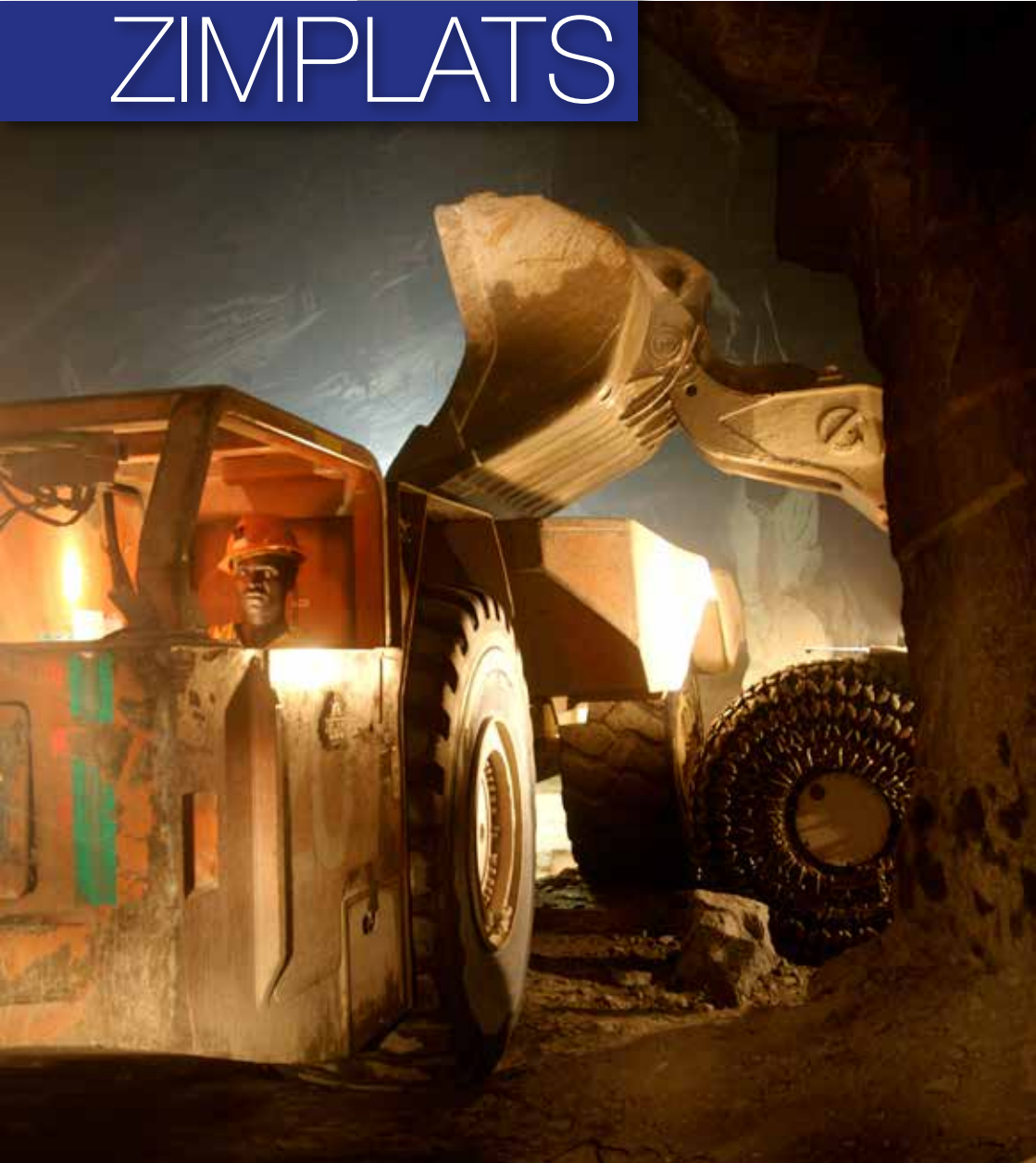
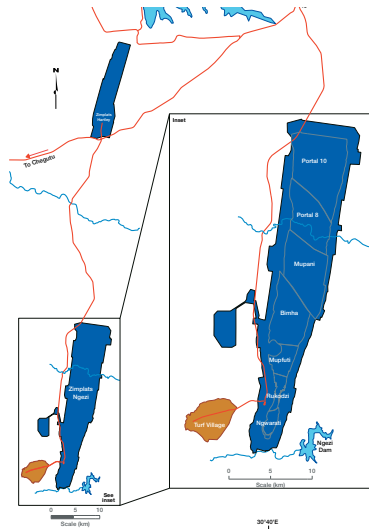


FACT SHEET

# ZIMPLATS



## Zimplats Regional locality map



Zimplats is 87% owned by Implats. Its Ngezi operation is located on the Hartley Geological Complex on the Zimbabwean Great Dyke approximately 150 kilometres south-west of Harare. The Hartley Geological complex is the largest of the PGM bearing complexes containing 80% of the known PGM resources in Zimbabwe. In FY2018 the operation produced 270 800 ounces of platinum in matte (including concentrate sold).

Zimplats operates four shallow mechanised underground mines, one open-pit and two concentrators at Ngezi. The Selous Metallurgical Complex (SMC), located some 77 kilometres north of the underground operations, comprises a concentrator and a smelter.



# GEOLOGY

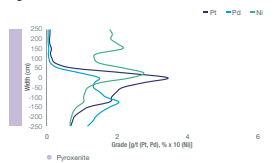


The Great Dyke is a layered complex similar to that of the Bushveld Complex. It extends for 550 kilometres and has a maximum width of 11 kilometres.

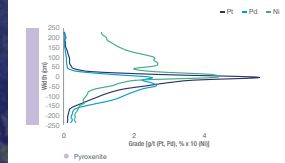
Within the Great Dyke four geological complexes are known to contain PGM and base metal deposits. These are the Wedza Complex (Mimosa – Sibanye-Stillwater and Implats), the Selukwe Complex (Unki – Anglo Platinum), the Hartley Geological Complex (Hartley and Ngezi Platinum Mines – Zimplats) and the Musengezi Complex.

The stratigraphy is broadly divided between a lower ultramafic and an overlying mafic sequence. The ultramafic sequence hosts the P1 pyroxenite, which in turn hosts the economic PGM-bearing Main Sulphide Zone (MSZ). The MSZ is generally 2 to 3 metres thick. Optimal mineralisation varies and, in contrast to the Bushveld Complex, is often difficult to follow visually. Peak values for the PGM and base metals are vertically offset, with palladium peaking at the base, platinum in the centre and nickel towards the top.

Ngezi – MSZ



Hartley – MSZ

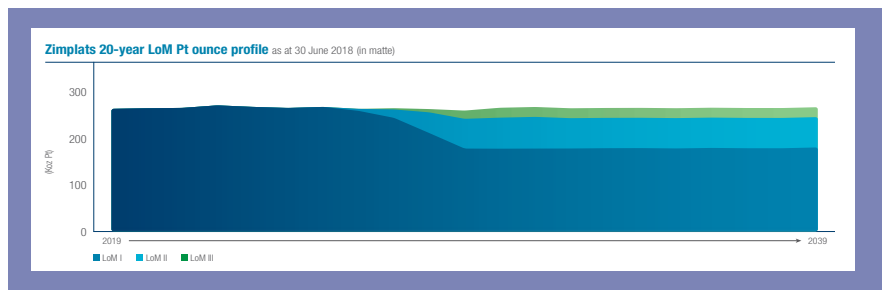






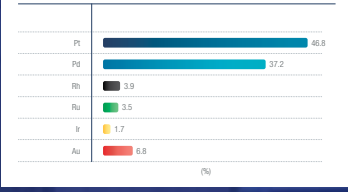
Mineral Resources (inclusive reporting) as at 30 June 2018						
	Category	Tonnes (Mt)	Width (cm)	4E Grade (g/t)	6E Grade (g/t)	Platinum (Moz)
<b>Ngezi portals</b>						
MSZ	measured	152.8	252	3.34	3.52	8.2
	indicated	454.3	238	3.42	3.60	25.1
	inferred	121.7	200	3.28	3.45	6.6
	<b>Total</b>	<b>728.7</b>		<b>3.38</b>	<b>3.56</b>	<b>39.9</b>
<b>Hartley</b>						
MSZ	measured	28.3	158	4.53	4.78	2.0
	indicated	143.1	189	3.97	4.19	9.3
	inferred	46.3	191	3.89	4.10	3.0
	<b>Total</b>	<b>217.7</b>		<b>4.03</b>	<b>4.25</b>	<b>14.2</b>
<b>Oxides – all areas</b>						
MSZ	measured	16.0	250	3.42	3.61	0.9
	inferred	39.3	216	3.55	3.75	2.2
	<b>Total</b>	<b>55.4</b>		<b>3.51</b>	<b>3.71</b>	<b>3.1</b>
<b>Overall total</b>		<b>1 001.7</b>		<b>3.53</b>	<b>3.72</b>	<b>57.3</b>

Mineral Reserves as at 30 June 2018						
	Category	Tonnes (Mt)	Width (cm)	4E Grade (g/t)	6E Grade (g/t)	Platinum (Moz)
MSZ	proved	93.4	265	3.17	3.34	4.7
	probable	132.9	265	3.21	3.38	6.8
	<b>Total</b>	<b>226.3</b>		<b>3.19</b>	<b>3.37</b>	<b>11.9</b>





Zimplats MSZ 6E metal ratio as at 30 June 2018



## MINING

Mining infrastructure consists of five portals (decline shafts). The deepest operating depth is currently approximately 310 metres at Bimha Mine. Zimplats employs mechanised room and pillar mining to extract ore from stopes with a nominal width of 2.5 metres at dips of less than 9 degrees. Each production team consists of 20 to 30 rooms deploying a single boom face rig for drilling, a roof bolter for support drilling, a 10 tonne load and dump (LHD) and a 30 tonne dump truck.

A low angle shear in the deeper sections of the Bimha Mine impacted ground conditions over a large area resulting in extensive support pillar failure that led to cascading collapse of a larger footprint. Geotechnical investigations recommended a new pillar layout, which was also adopted at Mupfuti and Bimha Mines. The extraction ratio based on the new pillar layout is below 70%, compared to above 80% on the old layout. Redevelopment is on target and Bimha achieved design production volumes in FY 2018.

## CAPITAL PROJECTS

A total combined production of 6.2Mtpa will be sustained beyond the next 30 years as the new portal, Mupani, is on course to replace the mature Rukodzi and Ngwarati mines, which will be depleted in FY2021 and FY2025 respectively.

Evaluation work on the next mine to be developed has commenced.

Given the challenging price environment, capital allocation has been aligned with the business' ability to generate cash. A decision to reline and upgrade the current furnace has been taken rather than pursue the development of a second furnace.



## HISTORY

In 1986 Delta Gold Limited (Delta) acquired rights to its first platinum resources on the Great Dyke. By 1998 it had extended its cover to include interests in all the platinum resources of the Hartley Complex. Delta brought BHP into a joint venture (2/3 BHP and 1/3 Delta) to develop Hartley Platinum Mine and development started in 1994. In 1998, Delta demerged its platinum interests into a special purpose vehicle; Zimplats. By 1999 Hartley had failed to meet its development targets and was put on care and maintenance by BHP. Zimplats subsequently took over BHP's share of Hartley and in 2001 it initiated the Ngezi/SMC project with the assistance of an Implats and ABSA Investment.

A 2.2 million tonne per year open pit mine was established at Ngezi and ore was trucked to Selous where it was processed in the Hartley Mine concentrator and smelting facilities, the SMC. The first converter matte was exported in April 2002. Implats progressively increased its shareholding in Zimplats until 2003 when it made an unconditional cash offer to minority shareholders in Zimplats.

Implats currently holds 87% of Zimplats. Zimplats started to develop underground operations at Ngezi in 2003. These replaced the open pit production in 2008 and have been expanded to the current 6.2 million tonne per year operation.

## SUSTAINABLE DEVELOPMENT

Zimplats remains committed to social development initiatives and engages in, develops and builds community relationships. It takes responsibility for economic, social and environmental issues that impact its people, communities and environments and is involved in a number of community projects in the area.

## BENEFICIATION

Zimplats continues to engage with the Government of Zimbabwe on mutually acceptable solutions to achieve the government's aspirations of further beneficiation of PGMs in Zimbabwe.

## ZIMPLATS – KEY STATISTICS

ZIMPLATS – KEY STATISTICS		FY2018	FY2017	FY2016	FY2015	FY2014
<b>Production</b>						
Tonnes milled ex mine	('000t)	<b>6 570</b>	6 716	6 406	5 164	5 939
Headgrade (6E)	(g/t)	<b>3.48</b>	3.49	3.48	3.47	3.47
Platinum in matte and concentrate	('000oz)	<b>270.8</b>	281.1	289.8	190.0	239.7
PGM in matte and concentrate	('000oz)	<b>578.3</b>	601.7	616.9	406.0	515.8
<b>Labour efficiency</b>						
Tonnes milled per employee costed** (t/man/annum)		<b>1 223</b>	1 285	1 240	1 076	1339
<b>Cost</b>						
<b>Cost of sales</b>	(Rm)	<b>(5 440)</b>	(5 753)	(6 198)	(4 181)	(3 934)
On-mine operations	(Rm)	<b>(2 613)</b>	(2 828)	(2 904)	(2 071)	(1 850)
Smelting and processing	(Rm)	<b>(1 562)</b>	(1 514)	(1 572)	(1 232)	(1 139)
Other	(Rm)	<b>(1 265)</b>	(1 411)	(1 722)	(878)	(945)
<b>Total cost</b>	(Rm)	<b>4 568</b>	4 787	4 721	3 650	3 208
	(\$m)	<b>356</b>	351	327	320	309
<b>Unit costs</b>	(R/t)	<b>695</b>	713	737	707	540
per tonne milled	(US\$/t)	<b>54</b>	52	51	62	52
per platinum ounce in matte	(R/oz)	<b>16 869</b>	17 030	16 291	19 211	13 383
	(US\$/oz)	<b>1 313</b>	1 249	1 130	1 683	1 291
<b>Financial ratios</b>						
Gross margin ex mine	(%)	<b>27.3</b>	18.3	8.2	10.3	34.1
<b>Capital expenditure</b>						
	(Rm)	<b>1 738</b>	863	981	968	1 166
	(US\$m)	<b>135</b>	63	68	85	112
<b>Safety</b>						
LTIFR	(pmmhw <sup>+</sup> )	<b>0.19</b>	0.21	0.58	0.88	0.75
FIFR	(pmmhw <sup>+</sup> )	<b>–</b>	–	–	–	0.068
<b>Labour complement</b>						
Own employees	(no)	<b>3 198</b>	3 064	3 046	3 214	3 325
Contractors	(no)	<b>3 247</b>	2 878	2 397	2 605	2 749

\*\* Total employees excluding capital project employees

+ Per million man hours worked



December 2018

## CONTACT DETAILS

### HEAD OFFICE

2 Fricker Road, Illovo, 2196  
Private Bag X18, Northlands, 2116  
Tel: +27 (11) 731 9000  
Fax: +27 (11) 731 9254  
E-mail: [investor@implats.co.za](mailto:investor@implats.co.za)  
[www.implats.co.za](http://www.implats.co.za)

### Group Executive: Corporate Affairs Johan Theron

Tel: +27 (11) 731 9013  
E-mail: [johan.theron@implats.co.za](mailto:johan.theron@implats.co.za)

### Group Head: Investor Relations and Corporate Communications

Alice Lourens  
Tel: +27 (11) 731 9033  
E-mail: [alice.lourens@implats.co.za](mailto:alice.lourens@implats.co.za)

**ZIMPLATS**   
Member of the Implats Group