

INTEGRATED INNOVATION

tharisa

August/September 2017

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THARISA AT A GLANCE

Innovative

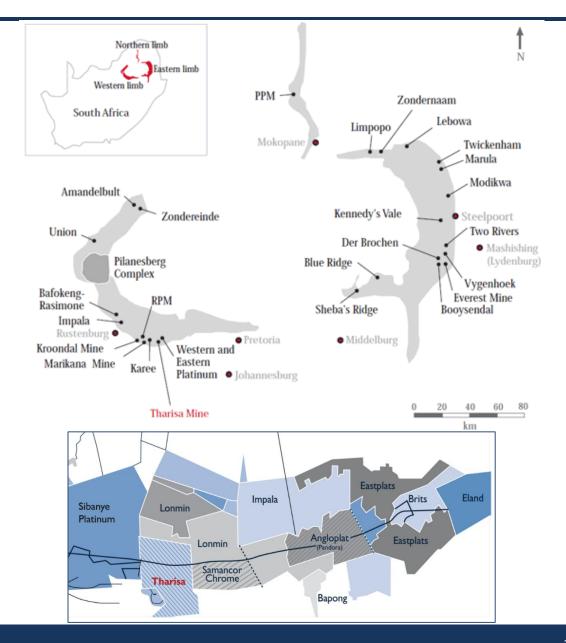
- Strategically positioned as a low cost a co-producer of PGM and chrome concentrates
- Mine 5 MG chromitite reef layers
- Large scale open pit operation with 18 years open pit LOM + 40 year underground extension
- Benefit from controlling an integrated mine-to-market value chain

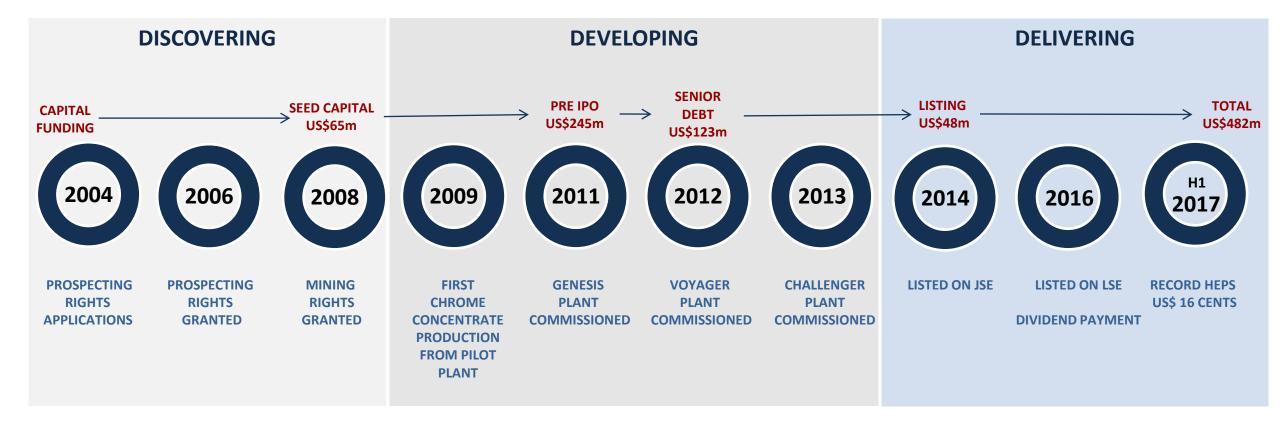
Established

- 11 years old, listed on JSE and LSE
- One of the world's **single largest resource** of chrome
- Will produce **147.4 koz PGMs** and **1.3 Mt chrome** concentrates in 2017
- Are the fifth largest producer of chrome concentrate
- Derisked with major mine development capital investment already complete

Focused

- Lowest cost quartile in PGM and chrome industry
- Cash generative, dividend payer
- A solid platform underpinned by an optimised operating model
- **Profitable** in all commodity environments





Mining 4.8 Mtpa PGM concentrate of 147.4 kozpa Chrome concentrates of 1.3 Mtpa

-• OUR OPERATIONS



VALUE CHAIN

RESOURCE 877.7 Mt resource 98.9 Mt reserve of which 80.2 Mt open pit	MINING 18 year open pit LOM 40 year underground extension	PROCESSING 400 ktpm nameplate capacity Genesis Plant (100 ktpm) Voyager Plant (300 ktpm)	MID TIER OPEN PIT PGM AND CHROME CONCENTRATE CO- PRODUCER WITH AN INTEGRATED MARKETING,
LARGE SCALE One of the world's largest single chrome resources	MECHANISED Mechanised open pit mining with a skilled and small labour force	DERISKED In production, major capex complete Steady state production of 147.4 koz PGMs and 1.3 Mt of chrome concentrates	SALES, AND LOGISTICS PLATFORM
	A REAL PROPERTY AND ADDRESS OF A REAL PROPERTY AND ADDRESS OF A REAL PROPERTY AND ADDRESS OF A REAL PROPERTY ADDRESS OF A REAL PR		
RXO METALS	ARXO RESOURCES/DINAMI	ARXO LOGISTICS	CUSTOMERS

MINING FIVE MG SEAMS

RESOURCES AND RESERVES

Steady state mining rate of 5.0 Mtpa with an average stripping ratio of 9.7 (m³:m³ basis)

MINERAL RESOURCE

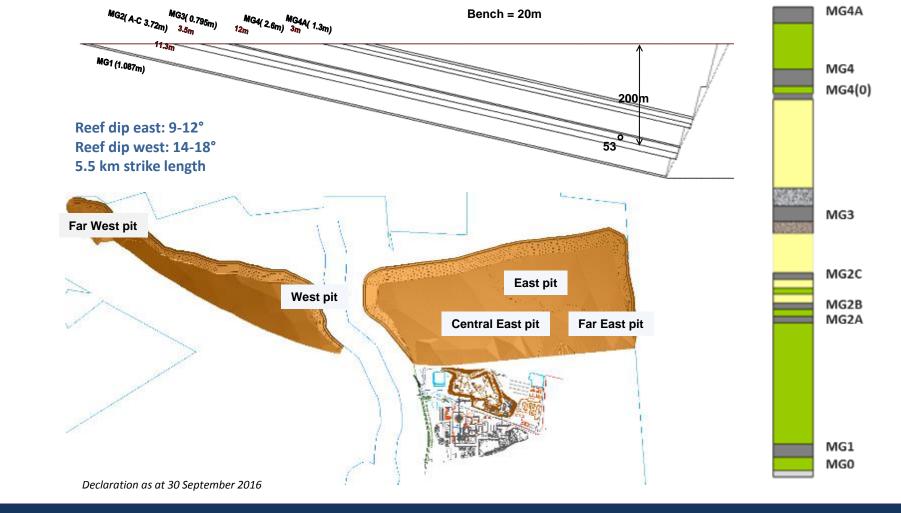
- 877.7 Mt
- 1.58 g/t 6PGE+Au
- 20.5% Cr₂O₃

MINERAL RESERVE

- 98.9 Mt
- 1.50 g/t 5PGE+Au
- 20.1% Cr₂O₃

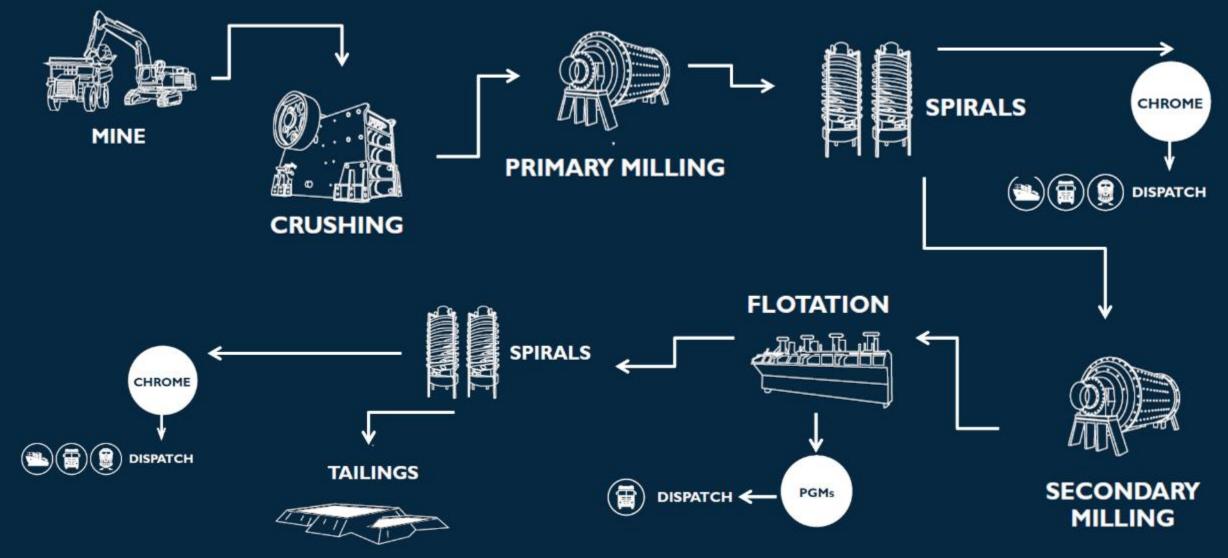
OPEN PIT MINERAL RESERVE

- 80.2 Mt
- 1.49 g/t 5PGE+Au
- 20.3% Cr₂O₃



GENERALISED CROSS SECTION SHOWING THE MG CHROMITITE LAYERS AT PLANNED DEPTH

INNOVATIVE APPROACH



→ YTD OPERATIONAL HIGHLIGHTS

SPECIALTY CHROME PRODUCTION 239.6 kt (*2016: 187.3 kt)

REEF MINED	PGM PRODUCTION 11.9%	CHROME CONCENTRATE PRODUCTION 6.5%
3 724.3 kt (*2016: 3 594.0 kt)	104.6 koz (*2016: 93.5 koz)	970.7 kt (*2016: 911.5 kt)
REEF MILLED	PGM RECOVERY	CHROME RECOVERY
1 6.7%	1 9.8%	1 3.0%
3 616.8 kt (*2016: 3 389.2 kt)	79.3% (*2016: 66.2%)	64.3% (*2016: 62.4%)

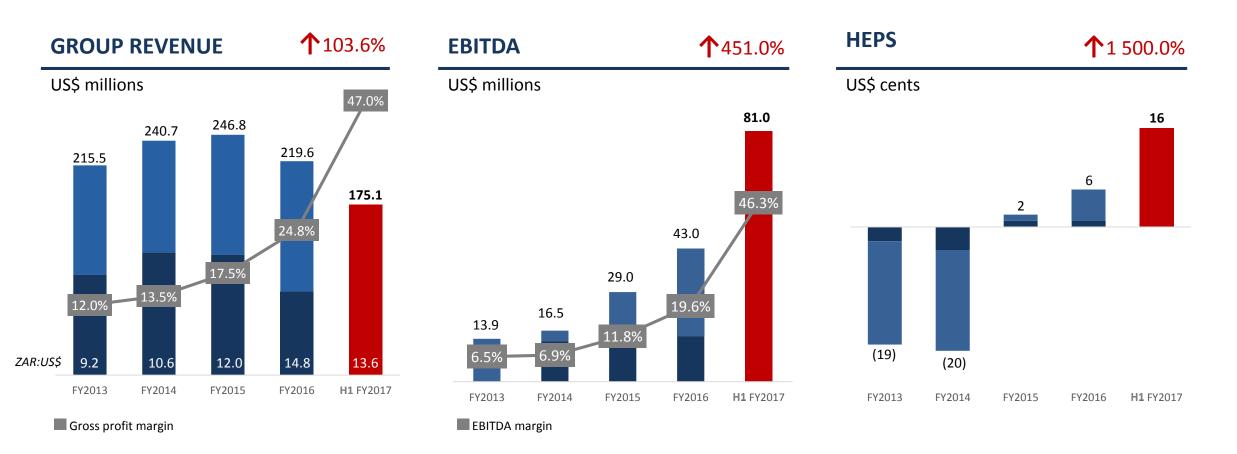
OPERATIONAL PERFORMANCE YTD

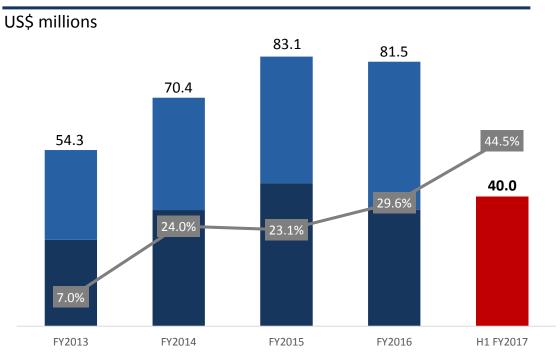
			Quarter on quarter Nine r		Nine months	
		Quarter ended	Quarter ended	movement	Quarter ended	ended
		30 Jun 2017	31 Mar 2017	%	30 Jun 2016	30 Jun 2017
Reef mined	kt	1 275.2	1 219.2	4.6	1 235.4	3 724.3
Stripping ratio	m ³ waste/m ³ reef	6.9	7.5		7.4	7.8
Reef milled	kt	1 199.1	1 211.3	(1.0)	1 192.2	3 616.8
PGM flotation feed tonnes	kt	866.0	897.9	(3.6)	929.6	2 648.9
PGM rougher feed grade	g/t	1.57	1.56	0.6	1.64	1.55
6E PGMs produced	koz	35.4	34.3	3.2	33.5	104.6
PGM recovery	%	81.3	76.2	6.7	68.5	79.3
Average PGM contained metal basket price	US\$/oz	792	783	1.1	745	771
Average PGM contained metal basket price	ZAR/oz	10 443	10 355	0.8	11 162	10 352
Cr₂O ₃ ROM grade	%	17.8	17.5	1.7	17.7	17.6
Chrome recovery	%	66.0	62.5	5.6	61.6	64.3
Chrome yield	%	27.8	26.0	6.9	25.8	26.8
Chrome concentrates produced	kt	333.9	314.6	6.1	307.1	970.7
Metallurgical grade	kt	246.8	239.2	3.2	225.6	731.1
Specialty grades	kt	87.1	75.4	15.5	81.5	239.6
Metallurgical grade chrome concentrate						
contract price	US\$/t CIF China	147	338	(56.5)	105	212
Metallurgical grade chrome concentrate						
contract price	ZAR/t CIF China	1 892	4 430	(57.3)	1 589	2 844
Average exchange rate	ZAR:US\$	13.2	13.2	-	15.0	13.5



-• OUR FINANCIALS

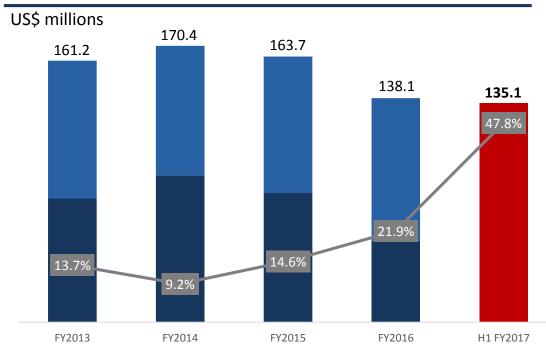




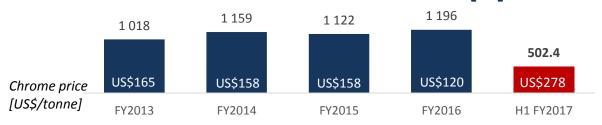


PGM REVENUE AND GROSS PROFIT MARGIN

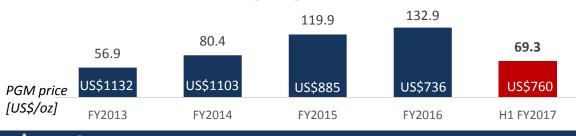
CHROME REVENUE AND GROSS PROFIT MARGIN



CHROME CONCENTRATE SALES VOLUME [kt]



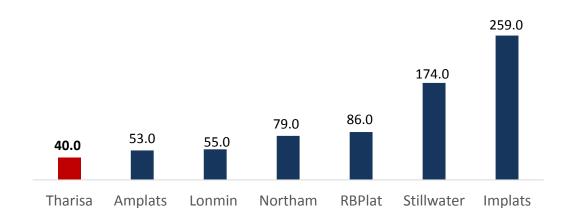
PGM SALES VOLUME [koz]



UNIT COSTS

	H1 FY2017	H1 FY2016	Change
All in cost per Pt ounce sold	(1 123)	402	-
All in cost per 42% chrome tonne sold	88	85	3.5%

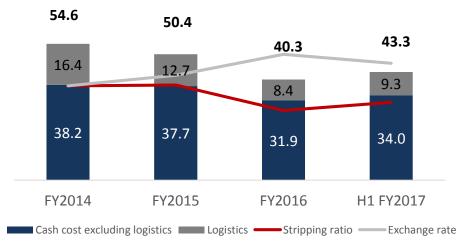
CASH COST PER TONNE MILLED (US\$)



CONSOLIDATED CASH COST PER TONNE MILLED

US\$/tonne milled

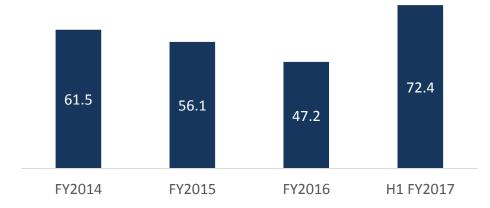
tharisa



Six months to end June 2017

REVENUE PER TONNE MILLED

US\$/tonne milled



-• OUR MARKETS



PLATINUM DEMAND AND SUPPLY 2017

- Demand driven by the autocatalyst, jewellery, industrial and investment sectors
- Both primary and secondary sources of supply seen decreasing
- Primary supply weaker in 2017 due to lower prices, with lower capital investment and cost increases
- In 2017 platinum to remain in deficit by 65 koz

PLATINUM DEMAND AND SUPPLY [Moz]

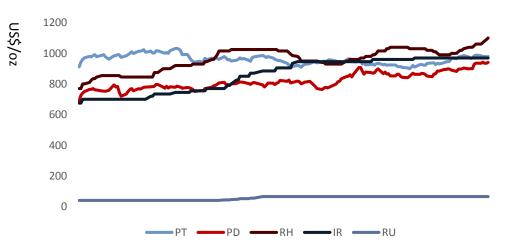
8.0 8.2 8.3 7.8 1.7 1.9 1.8 2.0 5.2 6.2 6.0 6.0 2014 2015 2016 2017(F) Mine supply Recycling — Demand

PGM BASKET PRICES

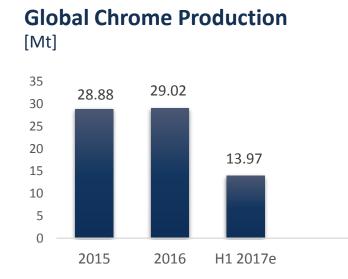
PGM market heading for three-way price parity with platinum and palladium edging closer towards the price of iridium

Platinum	982	us\$/oz
Palladium	938	/0Z
Ruthenium	1100	
Iridium	970	
Rhodium	65	

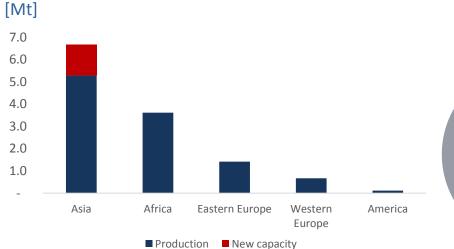
PGM PRICES YTD

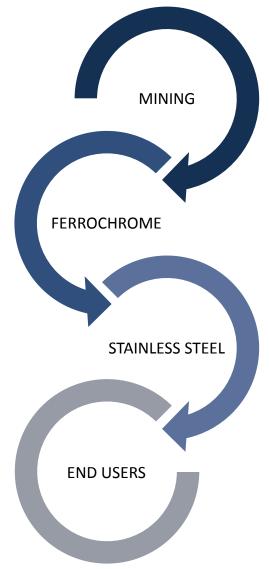


CHROME LIFECYCLE

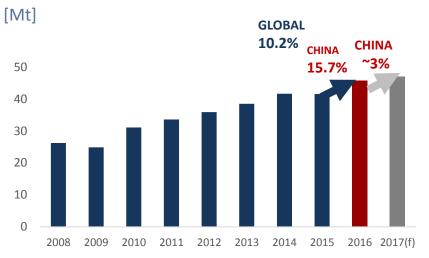


Global Ferrochrome Production

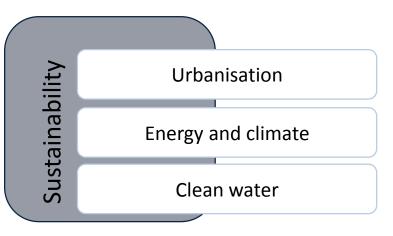




Global Crude Stainless Steel Production



Trends Driving Stainless Steel Demand

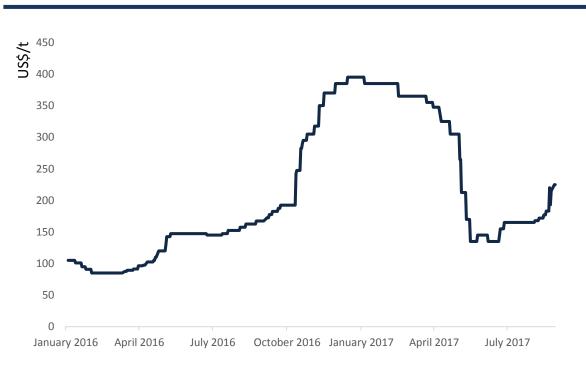


tharisa Source: ICDA, FerroAlloyNet, Outokumpu

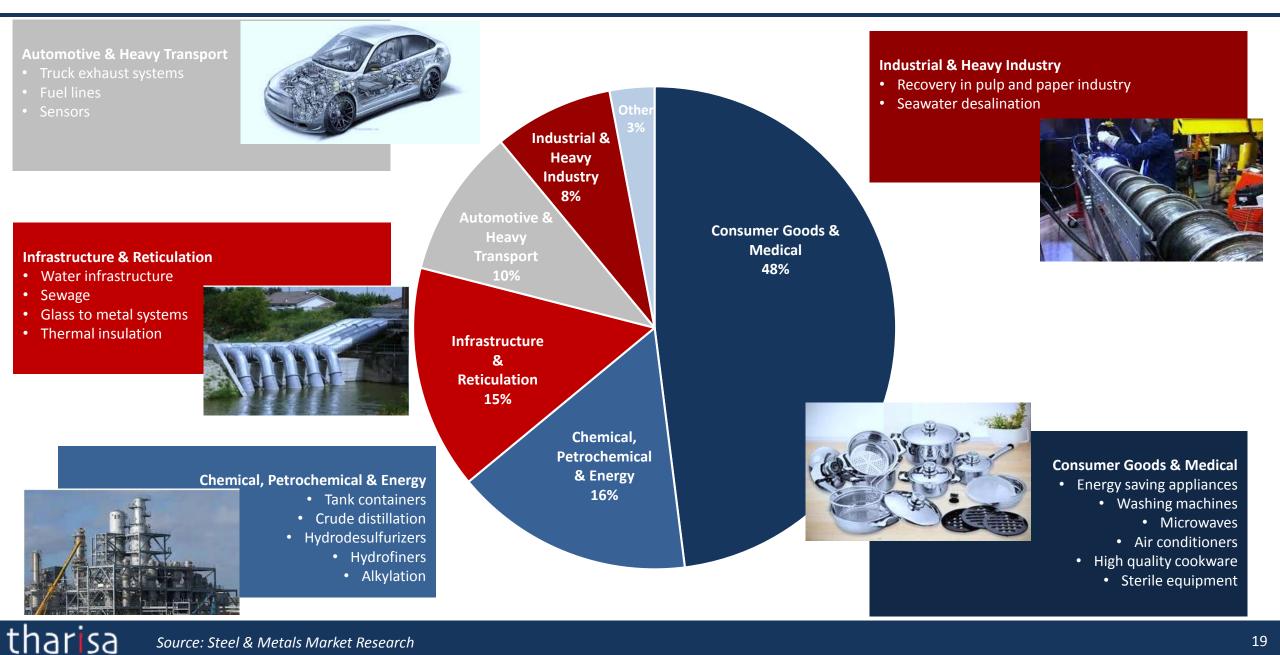
DEMAND AND SUPPLY 2017

- Demand for metallurgical grade chrome concentrate is driven by its use in the manufacture of stainless steel, the production of which is estimated to grow at between 3% to 4% in 2017
- China is wholly dependent on imports of chrome ore/alloy
- Chrome prices were volatile at the start of 2017, peaking at US\$395 and dipping to US\$135 within four months
- Since then spot prices stabilised and more recently, started to strengthen with the latest negotiated prices at US\$220/t for delivery in October 2017
- Chrome stocks at Chinese ports are at 2.43 Mt just over two month's worth of stock
- About 1 million tonnes of that amount is considered "frozen stock" – stock purchased at prices of US\$250 or higher

CHROME PRICES



STAINLESS STEEL BY END USE SEGMENT



Source: Steel & Metals Market Research

- OUR FUTURE



TRANSITION TO OWNER MINING

PLAN

- Tharisa Minerals moves from contract to owner mining operating model
- Tharisa Minerals to purchase existing contractor's fleet (equipment, strategic components, site infrastructure and spare parts)
- Contractor's employees currently deployed at Tharisa Mine to be transferred to Tharisa

STATUS

Conditions fulfilled, funding in place

- Conditions, including regulatory approval, fulfilled
- Funding in place
- Replacement programme in place
- Tharisa begins transferring about 900 MCC employees on to its payroll

GOAL

Smooth transition with no operational impact

- Transaction effective 1 October 2017
- Previous contract employees fully integrated into Tharisa health, safety and operational culture
- Operational improvements control of reef grades = delivery of improved quality ore to plants = higher recoveries



REGULATORY REVIEW

THE NOISE

New mining charter unsettles investors, wipes R50 billion from the sector: report

ANALYSIS: Zwane's mining charter lunacy

Zwane blunder: mining bleeds

The arbitrary and prescriptive new mining charter is unlikely to pass legal muster, so the second minister Mosebenzi Zwane may to the mini

ANC slaps Zwane down on Mining Charter



Chamber lodges urgent interdict against Zwane's mining rights law DMR will not implement licence

moratorium, according to tweet

Gigaba sets December deadline for MPRDA, re-opens Charter talks

MPRDA heading for same legal wrangling as Mining Charter

THARISA FACTS

Tharisa's Black Economic Empowerment (BEE) partners, Tharisa Resources and the local community, own 20% and 6% respectively at the mine level. It would be relatively simple to upscale ownership levels if required.

Certain of new targets set out in Mining Charter III apply only to new mining rights and not existing mining rights. Tharisa holds an existing mining right and therefore not required to transfer 1% of its annual turnover to a trust created and managed by the government.

Tharisa has always been committed to transformation. It already has a share-based incentive plan in place for employees and its community initiatives have launched a number of small enterprises supporting members of the mining community.

SUPPLYING TISCO JV

- Five-year strategic co-operation agreement
- Minimum of 240 ktpa at market prices
- Represents ~ 25% of Tharisa's forecast
 FY2017 production of 1 Mt of metallurgical grade chrome concentrate
- Start September 2017
- JV has installed 700 ktpa Outokumpu FeCr sintering and pelletising capacity, with an annual producing volume of 300 kt FeCr
- JV considering a phase 2 expansion, which would increase its FeCr production to 450 ktpa and increase requirements for metallurgical chrome concentrate

THIRD-PARTY CHROME

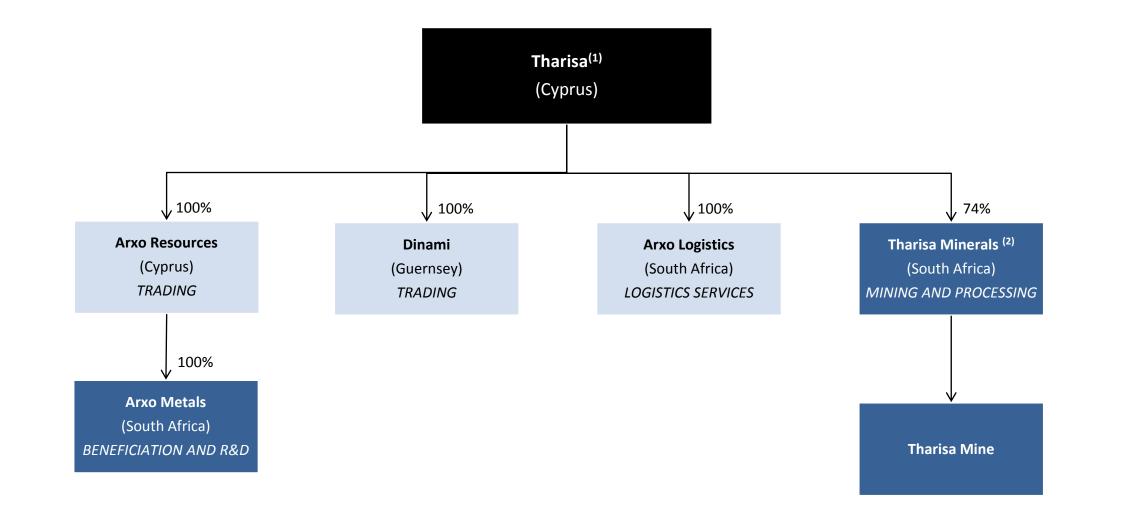
- Arxo Metals agreement with Western Platinum
- Operate the K3 UG2 plant, as well as the marketing and sale of the UG2 chrome concentrate produced
- Effective as of 29 August 2017
- Arxo Metals will unlock greater value using innovative technology already in use at Tharisa's operations
- Agreement in line with strategic objective of initiating third-party trading
- Adds about 200 kt to chrome sales annually

PGM R&D

- Arxo Metals commissioning a 1MW DC furnace to produce PGM-rich metal alloys on a pilot scale
- Furthers Tharisa's beneficiation capability and profitability of its PGM segment
- Furnace to be commissioned end of September 2017
- PGM-rich metal alloy will be smelted by Lonmin as part of a PGM research and development co-operation agreement entered into on 19 July 2017







(1) Primary listing on the JSE with secondary listing on the LSE
(2) The 26% is held by Thari Resources at 20% and a Community Trust at 6%



INCOME STATEMENT HIGHLIGHTS

US\$ millions	H1 FY2017	H1 FY2016	Change
Revenue	175.1	86.0	103.6%
Gross profit	82.4	21.1	290.5%
Gross profit margin	47.0%	24.6%	91.1%
Results from operating activities	69.9	10.6	559.4%
EBITDA	81.0	14.7	451.0%
EBITDA margin	46.3%	17.1%	170.6%
Net finance costs	1.6	6.1	(74.1%)
Profit before tax	68.3	4.5	1 417.8%
Тах	17.3	1.4	1 163.0%
Profit after tax	51.0	3.1	1 545.2%
Headline earnings per share (US\$ cents)	16	1	1 500.0%

SEGMENTAL ANALYSIS

	PG	iMs	CHR	OME
US\$ millions	H1 FY2017	H1 FY2016	H1 FY2017	H1 FY2016
Gross profit	19.0	12.1	63.4	9.0
Gross profit margin	44.5%	33.8%	47.8%	17.9%
Shared cost allocation	25%	50%	75%	50%
Sales volume	69.3 koz	59.1 koz	502.4 kt	481.7 kt
Average transport costs per tonne of chrome concentrate (CIF main ports China)			US\$50/t	US\$40/t
Chrome selling expenses US\$23.5m VS\$39.5	ie exper	ng nses		PGM
H1 FY2017 Revenue US\$175.1m US\$0.2r	es .	H1 FY2016 US\$8		revenue US\$35.8m
Chrome		ome		selling
U\$\$111.6m	_	enue 33.7m		enses \$0.1m

CURRENT

US\$ millions	H1 FY2017	FY2016
Total interest bearing debt	38.4	67.1
Long term	10.5	24.0
Short term*	27.9	43.1
Debt service reserve account	4.8	9.8
Pro forma interest bearing debt	33.6	57.3
Pro forma debt to total equity ratio	13.0%	28.4%
Cash and cash equivalents	26.6	15.8
Net debt	7.0	41.4
Net debt to total equity ratio	2.7%	20.5%
Net current assets	58.4	0.5
Return on equity	14.7%	5.8%

OWNER MINING TRANSITION

	US\$ millions
Fleet purchase	22.3
Lease equipment (approximate capital portion)**	6.3
-	28.6
Less: provisions and offsets	1.8
Net purchase price payable	26.8
Pro forma debt to total equity if fully debt funded	23.3%

** Assuming leases on balance sheet

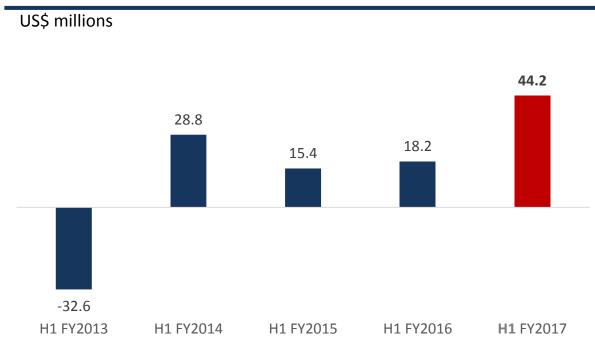
* Includes certain amounts in accounts payable relating mainly to accrued dividends payable by a subsidiary



SUMMARISED CASH FLOW STATEMENT

US\$ millions	H1 FY2017	H1 FY2016
Cash flow from operating activities	44.2	18.2
Investing cash flows	(8.8)	(6.6)
Financing cash flows	(24.9)	(23.6)
Net increase/(decrease) in cash	10.5	(12.0)
Cash at the end of the period	26.6	11.1
Free cash flow per share (US\$ cents)	14	5
Price/free cash flow per share	11.8	9.9
Depreciation	8.4	4.6

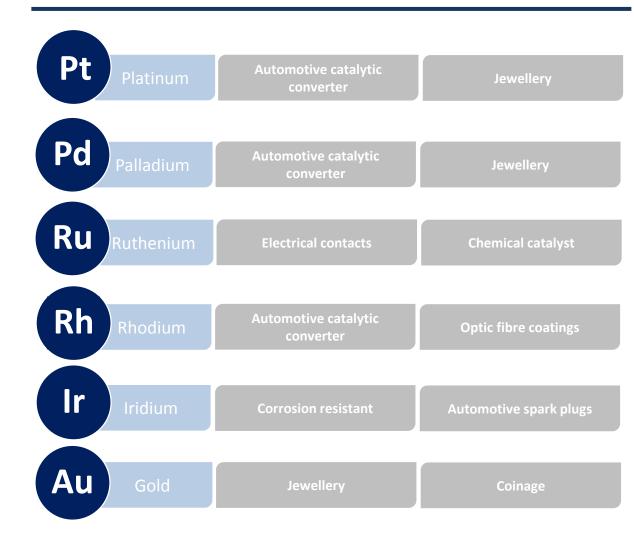
OPERATIONALLY CASH GENERATIVE



PGM MARKETS

- Largest deposits of PGMs are found in South Africa, Zimbabwe, Russia
- Bushveld Complex is the largest platinum resource in the world and accounts for 75% of annual global production
- Platinum market reports issued independently by Johnson Matthey and the World Platinum Investment Council suggest mining supplies of the precious metal will decrease during 2017
- While platinum prices remain constrained, the prices of some of the other metals that make up the PGM basket are enjoying improved price levels

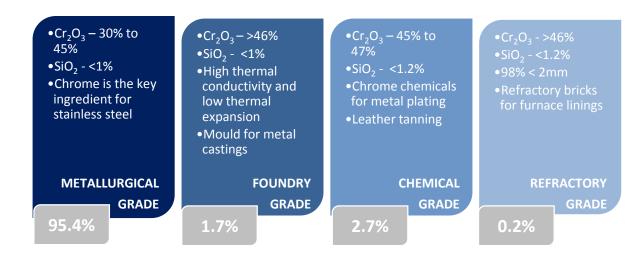
PRIMARY USES OF PGMs



CHROME MARKETS

- Chromite is the mineral extracted from the ore
- Chrome ore is mined from primary chromite deposits
- Chrome concentrates are recovered from tailings and secondary ores
- 95.4% of global chromite produced is metallurgical grade used for stainless steel production (mostly via ferrochrome)
- Globally, 6.3% of global chromite produced is the higher value chemical and foundry products
- Tharisa produces up to 23.4% of the higher value chemical and foundry grades, depending on the ore mix

USES OF CHROME ORE/CONCENTRATE



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