Mupani mine project is also planned to replace some of the tonnage contribution from Mupfuti mine after that mine is depleted in FY2027, with the remainder of the production coming from the upgraded Bimha mine.

Currently Ngwarati, Rukodzi and Mupani mines supply ore to the Selous Metallurgical Complex (SMC) concentrator, while Mupfuti and Bimha mines supply ore to Ngezi concentrator.

At the processing operations, the basic flow process starts with liberation of the runoff mine (ROM) ore in the crushing and milling circuit. The liberated product from the milling section is separated using flotation process to produce concentrate.

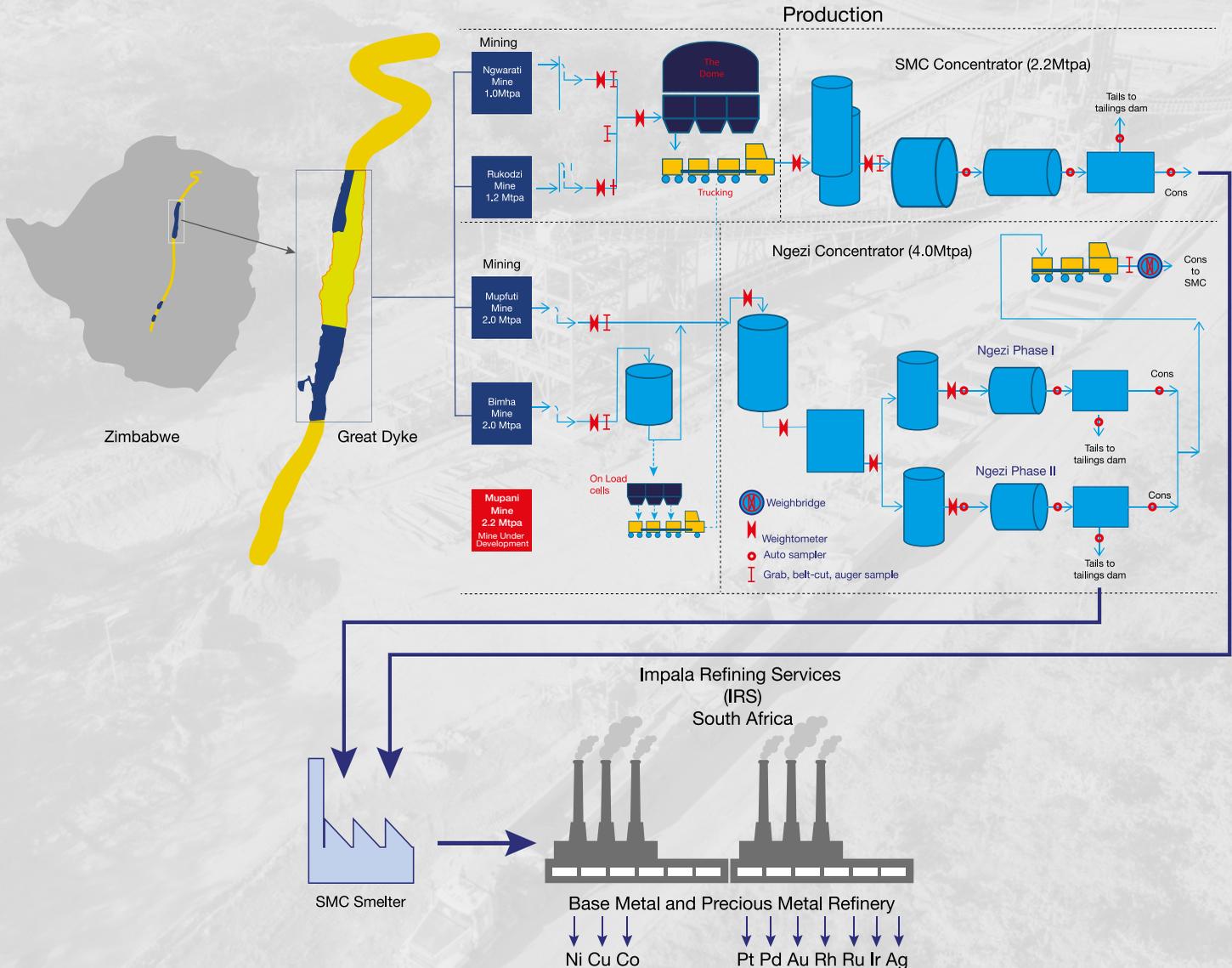
The concentrate product is further upgraded at the smelter plant using pyrometallurgical processes in the electric arc furnace and converters. The final product from the smelter plant is converter matte which is exported for further processing to Impala Refining Services, in South Africa.

Zimplats has embarked on several economic development investments to the tune of US\$8.7 billion with the inclusion of US\$1.1 billion tax contributions.



# LOCATION & OPERATIONS

The Zimplats operations are located in the Mashonaland West province of Zimbabwe along the Great Dyke.



WE OPERATE 4 MINES IN  
MHONDORO NGEZI WITH A 5TH  
MINE UNDER DEVELOPMENT





## WHAT WE DO

Zimbabwe Platinum Mines ('Zimplats') is in the business of producing platinum group and associated metals from the Great Dyke of Zimbabwe.

The Company is a subsidiary (87% shareholding) of one of the world's leading producers of platinum group metals ('PGMs'), the South African based and listed Impala Platinum Holdings Limited ('Implats').

PGMs are precious metals, which frequently occur together in nature as constituents of various ores and minerals. They include platinum, palladium, rhodium, iridium, and ruthenium, all of which have similar chemical and physical properties and are grouped together in the periodic table.

There are 10 metals produced by Zimplats, namely:

- Platinum
- Palladium
- Rhodium
- Ruthenium
- Iridium
- Silver
- Gold
- Nickel
- Copper
- Cobalt







# WHAT OUR METALS ARE USED FOR



## Automotive

Platinum and palladium are vital components in autocatalytic converters which play a significant role in controlling air pollution by reducing emissions in both gasoline and diesel engines. This is the main use of PGMs accounting for more than 60%.

## Industrial

PGMs have excellent resistance to corrosion and high melting points making them ideal for a variety of industrial uses. One of the uses is in fuel cell development which can reduce air pollution considerably while curtailing demand for fossil fuels.

Their catalytic properties are central to the production of important chemicals and synthetics. And their durability, hardness, high melting point, corrosion resistance, and high-temperature stability make them a crucial part of industrial crucibles and components which are used in the fabrication of a range of products including glass fibre and artificial silk.

Platinum-rhodium catalyst is used in the manufacture of nitric acid a key component in the manufacture of fertilisers. PGMs are also used in the production of silicones, thermocouples, caustic soda, nylon, and synthetic rubber.





## Environmental

Platinum Group Metals (PGMs) greatly contribute to improving our environment. Their chemical and catalytic qualities are central to several applications that significantly reduce air pollution and greenhouse gases.

PGMs can be used to purify the air in enclosed environments such as aircraft cabins and are also applied in water treatments to purify contaminated water.

## Medical industry

Platinum Group Metals (PGMs) save lives, every day and in many ways as the active ingredient in pharmaceuticals and as key elements in surgical technologies.

Platinum, is used to create key components for a variety of medical devices, including pacemakers, catheters, stents, neuromodulation devices and implantable defibrillators. Platinum is also used in anticancer drugs such as cisplatin, carboplatin, and oxaliplatin.

## Electronics industry

PGMs are used in the electronics industry to manufacture electronics components. In addition, PGMs are also used in the production of glass fibre for fibre optic cables, which has helped advance telecommunications technology.



Due to their conductivity, durability, high-temperature stability, and oxidation resistance, palladium, and to a less extent platinum, are the materials of choice to coat multi-layer ceramic capacitors. The performance of computer hard disks is reliant upon a complex structure of layered materials, including platinum and ruthenium.

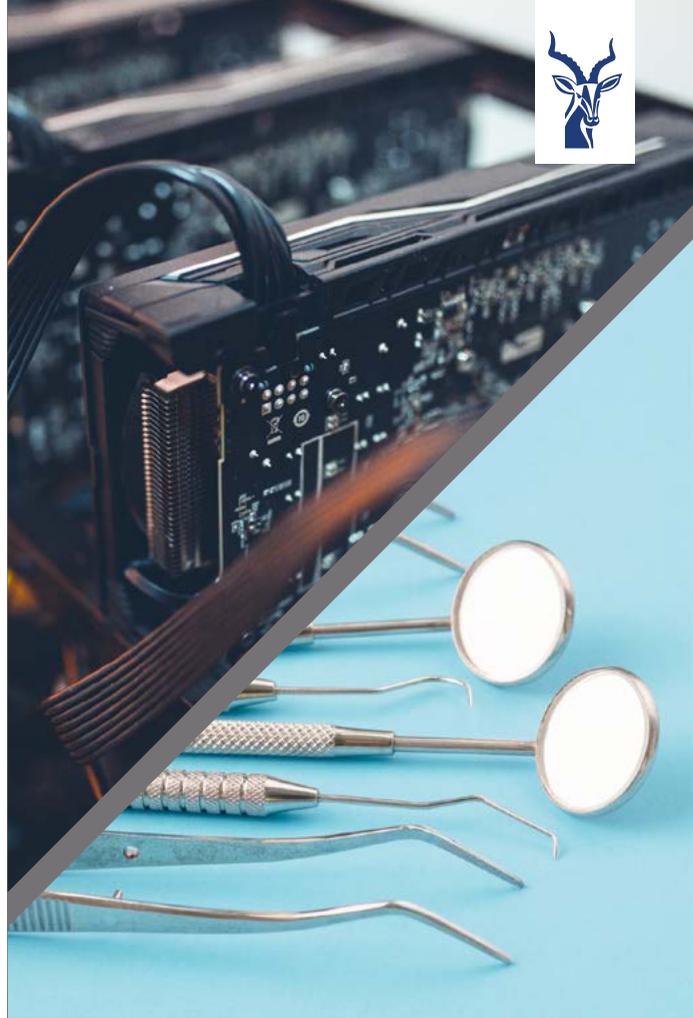
Platinum, palladium, rhodium and iridium are used to coat electrodes; the tiny components in all electronic products which help establish electrical contact between non-metallic parts of a circuit and control the flow of electricity.

Palladium is widely used in electronics applications on account of its electrical conductivity and its durability. Palladium-containing components are issued in virtually every type of electronic device.

## Jewellery

Due to its rarity and purity, and its natural white colour, associated with its enduring quality and resistance to tarnishing, platinum has been used for jewellery since the 7th century BC.

Palladium has become attractive as a wedding band because it is strong, durable and its low density allows bigger and bolder jewellery designs to be created and worn with ease. Gold has been used to make ornamental objects and jewellery for thousands of years.





## Investment

Gold and silver dominate the precious metal investment market and are likely to continue to do so into the foreseeable future. However, PGMs are increasingly emerging as significant additions to investment portfolios, offering investors attractive opportunities to diversify their existing holdings and gain more complete coverage of the spectrum of precious metals.

Many investors turn to gold and PGMs as a form of wealth preservation, seeking to capitalise on the commodity's stability.



## INCREASING CAPACITY

To increase production capacity, Zimplats embarked on significant expansion programmes since inception:

**PHASE 1 - US\$340 million**

**PHASE 2 - US\$492 million**





## US\$1,8bn expansion programme

Zimplats is undertaking a US\$1,8bn expansion programme comprising nine projects which will be implemented over a 10-year period, effective 2021.

- Development of Mupani mine to replace Rukodzi and Ngwarati mines at a cost of US\$388 million.
- Embarked on construction of a third Concentrator Plant at a cost of US\$93.8 million with name plate capacity of 0.9Mtpa. Project is scheduled for commissioning in first quarter FY2023.
- Implementation of the SMC concentrator tailings dam extension project to sustain the operation at the termination of the existing tailings storage facility (TSF) when it reaches its maximum design height of 43m.
- Commenced bankable feasibility studies for Sulphur dioxide emissions abatement and Smelter expansion at SMC.
- Progressed with bankable feasibility study for resuscitating the mothballed Base Metal refinery at SMC.
- Implementation of employee houses project in Turf, an additional 1052 houses and 340 houses in Chegutu (for SMC employees).
- 110 MWAC Solar power plant (US\$201m), investment in the development of a 185MW solar photovoltaic plant.





# OUR PEOPLE

Our business is about our people:

- The way we treat, develop and demand accountability from each other.
- The way we produce our metals.
- The safety and wellbeing of over 7000 employees is our key priority.
- We set our people up for success and reward valuable contribution and performance.





## Safety

We are committed to supplying PGMs needed to develop, sustain and improve our world and the lives of future generations. Zimplats recognises that good Environmental, Social and Governance (ESG) and quality principles are integral components of our mining and processing operations.

We play our 'A' game every day to deliver excellent results on our promises through the way we do business and care of our employees and all our stakeholders. Zimplats recognises the management of safety, health and environment in an integral component of our mining and processing operations.

Consistent with this, the company aims to:

1. Develop, implement and continuously improve on systems and procedures focused on ZERO harm on all facets of the business be it human, materials, financial or financial.
2. Comply and adhere to all applicable laws, regulations and standards that enhance the company's practices and commitment to Environmental, Social and Governance (ESG) requirements.
3. Deliver a clean environment through prevention of all forms of pollution. Establish programs to conserve resources minimise waste emissions and improve processes, thereby protecting the environment.





To achieve these objects, the company and employees will:

- Adopt a risk-based approach to integrate safety, health, environment, stakeholder affairs and quality programs. Our Business Management Systems (BMS) will incorporate the requirements and guidelines of ISO 9001, ISO 14001, ISO 45001, ISO 31000, ISO 17025, ISO 55000 and other internationally accepted standards that the company may subscribe to.
- Through hazards and risk assessments (HIRA), identify, monitor and control the safety, health, environmental, security, stakeholder and other business risks and opportunities arising from Zimplats operations.
- Ensure that the policy is communicated to all employees and is available to interested parties/ stakeholders as appropriate. Consultation and participation of employees in all elements of the BMS shall be encouraged.
- Ensure that all employees are held responsible and accountable for their safety and health, as well as the upkeep of company property.
- Ensure that employees are empowered to stop unsafe work practices or to refuse to work under unsafe conditions.
- Ensure that line managers take full responsibility for enforcing all safety standards, including sustainable development principles in their areas of operation.



We believe that our safety, health and environmental efforts, only succeed if every employee is committed to the policy and if each task is performed in accordance with the legislation codes of practice and company standards.





# ZIMPLATS EMPLOYEE HOUSING

All employees housing at Turf Village include modern facilities.





Recognising the need for adequate housing with access to clean running water and electricity for all its employees, Zimplats embarked on a large-scale housing development project which saw 1,325 of its staff, living in new homes.

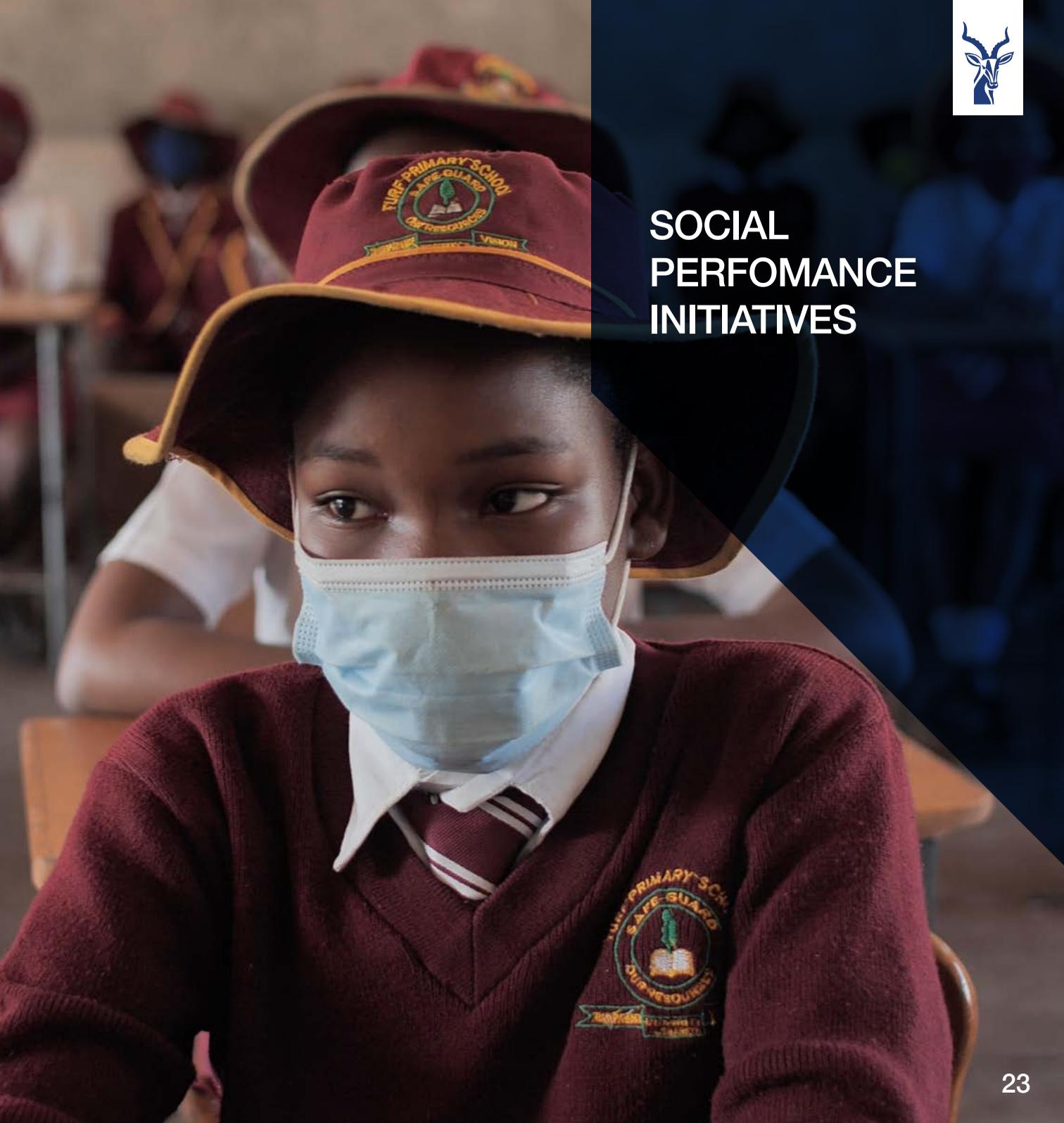
Zimplats employee housing consists of core (employee-owned) and company-owned housing, that allowed many employees to own property for the first time. All homes built by Zimplats for its employees have clean running water, electricity, and indoor toilets.

Residents also benefit from the shopping mall, redeveloped schools, a new clinic and, a community hall. The land was originally allocated to Zimplats by the Mhondoro/Ngezi Rural district council, while many of the Turf Town residents are Zimplats employees.

There are many people, not employed by Zimplats who also live and conduct business in Turf Town.



# SOCIAL PERFORMANCE INITIATIVES





The Zimplats approach to socio-economic development is based on the recognition that the prosperity and wellbeing of communities is intertwined with its success.

The Social Performance Programmes agenda is guided by three key principles which are, empowerment, sustainability and our commitment to shared value. Zimplats could not achieve the level of excellence it does without an empowered and prosperous surrounding community and workforce in a healthy and thriving economy.

While these Social Performance Programmes could be considered business imperatives, Zimplats has made many investments that go over and above its core businesses as a mining company. Zimplats' contributions towards social development are not limited to the immediate surroundings of its operations. Often its contributions tie into the national development agenda. As such Zimplats has partnered with both, the central and local government to build capacity in the areas of education, health, water and sanitation.



Since 2001, Zimplats has embarked on several economic development investments.

The table on the following pages depicts the key Social Performance programmes that Zimplats is involved in.

**Zimplats has made many investments that go over and above its core business as a mining company.**



## Kadoma Hospital



## MAJOR INVESTMENTS

| NATURE OF PROJECT  | LOCATION                   | BENEFICIARY   |
|--|----------------------------|---|
| Selous - Ngezi highway   | Selous to Ngezi            | Local farmers, schools, businesses, other mining operations and MNRDC |
| Police station and houses  | Chingondo Mhondoro/Ngezi   | ZRP and community   |
| Turf Police Station  | Mhondoro Ngezi             | Community   |
| Mining skills development center   | Selous                     | Employees   |
| Residential infrastructure (including servicing, electrification, sewerage works, piping)  | Turf Village               | MNRDC, community and local  |
| Sub-station  | Selous                     | Local farmers, businesses, schools, other mining companies and ZESA   |
| 132k V power line  | Selous to Ngezi            | Local community, local businesses, schools and ZESA                   |
| Construction of market stalls  | Turf Village               | Local Community   |
| Turf Village Community center  | Turf, Mhondoro             | Community   |
| Community Empowerment Cattle Ranching Project  | Ngezi                      | Community   |
| Gwebi Dairy Parlour  | Gwebi Agricultural College | University students and community                                     |
| Community Horticulture Project   | Mhondoro-Ngezi Chegutu RDC | Community   |
| Conservation Farming Project   | Ngezi (3-year project)     | Community   |
| Kadoma Hospital  | Kadoma District            | Community   |
| Gutu Mortuary  | Gutu District in Masvingo  | Community   |
| Extension of Turf Clinic   | Turf Village               | Local Community and MNRD  |
| Mubaira Hospital Upgrade   | Chegutu District           | Community   |
| COVID-19 Interventions-Donation of medical equipment like ventilators, oxygen concentrators and other equipment to 7 hospitals and clinics | National                   | Community   |



## OTHER SIGNIFICANT INVESTMENTS

| NATURE OF PROJECT  | LOCATION   | BENEFICIARY                            |
|--|--|--|
| Purchase of school books                                     | Local schools  | Local Community                        |
| Construction of David Guzuzu School                          | Mhondoro-Ngezi   | Community                              |
| Construction of boarding hostel at Marshall Hartley School   | Musengezi, Chegutu District                            | Community                              |
| Construction of science laboratory at St Michael's School    | Mhondoro-Ngezi   | Community                              |
| Solar Prospect   | Mhondoro-Ngezi and Chegutu districts                   | Community                              |
| Refurbishment and extension of Turf Primary School           | Turf, Mhondoro   | Community                              |
| Refurbishment and extension of Wanganui Secondary School     | Turf, Mhondoro   | Community                              |
| Construction of Wanganui Secondary School Science Laboratory | Turf, Mhondoro   | Community                              |
| Rutara Primary School Refurbishment                          | Chegutu district                                       | Community                              |
| Weir and reticulation  | Turf Village   | MNRDC, community and local business    |
| Food distribution (drought relief)                           | Ngezi, Selous, Musengezi                               | Local Community                        |
| Construction of boreholes                                    | Midlands State University, Ngezi and Chegutu districts | University students, local communities |



# Zimplats Palmline Cattle Ranching Project

**Zimbabwe Platinum Mines (Private) Limited**

1st Floor

South Block

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Harare, Zimbabwe

Tel: +263 242 886 878-85/87

Tel: +263772565244-6

Email: [info@zimplats.com](mailto:info@zimplats.com)

**Mine Sites**

**Zimbabwe Platinum Mines (Private) Limited**

**Ngezi Platinum Mine**

Ward 10 & 11

Between Growth Points

Bumbe, Turf and Tyrone

Kadoma District, Zimbabwe

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Selous, Zimbabwe

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