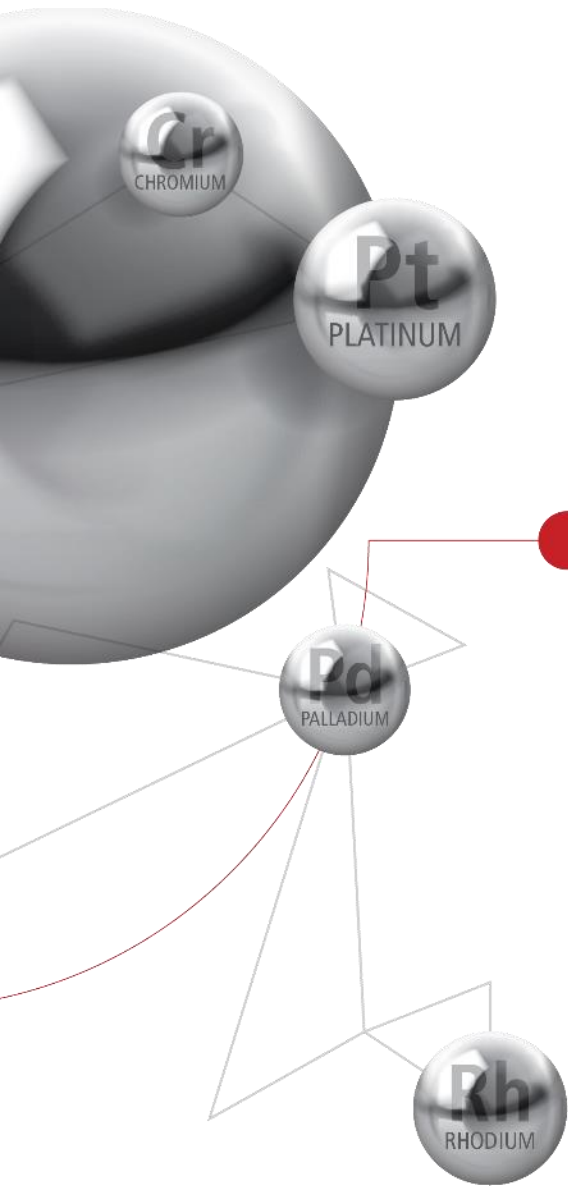




tharisa

● THARISA PLC

November 2022

enriching lives through innovating the resources company of the future

OUR VALUES

- 
- SAFETY & HEALTH — The safety and health of our people is a core value
 - ENVIRONMENT — We take responsibility for the effect that our operations may have on the environment
 - CLIMATE CHANGE — We are committed to reducing carbon emissions by 30% by 2030 and have a plan in motion to be net carbon neutral by 2050
 - UPLIFTMENT — We are committed to the upliftment of our local communities
 - INTEGRIOUS — We conduct ourselves with integrity and honesty
 - RETURNS — We strive to achieve superior returns for our shareholders
 - INNOVATION — We originate new opportunities and will continue to challenge convention through innovation

WHO WE ARE

854.4 Mt & 152.1 Mt
IN MINERAL RESOURCE *

40.3 Moz & 10.0 Moz
IN CONTAINED 6E*

171.1 Mt
IN CONTAINED CR₂O₃ *

1

INTEGRATED

PGM and chrome
co-producer located in
prime geological areas

2

20 YEAR

LOM open pit
+40 YEAR
underground

3

GROWTH

pipeline to double
PGM output

4

R&D

developing innovative
end use products and
technologies

5

PROFITABLE

throughout
the cycle

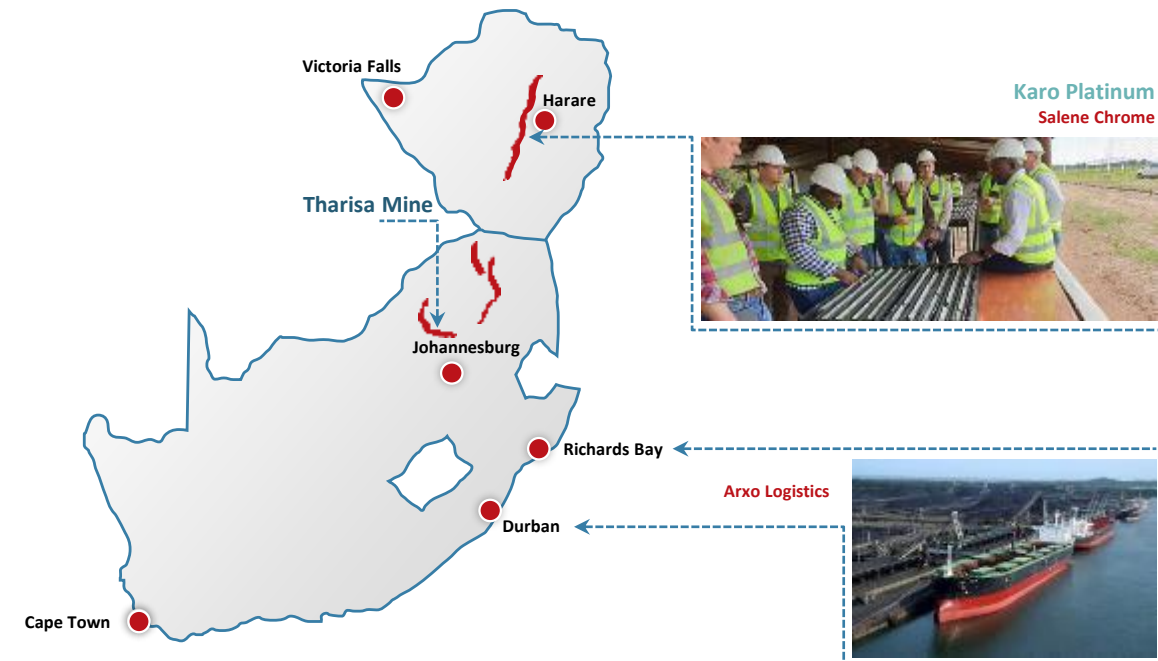
6

CONSISTENT

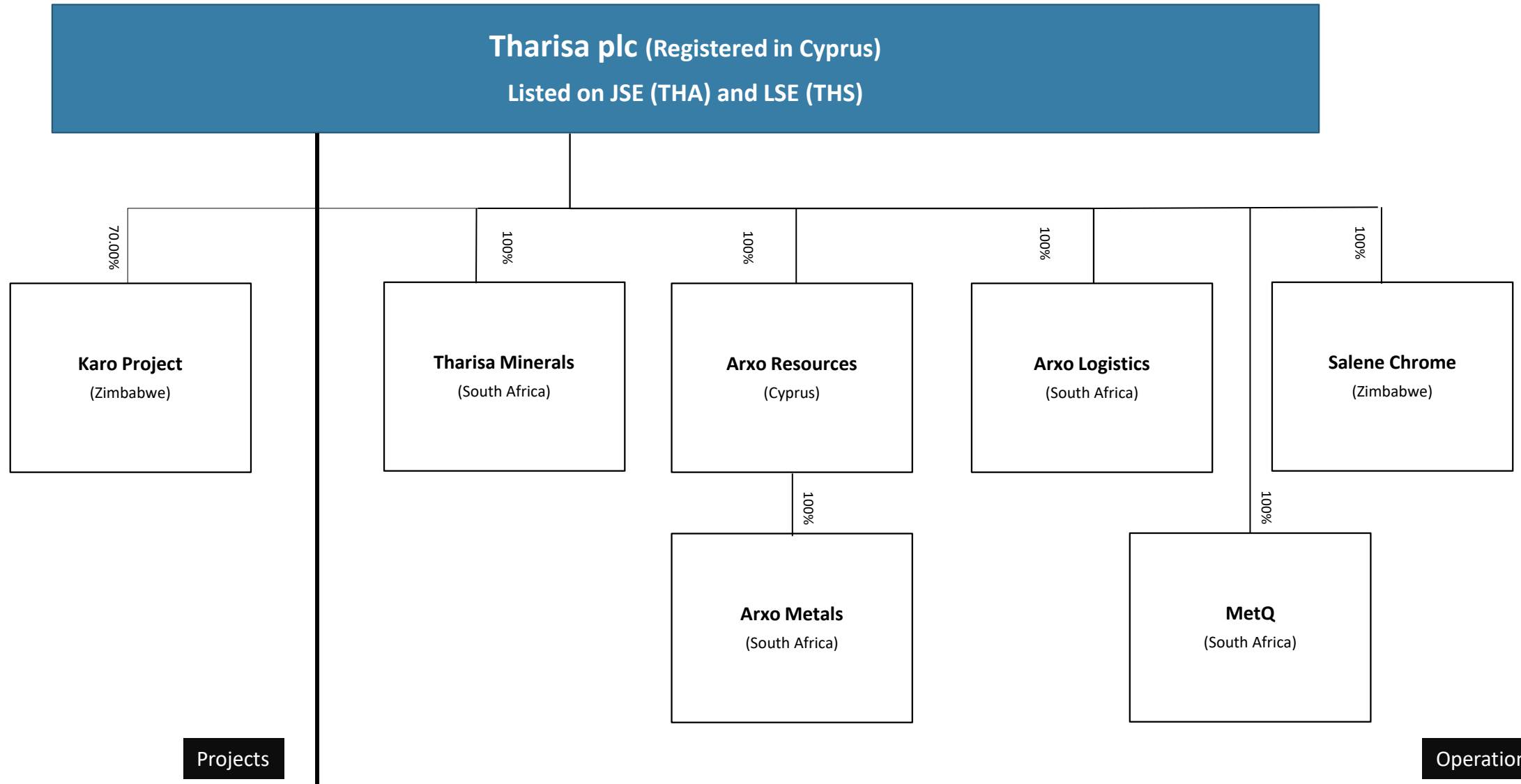
dividend payer



*Mineral Resource and Mineral Reserve Statement in 2021 Annual Report



CORPORATE STRUCTURE

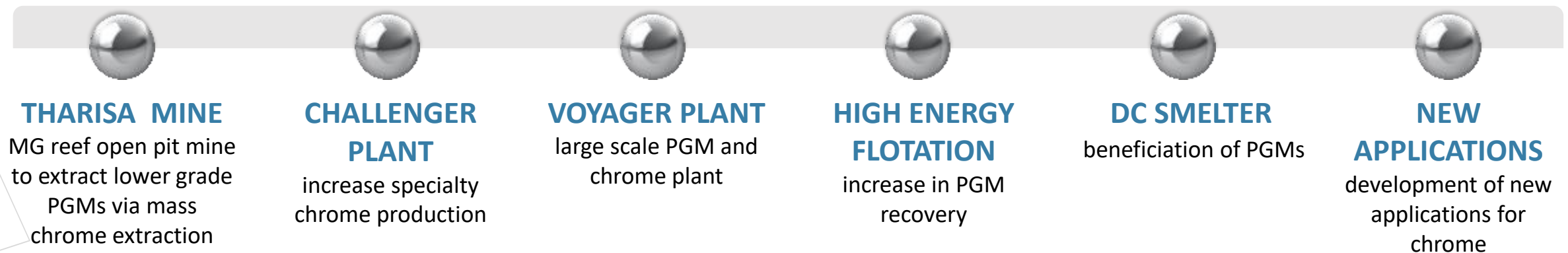


AN ETHOS OF INNOVATION

- Innovation is at the core of Tharisa's ethos
- Key strategic projects under R&D at AMBS
- Technology the key enabler for differentiation



MAJOR MILESTONE HISTORY



FY2022 PRODUCTION RESULTS

PGM SPOT PRICE
US\$2 248/oz*

CHROME SPOT PRICE
US\$230/t*

REEF MINED

5.5 Mt

up 2.3%

stripping ratio of 12.8 m³:m³
(2021: 5.4 Mt)

PGM PRODUCTION (5PGE+Au)

179.2 koz

up 13.6%

recovery of 76.6%
(2021: 157.8 koz)

CHROME CONCENTRATE PRODUCTION

1.58 Mt

up 5.1%

recovery of 68.3%
(2021: 1.51 Mt)

PGM BAKSET PRICE

US\$2 564/oz

down 16.6%

(2021: US\$3 074/oz)

METALLURGICAL CHROME PRICE

US\$209/t

up 35.7%

(2021: US\$154/t)

NET CASH POSITION

US\$78.6 m

up 64.1%

(2021: US\$47.9 m)

THE STRATEGIC CONSOLIDATION OF OUR SHAREHOLDING IN THARISA MINERALS AND THE EXERCISE OF THE OPTION INCREASING OUR SHAREHOLDING IN KARO PLATINUM ARE VALUE ACCRETIVE TO ALL STAKEHOLDERS

*as at 31 October 2022

NAVIGATING CHALLENGES



● TRANSPORT

- Transnet challenges have meant shift from rail to road
- 75% road vs 75% rail previously
- Re-allocation of bulk via Richards Bay and Maputo

● POWER

- Maximum requirement of 25MW of power on site
- Stand by capacity to withhold Stage 4 'loadshedding'
- Modular plants to withstand electricity shocks
- 40MW solar plant project underway

● EMPLOYEE RELATIONS

- 4-year inflation linked wage agreement signed 2020
- No majority union on site – collective bargaining

● COMMUNITY RELATIONS

- Comprehensive relocation programme underway under guidance and alignment of DMRE and in collaboration with accredited stakeholders
- SMME and supplier opportunity platform for procurement established

OUR COMPETITIVE ADVANTAGES

LOWEST COST
QUARTILE

OPEN PIT

- Mechanised, shallow open pit
- Highly skilled labour force
- Close to infrastructure
- Low user of Eskom power

LONG LIFE

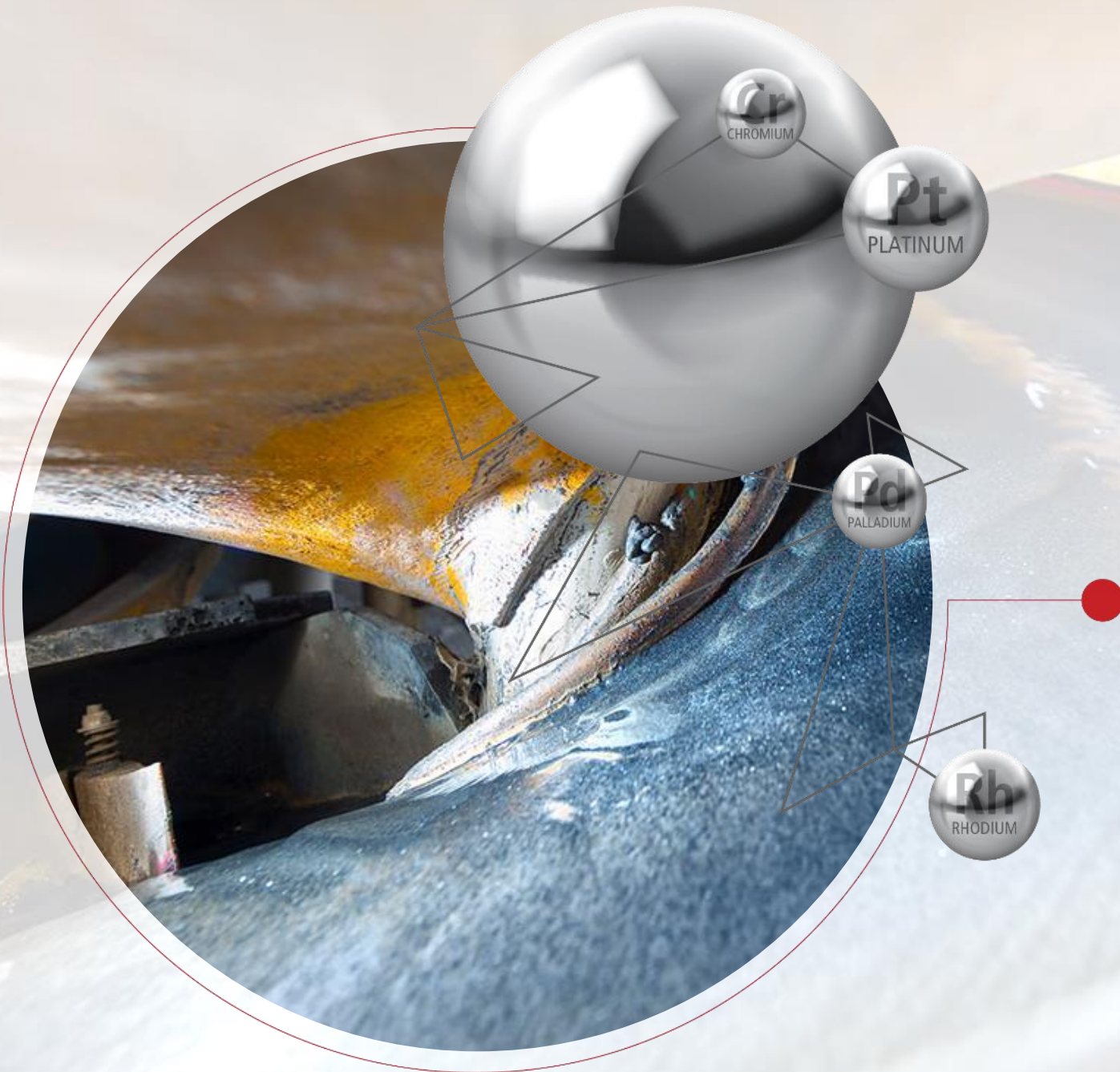
- 20 year LOM open pit
- Extension of ~40 year underground
- Proven ore body

FLEXIBLE PROCESSING

- Two processing plants
- Modular system
- Mass extraction of chrome to allow for PGM recovery



tharisa



OUR COMMODITIES

PLATINUM GROUP METALS

SPOT PGM BASKET*
US\$2 248/oz

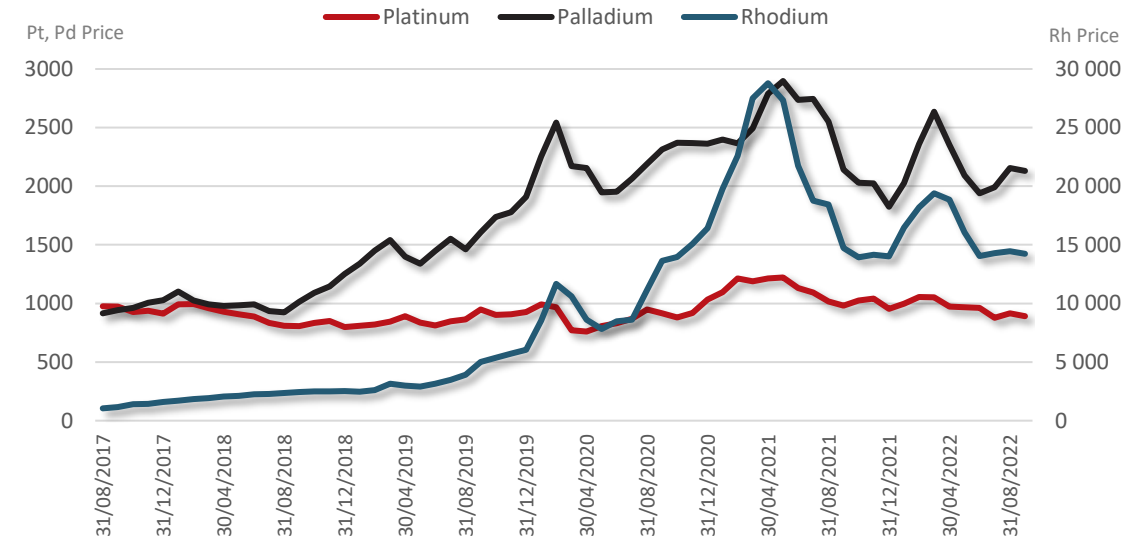
- Primary supply growth constraints
- Deficits in Rh, Pd to remain, Pt heading towards a deficit
- ICE remains a major demand driver despite EV development
- Hydrogen economy to supplement ICE demand



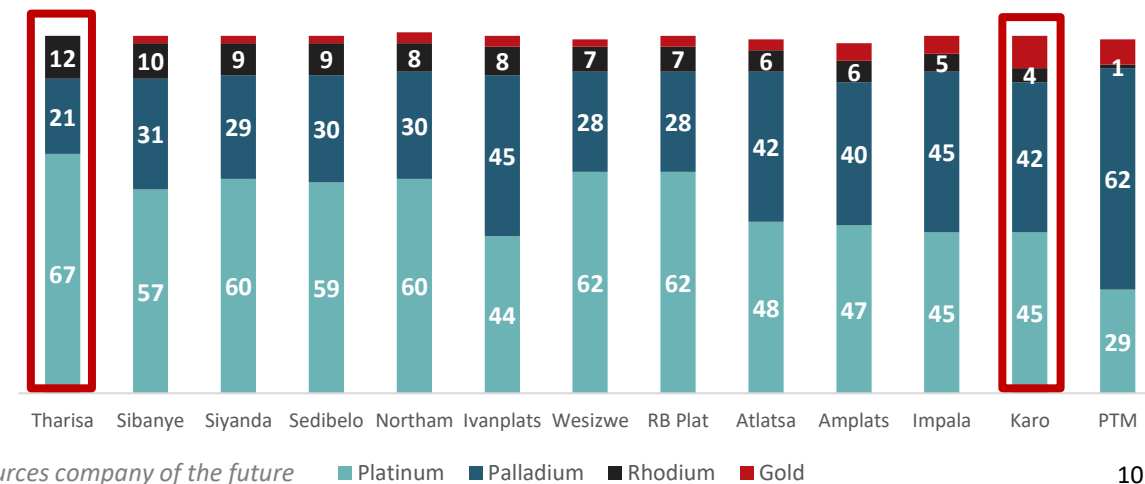
*as at 31 October 2022

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PGM PRICE CHART



RESOURCES PRILL SPLIT (%)



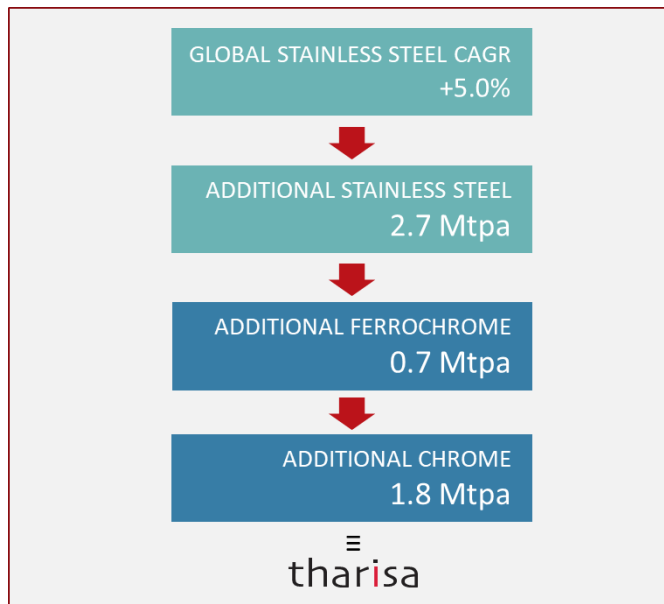
Enriching lives through innovating the resources company of the future

CHROME

SPOT CHROME PRICE*
US\$230/t

H1 FY2022 MET CHROME
US\$175/t

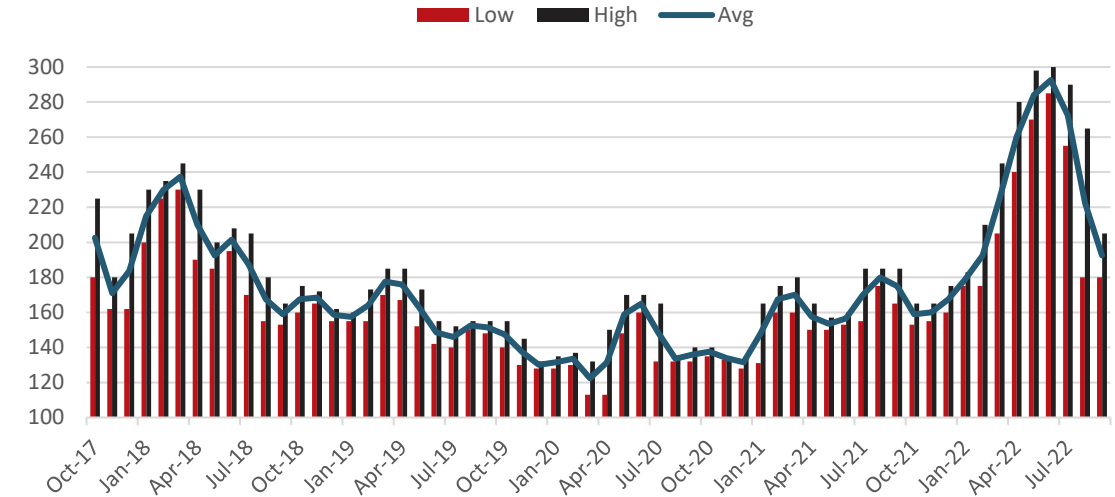
- Chrome prices remain resilient due to growing stainless steel demand
- South Africa supplies 80% of China's chrome needs
- China has no chrome resources
- Tharisa supplies ~10% of China's chrome demand
- Specialty chrome 25% of output – premium pricing



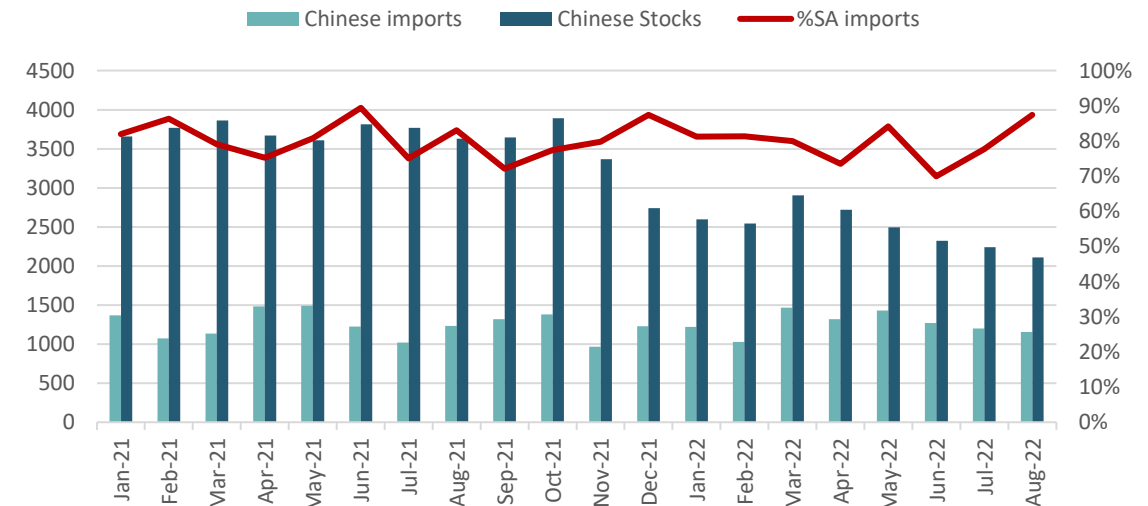
*as at 1 November 2022

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METALLURGICAL CHROME PRICE (US\$/t)



CHINESE PORT STOCKS (kt)

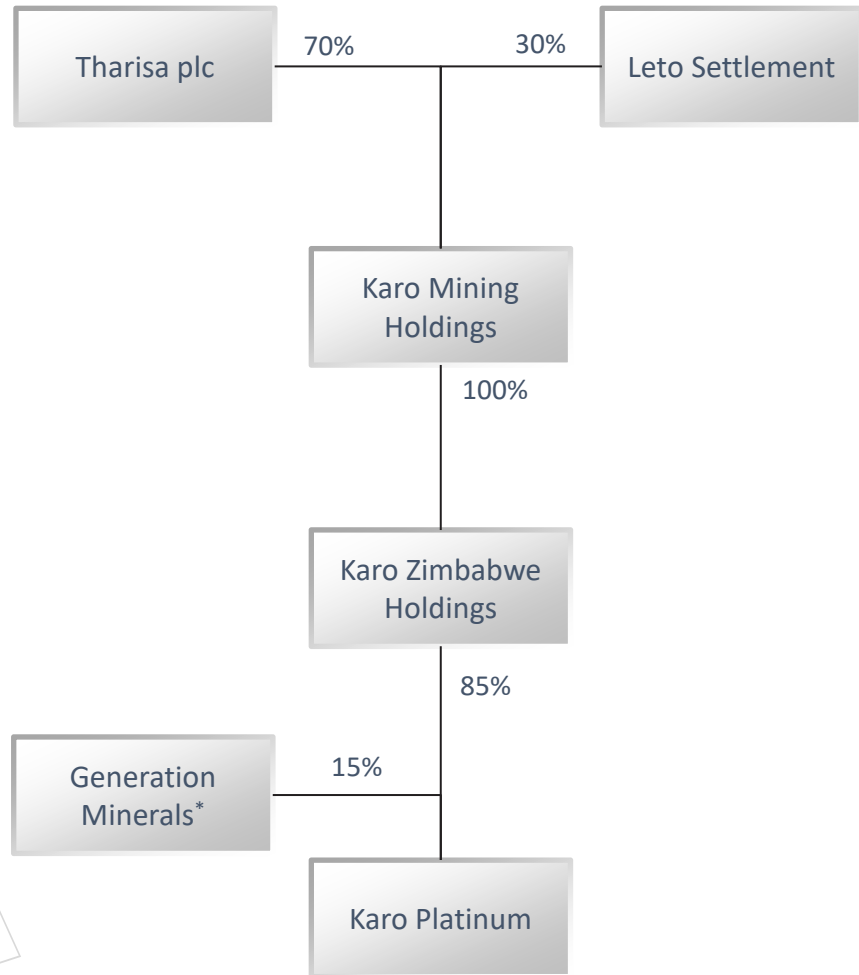


KARO INVESTMENT CASE

“ Capital will need to be more patient, or willing to explore new regions. ”

PHOEVOS POUROULIS
CEO • THARISA

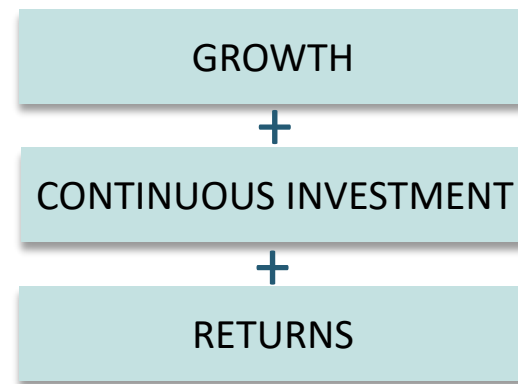
CONTINUOUS INVESTMENT



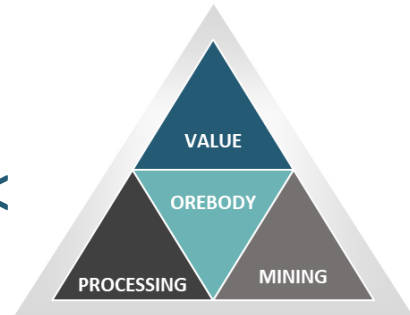
- Investment to date of US\$70.3 m:
 - US\$4.5 m cash - acquisition of 26.8% shareholding
 - US\$8.0 m Phase 1 exploration capital
 - US\$3.4 m Technical studies
 - US\$25.0 m early development funding (not fully drawn)
 - US\$29.4 m in shares - acquisition of 39.5% shareholding
- Strategic investment criteria met:
 - Open pit, quick to market, returns and diversification

**CAPITAL
DISCIPLINE**

=



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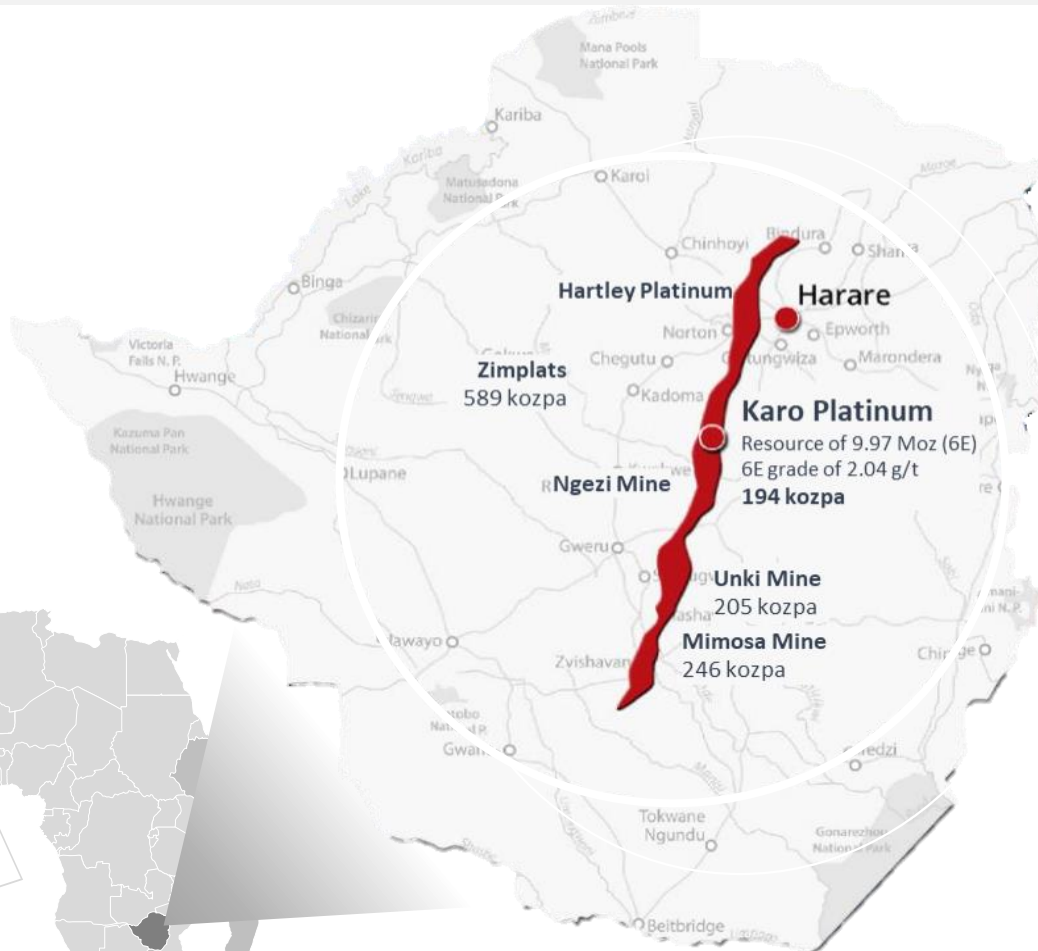


**Generation Minerals is the Republic of Zimbabwe SPV and is free carried interest*

LOCALITY & GEOLOGY

PHASED DEVELOPMENT

NEXT PHASES WILL SCALE TO ACCESS THE VAST RESOURCE AREA



● PROPERTY LOCATION

- Located in the Mashonaland West district of Zimbabwe, approximately 80 km southwest of Harare and 35 km southeast of Chegutu
- The project area covers 23 903 ha located on the Great Dyke

● POSITION ON THE GREAT DYKE

- The project is located south of the Zimplats Selous Metallurgical Plant and north of the Zimplats Ngezi operations

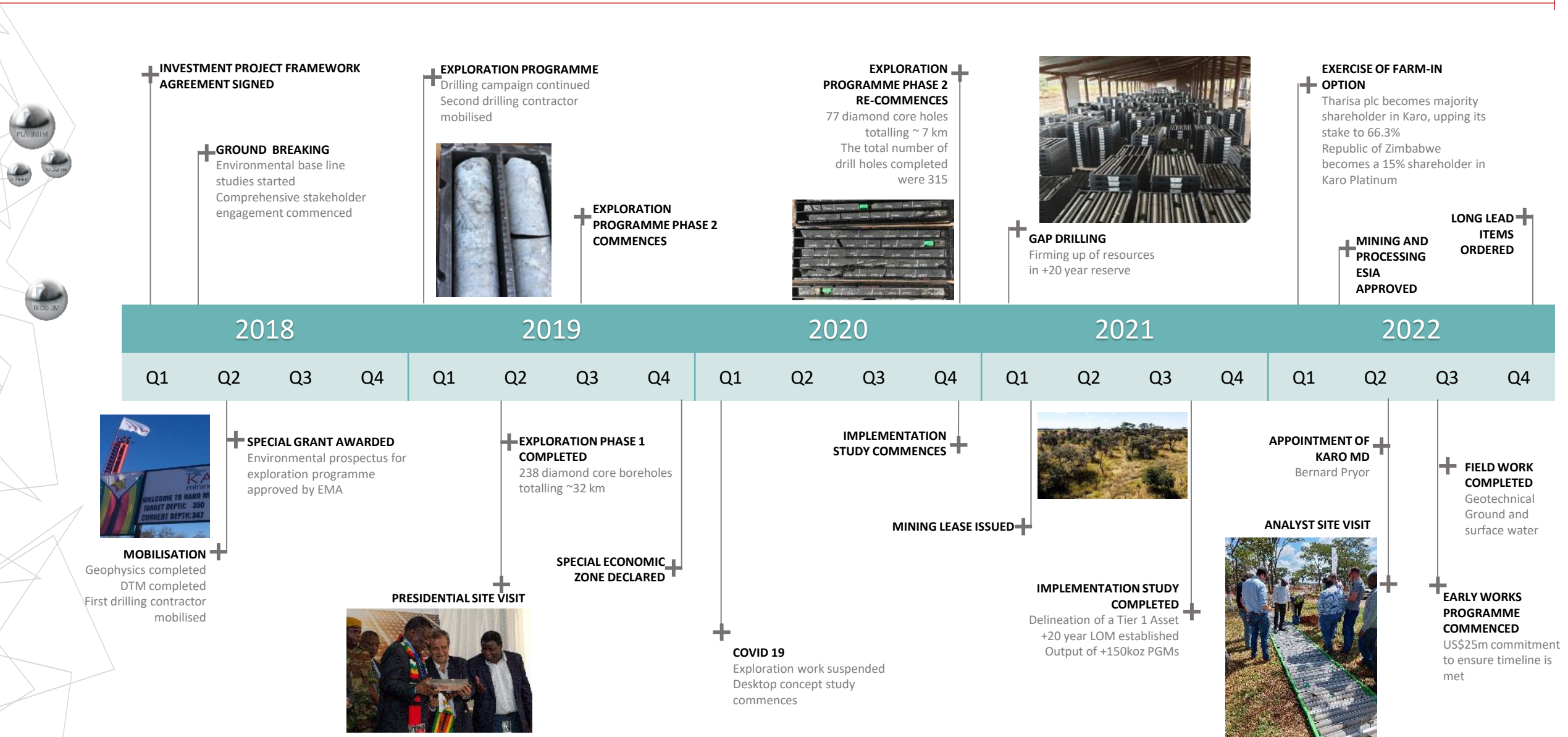
● GREAT DYKE GEOLOGY

- Hosts the Main Sulphide Zone (MSZ)
- Typically, between 2 and 3m thick – Karo targeting up to 5m cut
- Runs from a northerly to a southerly direction
- Approximately 550 km in length and up to 11 km wide

● HISTORIC ZIMPLATS RESOURCE DECLARATION

- June 2017 – 85% of North of Portal 10
- Indicated: 60 Mt at 3.44 g/t (4E) – 6.6 Moz
- Inferred: 868 Mt at 3.22 g/t (4E) – 89.8 Moz
- Total of **96.4 Moz (4E)**
- *Zimplats Annual Report 2017*

HISTORIC TIMELINE



ENHANCED PHASE ONE - KEY HIGHLIGHTS

WORLD CLASS PGM ASSET

Tier 1

LOM OPEN PIT

+17 years

(Previous: +20 years)

ANNUAL PGM PRODUCTION (6E)

194 koz

+ 0.10% Cu

+ 0.12% Ni

(Previous: 150 koz)

MINING LEASE FOR LOM

Licenced

OPEN PIT, SCALABLE, LOW COST, PHASED

Low risk

DEVELOPMENT TIMELINE

24 months



KARO PROJECT UPDATE

“ Developing a tier one project in this unique geological setting comes once in a lifetime ”

BERNARD PRYOR
MD • KARO MINING HOLDINGS



ESG: IMPACT INVESTING

VALUE CONTRIBUTION
~2% GDP

● SAFETY AND ENVIRONMENTAL

- Four years LTI free
- IFC compliant ESIA approved (mining & processing)
- Structurally safer waste rock contained TSF independently designed

● KARO IN THE COMMUNITY

- Prioritising local recruitment and skill development
- Dedicated Social & Environment team
- RAP implementation in progress (12 households in Phase 1)

● GREEN ENERGY EFFICIENCY

- Abundant renewable energy potential
- Total Eren wheeling agreement to support development of 300 MW solar plant to supply national grid

● BOOSTING THE REGIONAL ECONOMY

- Mining contributes 10% - 14% of Zimbabwean GDP
- Karo set to be significant shared value contributor of GDP
- c. 1 000 direct jobs to be created during construction, and further 7 000 indirect jobs



● ESTABLISHED

- Exploration completed, engineering design on schedule
- Pilot PGM concentrator fully operational

● TIMING

- 24-month design and construction schedule - started 1 July 2022
- Mine groundbreaking planned December 2022
- First ore in mill - July 2024

● PROCUREMENT

- Long lead items ordered (ball mills, flotation cells)
- Mining contractor selected
- Key tenders for earthworks, civils to be awarded October 2022

● PEOPLE

- Key positions filled (Projects Director, Senior Finance Manager, HR Manager)
- Active recruitment in Zimbabwe for key construction and operations roles

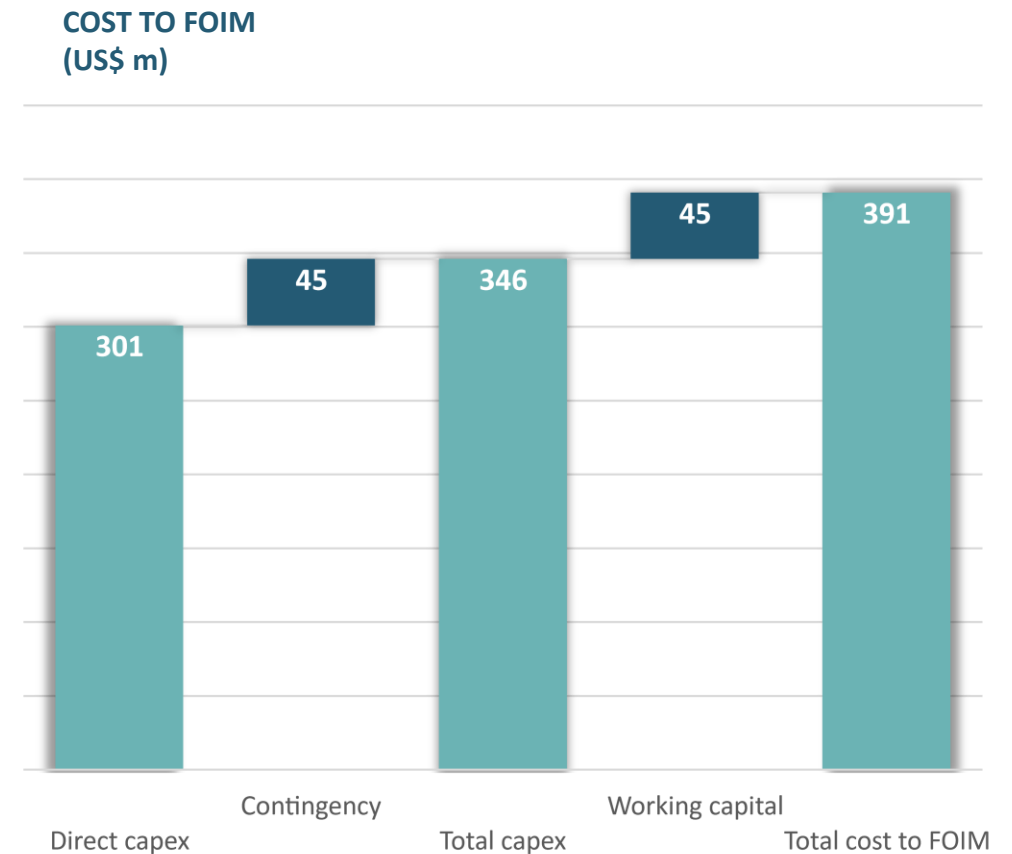
● PHASED DEVELOPMENT

- Beneficiation and Phase 2 evaluation to commence next year



PROJECT CAPITAL COST

- First Ore In Mill (FOIM) is scheduled for July 2024
- Increased PGM production output of 22.7% to 194 kozpa
- The revised capital cost reflects actual price estimates as at H1 2022, which includes higher steel and transportation costs
- A 15% project contingency is included as calculated using a Monte Carlo simulation set at P₉₀
- Working capital includes operational readiness of US\$17 m and mining pre FOIM of US\$28 m
- Total cost to FOIM is estimated at US\$391 m
- Tharisa to provide additional escalation reserve of US\$26 m



** Capex excludes financing costs as this will depend on debt: equity split*

PROJECT ECONOMICS

THE 22.7% INCREASED PGM OUTPUT IS FURTHER VALUE ACCRETIVE FOR THE THARISA GROUP

Throughput	205 ktpm
Production	194 kozpa
LOM (Reserves M&I)	17 years
ROM grade	3.0 6E g/t (average)*
Strip ratio	21.6 m ³ :m ³ average over LOM
Recovery	78% increasing to 82%
Tax holiday	5 years from operations
PGM basket price	US\$2 140/oz (6E)**
Base metal blended price	US\$15 099/t**
Cash cost	US\$1 096/PGM oz [#]
Total cost to FOIM	US\$391 m



PROJECT VALUE INCLUDING IN SITU INFERRED RESOURCE

US\$686 m

NET PRESENT VALUE 10% EXCLUDING IN SITU INFERRED RESOURCE

US\$413 m

IRR

26.1%

ROIC

30.1%

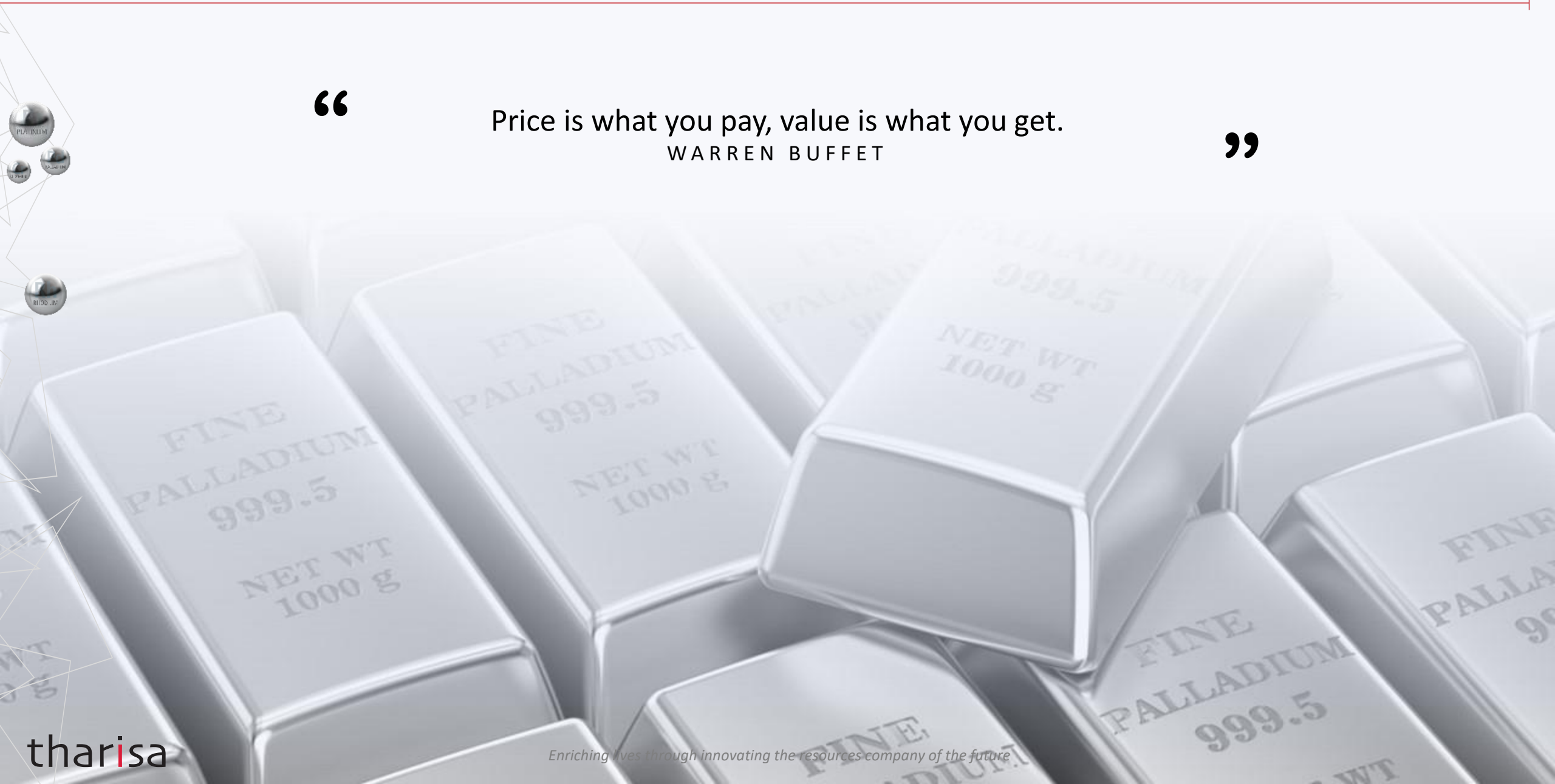
KARO PLATINUM FUNDING

“

Price is what you pay, value is what you get.

WARREN BUFFET

”



KARO PLATINUM FUNDING

- Multiple funding streams with different timing requirements
- Partial leverage of existing assets – ~US\$130 m
- Syndicated Loan with senior project finance facility with a political and commercial insurance wrap (ECIC) – ~US\$260 m
- VFEX bond listing – targeting US\$50 m
 - Tharisa commitment of US\$10 m



THE OFFERING

ISSUER – KARO MINING HOLDINGS PLC

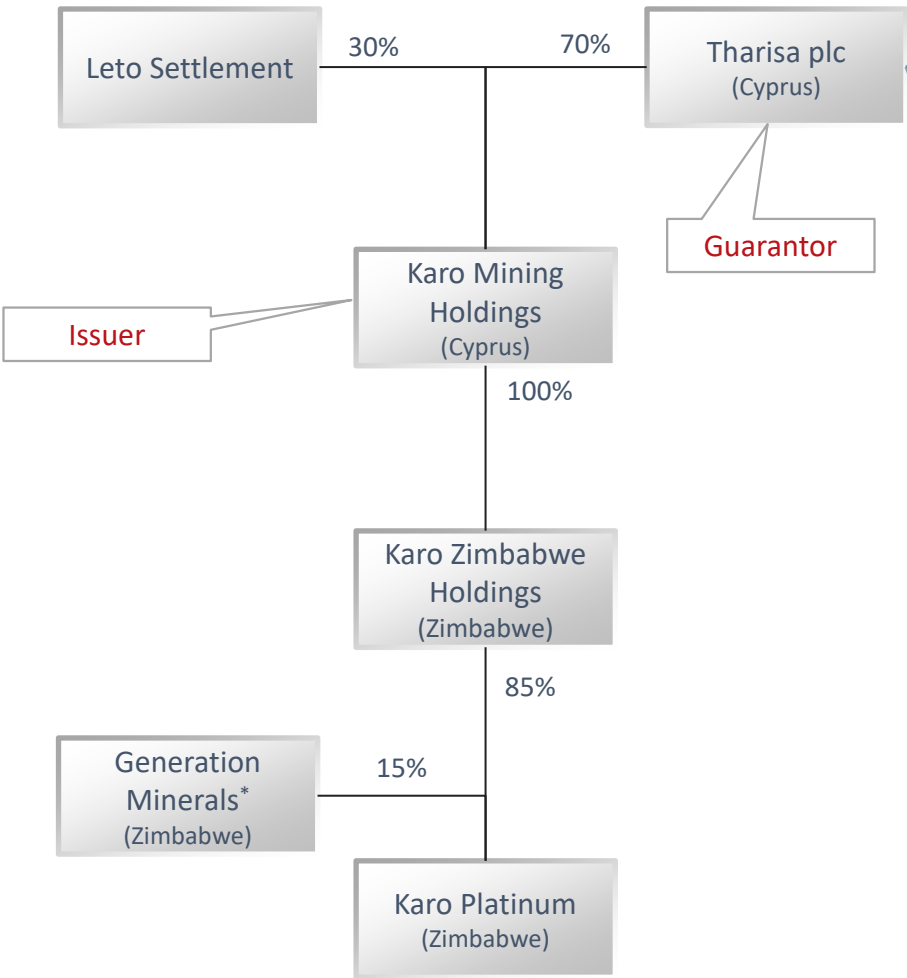
- US\$50 m bond by private placement
 - Three year tenor
 - 9.5% fixed coupon, interest paid semi annually
 - US\$ bond in minimum denominations of US\$2 500
 - Capital and interest guaranteed by Tharisa plc
- Tharisa also committed US\$10 m to the bond issue
- Timing
 - Subscription closes: 30 November 2022
 - Issuance of debt securities: 5 December 2022
 - Debt securities listed on the VFEX: 14 December 2022



GUARANTOR – THARISA PLC

- Listed on the JSE and LSE
- Established PGM and chrome miner with an 11 year operating track record
- Owns 70% of Karo Mining Holdings
- FY2022 production
 - 179.2 koz of PGMs at US\$2 564/oz revenue
 - 1.58 Mt of chrome at US\$ 209/t revenue
- US\$78.9 m net cash at end September 2022
- Tharisa guarantee negates development risk for bond investor

CORPORATE STRUCTURE



FY2022 INTERIM RESULTS

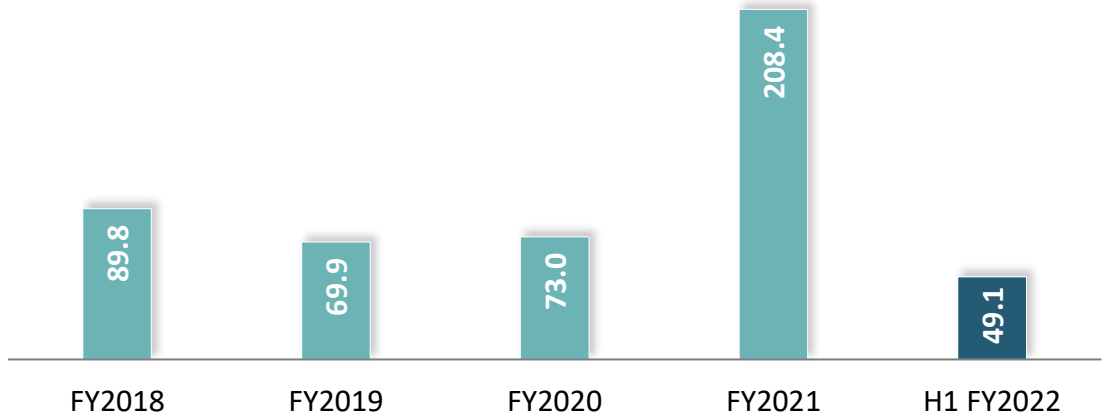
REVENUE: US\$334.0 m
EBITDA: US\$111.3 m
NPAT: US\$101.6 m

Rand weakness relative to prior years offers a buffer to inflationary cost pressures at the Tharisa mine

FY2023 PRODUCTION GUIDANCE

PGMS (5E+AU):
175 koz – 185 koz
CHROME CONCENTRATES:
1.75 Mt – 1.85 Mt

NET CASH FLOW FROM OPERATIONS (US\$ m)



*Generation Minerals is the Republic of Zimbabwe SPV and is free carried interest

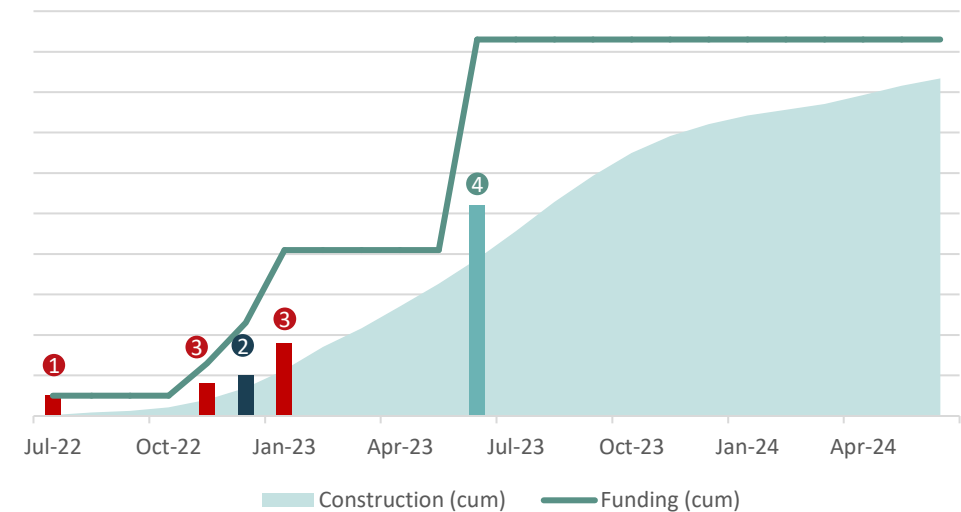
KARO PLATINUM FUNDING

INVESTMENT TO DATE
US\$36.4 m

MULTIPLE FUNDING STREAMS WITH SYNCHRONISED TIMING REQUIREMENTS

- | | | | |
|---|--|---------------|------------|
| 1 | Early development funding
Tharisa equity | Q2/22 | US\$25 m |
| 2 | VFEX bond listing
Tharisa commitment of US\$10 m | Q4/22 | ~US\$50 m |
| 3 | Tharisa equity | Q4/22 - Q1/23 | ~US\$130 m |
| 4 | Syndicated loan with senior project
finance facility with a political and
commercial insurance wrap (ECIC) | Q1/23 – Q2/23 | ~US\$260 m |

PROJECT S CURVE & FUNDING FLOWS



VFEX BOND – INDICATIVE SUMMARY TERMS

ISSUER	Karo Mining Holdings plc (Cyprus)
ISSUE	US\$50 m senior notes; minimum raise US\$25 m Minimum subscription and allotment amount: US\$2 500
TENOR	3 years
USE OF PROCEEDS	Development of the Karo Platinum Mine
COUPON	Fixed interest: 9.5% p.a.
INTEREST PAYMENT	Semi annual
PRINCIPLE PAYMENT	Bullet principle on maturity
SECURITY	Unsecured; capital and interest guarantee by Tharisa Guarantee and Trustee agreements concluded; Independent Trustees appointed
LISTING	Private placement, subsequent listing by introduction on VFEX Tradeable asset with listed secondary market
SPECIAL FEATURES	Application for Prescribed Asset Status in process and pending response from IPEC

● VFEX SPECIAL ECONOMIC ZONE

- Excon permission not required to move funds
- Protection against nationalisation and expropriation of investments
- On acquisition: 0.25% stamp duty + VAT on brokerage
- On sale: VAT on brokerage, no CGT
- No withholding tax on interest for non-resident investors

A UNIQUE INVESTMENT OPPORTUNITY

- Invest in a long life, world class dollar-based mining asset in Zimbabwe
 - Located in the Great Dyke – one of the premier destinations for PGMs
- Solid industry fundamentals
 - Historic under investment in new supply to meet demand for the product both from current users and the hydrogen economy
- Karo operates in Special Economic Zone – investor protection and incentives
- Supports Zimbabwe vision of a US\$12 billion mining industry by 2030
 - Direct and indirect economic benefits for the country
- A permitted 'hard currency' investment in a hyper inflationary environment
- Supports the development of Zimbabwe's institutional debt capital markets
- Enhanced liquidity from a secondary market on a regulated exchange
- Favourable opportunity for sterile nostro funds allocation to productive use
- Attractive interest rate – 9.5% pa
- Dual listed Tharisa - capital and interest guarantee, investors do not assume construction or production risk
- US\$10 m commitment from Tharisa to participate

**THIS PROSPECTUS IS IMPORTANT AND
REQUIRES YOUR IMMEDIATE ATTENTION**



Karo Mining Holdings plc, incorporated in the Republic of Cyprus on 23 February 2018 under company registration number HE380340

Issuer



Tharisa plc, incorporated in the Republic of Cyprus on 20 February 2008 under company registration number HE223412

Guarantor

PROSPECTUS

**Relating to the issuance and subsequent listing on the Victoria
Falls Stock Exchange of a US\$50 million bond**

Arrangers (Zimbabwe) 	Debt Sponsor (Zimbabwe) 	Trustee (Cyprus) 
Registrar, Calculation, Transfer, Payment and Issuer's Settlement Agent (Zimbabwe) 	Registrar, Calculation, Transfer, Payment and Issuer's Settlement Agent (Cyprus) 	Legal Advisors (Cyprus) 
Legal Advisors (Zimbabwe) 		

KARO + THARISA = KEY FUTURE SUPPLY

LOM OPEN PIT FROM EACH OPERATION

+17 years

REEF MINED PER ANNUM

+7.5 Mt

PGMS PRODUCED PER ANNUM

~400 koz

CHROME PRODUCED PER ANNUM

+2 Mt

GROUP VALUE = CONSENSUS THARISA + KARO NPV*

~US\$1.3 billion

*Attributable value

COMPARISON	UNIT	KARO PHASE 1*	THARISA OPEN PIT**
Open pit LOM	years	17	20
Resource ounces	4E Moz	96.4	31.1
Reserve	Mt	35.5	94.2
Reserve ounces	4E Moz	2.5	3.3
PGM production^	kozpa	194	200

*Phase 1 – 17 year open pit LOM
^FY2024 annualised production

**2021 declaration – open pit only



**ADVANCING OUR
STRATEGIC COMMODITY
PORTFOLIO**



DELIVERING ON OUR STRATEGY



**Expand and roll out
the business sustainably**

- Strategic second Tier 1 PGM resource for Tharisa Group
- Initial open pit resource of 152.1 Mt and 9.97 Moz (6E) and reserve of 35.5 Mt and 2.6 Moz (6E)
- Phase 1 operations planned with ability to increase scale further



Adding scale to existing operations

- Project area of 23 903 ha – long life potential, 17 year open pit LOM in Phase 1
- Large scale – targeting average of 194 kozpa of PGMs in concentrate in Phase 1



**Continuing to invest in
innovative thinking**

- Fast track development timeline – pilot concentrator operating
- Open pit – quick to market strategy



**Become a globally
diversified business**

- Geographic diversification
- Higher base metal credits than Tharisa Mine operations



**Be the investment of choice
in our chosen sector**

- Strong project economics
- Project NPV₁₀ of US\$413 m, IRR of 26.1% and ROIC of 30.1%
- Total cost to FOIM of ~US\$391 m



**Responsibly enrich the lives
of all our stakeholders**

- Impact investment – upliftment of local communities and Zimbabwean economy
- Production of PGMs used in autocatalysts and fuel cells (hydrogen economy)

QUESTIONS



DISCLAIMER

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