



An Australian gold miner - for global investors

Diggers and Dealers - August 2019



NORTHERN STAR
RESOURCES LIMITED

Resources & Reserves and Forward Looking Statements



Mineral Resources and Ore Reserves

The Mineral Resources and Ore Reserves information reported in accordance with the 2012 edition of the Joint Ore Reserves Committee's Australasian Code for Reporting of Mineral Resources and Ore Reserves ("JORC Code") in this presentation for all the Company's projects is extracted from the reports entitled "Resource and Reserve Update" dated 1 August 2019, available at www.nsr ltd.com and www.asx.com. For the purposes of ASX Listing Rule 5.23, Northern Star confirms that it is not aware of any new information or data that materially affects the information included in the original market announcement and that all material assumptions and technical parameters underpinning the estimates in the relevant market 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 the original market announcement.

The information in this announcement relating to the Pogo mine's mineral resources for the period before 16 October 2018 is reported in accordance with the requirements applying to foreign estimates in the ASX Listing Rules and, as such, is not reported in accordance with the JORC Code. The information is extracted from the ASX announcement entitled "Northern Star acquires Pogo Gold Mine in Alaska" dated 30 August 2018. The Pogo resources mentioned in this announcement for the period before 16 October 2018 are estimated as at 31 December 2017 and according to the Canadian NI 43-101 standards, but are not fully compliant with those standards. A cautionary statement in respect of such resources appears in the Company's ASX announcement dated 30 August 2018.

The information in this announcement relating to the Pogo mine's reserves for the period before 1 August 2019 is reported in accordance with the requirements applying to foreign estimates in the ASX Listing Rules and, as such, is not reported in accordance with the JORC Code. The information is extracted from the ASX announcement entitled "Northern Star acquires Pogo Gold Mine in Alaska" dated 30 August 2018. The Pogo reserves mentioned in this announcement for the period before 1 August 2019 are estimated as at 31 December 2017 and according to the Canadian NI 43-101 standards, but are not fully compliant with those standards. A cautionary statement in respect of such reserves appears in the Company's ASX announcement dated 30 August 2018.

Forward Looking Statements

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This announcement is not an offer, invitation, solicitation or other recommendation with respect to the subscription for, purchase or sale of any security, and neither this announcement nor anything in it shall form the basis of any contract or commitment whatsoever. This announcement may contain forward looking statements that are subject to risk factors associated with gold exploration, mining and production businesses. It is believed that the expectations reflected in these statements are reasonable but they may be affected by a variety of variables and changes in underlying assumptions which could cause actual results or trends to differ materially, including but not limited to price fluctuations, actual demand, currency fluctuations, drilling and production results, Resource and Reserve estimations, loss of market, industry competition, environmental risks, physical risks, legislative, fiscal and regulatory changes, economic and financial market conditions in various countries and regions, political risks, project delay or advancement, approvals and cost estimates.

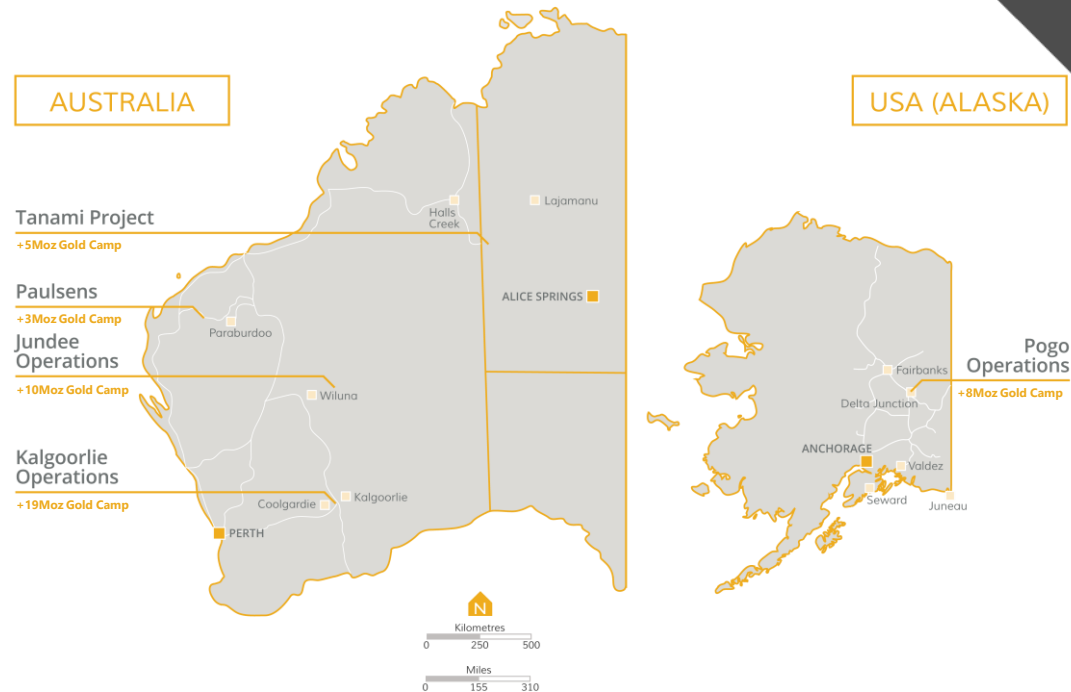
*All currency conversions in this document were converted at a spot conversion rate of USD:AUD of 0.70

† GDX 5Yr Average is sourced from Bloomberg; all erroneous data points have been removed

^ Source Credit Suisse: Global universe of publicly traded gold producers with market capitalisation >\$500M as at 3 July 2019

NST Operations – Tier-1 Assets, Tier-1 Locations

- ASX 100, top 25 global gold producer with mines in Western Australia and Alaska
- Market cap is A\$8.1B with a sector-leading balance sheet; A\$361M cash & equivalents and no debt
- NST manages a simplified business with a strong organic growth outlook; with 3 Tier-1 assets in Tier-1 locations
- FY2020 guidance 800koz-900koz at an AISC of A\$1,200/oz – A\$1,300/oz
- Highly successful at Resource and Reserve growth per share over past 8 years
- Track record of fully-franked dividends since 2012 with a stated dividend policy of paying out 6% of revenue
- Governed by the adage “a business first and a mining company second”

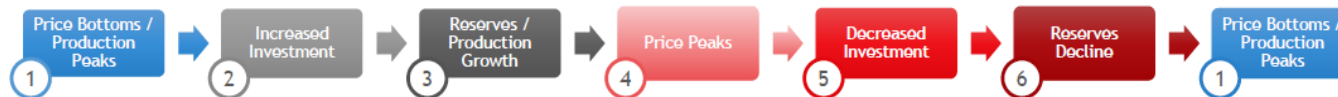
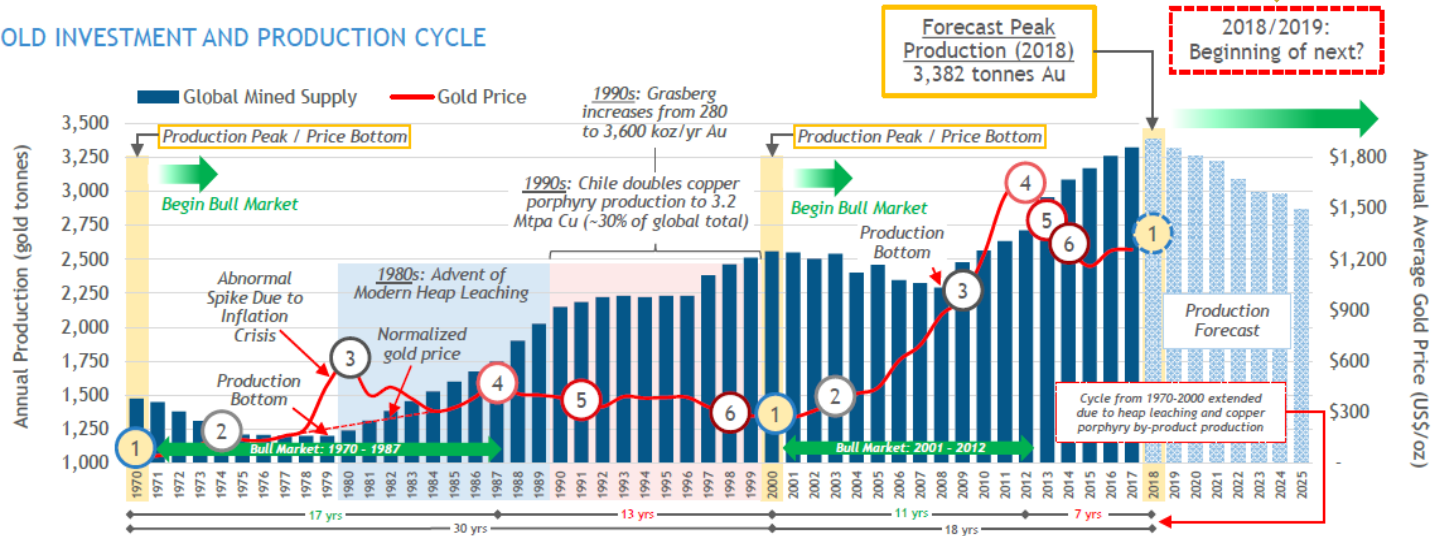


Golden Investment & Production Cycle Since 1970

- Historically, gold production peaks have coincided with the beginning of multi-year bull markets
- Gold production last peaked in 2000/2001 and marked the beginning of what was a long, robust, sustained bull market ending in 2012
- Prior to 2000, gold production had peaked in 1970, again coinciding with a multi-year robust bull market for gold

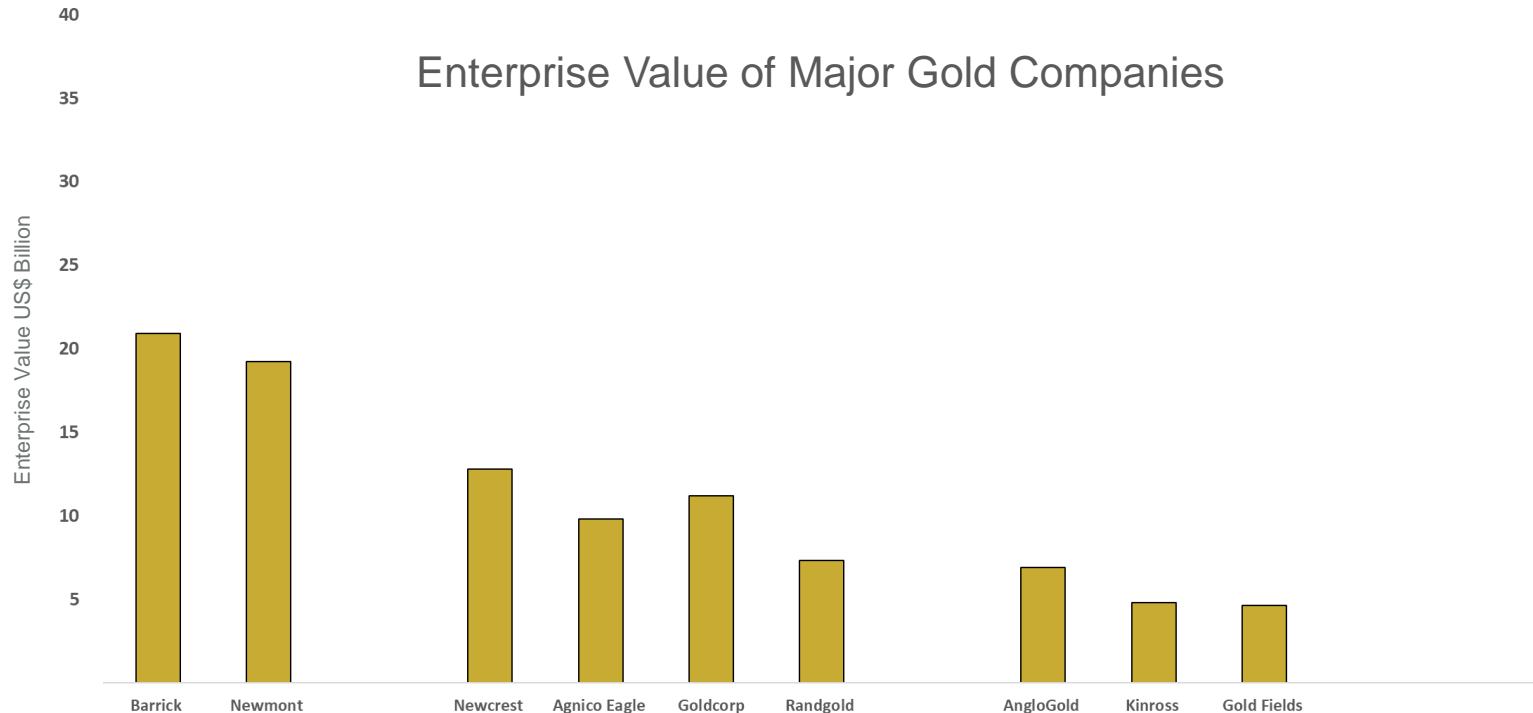
A production peak in 2018 would be a strong indicator that we have reached the end of the current cycle and a new cycle is emerging

GOLD INVESTMENT AND PRODUCTION CYCLE



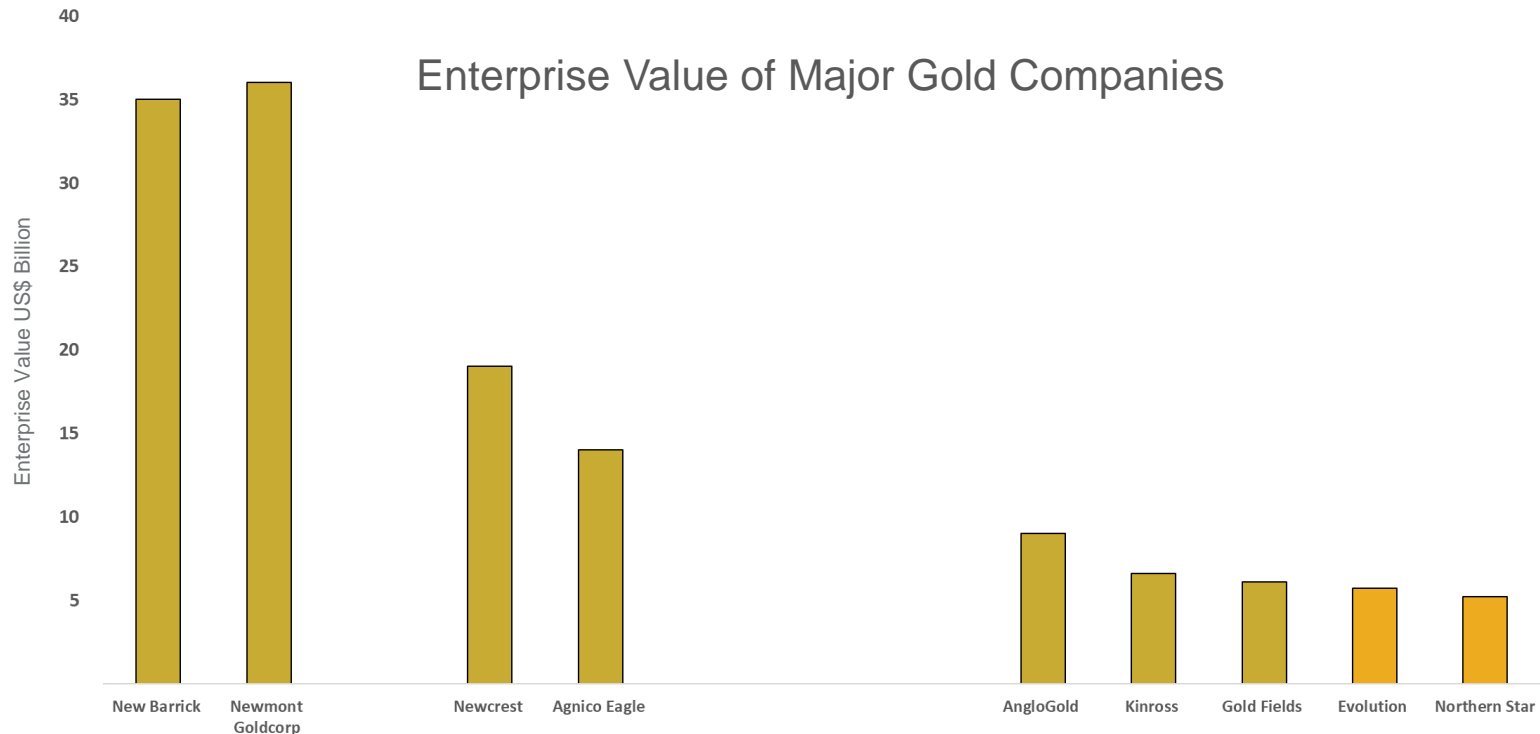
Global Gold Landscape December 2018

- There has been significant change in the gold landscape since the commencement of industry consolidation



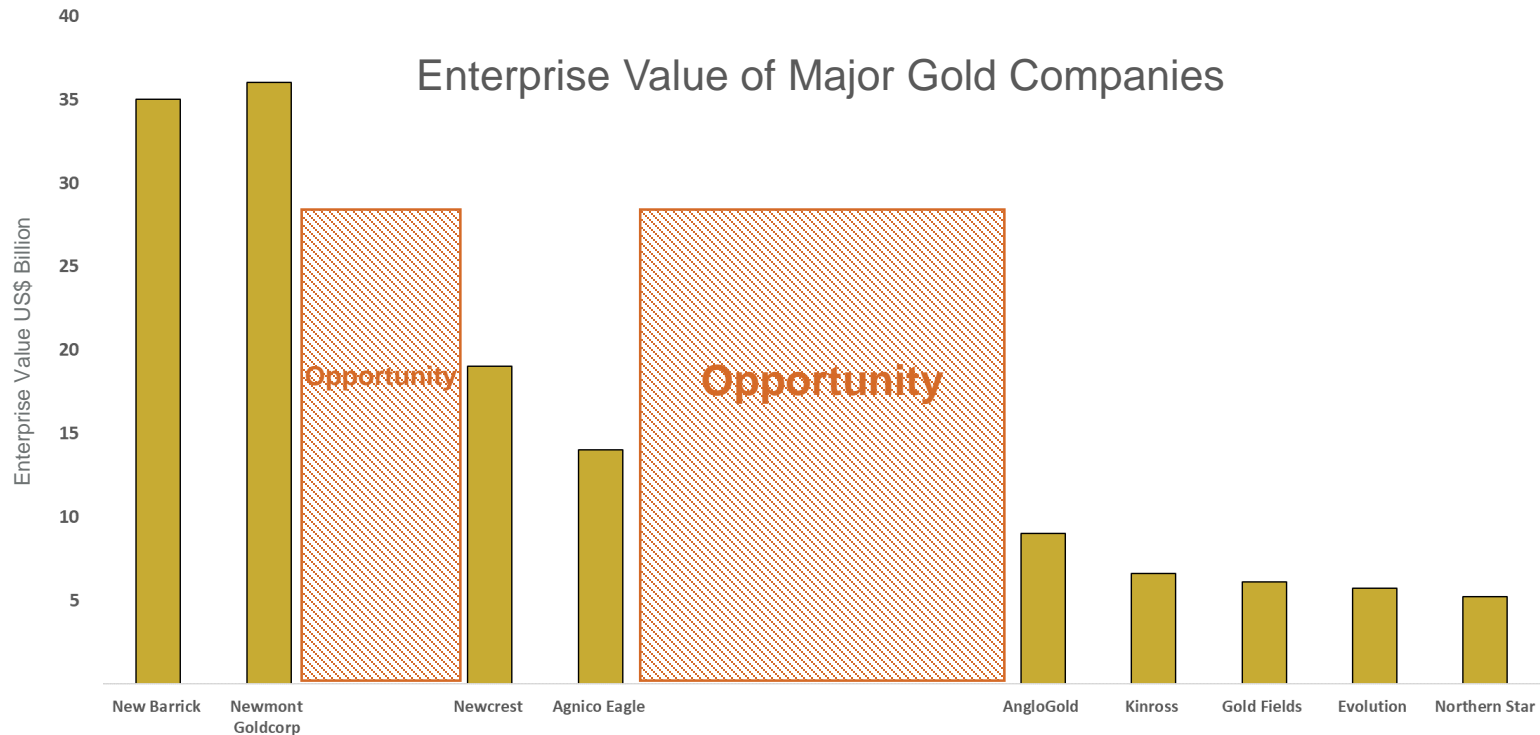
Current Global Gold Landscape

- There has been significant change in the gold landscape since the commencement of industry consolidation



Opportunity in Current Global Gold Landscape

- There is a significant value opportunity left behind following this consolidation



Gold Sector Rankings – What drove NST's outperformance

Northern Star's share price performance of 107% ranks 3 out of 36 in the peer group[^] and is significantly better than the median of (10%)

- The top 10 performing companies have exhibited the following vs. the group median over the past 3 years

- Higher production growth
- Consistent operational results
- Larger reserve and resource delineation

- Operational outperformance has led to significant increases in NAVPS and CFPS

- The top performers tend to be in low sovereign risk jurisdictions, have lower AISC, higher dividend yield and currently trade at a premium

A B C

Summary of Northern Star vs. global peers – last 3 years⁽²⁾

		Top 10 median	Bottom 10 median	Global median	Northern Star ⁽³⁾	Northern Star vs. global peers
Δ Current vs. 3 years ago ⁽¹⁾	Δ in operating metrics					
	Gold production	18%	(1%)	2%	54%	✓
	Hit annual prod. guidance?	3/3	2/3	3/3	3/3	✓
	AISC	(9%)	15%	0%	6%	✗
	Gold P&P reserves	6%	(16%)	1%	144%	✓
	Gold M&I resources	12%	14%	9%	122%	✓
	Δ in financial metrics					
NAVPS	42%	(39%)	6%	96%	✓	
CFPS	25%	(28%)	12%	50%	✓	
Current	Current operating metrics					
	# of producing mines	4	4	4	4	~
	Avg. country credit rating	Aa2	A2	A3	Aaa	✓
	2019 E gold production (koz)	771	407	517	830	✓
	2019E AISC (US\$/oz)	\$705	\$1,014	\$913	\$774	✓
	Dividend yield	0.6%	0.0%	0.5%	1.6%	✓
	Net debt / 2019E EBITDA	0.1x	1.4x	0.4x	(0.3x)	✓
Current trading multiples						
P / NAV	1.3x	0.9x	1.1x	1.6x	✓	
P / 2019E CF	11.6x	5.7x	7.3x	12.7x	✓	

Source: Credit Suisse, Market data as at 3-Jul-19, S&P Global Market Intelligence.

(1) Production and AISC Δ based 2016A-2019E period. Production guidance, gold reserves & resources Δ based on 2015A-2018A period. NAVPS and CFPS Δ based on 3-Jul-16 – 3-Jul-19 period.

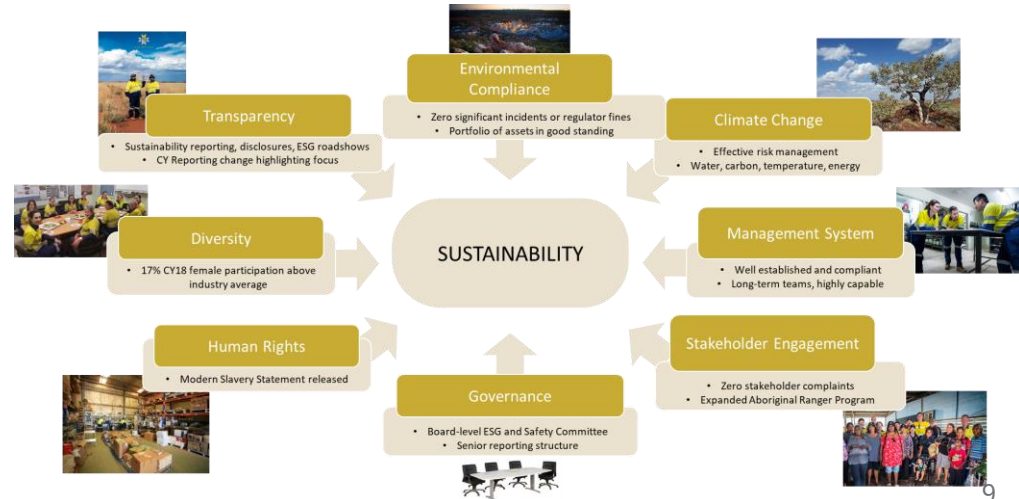
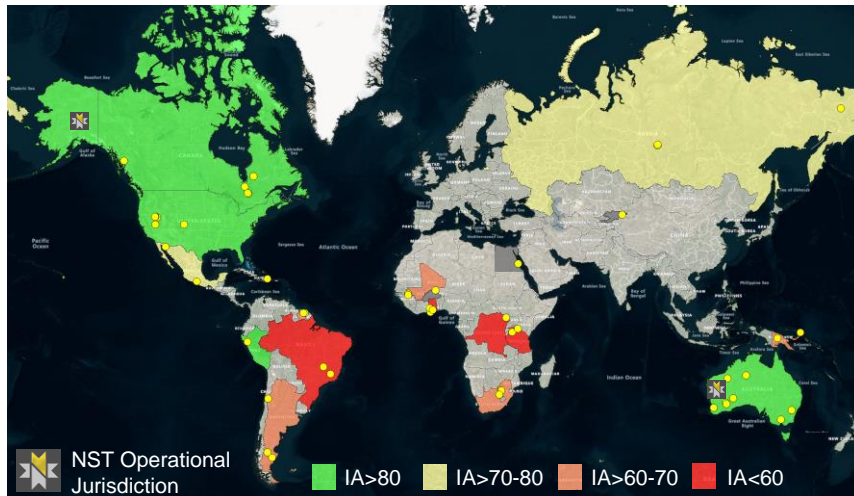
(2) Δ in production and R&R adjusted for companies with acquisitions including Kirkland (Newmarket), Eldorado (Integra), Alamos (Richmont), Centerra (Thompson Creek and AuRico), SSR (Claude). Excludes Δ in production and R&R for companies who have recently closed acquisitions including Northern Star (Pogo), Hecla (Klodex), Barrick (Randgold) and Newmont (Goldcorp).

(3) Northern Star's relative changes shown on AUD basis unless otherwise stated.

Growth in Tier-1 Jurisdictions, ESG Advantage

- Global Investors value mining exposure in Tier-1 jurisdictions, great for Australian Resources
- Over US\$19T of global funds under management now has an ESG filter to the investment process
- NST operates three large scale Tier-1 projects located in Tier-1 jurisdictions which benefit from a low level of capital intensity
- Tier-1 jurisdictions are at an advantage with maturity of Governance, Social and Environmental frameworks

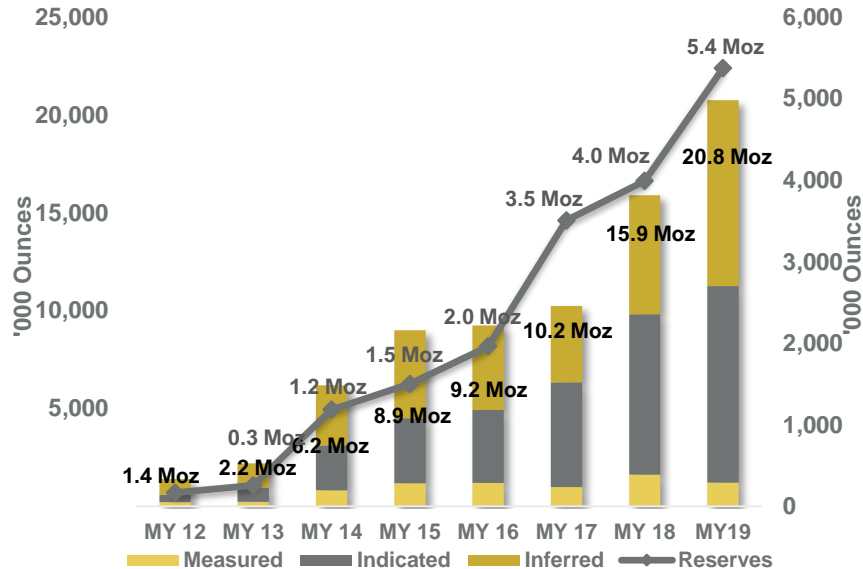
LOCATION OF DEPOSITS WITH +300Koz PRODUCTION IN CY2018
(Country coded with 2018 Fraser Institute Investment Attractiveness 'AI' Rank)



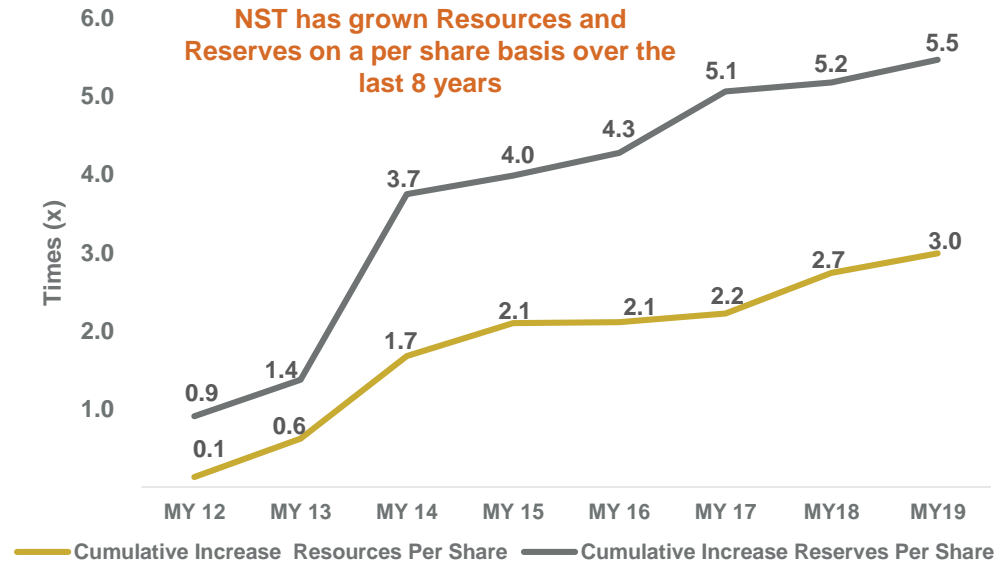
Delivering Reserve and Resource Growth per share

- Through value accretive organic and inorganic growth NST has been able to successfully grow Resource and Reserve life on a per share basis for its Shareholders
- NST announced a 31% increase in Resources to 20.8Moz at 4.1gpt (grade up 46%) and a 35% increase in Reserves to 5.4Moz at 4.4gpt (grade up 16%), including a maiden Reserve at Pogo of 1.5Moz

NST Resource and Reserve Growth

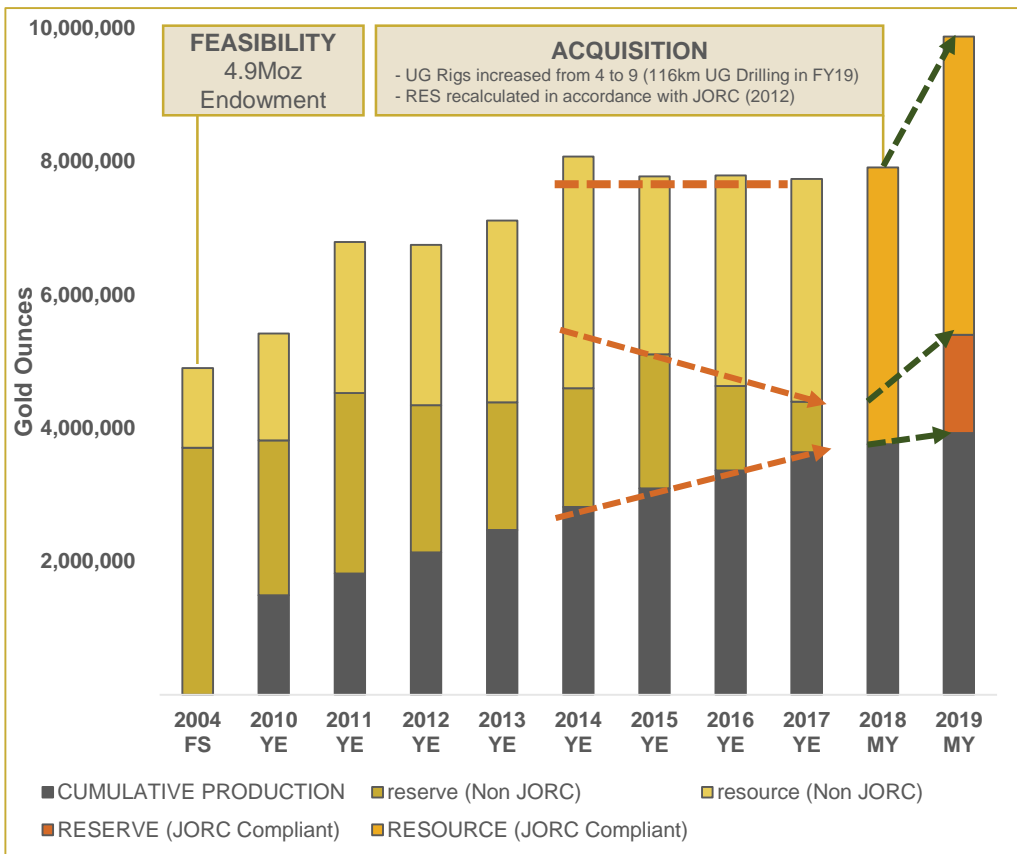


Resource & Reserve Growth per share



Pogo Resource & Reserve Trends

Resource Reserve Update Demonstrates Strong Growth Through Drill Investment



POGO MID YEAR 2019 RESERVE & RESOURCE UPDATE

ORE RESERVES As at 30 June 2019

CATEGORY	Tonnes ('000)	Grade (gpt)	Contained Au ('000oz)
Proved	-	-	3*
Probable	6,103	7.5	1,469
TOTAL	6,103	7.5	1,472

MINERAL RESOURCES As at 30 June 2019 Inclusive of Reserve

CATEGORY	Tonnes ('000t)	Grade (gpt)	Contained Au ('000oz)
Measured	-	-	3*
Indicated	7,200	9.6	2,226
Inferred	12,128	9.5	3,720
TOTAL	19,328	9.6	5,949

Group Production & Cost Performance & FY20 Guidance

- FY2019 record performance of 840,580oz sold at an AISC of A\$1,296/oz
 - Australian Operations achieved top end of production guidance at 639koz sold
- FY2020 Group production 800,000-900,000oz at AISC A\$1,200-A\$1,300/oz
 - Growth capital non-sustaining of A\$116 million – Pogo, Jundee and Moonbeam Growth
 - Exploration record spend of A\$76 million – Pogo, Jundee and South Kalgoorlie
 - Second half of FY2020 is forecasted to be stronger than the first half, driven by Pogo

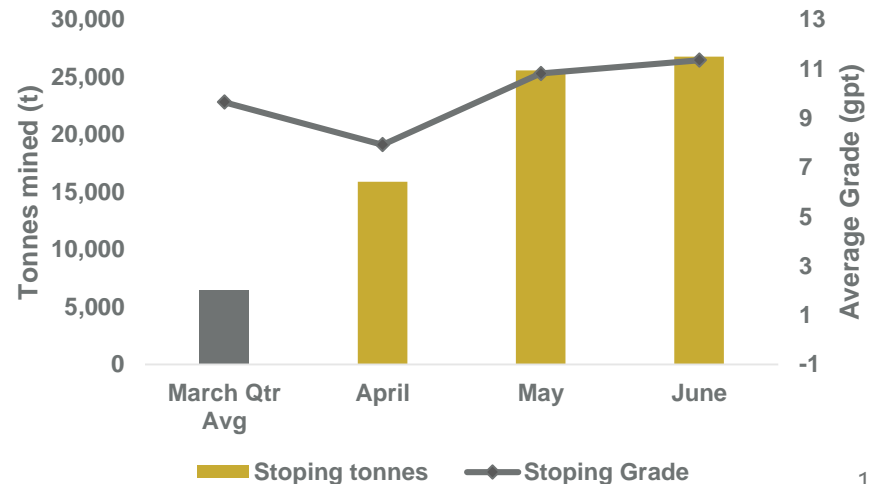
FY2020	Production		AISC	
Guidance Range	Oz	Oz	A\$/oz	A\$/oz
Jundee	260,000	280,000	1,115	1,195
Kalgoorlie Operations	340,000	380,000	1,260	1,370
Pogo	200,000	240,000	1,210	1,320
NST TOTAL	800,000	900,000	1,200	1,300

Pogo Update – June 2019 Quarter performance

- Implementation of NST business model is on track to achieve key objectives, with results reflecting strong operational gains at all levels
- Compared to March 2019 quarter, improvements include;
 - Ounces mined up **27%** to 50,566oz
 - Gold sold up **33%** to 48,009oz
 - Development metres up **13%**
 - Stoping tonnes up **250%**; these now account for **33%** of mill feed (up from 11% in the March Qtr)
 - All-in sustaining cost (AISC) down **18%** to US\$1,207/oz from US\$1,468/oz
- Gold production will rise significantly as additional areas are brought on line and the number of available stoping panels increases
- New Pogo mobile mining fleet has been delivered and is operating
- Significant diamond drilling campaign underway with 8 underground rigs committed



Stoping tonnes mined per month



The NST business model generating superior returns

- NST has delivered sector leading returns at its Kalgoorlie and Jundee mines since taking ownership in 2014
- The proven NST integration and operating business model is currently being implemented at the Pogo operation with the aim to deliver similar returns over the coming years as all other past acquisitions achieved
- This highly successful track record gives confidence and backs the logic on why to continue growing the business

Operation	Increases to Reserves ⁽¹⁾	Production Growth ⁽²⁾	Avg Site EBITDA Margin ⁽²⁾	Internal Rate of Return IRR	Avg Return on Equity ⁽²⁾	Avg Return on Invested Capital ⁽²⁾	Broker NAV at acquisition ⁽³⁾	Current NAV Value Uplift since acquisition ⁽⁴⁾
Kalgoorlie Ops	468% ✓	135% ✓	51% ✓	90% ✓	49% ✓	65% ✓	A\$118M ✓	607% ↑
Jundee	617% ✓	27% ✓	54% ✓	107% ✓	60% ✓	91% ✓	A\$111M ✓	1,227% ↑
Operation	Increases to reserves	Production Growth	Avg Site EBITDA Margin	Internal Rate of Return IRR	Avg Return on Equity	Avg Return on Invested Capital	Broker NAV at acquisition	Current NAV Value Uplift since acquisition
Pogo	Maiden Reserve of 1.5Moz ✓	NST has a considerable opportunity to deliver similar returns Pogo creates a massive opportunity for further organic growth and superior Shareholder returns				✓ ✓	A\$647M ✓	Opportunity for further significant value creation at Pogo

- Calculated by dividing current Reserves by acquired Reserves at time of acquisition
- Calculated from the first full fiscal year of ownership FY2015 to FY2018
- Data abstracted from broker reports from covering brokers at time of acquisition
- Data abstracted from most current broker reports from current covering broker universe

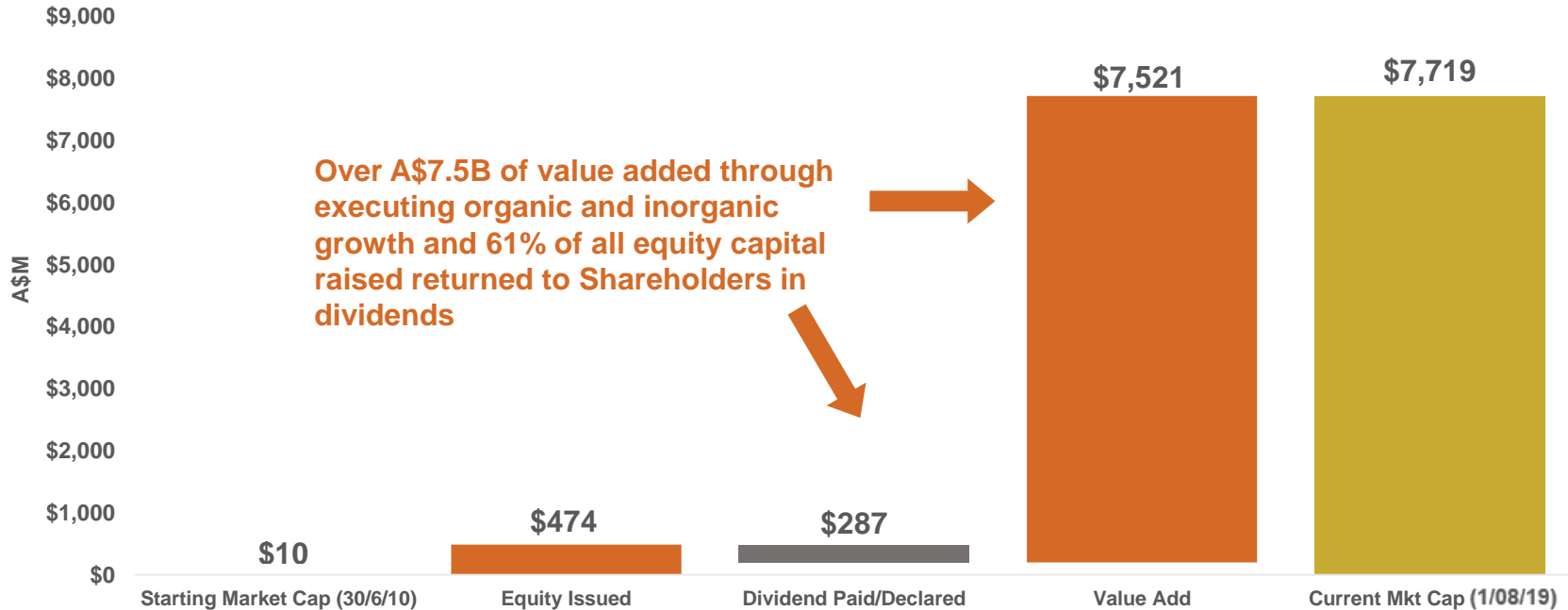
NST is positioned to capitalise on the macro environment



- We have a clear growth roadmap and strategy in place
- Exceptional balance sheet and funding capability to fuel further growth
- Continue growing inventory, production and free cashflow through acquisition and investment in Tier-1 assets in Tier-1 jurisdictions
- The team has in-built capacity to oversee production well in excess of 1Mozpa and comfortably manage five to seven major operations
- Ensure margins remain at ~50% on AISC, retaining NST's position in the lowest-cost quartile globally
- Capitalise on and expand our key competitive advantage of underground expertise
- Maintain our licence to operate by investing in, and earning the respect of, the communities in which we live and work

Value Creation – delivering returns to Shareholders

- NST's strategy of balancing organic growth with well executed M&A has generated over A\$7.5B of value for Shareholders since the first acquisition in 2010 and <6% of this value uplift has been from equity raised
- This strategy has been achieved through operational excellence, investing heavily into exploration, growing production, optimising assets and financially disciplined inorganic growth; NST has returned 61% of all equity capital raised in the form of dividends to its Shareholders



Northern Star Resources Limited

ASX Code: NST

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