



PLATINA  
RESOURCES LIMITED

# NEW FRONTIERS NEW GROWTH

Our new, drill-ready zinc-copper-gold project is a transformational transaction

29 August 2019



## ADVANCING PROJECTS AROUND THE WORLD

- We leverage our core expertise and experience in advancing projects through drilling, feasibility and development
- Project value to be realised through sale, joint venture or development
- New transformational transaction to acquire up to 70% in the Blue Moon zinc project and unlock significant value in the deposit







## NEW FLAGSHIP PROJECT

Our new Blue Moon Project is a , drill-ready, high-grade zinc-copper-gold deposit with significant resource expansion and development potential



NEW FRONTIERS.  
NEW GROWTH.

ASX:PGM  
SLIDE / 3



## JOINT VENTURE TERMS\*

- Platina to acquire a 70% interest in the Blue Moon Project by spending:
  - \$CAD3.25 million to earn 50% over 18 months &
  - \$CAD3.75 million to earn an additional 20% over an additional 18 months
- Platina operator of the Joint Venture
- Platina to acquire a 5% interest in Blue Moon Corporation with a 5% share placement of \$CAD300,000. Option to go to 10% and board position



\* Full details of the Joint Venture are outlined in ASX Release dated 29 August 2019, "Transformational Transaction – Joint Venture on a High-Grade Zinc-Copper-Gold Project"

## INVESTMENT PROPOSITION

01

### Significant valuation upside

Brownfield project with large sunk cost and potential share price re-rating as it moves along value curve

02

### Large, well defined resource

High grade zinc-copper-gold resource with significant expansion potential.

03

### Attractive grades

Recent drilling intersected some of the highest grades ever encountered at the project

04

### Drill ready

Planned 10,000m program ready to proceed which will generate significant news flow over the next 6 months

05

### Right commodities, right time

Metals for a modern future

06

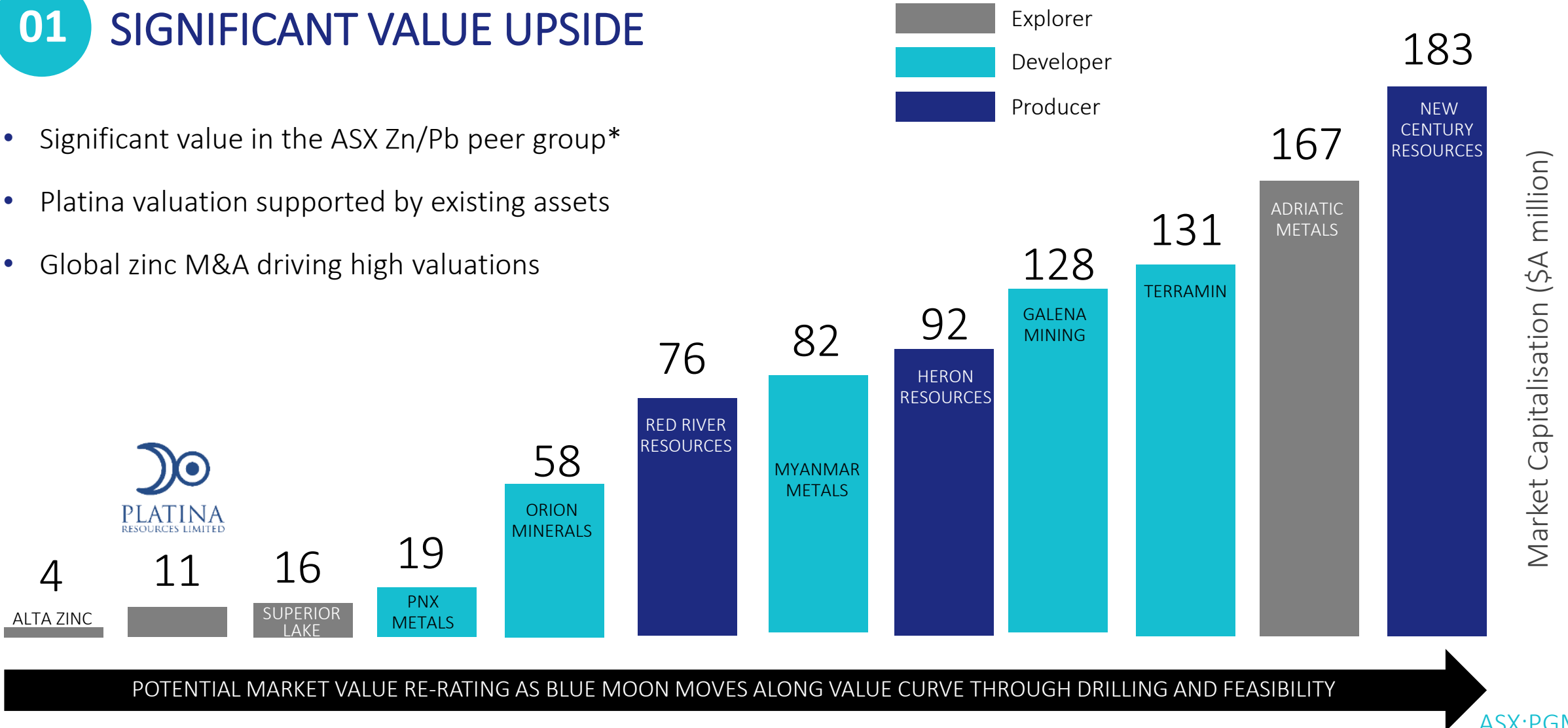
### Favourable location

Excellent access to export ports and hydro-electric power. Strong tenure position in stable jurisdiction



# 01 SIGNIFICANT VALUE UPSIDE

- Significant value in the ASX Zn/Pb peer group\*
- Platina valuation supported by existing assets
- Global zinc M&A driving high valuations

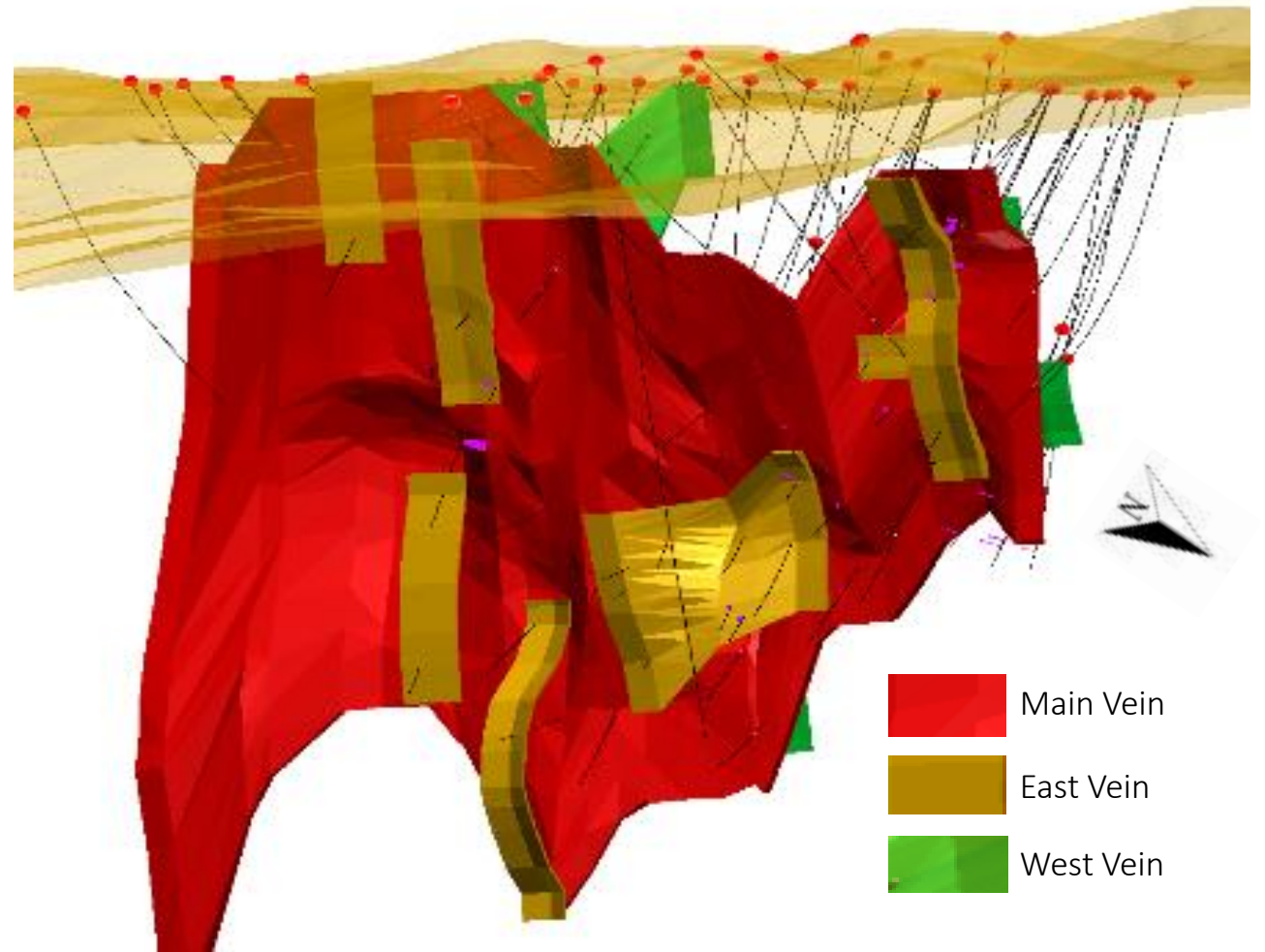


\* See overview of the peer companies in Appendices . Market capitalisation based on closing prices and share capital as at 26 August 2019. There is no assurance that Platina will achieve any of the valuation increases shown by the peer group zinc companies as it advances Blue Moon through drilling and feasibility towards development

02

## LARGE, WELL-DEFINED RESOURCE

- Deposit well understood – 43,000m of drilling in ~113 holes
- High-grade, polymetallic, zinc-copper-gold-silver-lead, Volcanic Massive Sulphide deposit hosted in rhyolite
- Four lenses of mineralisation have been identified to date
- Significant potential to expand existing mineral resource





02

## LARGE, WELL-DEFINED MINERAL RESOURCE\*

### Foreign Inferred Mineral Resource @ 4% ZnEq Cut-off

Tons (Mtons)	Zinc (%)	Copper (%)	Lead (%)	Gold (Oz/t)	Silver (Oz/t)	ZnEq# (%)
7.79	4.95	0.46	0.29	0.04	1.33	8.07

### Foreign Inferred Mineral Resource Contained Metal

Zinc (M lbs)	Copper (M lbs)	Lead (M lbs)	Gold (M Oz's)	Silver (M Oz's)
771.2	71.7	45.2	0.3	10.4

#### Cautionary Note –

National Instrument 43-101 is a national instrument for the Standards of Disclosure for Mineral Projects within Canada. The Mineral Resources stated are foreign estimates and are not reported in accordance with JORC Code. A competent person has not done sufficient work to classify the foreign estimates as Mineral Resources in accordance with the JORC Code. It is uncertain that following evaluation and/or further exploration work that the foreign estimates will be able to be reported as Mineral Resources in accordance with the JORC Code. In order to verify the foreign estimate as a mineral resource in accordance with Appendix 5A of the Australian Securities Exchange Listing Rules, the Company intends to undertake a detailed audit of all the available data to verify the previous work and convert the foreign estimate to a JORC Mineral Resource compliant estimate. The Company notes that the Canadian NI43-101 Standards of Disclosure system is broadly comparable to the JORC Code of reporting, and whilst the reporting methodologies are different, the actual mineral resources themselves are unlikely to be significantly different. ASX Release dated 29 August 2019, “Transformational Transaction – Joint Venture on a High-Grade Zinc-Copper-Gold Project” outlines compliance with Australian Securities Exchange Listing Rules Chapter 5.12. A grade-tonnage curve is outlined in the Appendix.

# The Zinc Equivalent is calculated using the equation =  $(Zn\% * 24.70 + Cu \% * 55.80 + Pb\% * 19.00 + Ag(oz/t) * 11.05 + Au(oz/t) * 875.00) / 24.70$  based on a zinc recovery of 95%, copper 93%, lead 95%, 65% silver and 70% gold. Price assumptions – Zn US\$1.30/lb, Cu US\$3.00/lb, Pb \$1.00/lb, silver US\$17/oz and gold US\$1250/oz. Assumed metallurgical recoveries are based on metallurgical test work completed by Blue Moon at Lakefield Research Centre in 1988. It is the Company's opinion that all the elements included in the metal equivalent calculation have reasonable potential to be recovered and sold.

\*Please note that the Mineral Resource is defined in US short tons (2,000lb) and not metric tonnes.



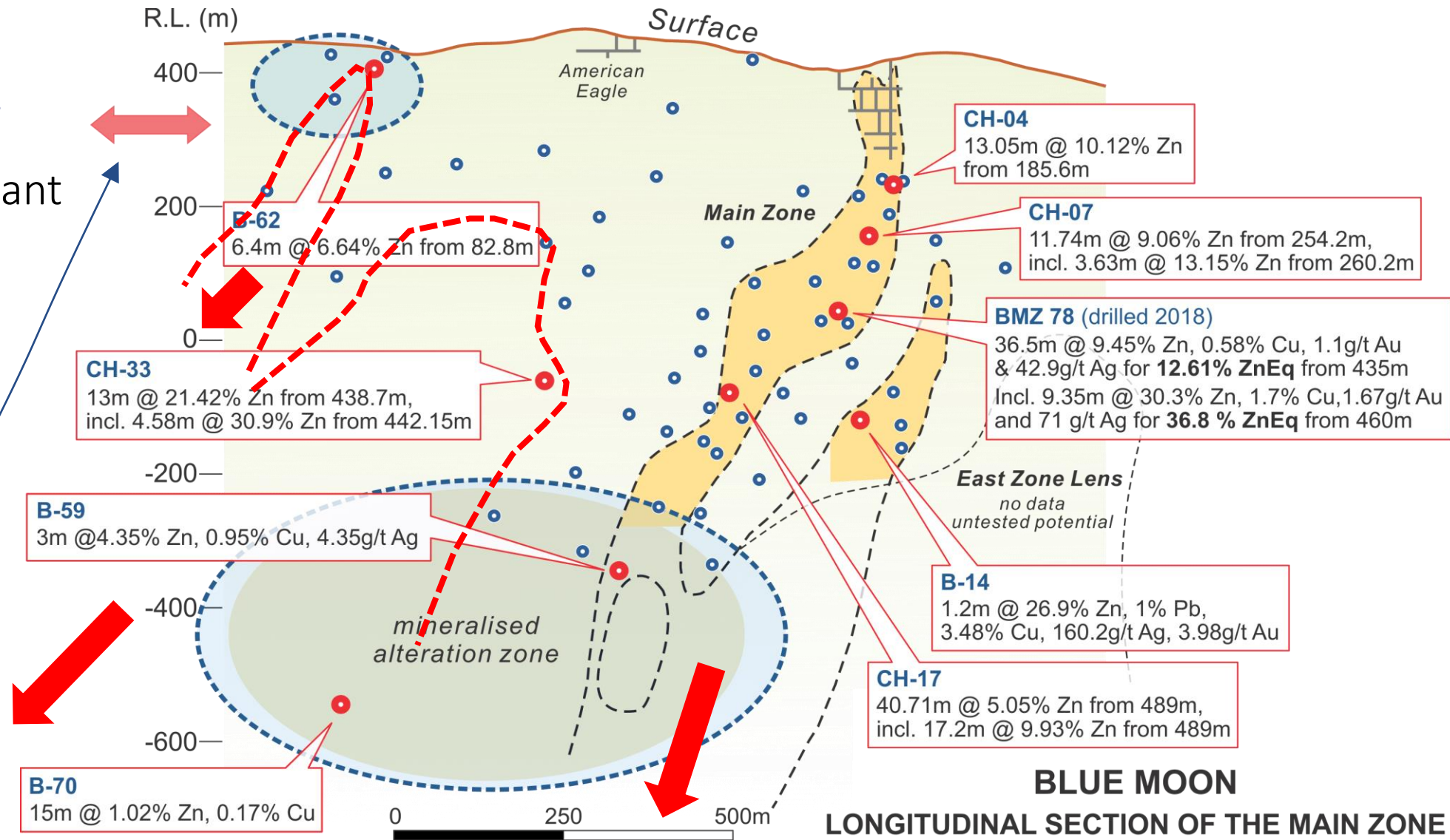
02

LARGE  
RESOURCE

Potential for significant  
expansion of the  
resource

800m gap between mineralisation  
largely untested

Potential Expansion Zone –  
Mineralised Ore Shoots  
plunging South



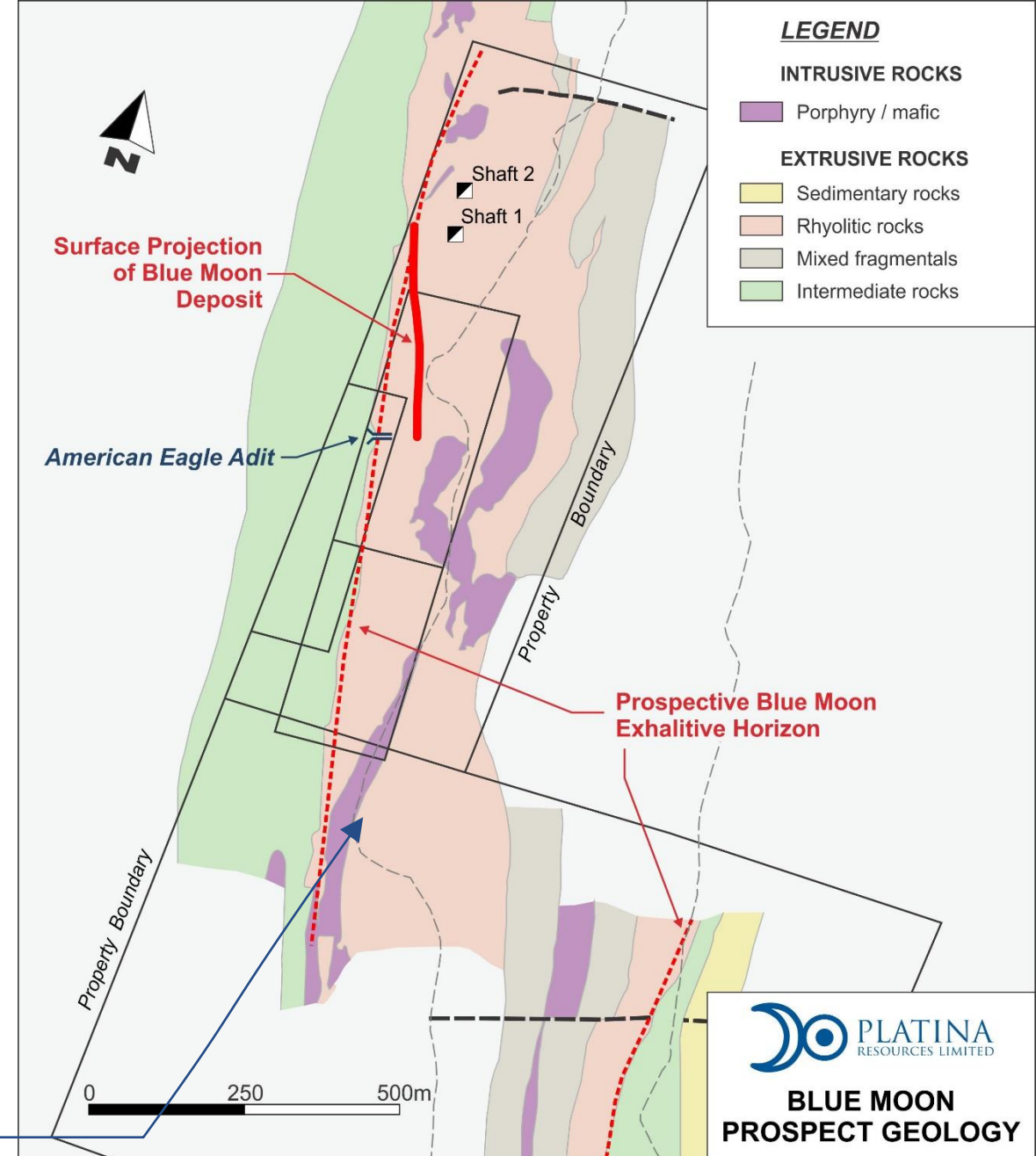
**BLUE MOON**  
**LONGITUDINAL SECTION OF THE MAIN ZONE**

## LARGE, WELL-DEFINED MINERAL RESOURCE

Exploration upside beyond resource limits

- Extent of the alteration indicates a large mineralising system may extend south of the current resource
- Geophysical anomalies along strike
- Untested trend of coincident soil and geophysical anomalies
- Blue sky potential to multiple "Blue Moon" style deposit on strike as VMS deposits are often found in clusters

Only a few drill holes in this area.  
500 metre zinc-in soil anomaly

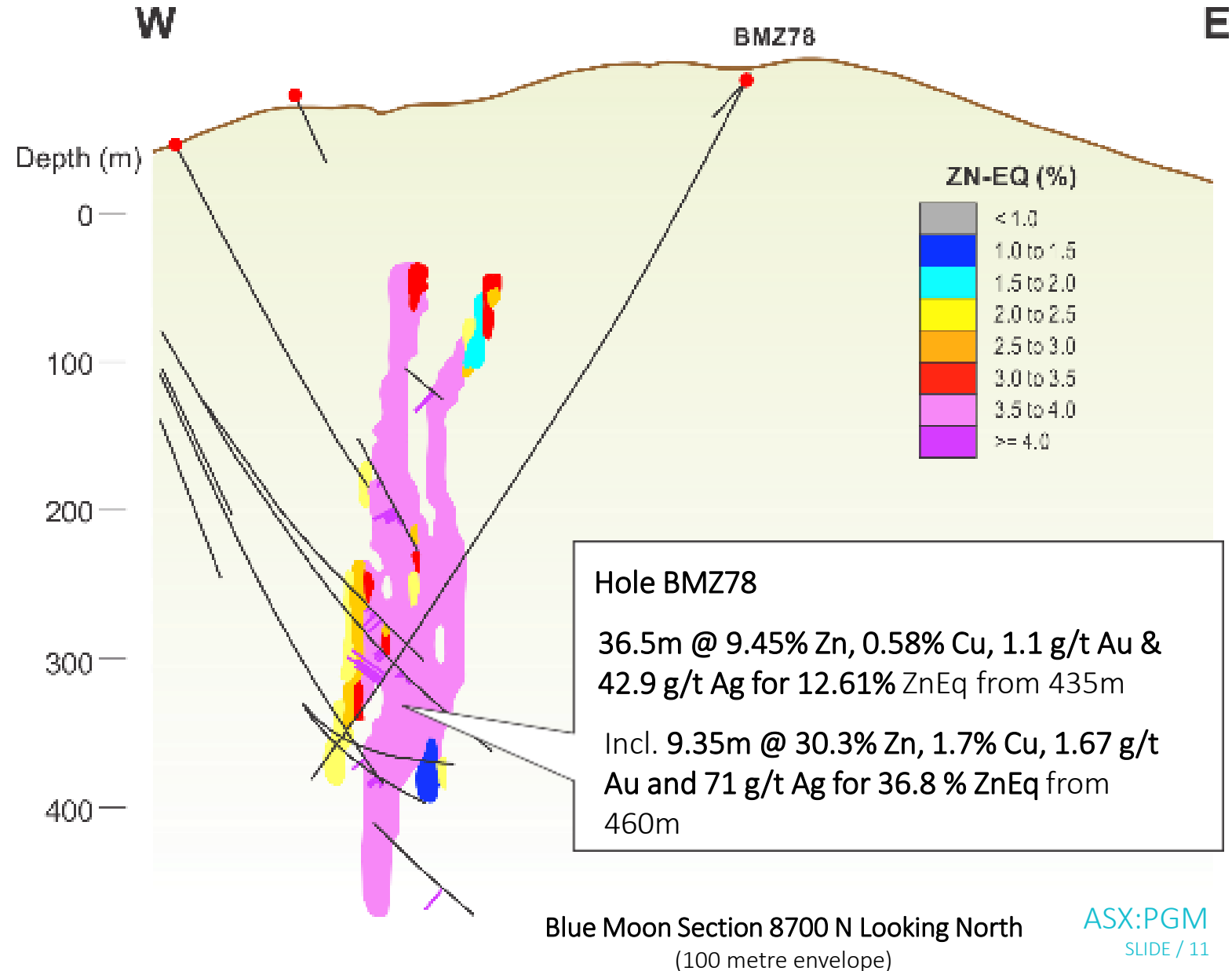


## 03 HIGH GRADE DEPOSIT

### Grade is King

- BMZ-78\* was drilled in 2018 into a previously untested area and represents the **highest grades ever encountered at the property**
- Attractive intersections of **gold up to 5g/t**
- BMZ-78 confirms the presence of thick and steeply plunging massive sulphide mineralisation within the Main Zone

\* Hole 78 is not included in NI43-101 Inferred Resource





## 03 HIGH GRADE DEPOSIT

### Simple metallurgy

- 1988 Lakefield Research\* results indicated recoveries of up to:
  - 95% for zinc and lead
  - 93% for copper
  - 65% for silver
  - 70% for gold
- Conventional sulphide flowsheet to produce clean zinc and copper concentrates
- Coarse grained sphalerite, chalcopyrite and galena results in easy separation of the economic minerals from the pyrite at high metallurgical recoveries

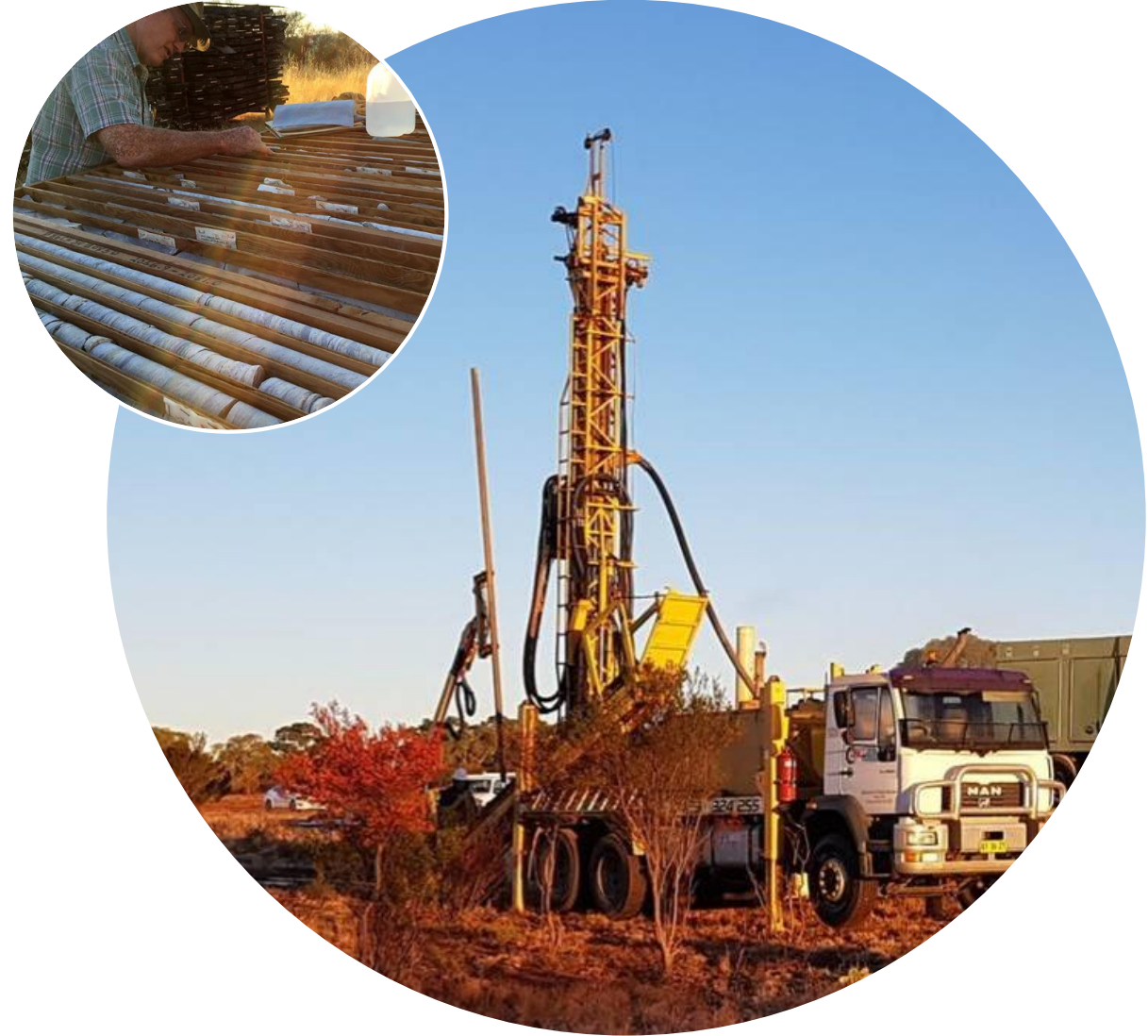
Potential process plant location



\*See Blue Moon NI 43-101, 14 November 2018, at [www.bluemoonmining.com](http://www.bluemoonmining.com)

## 04 DRILL-READY

- Drill permit approved, 10,000m drilling program planned
- Infill drilling for resource definition (conversion of Inferred to Indicated Mineral Resource)
- Exploration drilling for resource expansion
- Initial focus on new high-grade zone within deposit – hole BMZ78 – which has potential to significantly expand the Mineral Resource
- Drill core to be used for metallurgical test work
- Generates significant news flow over the next six months



05

## RIGHT COMMODITIES, RIGHT TIME

- Blue Moon provides exposure to zinc, copper, gold and silver
- Zinc is the fourth-most-consumed metal after iron, aluminum and copper
- Zinc's primary use is galvanisation to protect steel from corrosion - ~ 50% of demand
- Other uses include diecasting for industrial/household products, brass for construction, and chemicals and nutrients
- The LME zinc price hit a 10-year peak of USD\$3,600/tonne in 2018

ZINC PRICE \$USD/tonne

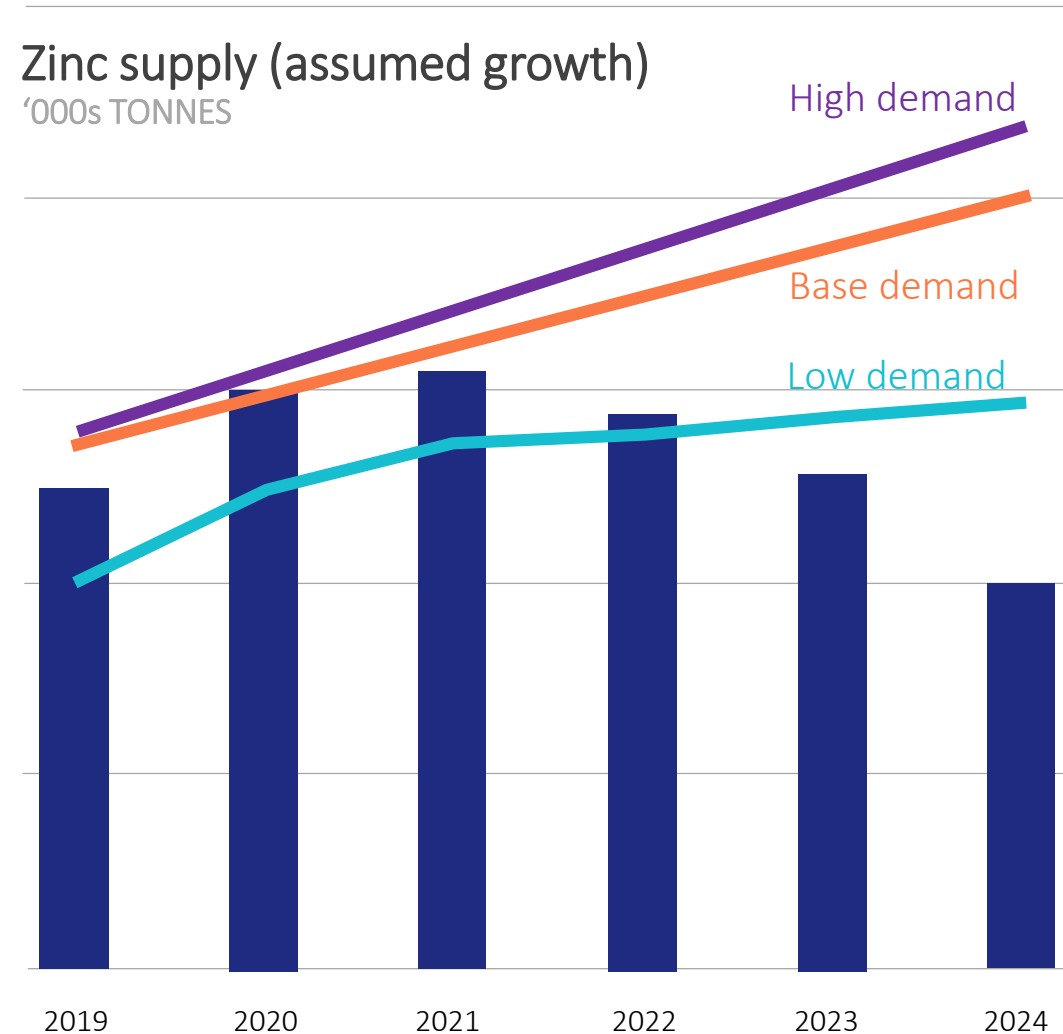




## 05

## RIGHT COMMODITIES, RIGHT TIME

- Zinc fundamentals are strong:
  - Global zinc stocks have been falling due to supply deficits over the last five years
  - LME stocks at critically low levels
- Perceived demand weakness has impacted prices – trade war and global growth concerns
- Globally, zinc project permitting, financing and development timelines are increasing
- Potential supply gap and low metal stocks supports a robust price outlook

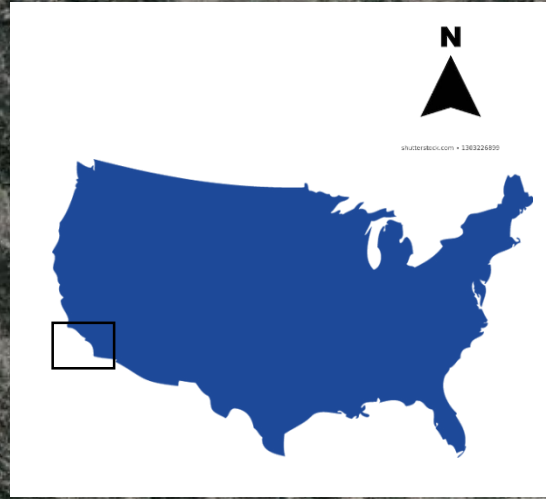


Source: Teck

06

## FAVOURABLE LOCATION

- Located 193 km east of San Francisco in Mariposa County
- 1 km from low-cost hydro-electric power
- 150 km to Oakland export port via sealed roads
- Labour and contractors available locally and Reno
- Stable jurisdiction with low corporate taxes and no state royalties



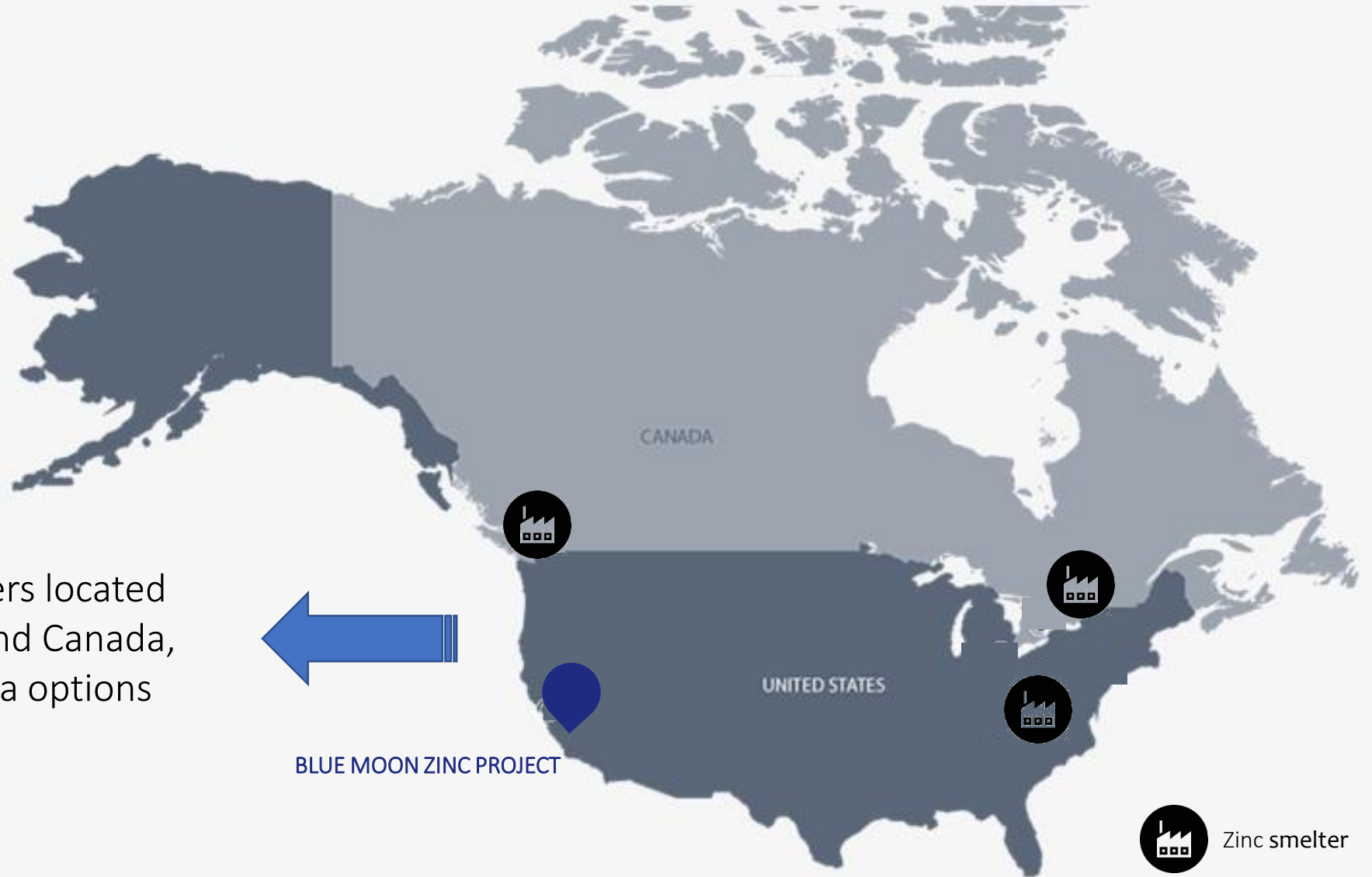
06

## FAVOURABLE LOCATION

Three zinc smelters located  
within the USA and Canada,  
plus Asia/Australia options



BLUE MOON ZINC PROJECT





## PATHWAY TO PRODUCTION

2019 Project Objectives

**01** Infill and resource expansion drilling program to expand Mineral Resource

**02** Metallurgical testing to confirm process flow sheet

Commence a Pre-Feasibility Study **03**

Update of baseline environmental studies **04**



# SUPPORTING INFORMATION

# TENURE

100% ownership of a mineral rights package covering 445 acres of tenure comprising:

## 1. Two deeded, patented mineral claims

- Provides ownership of the surface land and mineral rights
- Exists into perpetuity

## 2. Eight Federal Lode claims\*

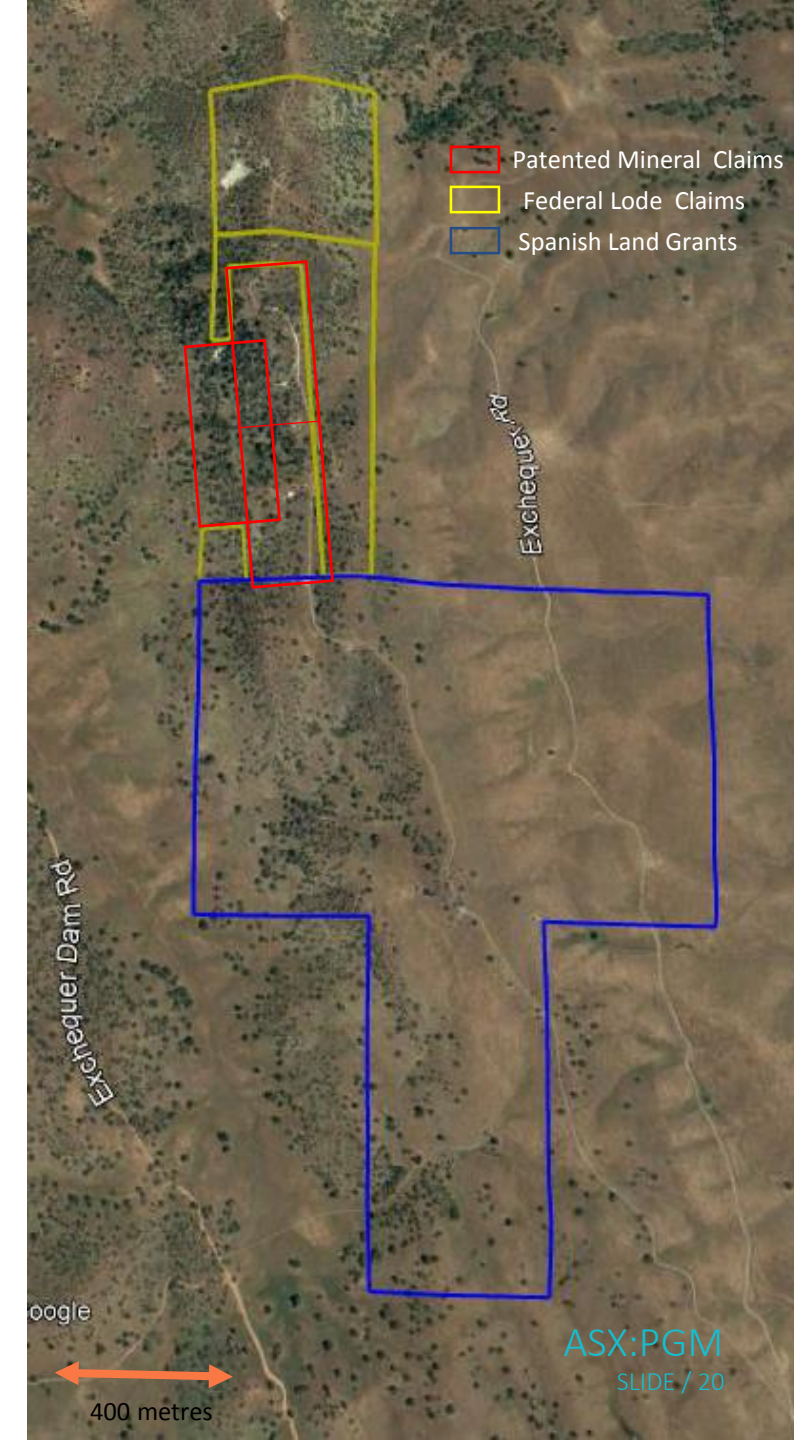
- Owned by the Bureau of Land Management (BLM) – subject to all BLM rules on permitting, State Laws and County regulations
- Provides the right to explore and develop minerals

## 3. Mineral rights from two Spanish Land Grants#

- Rights to the minerals that pre-dates USA ownership of the land
- Provides the right to explore and develop minerals
- Agreement provides for lease of 40 acres of surface rights

\* subject to two 1% NSR agreements with private individuals, both capped at US\$700,000\* and one 0.5% NSR agreement with Boliden capped at US\$500,000

# subject to a 3% NSR capped at US \$200,000





## DEVELOPMENT CONCEPT HAS LOW ENVIRONMENTAL IMPACTS

- Small surface footprint, underground mining operation
- Process plant to produce zinc and copper concentrates
- Minimal flora or fauna impacts – most of the land is cleared
- Water recycled in the process plant and fully contained on site
- Dry tailings and/or deposition back in the mine
- Concentrate haulage to by-pass local communities.
- Supportive local County integral to permitting process



## PERMITTING PROCESS

- Drilling permits secured
- Project was historically permitted for direct shipping ore operations
- Existing permit and reclamation plan approved in 1989 for a shaft and certain underground development
- Consultant who permitted Golden Queen's project in California, is a key technical advisor
- Environmental team retained who assisted in the permitting of Golden Queen's project in California.
- Local County is key decision maker and is highly supportive of the project





## CALIFORNIA ACTIVE IN RESOURCE DEVELOPMENT

- California generated USD 4.6 billion of non-fuel mineral production in 2018\*
- Major projects in operation:
  - Mesquite mine (Equinox Gold Corp.) – 140kcozs gold produced in 2018
  - Soledad Mountain mine (Golden Queen) – 42kcozs gold and 373kcozs silver in 2018
  - Rio Tinto Boron mine (Rio Tinto) – largest mine in California
- New Projects being advanced towards development:
  - Castle Mountain gold project (Equinox Gold Corp.)
  - Fort Cady borates project (American Pacific Borates)
  - Idaho-Maryland gold project (Rise Gold Corp.)
  - Imperial gold project (Kore Mining)
  - Long Valley gold project (Kore Mining)

\* California is the sole producer of boron and rare earths and a leading producer of aggregates, cement, diatomite, feldspar, pumice, soda ash, and produced the widest variety of industrial minerals and metals of all the States





# APPENDICES

## BLUE MOON CUT OFF GRADE SENSITIVITY\*

Significant potential to optimise the Mineral Resource

Cutoff	Tons >	Grade > Cutoff						Contained Metal (Millions)				
ZnEq %	Cutoff (tons)	Zn %	Cu %	Ag oz/t	Au oz/t	Pb %	ZnEq %	lbs Zn	lbs Cu	lbs Pb	ozs Ag	ozs Au
1	18,350,000	2.80	0.29	0.74	0.02	0.17	<b>4.64</b>	1,028	106	62	14	0.4
2	13,060,000	3.60	0.34	0.97	0.03	0.22	<b>5.93</b>	940	90	56	13	0.4
3	9,380,000	4.44	0.41	1.21	0.03	0.27	<b>7.29</b>	833	78	50	11	0.3
<b>4</b>	<b>7,790,000</b>	<b>4.95</b>	<b>0.46</b>	<b>1.33</b>	<b>0.04</b>	<b>0.29</b>	<b>8.07</b>	<b>771</b>	<b>71</b>	<b>46</b>	<b>10</b>	<b>0.3</b>
5	6,490,000	5.44	0.50	1.44	0.04	0.32	<b>8.79</b>	707	64	41	9	0.2
6	5,330,000	5.95	0.53	1.54	0.04	0.34	<b>9.51</b>	635	57	36	8	0.2
7	4,200,000	6.54	0.57	1.63	0.04	0.36	<b>10.33</b>	549	48	30	7	0.2
8	3,090,000	7.21	0.63	1.78	0.05	0.38	<b>11.34</b>	446	39	24	6	0.1

\*See Blue Moon NI 43-101, 14 November 2018, for cut-off grade calculation assumptions at [www.bluemoonmining.com](http://www.bluemoonmining.com)

# CAPITAL STRUCTURE

## Share Structure

Trading Exchange	ASX:PGM
Shares	264.1 million
52 week low/high	3.6c – 13.0c
Top 20 shareholders	54%

Note:

1 Excludes 11m unlisted call options exercisable at AUD 0.20 before 31 December 2019 & 2m performance rights

## Major Shareholders

Cairnglen Investments	15.1%
Electrum Global Holdings	7.9%
Shopfitting Headquarters Pty Ltd	6.0%
Yandal Investments (Mark Creasy)	2.7%

## Capitalisation

Price as at 26 August 2019	4.3c
Market Cap	\$AUD11.3m
Cash as at 30 June 2019	\$AUD1.3m
Debt as at 30 June 2019	Nil
Enterprise Value	\$AUD10.0m





## PEER COMPARISON COMPANY DESCRIPTION

Company & Website	ASX Code	Status	Description
<b>New Century Zinc</b> www.newcenturyzinc.com.au	NCZ	Producer	An Australian based zinc and lead producer operating the Century Mine tailings project in Queensland, Australia.
<b>Heron Resources</b> www.heronresources.com.au	HRR	Producer	Operates the Woodlawn lead-zinc deposit in New South Wales in Australia.
<b>Red River Resources</b> www.redriverresources.com.au	RVR	Producer	Red River acquired the Thalanga base metal Project in QLD in late 2014, and restarted operations in 2017, with first production from the West 45 underground deposit producing separate copper, lead and zinc concentrates. In 2018, Red River started the development of Far West, the second underground mine at Thalanga with Far West production scheduled to commence in 2019
<b>Adriatic Resources</b> www.adriaticresources.com.au	ADT	Explorer	Owner of the Vares Mining Concession in Bosnia and Herzegovina. The Vares Project contains two exploration deposits, Veovaca and Rupice, which have previously been mined for Lead, Zinc and Barite.
<b>Terramin Australia</b> www.terraminaustralia.com.au	TZM	Explorer	Base and precious metal development company which owns 65% of the undeveloped Tala Hama Zinc project in Algeria and gold development projects in South Australia.
<b>Galena Mining</b> www.galenamining.com.au	G1A	Explorer	Developing the Abra Lead-Silver Project in Western Australia which contains a JORC Lead Mineral Resource. Abra is within a granted mining lease. Bankable Feasibility Study completed in July 2019

## PEER COMPARISON COMPANY DESCRIPTION

Company & Website	ASX Code	Status	Description
<b>Myanmar Metals</b> www.myanmarmetals.com.au	MYL	Explorer	Controls a 51% majority participating interest in the world class Bawdwin deposit located in Shan State, Myanmar. Pre-Feasibility Study completed.
<b>Galena Mining</b> www.galenamining.com.au	G1A	Explorer	Developing the Abra Lead-Silver Project in Western Australia which contains a JORC Lead Mineral Resource. Abra is within a granted mining lease. Bankable Feasibility Study completed in July 2019
<b>Orion Minerals</b> www.orionminerals.com.au	ORN	Explorer	Mineral explorer and developer focused on the Prieska Copper-Zinc Project in South Africa's Northern Cape Province. Bankable Feasibility Study completed.
<b>Alta Zinc</b> www.altazinc.com.au	AZI	Explorer	Alta Zinc owns the historic Gorno Zinc Project located in the Lombardia region of northern Italy where it is preparing to recommence mining activities based on a JORC Mineral Resource.
<b>Superior Lake Resources</b> www.superiorlake.com.au	SUP	Explorer	The Superior Lake Zinc Project is located around 200 kilometers east of Thunder Bay in the province of Ontario in Canada. The Project covers an area of 175km <sup>2</sup> and consists of two deposits – Winston Lake and Pick Lake. Currently completing a Definitive Feasibility Study.
<b>PNX Metals</b> www.pnxmetals.com.au	PNX	Explorer	Owns a significant base and precious metals tenement portfolio, primarily in the Northern Territory but also in South Australia. Key focus is the development of the Hayes Creek zinc-gold-silver VMS project which as a completed Pre-Feasibility Study

# DISCLAIMER

## CAUTIONARY AND FORWARD-LOOKING STATEMENTS

Platina Resources' plans with respect to its mineral properties are forward-looking statements. There can be no assurance that Platina Resources' plans for development of its mineral properties will proceed as currently expected. There can also be no assurance that Platina Resources' will be able to confirm the presence of additional mineral deposits, that any mineralisation will prove to be economic or that a mine will successfully be developed on any of Platina Resources' mineral properties or that Platina will achieve any of the valuation increases shown by the peer group zinc companies.

## COMPETENT PERSON STATEMENT

The information in this report that relates to Exploration Results and Mineral Resources is based on information compiled by Dr Gustavo Delendatti, a member of the Australian Institute of Geoscientists. Dr Delendatti is an independent consultant, and has sufficient experience which is relevant to the style of mineralisation and type of deposit under consideration and to the activity which it is undertaking to qualify as a Competent Person as defined in the JORC Code (2012 Edition) of the "Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves." Dr Delendatti was responsible for the review of the exploration and drilling information, supervised the preparation of the technical information in this release and has relevant experience and competence of the subject matter. Dr Delendatti, as competent person for this announcement, has consented to the inclusion of the information in the form and context in which it appears herein.

The information in this Director's Report that relates to the Mineral Resources and Ore Reserves were last reported by the Company in compliance with the 2012 Edition of the JORC Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves in market releases dated as follows:

## TRANSFORMATIONAL TRANSACTION – JOINT VENTURE ON A ZINC PROJECT

The Company confirms that it is not aware of any new information or data that materially affects the information included in the market announcements referred to below and further confirms that all material assumptions underpinning the production targets and all material assumptions and technical parameters underpinning the Mineral Resource statements contained in those market releases continue to apply and have not materially changed.

- See ASX Release, ASX Release dated 29 August 2019, Transformational Transaction – Joint Venture on a High-Grade Zinc-Copper-Gold Project outlines compliance with Australian Securities Exchange Listing Rules Chapter 5.12.







# CONTACT

Corey Nolan  
Managing Director

Telephone: +61 7 5580 9094

Email: [admin@platinaresources.com.au](mailto:admin@platinaresources.com.au)

[platinaresources.com.au](http://platinaresources.com.au)