

tharisa Integrated Resource GROUP | LOW COST CO-PRODUCER – PGMS AND CHROME February 2015



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KEY INVESTMENT HIGHLIGHTS

Direct access to the only JSE listed PGM and chrome concentrate open pit co-producer with an integrated marketing, sales and logistics platform



Large scale (832 Mt resource) mid-tier PGM and chrome concentrate co-producer

Mechanised open pit mining with a comparatively small and skilled contracted labour force

Lowest cost quartile producer of PGM and chrome concentrates In-house, cost effective mine to customers logistics solution

Open pit operations with

over 22 years LOM and

36 year LOM

underground extension

Steady state production

of 144 koz 5 PGE + AU

and 1.85 Mt of chrome

concentrates

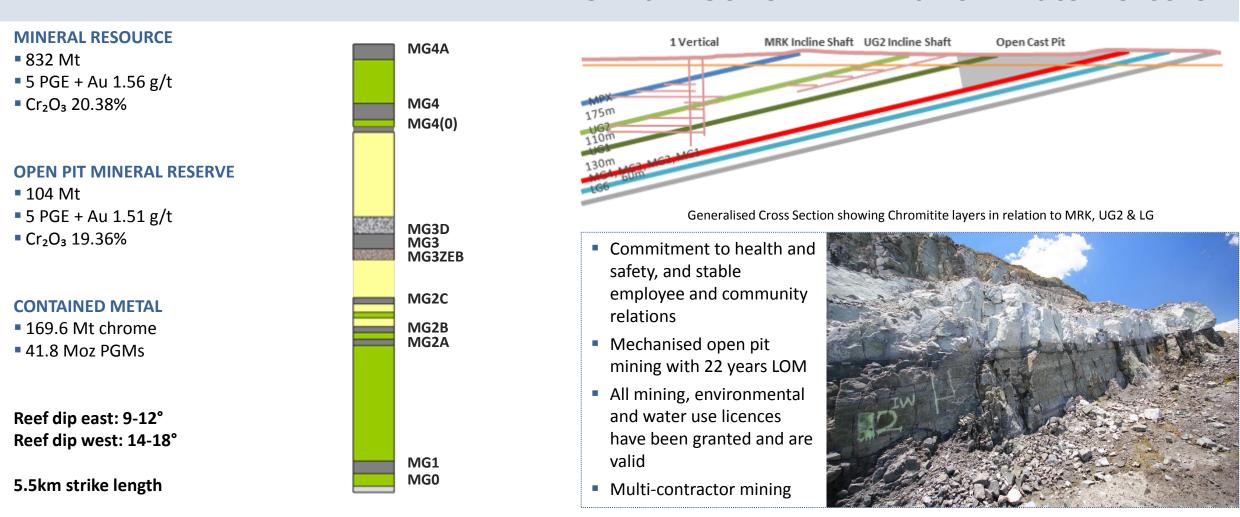
single chrome resource mines

One of the **worlds largest**

In production and **de-risked**

Growth/optimisation initiatives

MINING



MINING ALL SIX MG CHROMITITE LAYERS FACILITATES CO-PRODUCTION

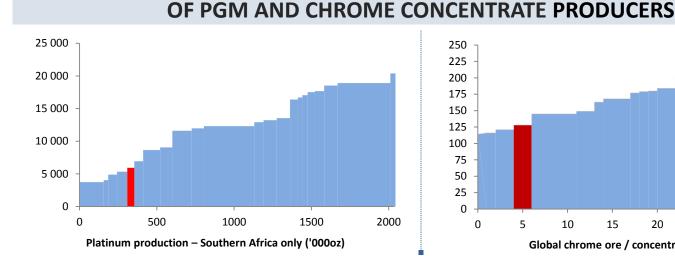
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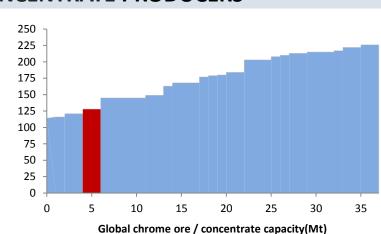
PROCESSING, BENEFICIATION AND OPTIMISATION

KEY HIGHLIGHTS

- Producing PGM (5 PGE + Au) concentrate
- Producing metallurgical, chemical and foundry grade chrome concentrates
- Processing flexibility provided through owner operated Voyager (300 ktpm capacity) and Genesis (100 ktpm capacity) standalone concentrator plants. Total 400 ktpm ROM capacity
- Operationally de-risked co-producer
- Optimisation underway
- Research into the feasibility of producing chrome alloys with minimal or no electricity as a long term strategic objective



Source: CPR (FY14), peer company information, as at December 2013 – Pre Platinum Strike **Note**: Allocated costs to PGM and chrome concentrate production (40:60 – PGM:Chrome)





LOCATED IN THE LOWEST COST QUARTILE

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% of total Chinese chrome imports, and ~16% of South African exports to China

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, sufficie



facilities and port facilities, sufficient for steady state chrome production

- Shipment of chrome concentrate in bulk from the 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



FINANCIAL OVERVIEW

	FY2014			FY2013		
US\$ millions	PGMs	Chrome	Total	PGMs	Chrome	Total
Revenue	70.4	170.3	240.7	54.3	161.2	215.5
Cost of sales	53.5	153.3	206.8	50.5	139.1	189.6
Gross profit contribution	16.9	17.0	33.9	3.8	22.1	25.9
Gross profit margin	24.0%	10.0%	14.1%	7.0%	13.7%	12.0%
EBITDA			16.5			13.9
EBITDA margin			6.9%			6.5%

FY2014 FINANCIAL

PRODUCTION

	FY2	014	FY2013		
	PGMs	Chrome	PGMs	Chrome	
Production	78.2 koz	1.085 Mt¹	57.4 koz	1.193 Mt	
Average PGM basket price	US\$1 103 per oz		US\$1 132 per oz		
CIF contract price (42% metallurgical)		US\$158 per tonne		US\$161 per tonne	
Average exchange rate ZAR:USD	10.56		9.24		

CAPITAL RAISED



1: Includes the production of metallurgical, chemical and foundry grade chrome concentrates

KEY DIFFERENTIATORS

- Strength to strength from 2006, through the financial and energy crises
 - identification of **unique** ore body
 - innovative development of the Genesis and Voyager plants
- Capital investment programme complete
- Mechanised open pit mining no electricity requirement
- Mining of all six MG chromitite layers and co-production of PGM and chrome concentrates
- Independent processing plants provides operational flexibility
- Stable labour relations small skilled labour force
- Integrated marketing, sales and logistics platform
- Extensive industry and management experience with a successful track record of identifying, developing and operating mines
- Optimisation in progress with continuous research and development to maximise value

VISION

LEADING NATURAL RESOURCES COMPANY

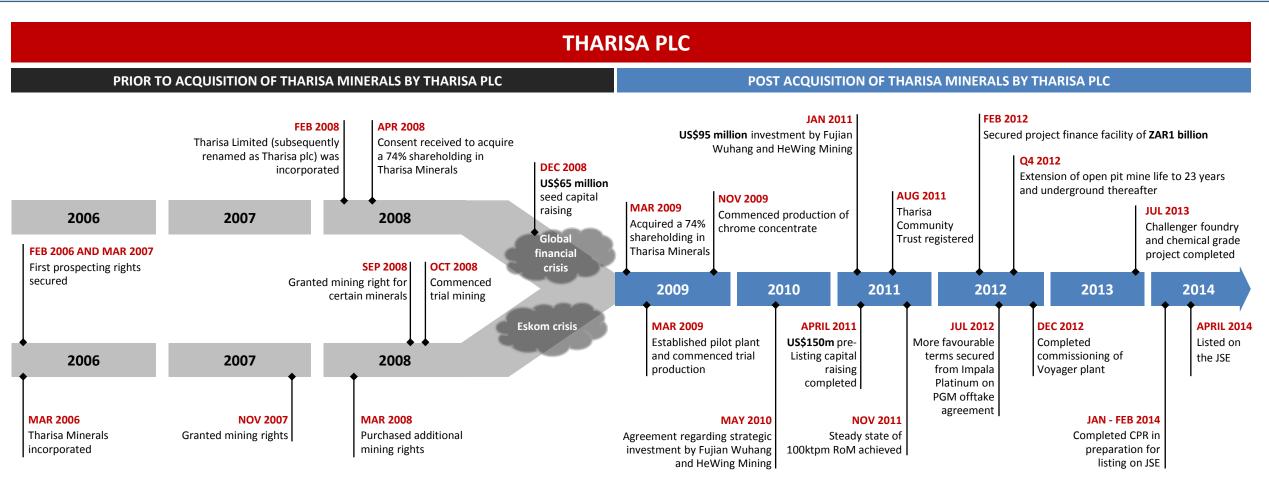
PGM, CHROME AND STEEL RAW MATERIALS

LARGE SCALE, LOW COST PROJECTS THAT ARE IN OR CLOSE TO PRODUCTION



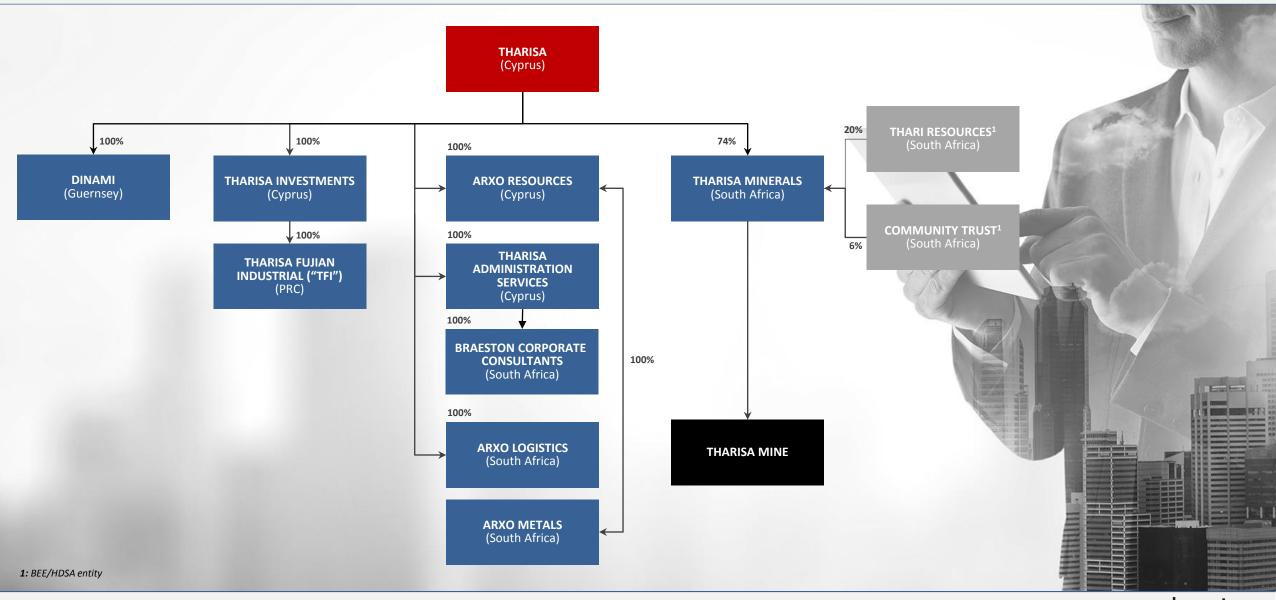
APPENDICES

HISTORY AND MILESTONES



THARISA MINERALS				
PRIOR TO ACQUISITION BY THARISA PLC	POST ACQUISITION BY THARISA PLC			

CORPORATE STRUCTURE



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SHAREHOLDING ANALYSIS

