

Forward Looking Statements, Reserves and Resources



Forward Looking Statements

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ASX Listing Rules Disclosures

This announcement contains current estimates of Northern Star's KCGM Operations' Ore Reserves and Mineral Resources. The information in this announcement that relates to the current Ore Reserves and Mineral Resources of Northern Star has been extracted from the ASX release by Northern Star entitled "Resources, Reserves and Exploration Update" dated 4 May 2023 available at www.nsrltd.com and www.nsrltd.com

Northern Star confirms that it is not aware of any new information or data that materially affects the information included in the Northern Star Announcement other than changes due to normal mining depletion during the three month period to 21 June 2023, and, in relation to the estimates of Northern Star's KCGM Operations' Ore Reserves and Mineral Resources, that all material assumptions and technical parameters underpinning the estimates in the Northern Star Announcement continue to apply and have not materially changed. Northern Star confirms that the form and context in which the Competent Person's findings are presented have not been materially modified from that announcement.

Assumptions made in this announcement are based on (in summary):

- Mill feed comprising of ~78% of the KCGM Operations Mineral Resource, of which ~54% are Ore Reserves and the remainder are made up of Measured, Indicated and Inferred Mineral Resources (see Northern Star Announcement);
- Gold grade of ~1.3g/t;
- Processing throughput rate of ~27Mtpa;
- Modelled recovery rate of ~84%;
- A\$1.5B capital for processing plant expansion and immediate service infrastructure requirements. Additional capital associated with accelerating or expanding activities such as mining and tailings facilities are included in the financial analysis;
- Current mining performance, with modelled variable and fixed processing costs and metallurgical performance;
- Power costs estimated at A\$100/MWh;
- All-in sustaining costs (AISC) excludes Corporate allocation, and
- A\$2,600/oz gold price.

Rounding is applied in this presentation for the percentage comparisons and for the 31 March 2023 Ore Reserves and Mineral Resources figures.

All-in sustaining costs (AISC), Cash Earnings, EBITDA and Net Profit are non-GAAP measures.

Authorised to release to the ASX by Stuart Tonkin, Managing Director & CEO.

Presentation team





Stuart Tonkin

Managing Director & CEO

Mr Tonkin is a mining engineer with more than 25 years' experience working in the underground hard-rock mining industry. He joined Northern Star as Chief Operating Officer in 2013 before being appointed CEO in 2016 and Managing Director in 2021.



Ryan Gurner

Chief Financial Officer

Mr Gurner is a Chartered Accountant with extensive global financial and commercial experience spanning over 20 years. He was re-appointed Chief Financial Officer in December 2021, a position he held prior to the merger with Saracen Mineral Holdings.



Steven McClare

Chief Technical Officer

Mr McClare is a mining engineer with over 30 years of technical, operational and project experience in the mining industry. His extensive career includes building multi-billion dollar caving projects and bringing mines from design through to production. He joined Northern Star as Chief Technical Officer in July 2021.

Investing in our key global gold asset





KCGM
100% ownership

% NORTHERN STAR GROUP

489_{koz} FY22 Gold Sold



28_{Moz}



Mineral Resource

12_{Moz}
Ore Reserve





KCGM Mill Expansion Project highlights



Key operational metrics

13_{Mtpa} >> 27_{Mtpa} Fimiston Processing Plant



NO INTERRUPTION TO OPERATIONAL CASH FLOW DURING BUILD

Financially compelling



MATERIAL INCREASE IN FREE CASH FLOW GENERATION



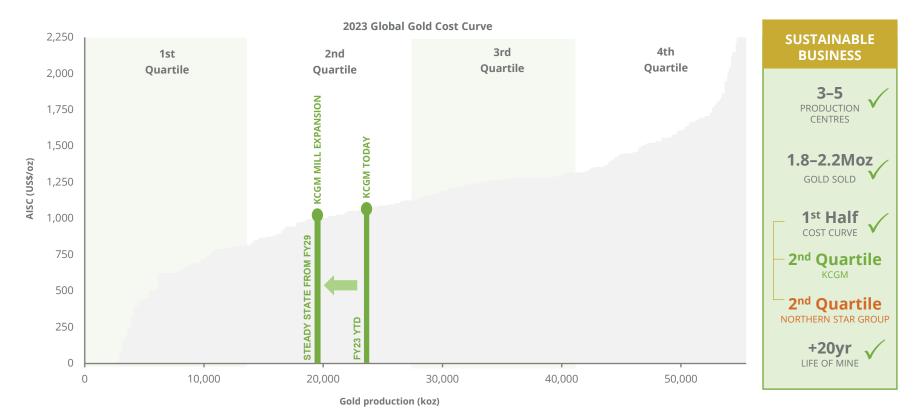






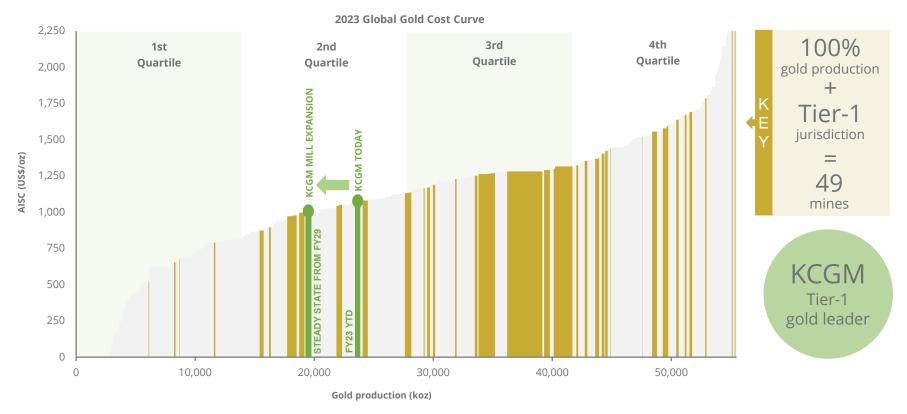
Investing to move down the cost curve...





...and delivering a stand-out tier-1 gold mine





Moving KCGM into rare company







Lowering costs for greater returns



nort Term

KCGM

FY26 Growth Strateg

Production growth
472kozpa to 650kozpa

New fleet delivery

On track

Mine Optimisation

Medium Tern

KCGM

Mill Expansion Project

Lower AISC half global gold cost curve

+250kozpa¹ gold production

Value realised
Faster stockpile conversion

E KCGM
District Opportunity

Long

Exploration
Underground and regional

Optimise feed grade
Highest margin milled

Renewable power
Supported by mine life

Mill Optimisation

Region Optimisation

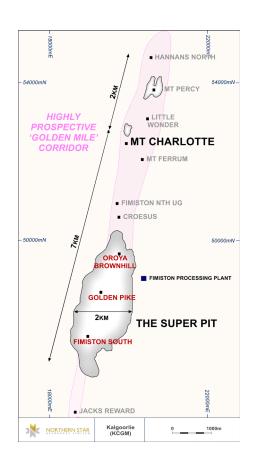
NO CHANGE TO SHORT-TERM STRATEGY ENABLES
GREATER ORGANIC
RETURNS

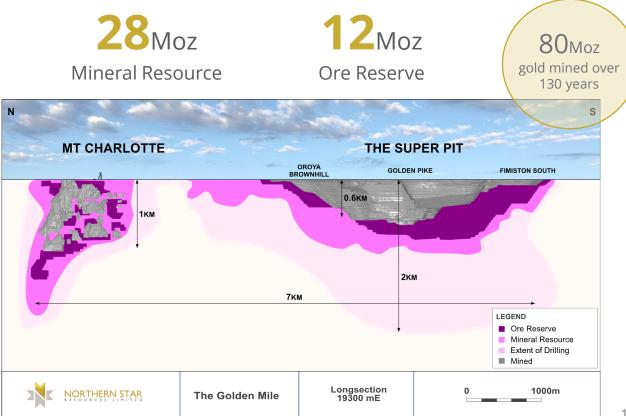
SUPERIOR RETURNS FOR DECADES

11

Optimising long-term feed grade







Aligned with sustainability outcomes

Community



- Extends Northern Star's position as largest employer in Kalgoorlie
- Secures future residential jobs
- Commitment to continue significant local procurement

Water



- 50% reduction in potable water consumption (per tonne ore processed)
- Investment in upgrading bore fields and water infrastructure
- Increased instantaneous water supply rate

Power



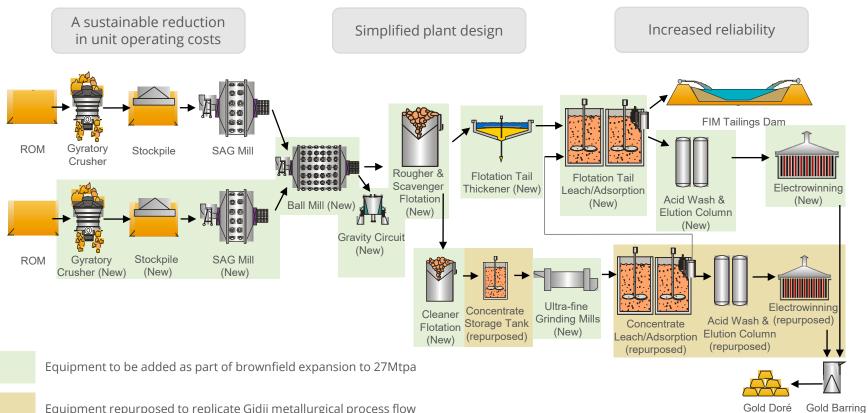
- Upgrade to existing 33kV network
- Aligned with 35% carbon emissions reduction target by 2030
- Provides infrastructure upgrades to introduce renewable energy





A modern, simplified flow sheet







Stockpile cash conversion at improved margin



ORE SOURCE

6-12Mtpa
Open Pit

4-8Mtpa **Underground**

8-10Mtpa **Stockpiled Ore**

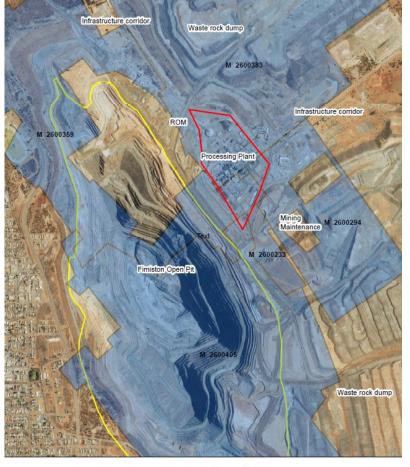
Rehandle cost: <5% of mining cost

PROCESSING PLANT

27_{Mtpa}

Milling cost reduction of A\$7/t

- ✓ Known mineralisation
 - ✓ Low technical risk
- ✓ Utilisation of stockpile inventory



Project approvals in place



The Project area is **within the existing footprint** of the Fimiston Processing Plant. **No new** disturbed areas.

Environmental approval requirements are **well understood** and have been well managed for decades.



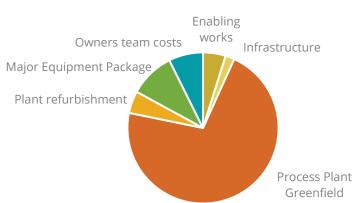
Coordinate system: GDA 1994 MGA Zone 51

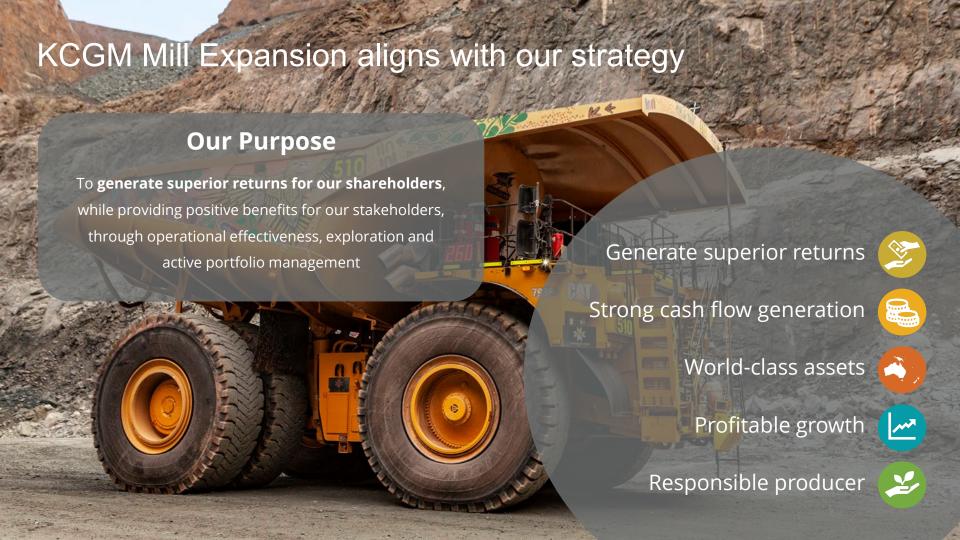
Build schedule and capital cost breakdown



Task	FY24	FY25	FY26	FY27	FY28	FY29	
Engineering and Design							
Onsite Construction							
Commissioning							
Ramp-up							
Throughput	13Mtpa	13Mtpa	13Mtpa	23Mtpa	25Mtpa	27Mtpa	

	Capital Cost Breakdown (%)						
A\$1.5B Inclusive of 10% inflation & contingency	FY24 35%	FY25 30%	FY26 30%	FY27 5%			





Northern Star Resources Limited

NORTHERN STAR

ASX Code: NST

Business First.

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