

# INTERIM RESULTS MAY 2017



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### -•INTRODUCTION TO THARISA

### **UNIQUE APPROACH**

- Co-producer of PGMs and chrome
  - Global top 5 producer of chrome concentrates

### LOW COST OPERATION

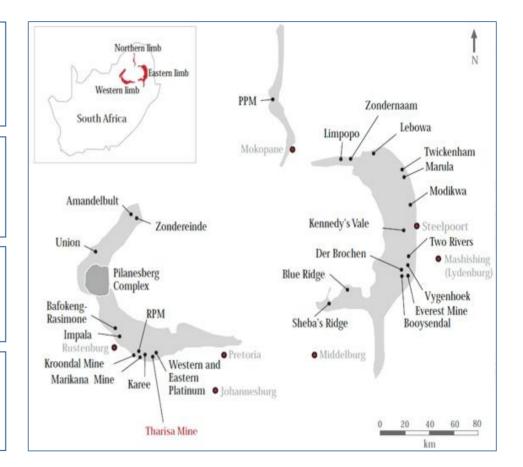
- Lowest cost quartile in the industry
  - Shallow, mechanised long life open pit

### **HIGHLY CASH GENERATIVE**

- Major mine development capital investment complete
- Annual dividend policy of 10% of NPAT

### **GROWTH OPPORTUNITIES**

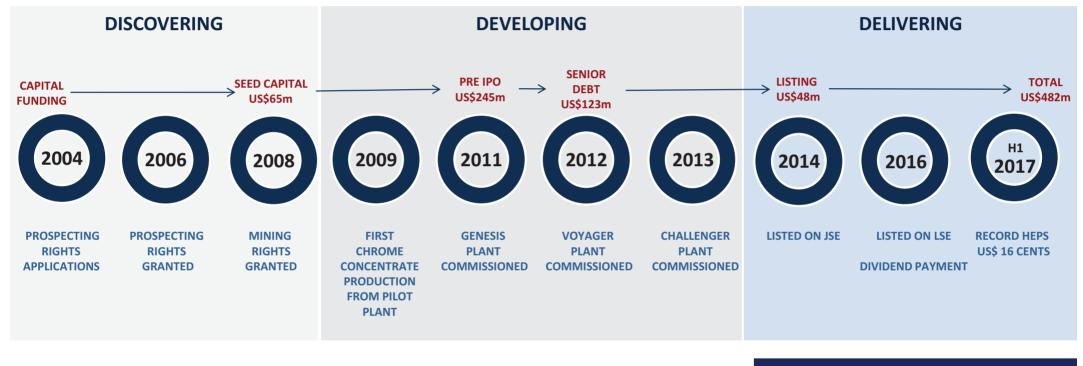
- Organic growth 18 years O/P LOM + 40 years U/G
- Innovative R&D and improved productivity through optimisation
- Insourcing of mining



### THARISA DELIVERS VALUE TO ITS SHAREHOLDERS THROUGHOUT THE COMMODITY CYCLE



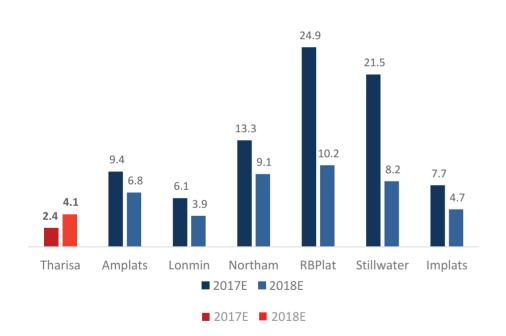
### **→**THARISA'S JOURNEY



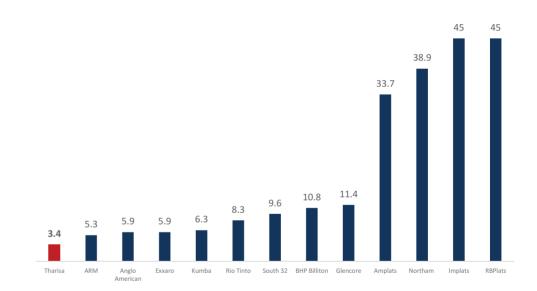
Mining 4.8 Mtpa PGM concentrates of 147.4 kozpa Chrome concentrates of 1.3 Mtpa

### INVESTMENT CASE

### **EV/EBITDA**



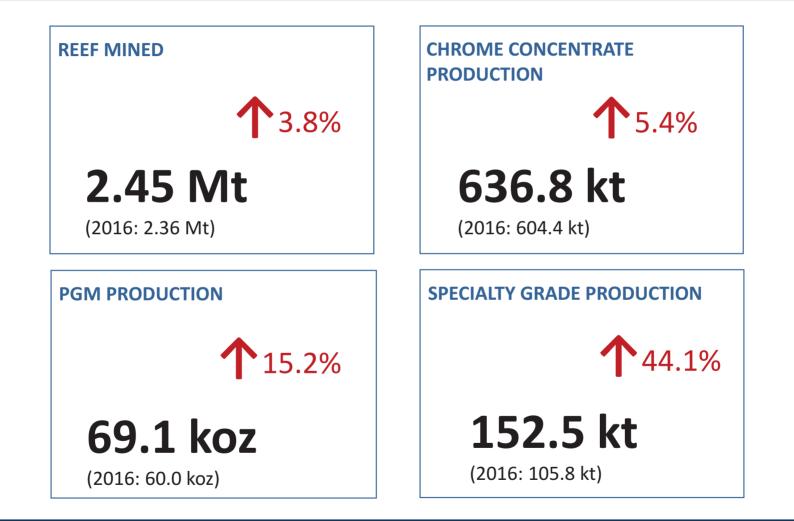
### PE AT CONSENSUS (CY2017E)



tharisa Source: Company filings

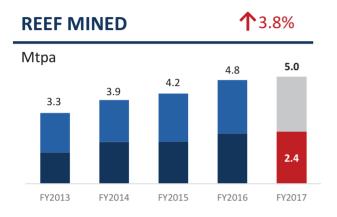
#### Source: Investec/Bloomberg

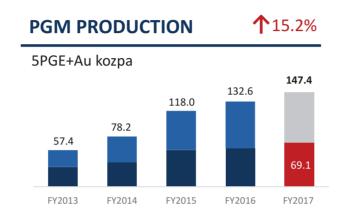
### OPERATIONAL HIGHLIGHTS

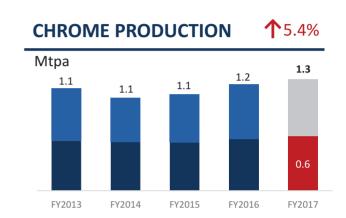




### IMPROVED PRODUCTIVITY









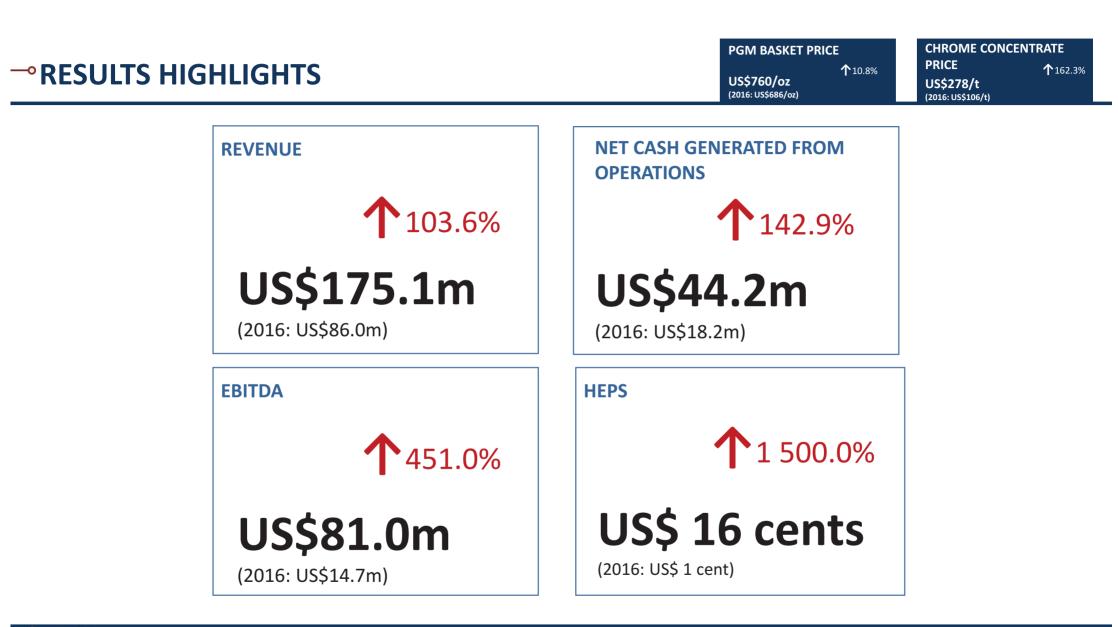




# ----- FINANCIAL REVIEW

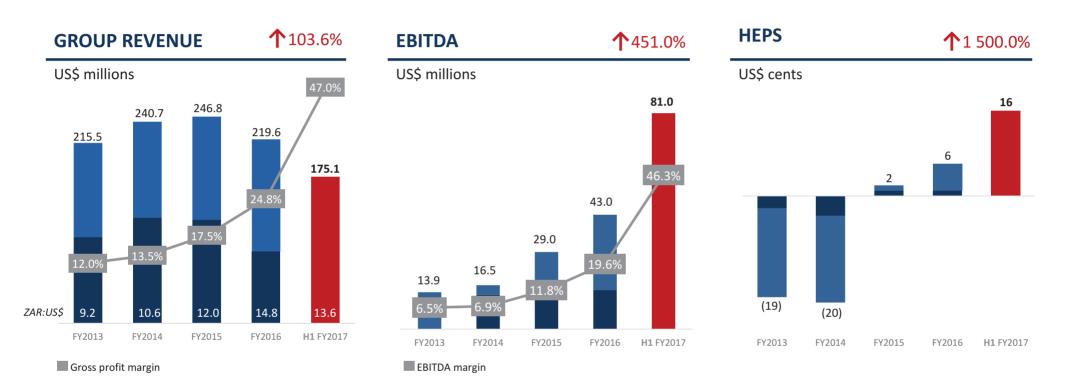








### -STRONG FINANCIAL PERFORMANCE



### -SUMMARY OF RESULTS

### **INCOME STATEMENT HIGHLIGHTS**

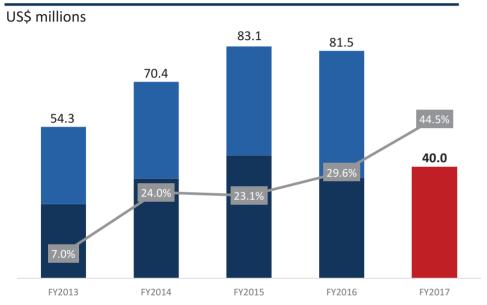
US\$ millions	H1 FY2017	H1 FY2016	Change
Revenue	175.1	86.0	103.6%
Gross profit	82.4	21.1	290.5%
Gross profit margin	47.0%	24.6%	91.1%
Results from operating activities	69.9	10.6	559.4%
EBITDA	81.0	14.7	451.0%
EBITDA margin	46.3%	17.1%	170.6%
Net finance costs	1.6	6.1	(74.1%)
Profit before tax	68.3	4.5	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**

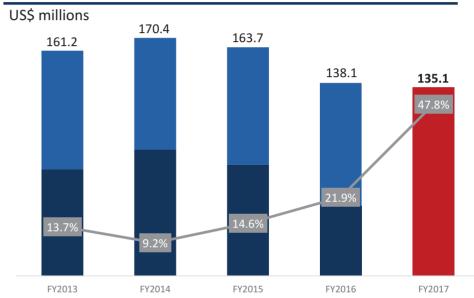
	PGMs		CHROME		
US\$ millions	H1 FY2017	H1 FY2016	H1 FY2017	H1 FY2016	
Gross profit	19.0	12.1	63.4	9.0	
Gross profit margin	44.5%	33.8%	47.8%	17.9%	
Shared cost allocation	25%	50%	75%	50%	
Sales volume	69.3 koz	59.1 koz	502.4 kt	481.7 kt	
Average transport costs per tonne of chrome concentrate (CIF main ports China)			US\$50/t	US\$40/t	
Chrome selling expenses US\$23.5m H1 FY2017 Revenue US\$175.1m PGM selling expenses US\$0.2m	m US\$16	H1 FY2016 US\$8		<b>PGM</b> revenue US\$35.8m	
Chrome revenue US\$111.6m	reve	ome enue 33.7m	exp	<b>selling</b> enses 50.1m	

	PGM SHARED COSTS	CHROME SHARED COSTS
INCREASING MARGINS	<b>25%</b> (2016: 50%)	<b>75%</b> (2016: 50%)

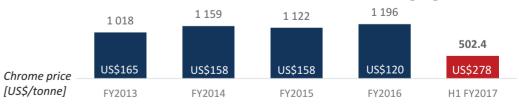
### PGM REVENUE AND GROSS PROFIT MARGIN



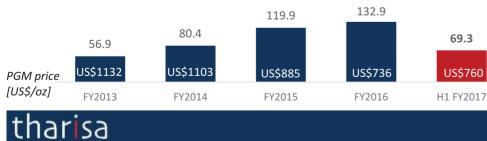
#### CHROME REVENUE AND GROSS PROFIT MARGIN



### CHROME CONCENTRATE SALES VOLUME [kt]



PGM SALES VOLUME [koz]



#### 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

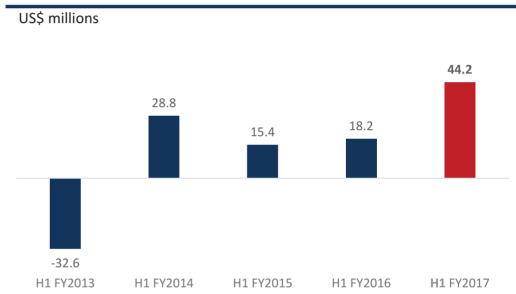
\* Includes certain amounts in accounts payable relating mainly to accrued dividends payable by a subsidiary

### -----STRONG CASH FLOW GENERATION

#### 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**



 
 STRIPPING RATIO
 AVERAGE EXCHANGE RATE ZAR:US\$

 8.4 m³:m³
 13.6

 (2016: 6.8 m³:m³)
 (2016: 15.0)

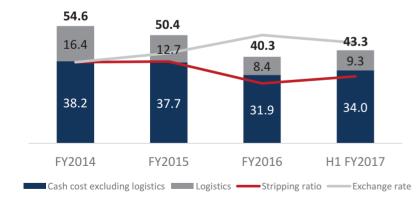
### **UNIT COSTS**

	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%

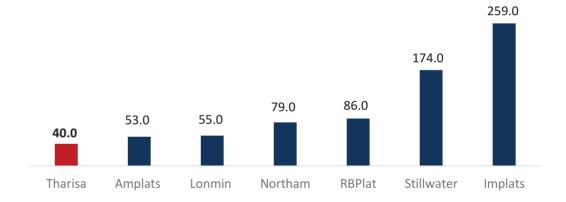
#### CONSOLIDATED CASH COST PER TONNE MILLED

US\$/tonne milled

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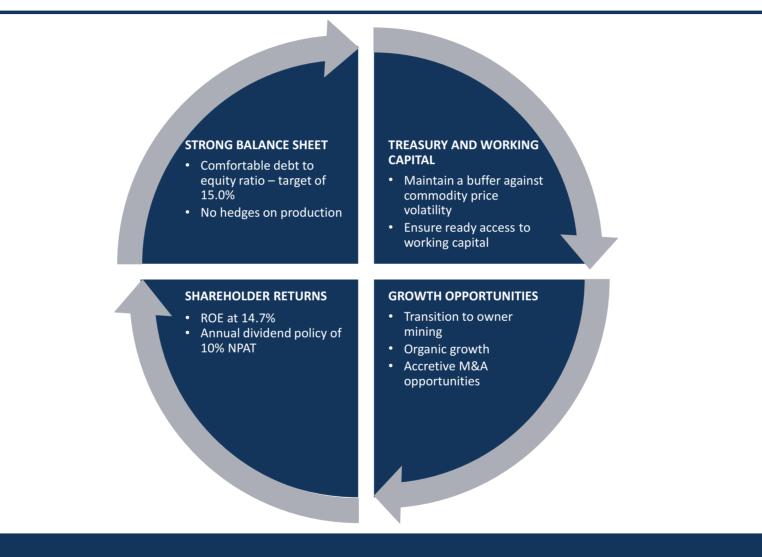


### CASH COST PER TONNE MILLED (US\$)



Source: BMO and company records

### DISCIPLINED CAPITAL ALLOCATION

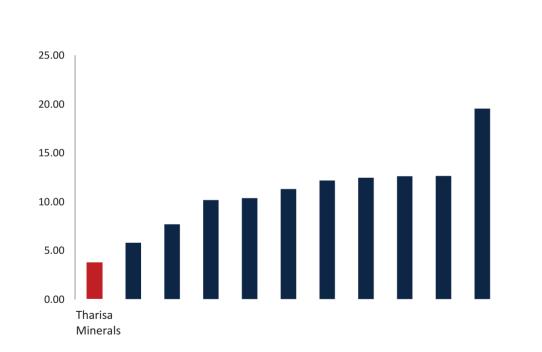


# ---- OPERATIONAL REVIEW





### COMPARATIVE LTIFR RATE (March 2017)



#### Per million hours worked

#### **SAFETY AND HEALTH A PRIORITY**

- Safety remains a top priority and Tharisa strives for zero harm
- Lost Time Injury Frequency Rate (LTIFR) of 0.17 per 200 000 man hours worked



### OPERATIONAL HIGHLIGHTS

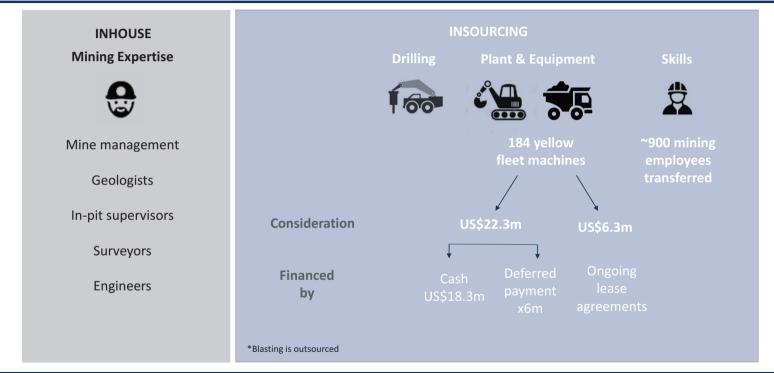
### **KEY OPERATIONAL METRICS**

		H1 FY2017	H1 FY2016	Change
Reef mined	kt	2 449.1	2 358.6	3.8%
Stripping ratio	m³:m³	8.4	6.8	23.5%
PGM rougher feed grade	g/t	1.54	1.68	(8.3%)
Chrome grade	%	17.5	18.4	(1.4%)
ROM processed	kt	2 417.7	2 197.0	10.0%
PGM recovery	%	78.3	65.0	20.5%
PGM in concentrate	koz	69.1	60.0	15.2%
Chrome recovery	%	63.4	62.8	1.0%
Chrome concentrate	kt	636.8	604.4	5.4%
PGM basket price	US\$/oz	760	686	10.8%
Chrome concentrate price (42% CIF China)	US\$/t	278	106	162.3%
Average exchange rate	ZAR:US\$	13.6	15.0	(9.3%)

#### **FY2017 GUIDANCE**

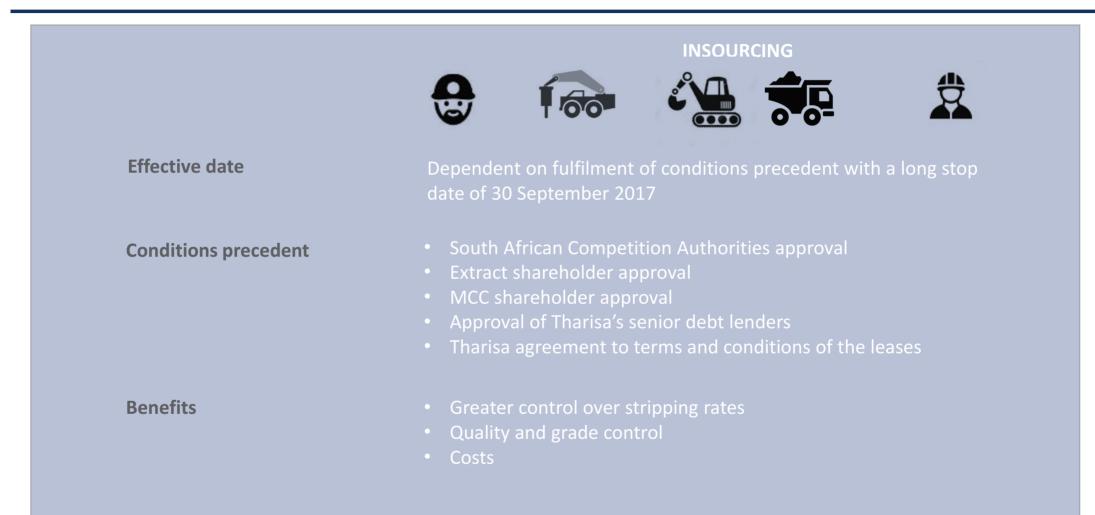


### TRANSITION TO OWNER MINING MODEL





### OWNER MINING MODEL



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### PGM MARKET

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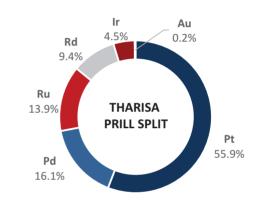
#### PLATINUM DEMAND AND SUPPLY 2017

- Demand is driven by the autocatalyst, jewellery, industrial and investment sectors
- Supply expected to be weaker due to lower price, with lower capital investment and cost increases
- In 2017 platinum to remain in deficit by 120 koz



#### PLATINUM DEMAND AND SUPPLY [Moz]

### THARISA'S PGM BASKET



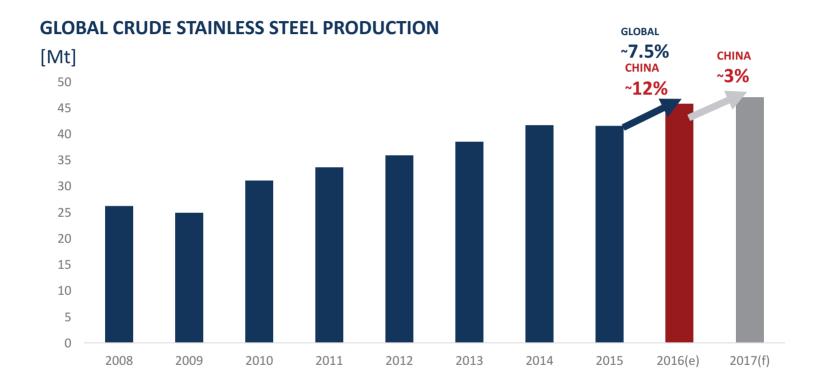
#### **PGM BASKET PRICES**

	6 months		1	l year
Platinum	↓ 5	.1%	¥	14.6%
Palladium	<b>†</b> 30	.7%	1	30.1%
Ruthenium	<b>†</b> 42	.0%	1	37.2%
Rhodium	<b>†</b> 62	.5%	1	54.7%
Iridium	1 39	9.2%	1	7.4%
Gold	÷.	2.4%	¥	3.0%

Source: World Platinum Investment Council Q4 2016 Report, Mar '17 Johnson Matthey PGM Market Report Nov '16

Source: Johnson Matthey and Kitco, 1 May '17

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### -• CHROME MARKET

### **DEMAND AND SUPPLY 2017**

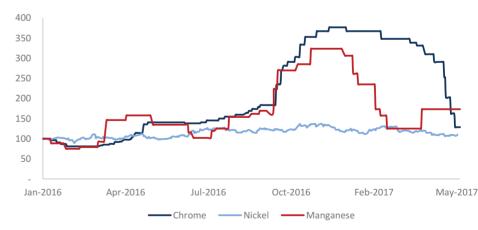
- Demand for metallurgical grade chrome concentrate is driven by its use in the manufacture of stainless steel
- Production of stainless steel in 2017 estimated to grow at 3% to 4%
- China is wholly dependent on imports of chrome ore/alloy
- Strong supplier response to abnormally high prices, causing increase in pipeline inventories
- Incentive pricing pushing markets into over supply

#### **CHINESE CHROME STOCK/ PRICE CORRELATION**



### **THARISA CHROME GRADES**





#### STAINLESS STEEL RAW MATERIAL PRICE TRENDS

tharisa Source: Ferroalloynet and ICDA, May 2017

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# **UNIQUELY POSITIONED FOR THE FUTURE**

	LEADING NATURAL RESOURCES GROUP
	Globally significant diversified low cost operations
-	Record financial and operational period, robust business model

STRATEGIC OBJECTIVE	INNOVATION	GROWTH INITIATIVES	LEVERAGING MARKETING AND LOGISTICS PLATFORM	CAPITAL DISCIPLINE		
	Growth through innovative research and development projects	Transition to owner mining Maximise value extraction	Marketing, sales and logistics platform Expansion into multi- commodities Geographic diversity	Dividend policy of 10% of NPAT Capital allocation to low risk projects		
STRATEGIC PLAN	South Africa's only PGM and chrome co-producer Innovative approach to processing multiple MG reef horizons	Continued improvement in PGM and chrome recoveries through: Genesis PGM flotation Secondary spiral project UG1 processing plant	Initiating third party trade and logistics	Disciplined capital allocation Dividend paying		
tharisa 27						

# --- DELIVERING ON OUR PROMISES

IMPROVED VOLUMES	<ul> <li>Ore mined up 3.8%</li> <li>PGM concentrate produced 15.2% higher</li> <li>Chrome concentrate produced 5.4% higher</li> </ul>
RECOVERIES UP	<ul><li>PGM recovery improved to 78.3%</li><li>Chrome recovery improved to 63.4%</li></ul>
RECORD FINANCIALS	<ul><li>EBITDA up 451.0%</li><li>HEPS climbs 1 500%</li></ul>
CASH COSTS CONTAINED	<ul> <li>Lowest cost quartile</li> <li>Negative platinum cost (on an all in cost basis)</li> </ul>
INCREASED MARGINS	•EBITDA margin 46.3% •Operating margin 39.9%
UNCHANGED GUIDANCE	<ul> <li>147.4 koz of PGM concentrates</li> <li>1.3 Mt of chrome concentrates, including 300 kt of specialty products</li> </ul>

# ---- ANNEXURES



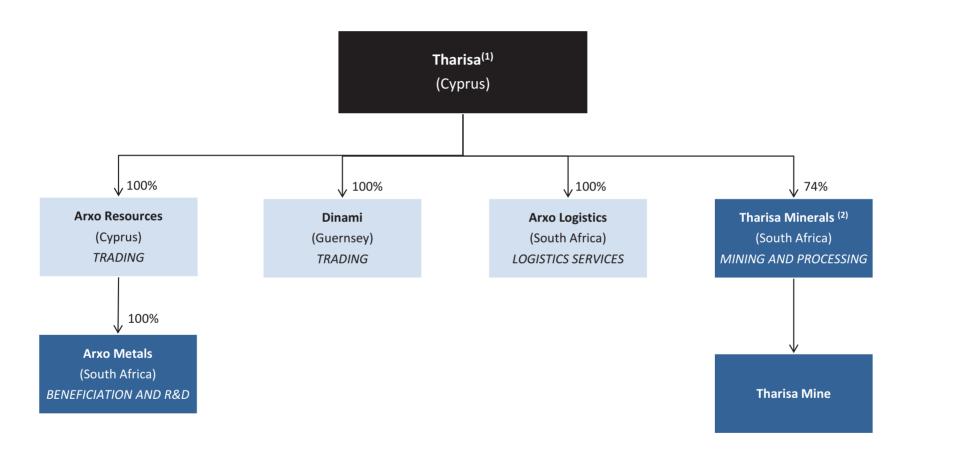
# **CORPORATE STRUCTURE**

ONE YEAR INFORMATION (11 MAY 2017)	<b>JSE</b> PRIMARY LISTING	LSE STANDARD LISTING MAIN BOARD
Short name	THA	THS
Price	ZAR21.00	GBp125.00
High – 52 week	ZAR29.74	GBp165.00
Low – 52 week	ZAR6.50	GBp35.00
Market capitalisation	ZAR5.4 billion	GBP321.2 million
One year return	180%	



TOP SHAREHOLDINGS (11 MAY 2017)	%
Medway Developments	46.3
Rance Holdings	15.8
Fujian Wuhang Stainless Steel	10.9
Maaden Invest	4.6
Macquarie Capital Hong Kong	3.2
Friedshelf 1525	2.6
Altius Investment Holdings	2.2
Hongkong Heyi Mining Resource	2.0
Phillip Ventures Enterprise Fund	1.3
Swiss Asia Financial Services (HK)	1.1
Quam Securities	1.1
BlackRock Investment Management	1.1
Old Mutual	0.5

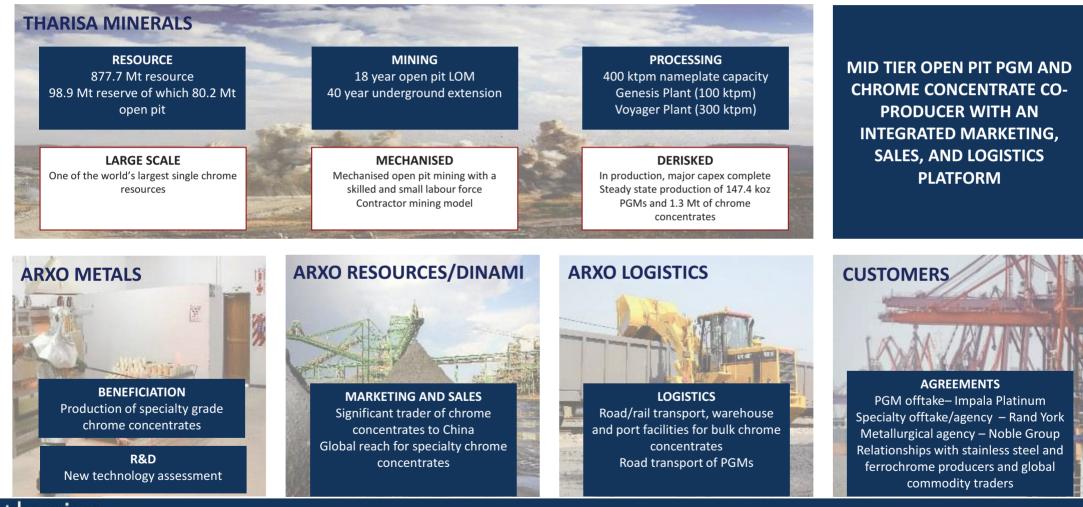
### **CORPORATE STRUCTURE**



(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%

### -VALUE CHAIN



# MINING FIVE MG SEAMS

#### **RESOURCES AND RESERVES**

 Steady state mining rate of 5.0 Mtpa with an average stripping ratio of 9.7 (m<sup>3</sup>:m<sup>3</sup> basis)

#### MINERAL RESOURCE

- 877.7 Mt
- 1.58 g/t 6PGE+Au
- 20.5% Cr<sub>2</sub>O<sub>3</sub>

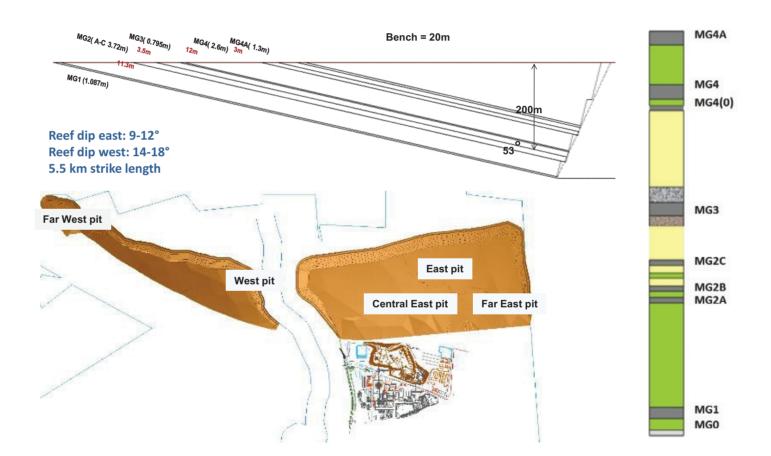
#### **MINERAL RESERVE**

- 98.9 Mt
- 1.50 g/t 5PGE+Au
- 20.1% Cr<sub>2</sub>O<sub>3</sub>

#### **OPEN PIT MINERAL RESERVE**

- 80.2 Mt
- 1.49 g/t 5PGE+Au
- 20.3% Cr<sub>2</sub>O<sub>3</sub>

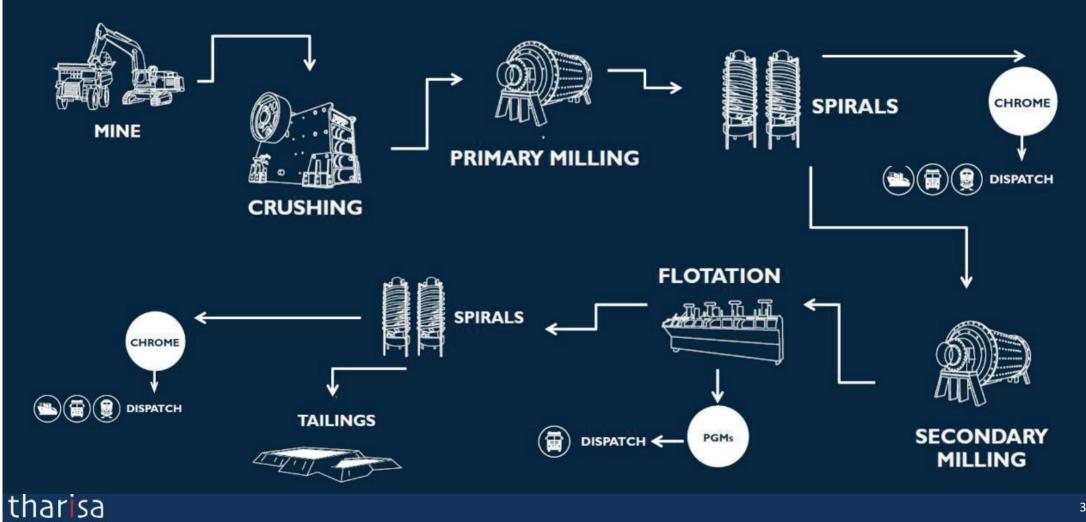




Declaration as at 30 September 2016



### INNOVATIVE APPROACH



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### PROCESSING

### **KEY FACTS**

- Process plants are owned and operated by Tharisa
- Each plant operates independently, providing flexibility and limiting potential process disruptions
- Basic process:
  - ROM is crushed and screened
  - Selected reef ROM sent to Challenger
     Plant to recover foundry and chemical grade
  - Primary milling to liberate chromite crystals
  - Primary spirals to recover chromite
  - Secondary milling to liberate PGM particles
  - Flotation circuit to recover PGM particles
  - Secondary spirals to recover additional chromite

### INDEPENDENT PROCESSING PLANTS

#### **GENESIS PLANT**

- Capacity: 100 ktpm ROM
- Processes reef layers with lower
  - PGM and higher chromite grades
- Challenger Plant recovers high value foundry grade and chemical grade chrome concentrates



#### **VOYAGER PLANT**

- Capacity: 300 ktpm ROM
- Processes reefs with higher PGM and lower chromite grades
- Produces both metallurgical and chemical grade products



# MARKETING, SALES AND LOGISTICS

#### MARKETING AND SALES

- PGM concentrate offtake agreement with Impala
- Agency agreement with Noble Resources for metallurgical chrome concentrate
- Foundry and chemical grade concentrate offtake agreement with Rand York Minerals



- Direct relationships with a broad range of stainless steel producers, ferrochrome producers and global commodity traders
- Scale of operation allows for direct access to market and chrome concentrate price discovery
- ~9.5% of total Chinese chrome imports, and ~12.9% of South African exports to China (FY2016)
- ~6.8% of total Chinese chrome imports, and ~9.6% of South African exports to China (H1 FY2017)

### LOGISTICS

- Integrated platform to mitigate logistics risks and providing a competitive advantage
- Road transportation of PGM concentrate to Impala
- Road and rail transport capacity, warehousing facilities and port facilities



- Shipment of chrome concentrate in bulk from Richards Bay Dry Bulk Terminal and containerised through the Durban port to customers in Asia and other international customers
- A platform to service third party customers in the future

Notes	