tharisa

ANNUAL RESULTS

for the year ended 30 September 2017



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REEF MINED

↑3.9%

5.0 Mt

(2016: 4.8 Mt)

PGM PRODUCTION

↑8.3%

143.6 koz

(2016: 132.6 koz)

CHROME CONCENTRATE PRODUCTION

↑7.0%

1.3 Mt

(2016: 1.2 Mt)

SPECIALTY GRADE CHROME PRODUCTION

19.9%

323.1 kt

(2016: 269.4 kt)

REVENUE

↑59.1%

US\$349.4m

(2016: US\$219.6m)

EBITDA

1168.7%

US\$115.6m

(2016: US\$43.0m)

HEPS

^266.7%

US\$ 22 cents

(2016: US\$ 6 cent)

PROPOSED DIVIDEND

↑400.0%

US\$ 5 cents

(2016: US\$ 1 cent)

HEALTH AND SAFETY

- Two fatality free years
- LTIFR 0.07 per 200 000 hours worked
- Three safety awards: Best Safety Performance and Best Improved Performance awards at Mine Safe 2017, and an award from the Mine Health and Safety Council for 2 000 fatality free production shifts

LABOUR RELATIONS

- No labour disruptions during the year
- Transferred ~900 employees from previous mining contractor post the financial year end
- Tharisa Minerals total staff compliment ~1 700 (including mining contractors)

TRAINING AND DEVELOPMENT

- On mine training centre
- Learnerships, adult education and training
- Compliance to competency



LTIFR

0.07 (FY2016: 0.36)





BEST SAFETY PERFORMANCE
BEST IMPROVED PERFORMANCE
2 000 FATALITY FREE PRODUCTION
SHIFTS



SUSTAINABILITY

ENVIRONMENT

- Subscribe to the Equator Principles
- Environmental monitoring plan
- Environmental rehabilitation provision of US\$13.7 m

THUSANANG WELLNESS PROGRAMME

- TB programme
- HIV/AIDS programme
- Cancer awareness programme
- Wellness days
- Peer educator programme

COMMUNITY PROJECTS

- Support of community SMME Rocasize
 - Garden services
 - Brick making
 - Clothing and personal protective equipment
- Retief Primary school food forest



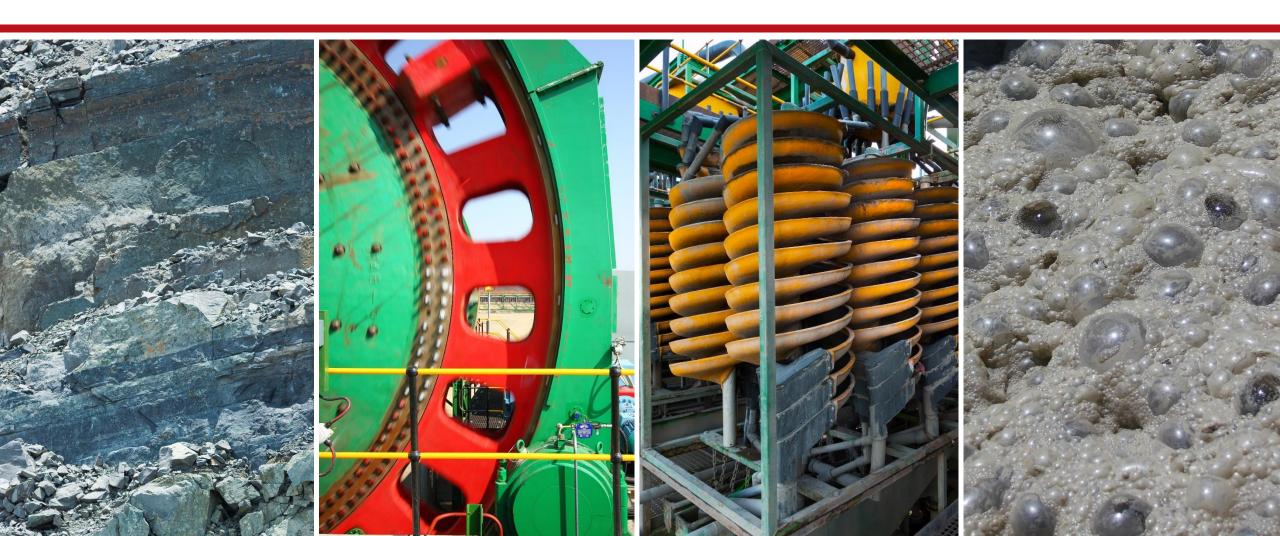








PRODUCTION AND OPERATIONAL HIGHLIGHTS

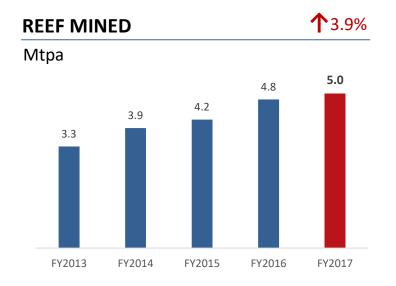


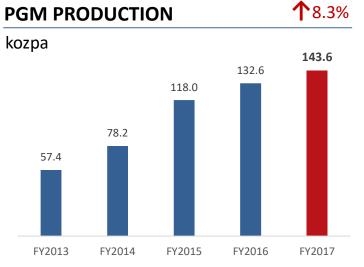
PGM RECOVERY 79.7%(2016: 69.9%)

14.0%

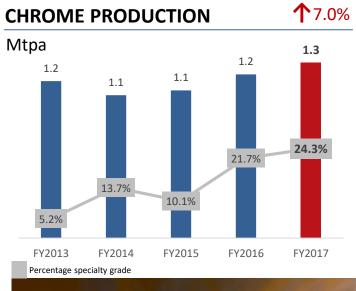
CHROME RECOVERY ↑
64.1%

(2016: 62.7%)











DELIVERING SUSTAINABLE VALUE



RECORD PRODUCTION

PRODUCTION

KEY OPERATIONAL METRICS		FY2017	FY2016	Change
Reef mined	kt	5 025.1	4 837.2	3.9%
Stripping ratio	m³:m³	7.5	7.3	
PGM rougher feed grade	g/t	1.56	1.65	(5.5%)
Chrome grade	%	17.8	18.0	(1.1%)
ROM processed	kt	4 916.2	4 656.3	5.6%
PGM recovery	%	79.7	69.9	14.0%
PGM in concentrate produced	koz	143.6	132.6	8.3%
Chrome recovery	%	64.1	62.7	2.2%
Chrome concentrate produced	kt	1 331.2	1 243.7	7.0%
PGM basket price	US\$/oz	786	736	6.8%
Chrome concentrate price (42% CIF China)	US\$/t	200	120	66.7%
Average exchange rate	ZAR:US\$	13.4	14.8	9.5%





STRATEGY IMPLEMENTATION



ESTIMATED FLEET
REPLACEMENT VALUE
~US\$145.0 m



Mine management

Geologists

In-pit supervisors

Surveyors

Engineers

Maintenance



INSOURCING

effective 1 October 2017

Plant and equipment

Purchased yellow fleet, infrastructure and components



Optimised primary mining fleet

- 19 drill rigs
- 11 excavators
- 46 trucks
- Capable of moving 17 Mm³ per annum
- ~85 support vehicles

Blasting is outsourced

Benefits

- Safety culture alignment
- Greater control over stripping rates
- Quality and grade control
- Unit cost reduction through efficiency
- Preventative maintenance



IMPROVEMENTS

- Compliance to mine plan
- During the transition to owner mining increased management and oversight resulted in availabilities and utilisations improving
- Focus on:
 - Improving availability and utilisation
 - Drill efficiencies and effectiveness
 - Fragmentation

INTEGRATION

- Implemented asset management and maintenance tool for the mining fleet and integrated into the Tharisa ERP
- Fully integrated with Tharisa's SHE and HR systems with compliance reporting
- Commitment to technical competence and culture of continuous improvement and innovation



VALUE ADD INITIATIVES

SUPPLYING TISCO JV

- One of the largest stainless steel producers
- Five year strategic cooperation agreement
- Minimum of 240 ktpa chrome concentrate at market prices
- Represents ~25% of Tharisa's metallurgical grade chrome concentrate
- **Effective September 2017**



THIRD PARTY CHROME

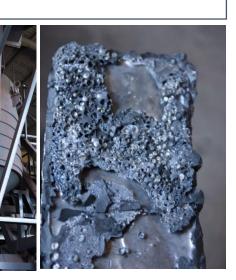
- Arxo Metals entered into an agreement with Western Platinum
- Operates the K3 UG2 plant and markets and sells UG2 chrome produced
- Approximately 200 ktpa of chrome concentrates
- September production of 20 kt



PGM RICH ALLOY

- Commissioning of 1 MW DC furnace to produce PGM rich alloy on a pilot scale
- Further beneficiation capability
- On sale and further beneficiation of PGM rich alloy with Lonmin under PGM research and development cooperation agreement







COMMODITY MARKETS

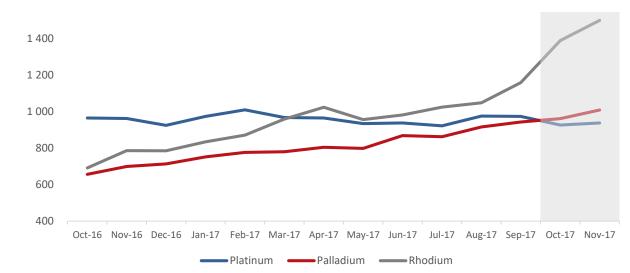


PGM MARKET

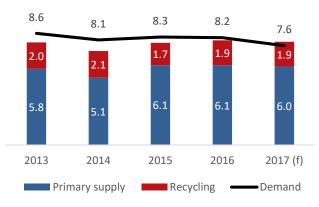
PLATINUM DEMAND AND SUPPLY

- Demand driven by the auto catalyst, jewellery, industrial and investment sectors
- Both primary and secondary sources of supply seen decreasing
- Primary supply weaker in 2017 due to supressed average prices, with lower capital investment and cost increases
- In 2017 platinum market expected to be close to balance
- WPIC forecast deficit in 2018 of 250 koz

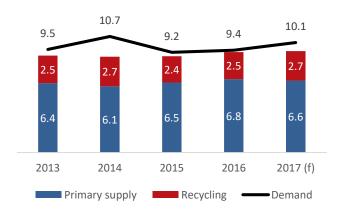
PLATINUM, PALLADIUM AND RHODIUM MARKET PRICES [US\$/oz]

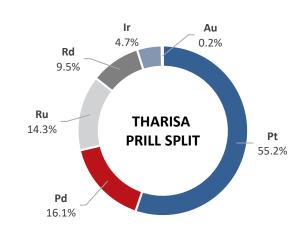






PALLADIUM DEMAND AND SUPPLY [Moz]





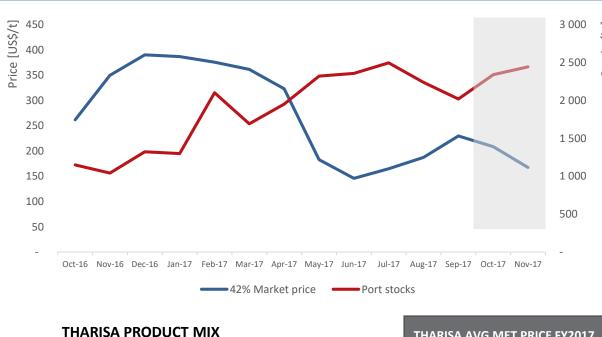
CHROME MARKET

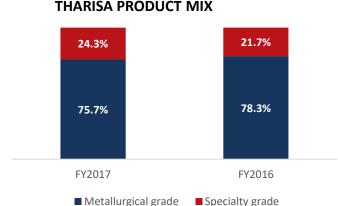
DEMAND AND SUPPLY

- 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
- Chrome prices were volatile during 2017, peaking at US\$390 and dipping to US\$130 then recovery above US\$200/t
- Now holding between US\$165/t to US\$170/t
- Chrome stocks at Chinese ports are at 2.4 Mt just over two month's worth of supply to the ferrochrome and stainless steel industry

CHEMICAL GRADE	FOUNDRY GRADE
Cr ₂ O ₃ – 45% to 47% SiO ₂ - <1.2%	Cr ₂ O ₃ - >46% SiO ₂ - <1.0%
Used to produce sodium dichromate used in leather tanning, pigments, plating	Used in moulds for metal castings and nozzle sands

METALLURGICAL GRADE CHROME PRICE / PORT STOCK





THARISA AVG MET PRICE FY2017 US\$200/t

**SPECIALTY CIF EQUIVALENT BASIS +US\$50/t premium



FINANCIAL RESULTS







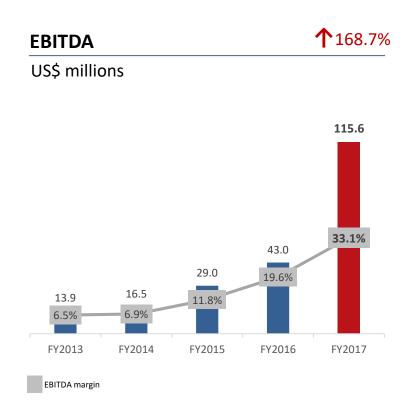


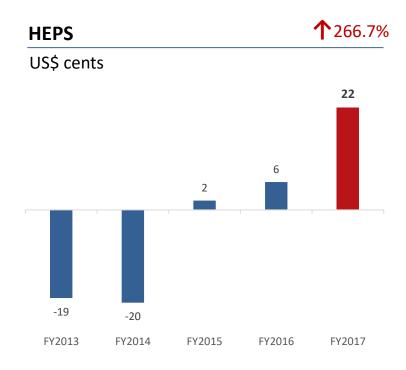
AVERAGE PGM PRICE US\$786/oz ↑6.8%

42% CHROME PRICE (CIF CHINA) US\$200/t ↑66.7%
(2016: US\$120/t)

(2016: US\$736 /oz)







INCOME STATEMENT HIGHLIGHTS

SUMMARY OF RESULTS

US\$ millions	FY2017	FY2016	Change
Revenue	349.4	219.6	59.1%
Gross profit	122.7	54.5	125.2%
Gross profit margin	35.1%	24.8%	41.5%
Results from operating activities	95.9	32.1	198.4%
EBITDA	115.6	43.0	168.7%
EBITDA margin	33.1%	19.6%	68.9%
Net finance costs	4.9	10.2	(51.6%)
Profit before tax	91.0	22.0	314.2%
Tax	23.3	6.2	277.8%
Profit for the year	67.7	15.8	328.5%
Effective tax rate	25.6%	28.1%	(8.9%)
Headline earnings per share (US\$ cents)	22	6	266.7%
Proposed dividend per share (US\$ cents)	5	1	400.0%
Dividend yield	3.7%		

SEGMENTAL ANALYSIS

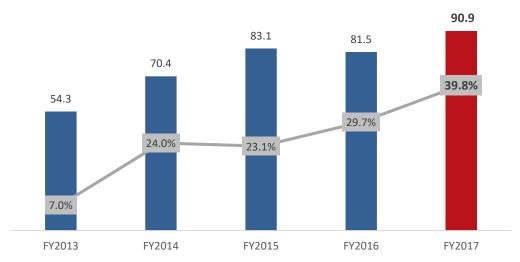
		FY2017			FY2016		
Segmental analysis	PGMs	Chrome	Agency	PGMs	Chrome	Agency	
Gross profit	36.2	86.2	0.3	24.2	30.3	-	
Gross profit margin	39.8%	34.1%	5.4%	29.7%	21.9%	-	
Sales volume	143.5 koz	1.3 Mt	-	132.9 koz	1.2 Mt	-	
Shared cost allocation Average transport cost per tonne of	35.0%	65.0%	-	50.0%	50.0%	-	
chrome concentrate (CIF main ports China)	-	52.0	-	-	42.0	-	



PGM SHARED COSTS 35.0%(2016: 50.0%)

PGM REVENUE AND GROSS PROFIT MARGIN

US\$ millions



CHROME REVENUE AND GROSS PROFIT MARGIN

US\$ millions



PGM SALES VOLUME

koz 143.5 132.9 119.9 80.4 56.9 1132 PGM basket price 1103 885 736 786 [US\$/oz] FY2013 FY2014 FY2015 FY2016 FY2017

CHROME CONCENTRATE SALES VOLUME

Mt

1.2
1.1
1.2
1.3
1.42% chrome price 165
158
158
158
120
200
[US\$/tonne]
FY2013
FY2014
FY2015
FY2016
FY2017



BALANCE SHEET

FUNDING

		Pro forma	na	
US\$ millions	FY2017	FY2017	FY2016	
Total interest bearing debt	54.2	74.8	67.1	
Long term	4.4	19.0	24.0	
Short term*	49.8	55.8	43.1	
Debt service reserve account	4.5	4.5	9.8	
Adjusted interest bearing debt	49.6	70.2	57.3	
Adjusted debt to total equity ratio	18.2%	25.8%	28.4%	
Cash and cash equivalents	49.7	49.7	15.8	
Net debt	(0.1)	20.6	41.4	
Net debt to total equity ratio	0.0%	7.6%	20.5%	
Net current assets	63.3	57.1	0.5	
Return on equity	19.4%	19.4%	5.8%	

OWNER MINING FUNDING

CASH CONSIDERATION OF US\$20.6 m

Bridge facility of US\$14.4 m

Refinancing term sheet signed

OEM finance of US\$6.2 m

EQUIPMENT RENTALS

US\$6.6 m

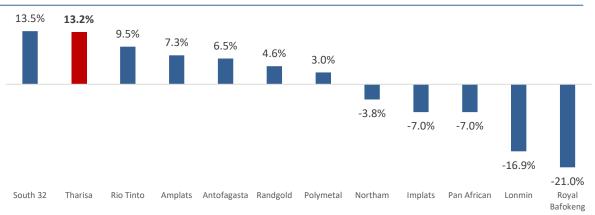
^{*}Includes certain amounts in accounts payable relating mainly to accrued dividends payable by a subsidiary



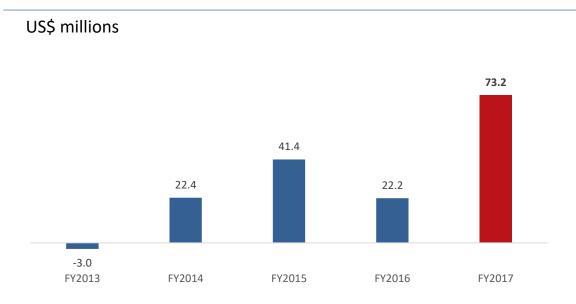
SUMMARISED CASH FLOW STATEMENT

US\$ millions	FY2017	FY2016
Cash flow from operating activities	73.2	22.2
Investing cash flows	(26.6)	(12.0)
Financing cash flows	(12.5)	(18.2)
Net increase / (decrease) in cash	34.1	(8.0)
Cash at the end of the period	49.7	15.8
Depreciation	16.9	10.3
Free cash flow per share (US\$ cents)	18.2	0.1
Price/free cash flow per share	7.9	24.5

FREE CASH FLOW YIELD (29 NOVEMBER 2017)



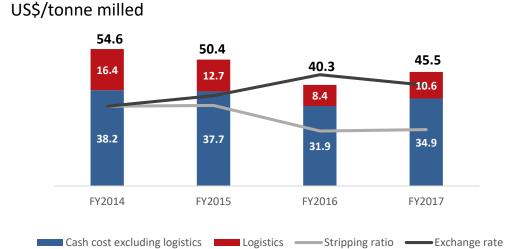
OPERATIONALLY CASH GENERATIVE



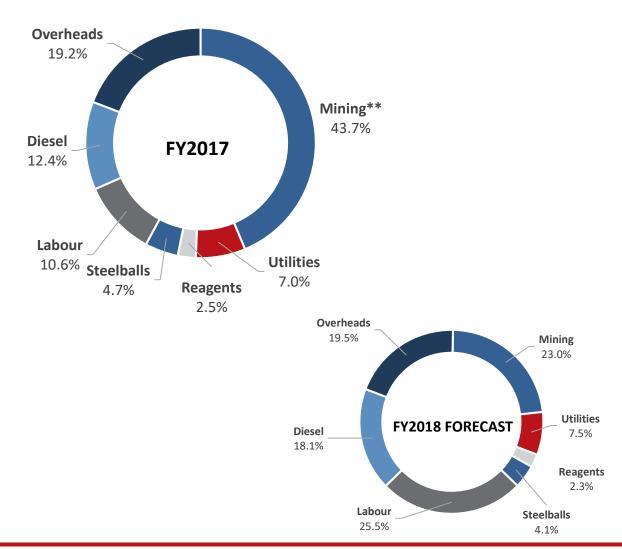
UNIT COSTS

By product basis		FY2017	FY2016
All in cost per Pt ounce sold	US\$/oz	(296.1)	437.8
All in cost per 42% chrome tonne sold	US\$/t	114.0	85.2
All in cost includes operating costs, administration costs and capital			
			FY2017 at LOM
Mining costs		FY2017	stripping*
Mining cost per reef tonne	US\$/t	18.8	22.2
Mining cost per cube	US\$/m ³	7.8	8.2

CONSOLIDATED CASH COST PER TONNE MILLED



OPERATING COST ANALYSIS – EX WORKS

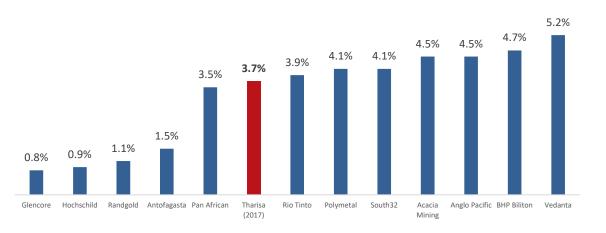


INVESTMENT CASE AND OUTLOOK

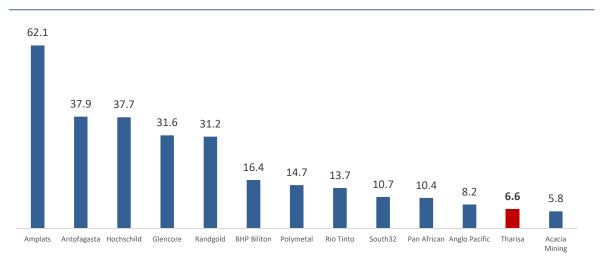


INVESTMENT CASE

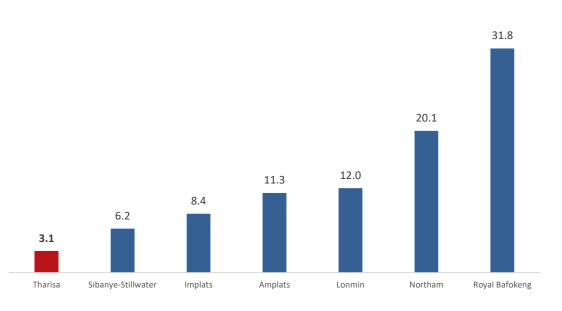
DIVIDEND YIELD (2016A)



PE RATIO (30 NOVEMBER 2017)



EV/EBITDA



US\$ millions	Tharisa	Sibanye	Implats	Amplats	Lonmin	Northam	Royal Bafokeng
EV	352.5	4 459.9	2 277.6	7 394.3	147.7	1 876.5	731.6
EBITDA 2017E	115.6	716.7	272.7	654.6	12.3	93.4	23.0

DELIVERING ON OUR STRATEGY

LEADING NATURAL RESOURCES GROUP

Globally significant diversified low cost operations

INNOVATION

Growth through innovative research and development

OPTIMISATION INITIATIVES

Maximise value extraction

LEVERAGING MARKETING AND LOGISTICS PLATFORM

Marketing, sales and logistics platform
Expansion into multicommodities
Geographic diversity

CAPITAL DISCIPLINE

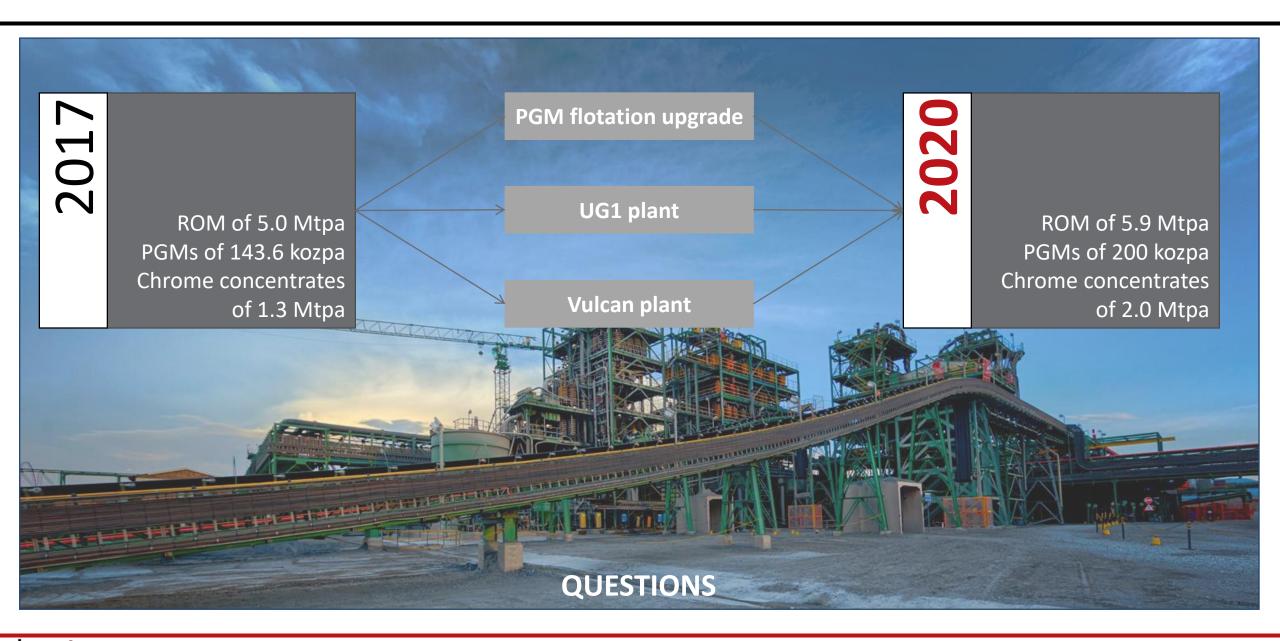
Dividend policy of minimum 10% NPAT Capital allocation to low risk projects



FY2018 GUIDANCE: PGMS OF 150 kozpa & CHROME CONCENTRATES OF 1.4 Mtpa



VISION 2020



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