



**VANGO.**

MINING LTD

Vision for the future

**Developing a major Australian Gold Project**

# **Marymia Gold Project, Western Australia**

**Gold Coast Investment Showcase | 23-24 June 2021**

ASX:VAN

# Disclaimer and Important Information

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## Competent Person’s Statements

- The information in this report that relates to exploration results has been reviewed, compiled and fairly represented by Mr David Jenkins, a Member of the Australian Institute of Geologists and a full time employee of Terra Search Pty Ltd. Mr Jenkins has sufficient experience, including over 28 years’ experience in exploration and resource evaluation relevant to the style of mineralisation and type of deposits under consideration to qualify as a Competent Person as defined in the 2012 Edition of the Joint Ore Reserves Committee (‘JORC’) Australasian Code for Reporting of Exploration Results, Minerals Resources and Ore Reserves. Mr Jenkins consents to the inclusion in this report of the matters based on this information in the form and context in which it appears.
- The Statement of Mineral Resource Estimates has been compiled by Dr. Spero Carras who is a full-time employee of Carras Mining Pty Ltd and a Fellow of the Australian Institute of Mining and Metallurgy (‘FAusIMM’). Dr. Carras has sufficient experience relevant to the style of mineralisation and type of deposits under consideration to qualify as a Competent Person as defined in the 2012 Edition of the Joint Ore Reserves Committee (‘JORC’) Australasian Code for Reporting of Exploration Results, Minerals Resources and Ore Reserves. Dr. Carras consents to the inclusion in this report of the matters based on this information in the form and context in which it appears. Dr. Carras has over 40 years experience in gold mine evaluation.



# Who is Vango Mining

Vango Mining is a **gold exploration and development company** focused on exploring and developing the **Company's key asset, the 100% owned Marymia Gold Project in the Mid-West region of Western Australia.**

In the near-term, the Company is focused on **expanding its high-grade resource base** to support **plans to become a significant gold mining and production company.**

Vango also has a **Farm-in, Joint Venture Agreement with Lodestar Minerals (ASX: LSR)** for the nearby Ned's Creek Project, confirming **Vango's dominant ground position in the world-class Marymia Gold Belt.**

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# Corporate Overview

## CORPORATE SNAPSHOT

TICKER <b>ASX:VAN</b>	SHARES ON ISSUE <b>1,096 M</b>	12 MONTH SHARE PRICE RANGE <b>14c – 5.1c</b>	MARKET CAPITALISATION <b>A\$76.72 M</b> @ \$0.07	CASH AND LIQUIDS <b>~A\$6.2 M</b> (18th June 2021)
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## BOARD OF DIRECTORS

Bruce McInnes	Executive Chairman
Sean Zhou	Deputy Chairman
Dr Carol Zhang	Non-Executive Director
Hunter Guo	Non-Executive Director
Craig Wallace	Non-Executive Director

## SHAREHOLDER DETAILS

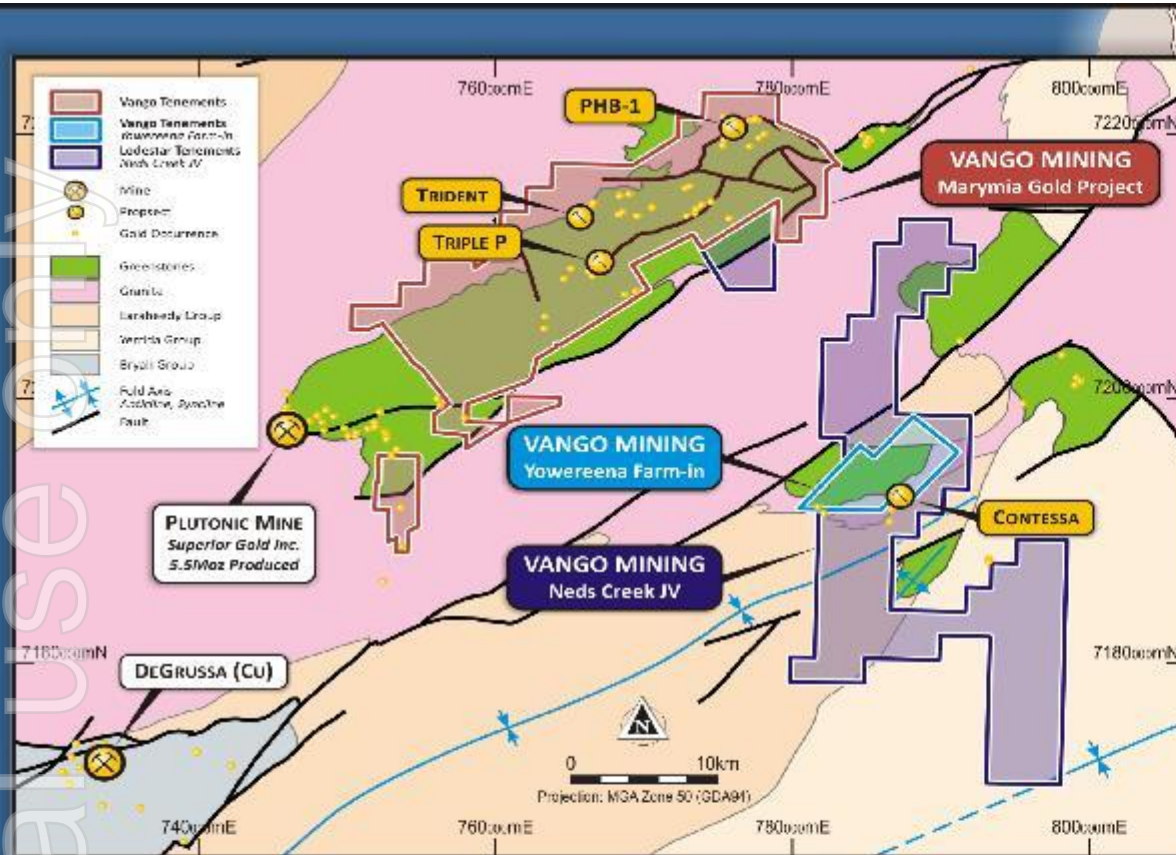
Directors	30.1%
Top 20 Holds	68.25%

## TWELVE MONTH SHARE PRICE GRAPH





# Major Project in WA's World-Class Goldfields



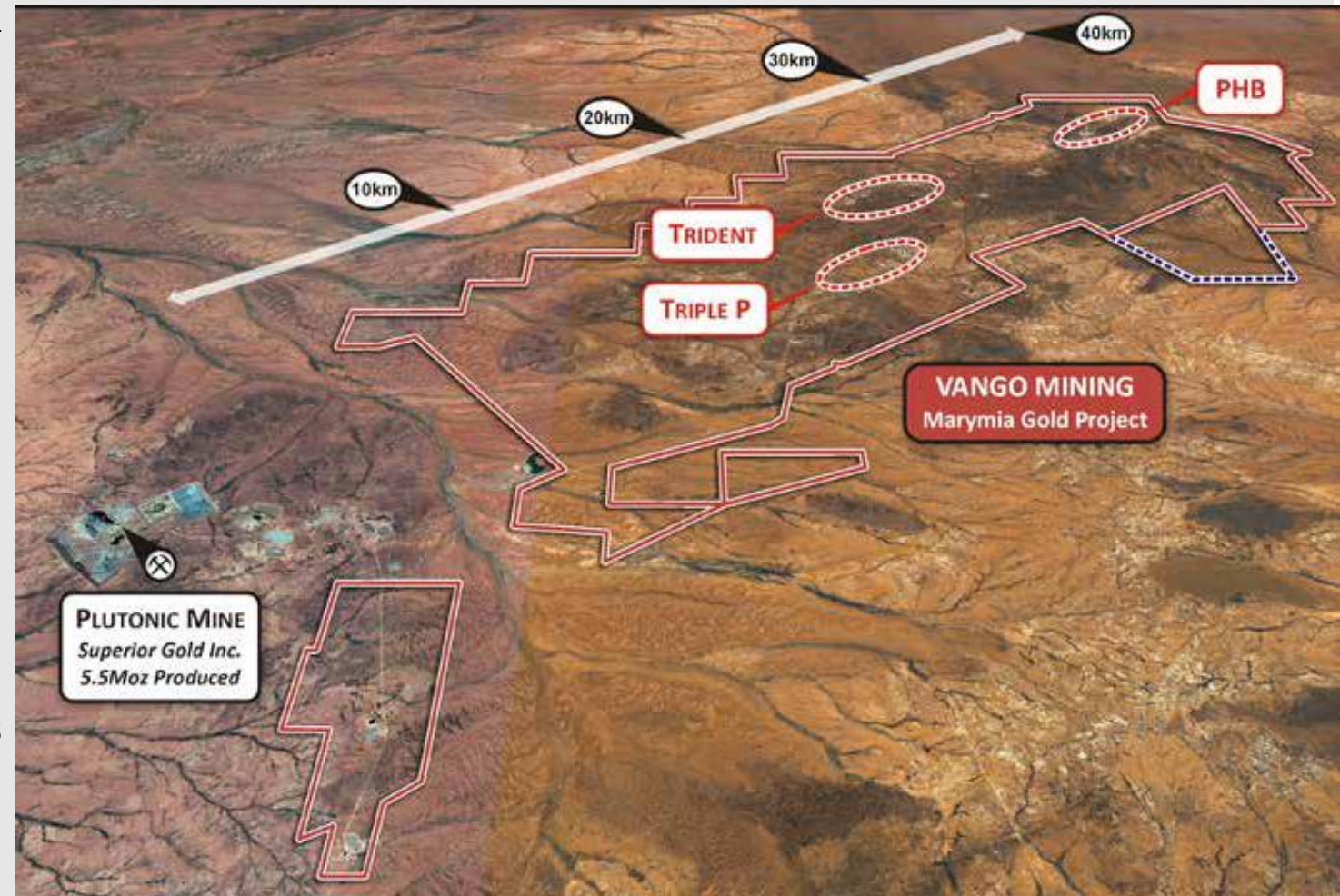
INDIAN OCEAN





# About the Marymia Gold Project

- **Dominant ground position in world-class Marymia Gold Belt** - extending from >5.5Moz Plutonic Gold Mine<sup>1</sup>
- Project sits on **45 granted Mining Leases with >40km in strike length**
- 1Moz high-grade resource and growing - **1.02Mt @ 3.0 g/t Au<sup>2</sup> includes:**
  - Underground: 541,000oz @ 7.9g/t Au
  - Open pit: for 461,000oz @ 1.7g/t Au
- **Extensive resource expansion drilling campaign** designed to deliver major resource upgrade
- Exploration to date has targeted just 3 key gold corridors of 6 identified corridors – **major exploration upside within Project area**
- **Vango aims to develop the Marymia Project into a significant gold mining operation**



Outline of Marymia Gold Project area showing the >40km strike length and the >5.5Moz Plutonic Gold Mine immediately to the south

<sup>1</sup> Superior Gold Inc., TSX-V:SGI, Corporate Website [www.superior-gold.com](http://www.superior-gold.com)

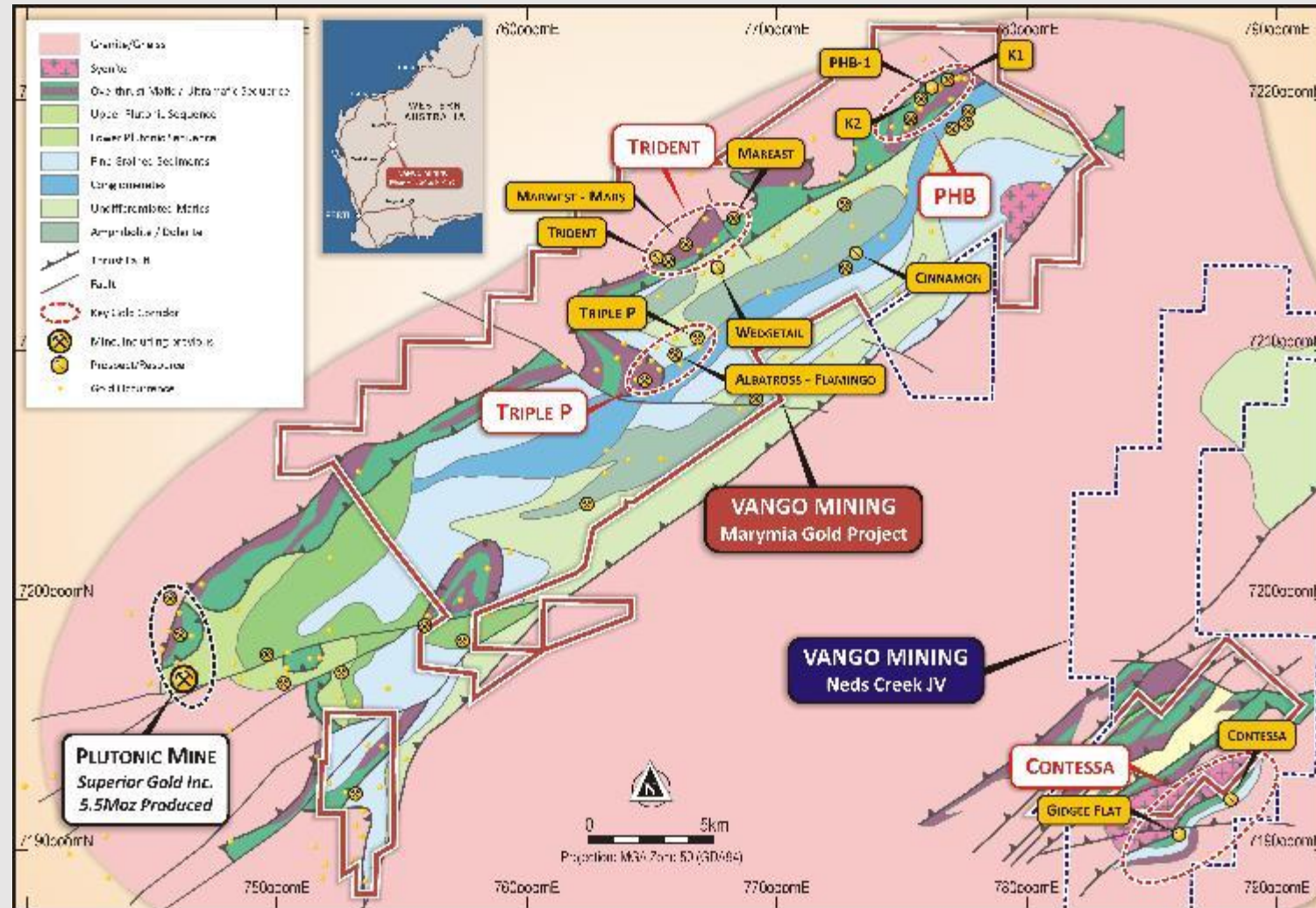
<sup>2</sup> VAN ASX 19/05/20 Marymia Mineral Resource Increases to 1Moz



# Marymia Project – 1Moz and Growing

## Marymia brownfields gold project in world class gold belt

- 1Moz JORC 2012 Mineral Resource confirmed May 2020: 10.38Mt @ 3.0 g/t Au for 1.02Moz Gold<sup>1</sup>
- Extensive **20,000m RC and diamond drilling drill campaign completed in 2020** - focused on priority targets at the 'crown-jewels' Trident gold corridor and PHB gold corridor at Marymia
- All results from 2020 drilling campaign to be added to Marymia resource model - geological review and modelling of the Project completed
- Results of this work form the basis of **2021 field season – focus on priority open-pit targets to add significant, near-surface resources to the Marymia Resource**
- Major **Resource expansion drilling campaign** to commence
- **Significant Resource upgrade - including results from the 2020 and 2021 drilling campaigns – planned for H2, calendar 2021**

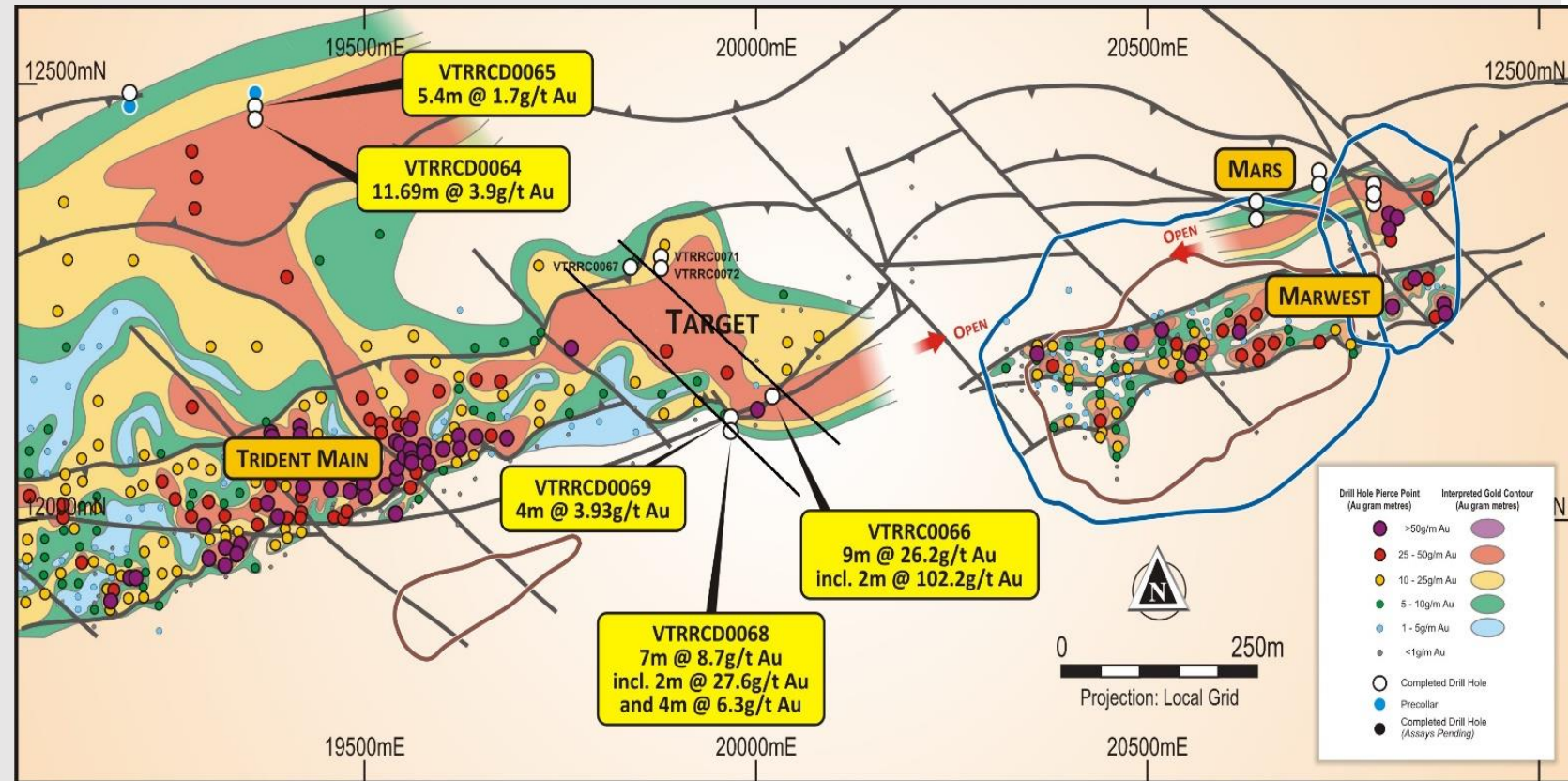


Marymia Gold Project location map showing the 3 key gold corridors and the nearby Ned's Creek JV Project

<sup>1</sup> VAN ASX 18/04/19 New Trident High-Grade Resource Upgrade

# Trident Gold Corridor – The Crown Jewels

- **28 RC holes for 6,622m and 7 Diamond holes for 1781.8m** completed at Trident in 2020
- Drilling successfully **extended dip and strike extent of mineralisation outside existing Resource** - 410,000 @ 8g/t Au<sup>1</sup>
- Trident extension drilling **significantly extended gold mineralised zone** to the north-east by ~250m towards the Marwest Deposit.
- Potential for **Trident and Marwest to form one large high-grade gold system** with a strike length of at least 3km
- Drilling for depth extensions extended down dip extent of mineralisation by 200m - thick, high-grade zones with **potential to add further significant resources to the Trident resource**



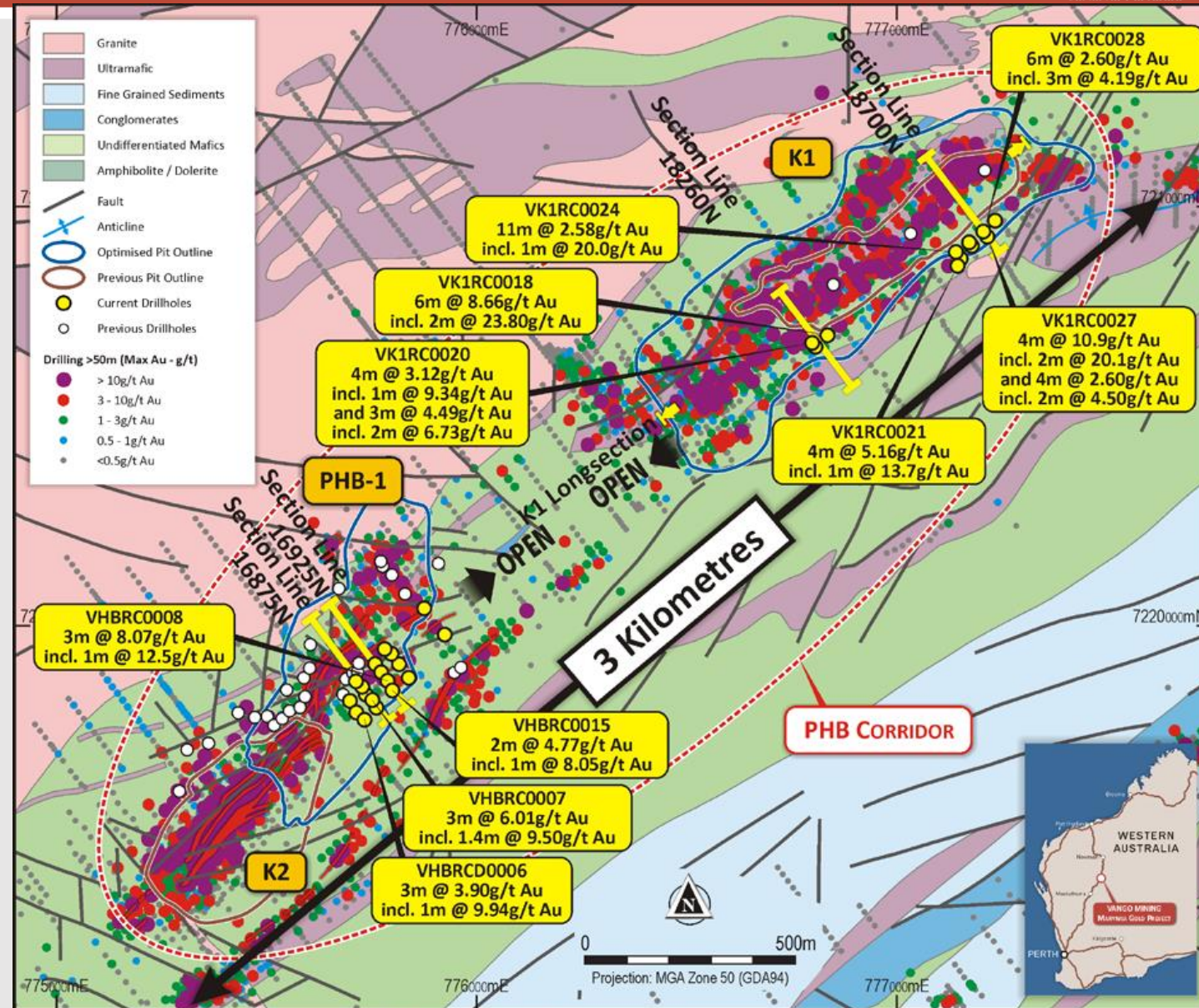
*Selected drill results from recent drilling at Trident Gold Corridor at Marymia Gold Project – showing Marwest target to the north-east*

<sup>1</sup> VAN ASX 18/04/19 New Trident High-Grade Resource Upgrade



# PHB Gold Corridor

- Drilling also completed at the PHB gold corridor in 2020 field season
- 23 RC holes for 5,751m and 6 Diamond holes for 1,412.8m completed**
- PHB drilling **successfully targeted high-grade extensions of the three key lode structures** – the Main, Central and West Loads
- Drilling at the PHB corridor also delivered a **new, high-grade lode discovery below the K1 open pit**, northeast of PHB-1



Selected drill results from drilling at PHB Gold Corridor at Marymia Gold Project

# Highlight Results: Trident, PHB and Triple P Gold Corridors

## Trident Corridor

- **9m @ 26.2 g/t Au from 137m** incl. 2m @ 102.2 g/t Au from 139m in VTRRC0066<sup>1</sup>
- **7m @ 8.7 g/t Au from 110m** incl. 2m @ 27.6 g/t Au from 110m and 1m @ 17.4 g/t Au from 114m in VTRRC0068~
- **7.15m @ 17.1 g/t from 193.85m** in hole VTRDD0003 incl. 3.6m @ 24.4 g/t Au<sup>17</sup>
- **11m @ 20.0 g/t from 161m** in hole VTRRCD0001 incl. 2m @ 93 g/t Au<sup>16</sup>
- **6m @ 15.4 g/t from 198m** incl. 4m @ 22.5 g/t Au in hole VTRRCD0007<sup>15</sup>
- **7m @ 18.2 g/t from 218m** incl. 2.02m @ 44.0g/t Au in hole VTRRCD0013<sup>14</sup>
- **11.48m @ 11.5 g/t Au from 159m** incl. 4m @ 26.1 g/t Au in hole VTRRCD0016<sup>14</sup>
- **11m @ 36.2 g/t from 213m** incl. 2m @ 184 g/t Au in VTRGT0050<sup>13</sup>
- **9m @ 12.7 g/t Au from 54m** incl. 7m @ 15.6 g/t Au from 56m and 3m @ 30.6 g/t Au from 56m in VMWRC0002<sup>11</sup>
- **9m @ 15.0 g/t Au from 28m** incl. 3m @ 39.8 g/t Au in VMERC0012<sup>12</sup>

## PHB Corridor

- **7m @ 103.6 g/t Au from 48m** incl. 3m @ 240 g/t Au and including 1m @ 691 g/t Au<sup>5</sup>
- **3m @ 19.7 g/t Au from 126m** and 8m @ 4.17 g/t Au from 110m, incl. 3m @ 8.69 g/t Au, in VK2RC0009<sup>4</sup>
- **15m @ 6.51 g/t Au from 118m** incl. 5m @ 12.5 g/t Au, in VK2RC0010a<sup>4</sup>
- **6m @ 8.66 g/t Au** incl. 2m @ 23.8 g/t Au from 128m in VK1RC0018<sup>3</sup>
- **4m @ 10.9 g/t Au**, incl. 2m @ 20.1 g/t Au, from 161m in VK1RC0027<sup>2</sup>

## Triple P Corridor

- **4m @ 23.0 g/t from 109m** incl. 1m @ 85.0 g/t Au in VPPPRC0008<sup>9</sup>
- **4m @ 9.48 g/t Au from 177m** incl. 1m @ 25.0 g/t Au in VPPPRC0005<sup>9</sup>
- **4m @ 6.38 g/t Au from 164m** incl. 2m @ 10.9 g/t Au in VPPPRC0004<sup>9</sup>
- **4m @ 50.6 g/t Au from 81m** incl. 2m @ 99.1 g/t Au including 1m @ 182 g/t Au in VAFRC0001<sup>7</sup>
- **3m @ 38.0 g/t Au from 97m** incl. 2m @ 56.1 g/t Au including 1m @ 100.9 g/t Au in VAFRC0001<sup>7</sup>
- **14m @ 6.99 g/t Au from 48m** incl. 7m @ 11.9 g/t Au incl. 2m @ 28.3 g/t Au in VAFRC0010<sup>6</sup>

~ VAN ASX, 18/02/21 High-Grade Gold Extensions at Trident

<sup>1</sup> VAN ASX, 06/01/21 Bonanza Gold Zone Identified 250m from Trident Resource

<sup>2</sup> VAN ASX, 20/10/20 Significant Intersections Extend High-Grade Lode Discovery

<sup>3</sup> VAN ASX, 24/09/20 High-Grade Lode Discovery in PHB Corridor at Marymia

<sup>4</sup> VAN ASX, 23/03/20 High-Grade Drilling Success at Marymia Gold Project

<sup>5</sup> VAN ASX, 03/03/20 Exceptional Intersections from New Lode Discovery at Marymia

<sup>6</sup> VAN ASX, 21/01/20 Exceptional High-Grade Gold Intercepts – Open Pit Potential

<sup>7</sup> VAN ASX, 02/01/20 Bonanza Gold Intersections from New Zone at Marymia

<sup>9</sup> VAN ASX, 05/08/19 New Very High-Grade Gold Zone Discovered at Marymia Project

<sup>11</sup> VAN ASX, 19/06/19 Very High-Grade Gold Intersections Extends Trident-Marwest

<sup>12</sup> VAN ASX, 23/05/19 Vango's High-Grade Gold Intersections Extend Corridor

<sup>13</sup> VAN ASX, 08/04/19 Bonanza High Grade Gold Intersections at Trident

<sup>14</sup> VAN ASX, 28/05/18 Further Very High - Grade Gold Intersections from Trident

<sup>15</sup> VAN ASX, 24/04/18 High-Grade Gold Intersections from Trident Gold Deposit

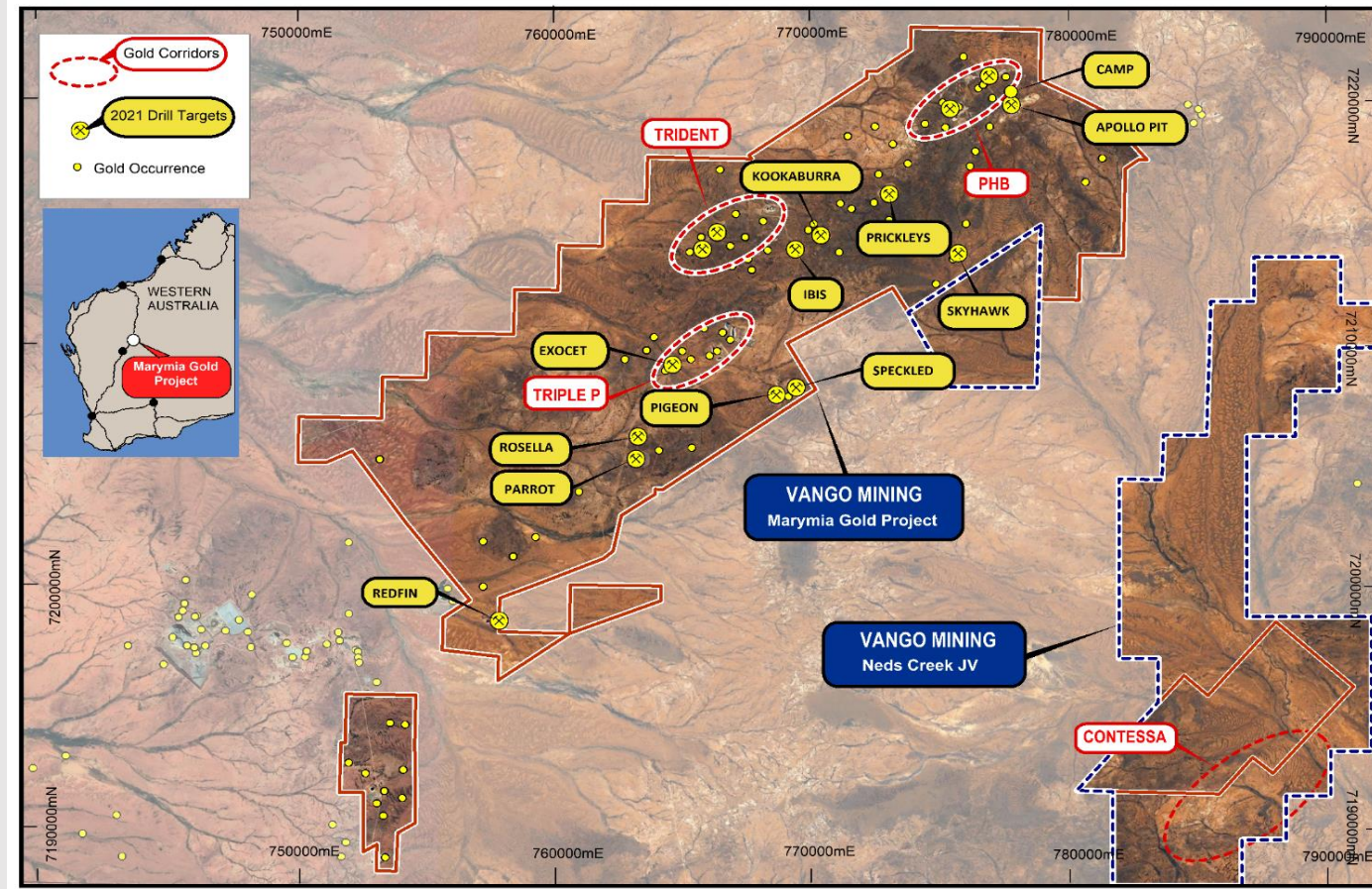
<sup>16</sup> VAN ASX, 17/07/17 Further High-Grade Gold Intersections at Plutonic Dome

<sup>17</sup> VAN ASX, 29/06/17 High Grade Gold Intersections from Drilling at Trident



# Major Resource Expansion Drilling Campaign

- **Minimum of 15,000m RC drilling** targeting 11 priority open-pits **designed to deliver substantial Resource increase at Marymia**
- Open pit **targets ranked in order of priority** based on historic gold inventory and review of historic drilling
- **11 open pits are;** Apollo, Exocet, Ibis, Kookaburra, Parrot, Pigeon, Prickleys, Redfin, Rosella, Skyhawk and Speckled
- **Skyhawk, Parrot and Apollo are highest priority** - drilling planned to commence at these targets
- Drilling to be conducted on nominal 20m by 40m spacing to nominal depth of ~160m at ~60° angle (~120m vertical depth)
- **Drilling also aims to;**
  - Enhance understanding of mineralised zones within the targeted open pits – to assist with mine planning
  - Deliver 'critical mass' of resources to increase proposed mine life of a potential future mining operation at Marymia

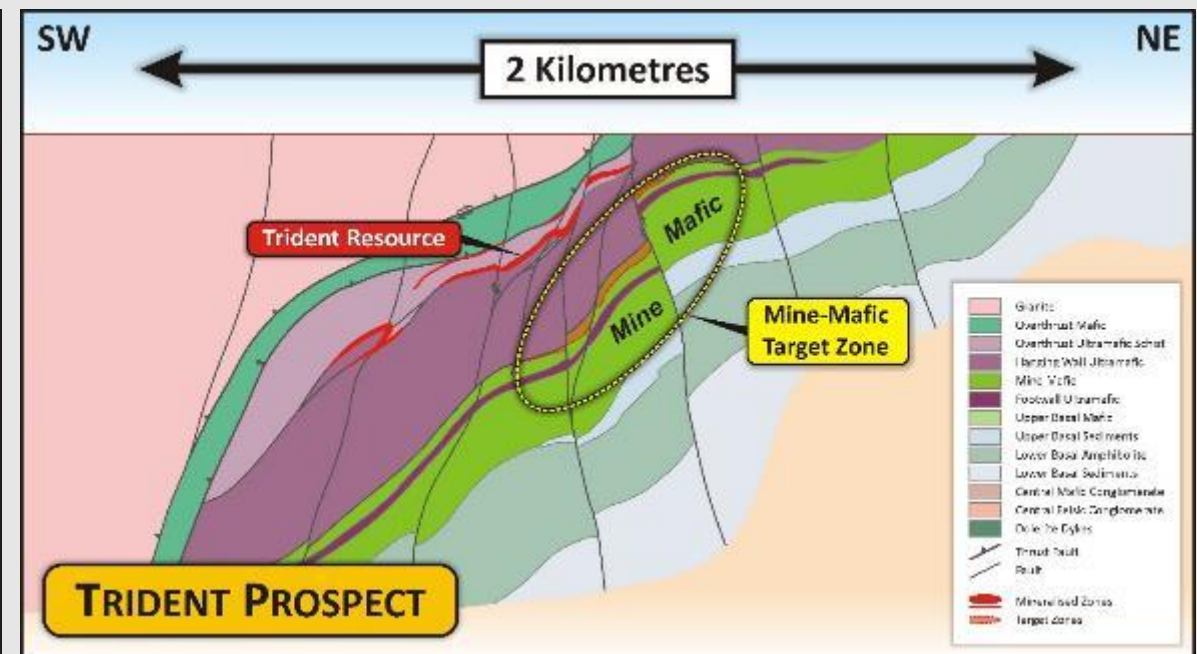
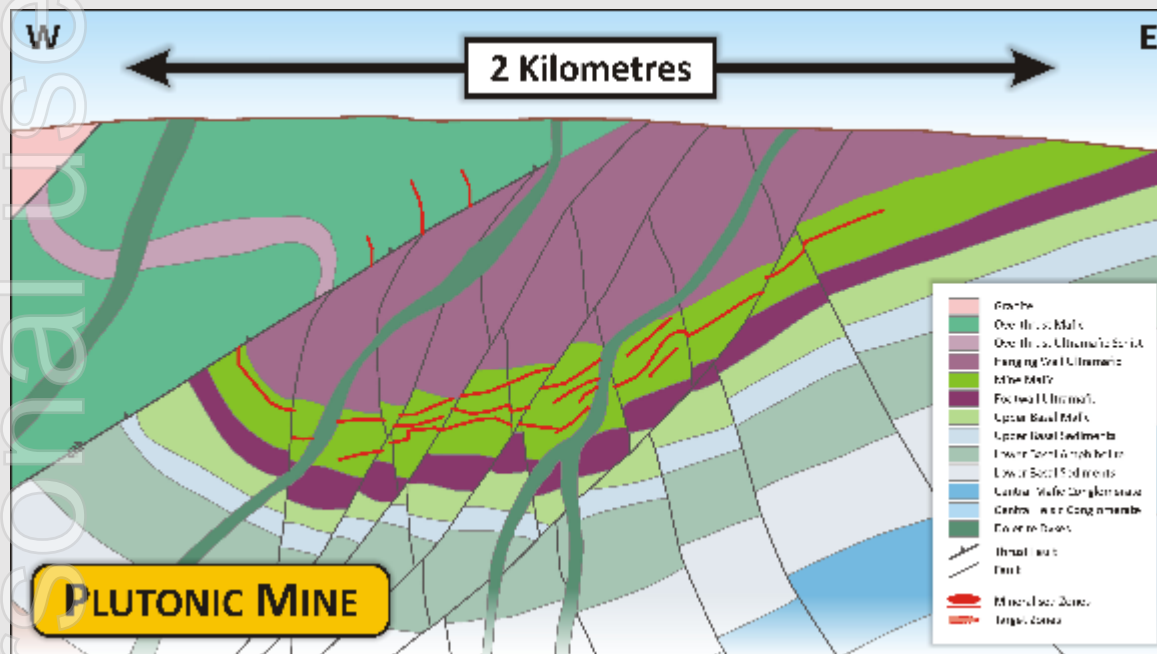


Open pit drill targets for 2021 field season at Marymia Project

# Marymia Project Exploration Model

## Trident Corridor – recognition of analogous setting to Plutonic Gold Mine

- Geological setting of Trident Corridor similar to >5.5<sup>1</sup> Plutonic Gold Mine, located immediately south of Marymia Project
  - Mine-Mafic stratigraphy hosts entire Plutonic deposit and identified in Trident footwall
  - High-grade gold mineralisation at Plutonic and Trident controlled by steeply dipping structures where they pass through the host units
  - Mine-Mafic stratigraphy at Trident is largely un-tested in 5km structural corridor
- Extensive shallow drilling database complemented by deeper geophysical data highlights high-priority, largely un-tested, multiple Plutonic look-a-like targets

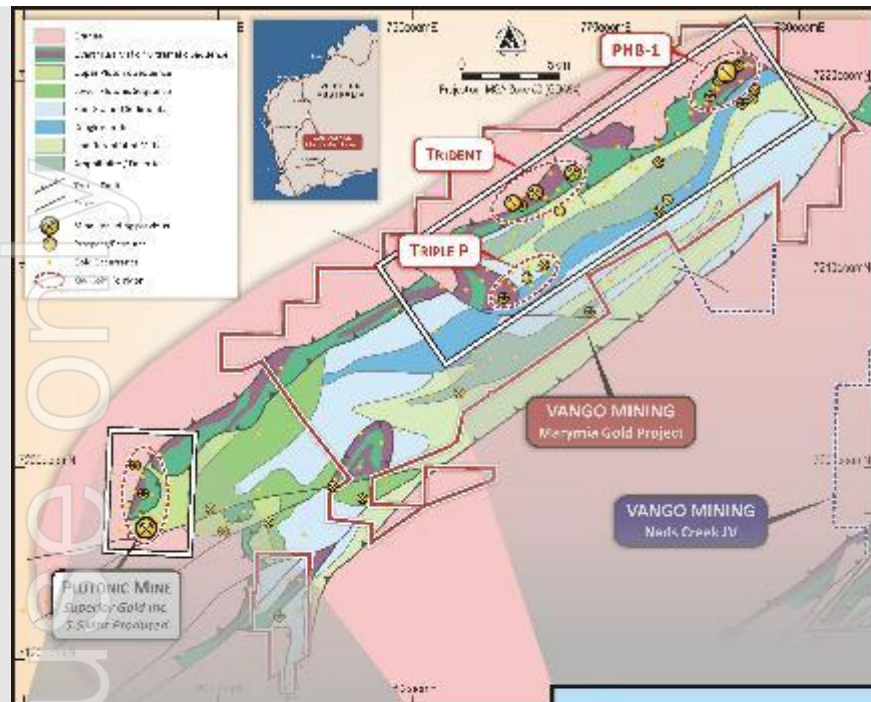


<sup>1</sup>Superior Gold Inc., TSX-V:SGI, 22/07/19 Corporate Presentation, Corporate Website [www.superior-gold.com](http://www.superior-gold.com)

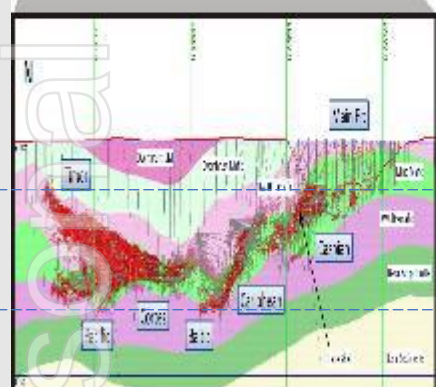
Cross section adapted by J Dugdale from B Bourne, "Orogenic Gold 2019" poster presentation.



# Marymia Gold Project – Untested Potential

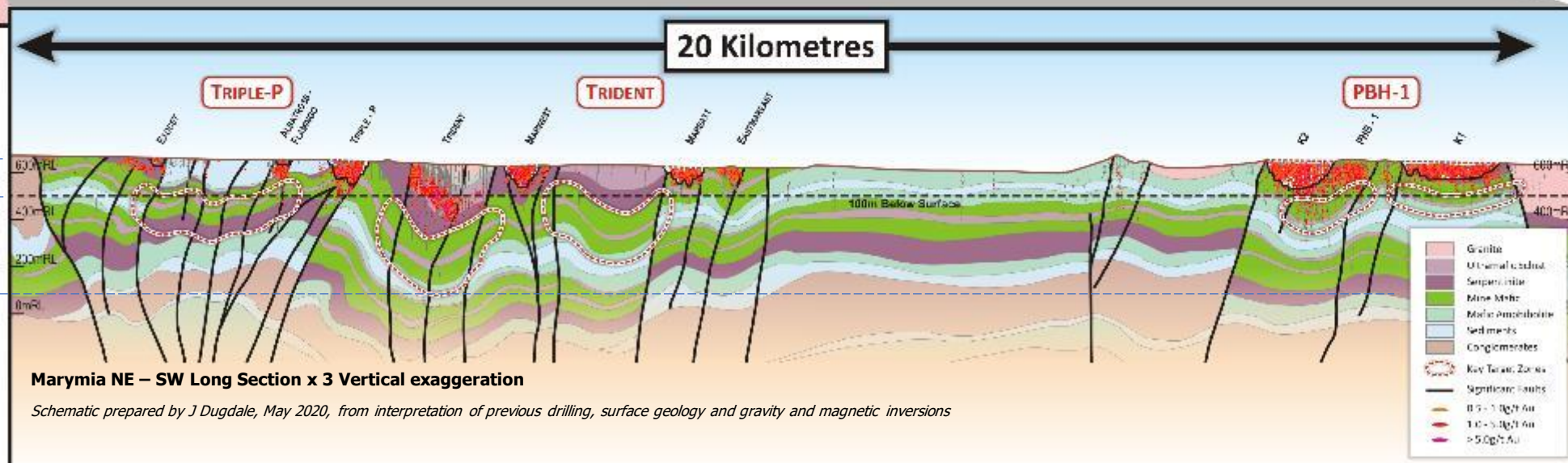


- To date exploration focused on only three key gold corridors over 20km strike with deeper Plutonic<sup>1</sup> look-a-like targets identified
- Plutonic Gold Mine mined/drilled to >600m for >5.5Moz produced to date<sup>1</sup>
- Marymia Project has extensive drilling and geological data base – project largely untested >100m depth
- Major upside potential at depth, and at other untested corridors within project area
- Drilling in current field season targeting open pits to deliver substantial additional near-surface ounces to existing Resource
- Further resource potential from nearby Ned's Creek Farm-in JV Project



**Plutonic N – S Section (>5.5Moz produced<sup>1</sup>)**

<sup>1</sup> Superior Gold Inc. Website <https://www.superior-gold.com/>

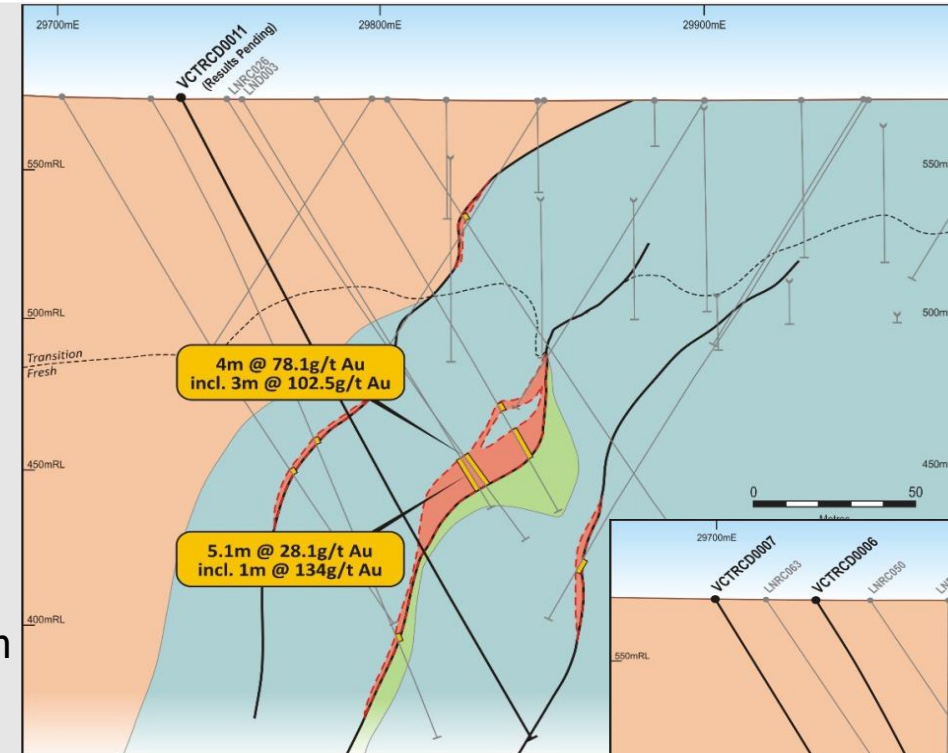


**Marymia NE – SW Long Section x 3 Vertical exaggeration**

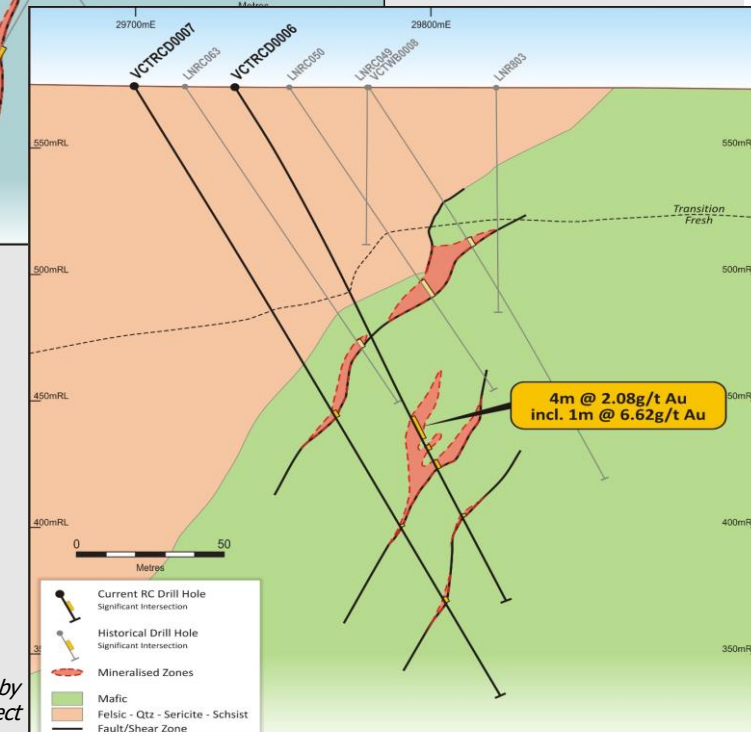
*Schematic prepared by J Dugdale, May 2020, from interpretation of previous drilling, surface geology and gravity and magnetic inversions*

# Ned's Creek Farm-in Joint Venture Project

- **Farm-In and JV** with Lodestar Minerals (ASX: LSR) at **Ned's Creek Project - Vango to earn a 51% interest** by expending \$5m on exploration over 3yrs from 2019
- **Latest drilling targeted the Contessa target** - confirmed the mineralised system continues at depth, plunging to north-east with mineralisation open to the north
- Significant results returned from this diamond drilling which targeted extensions to high-grade result in drill hole LNRC026<sup>2</sup>;
  - **4m @ 78g/t Au from 140m** in LNRC026<sup>2</sup>
  - 4m @ 2.1g/t from 144m incl 1m at 6.52g/t Au from 147m in VCTRCD006, collared 40m north east of LNRC026<sup>3</sup>
- **Results indicate continuity of structurally controlled alteration and gold mineralisation** within an extensive gold mineral system
- Aero magnetic and ground magnetic surveys to close gaps in the Lodestar data base – **plans for next phase of drilling to be finalised**



Cross section from drillhole LNRC026 drilled by Lodestar Minerals at Contessa target at Neds Creek Project



Cross section from drillhole VCTRCD006 drilling by Vango Mining at Contessa target at Neds Creek Project

<sup>1</sup> VAN ASX 01/05/2019 and 17/07/2019

<sup>2</sup> LSR ASX 22/05/2018 Outstanding RC Drill Results at Gidgee Flat and Contessa

<sup>3</sup> VAN ASX 18/02/2021 High Grade Gold Extensions at Trident



# Next Steps

- **2021 Field Season at Marymia Gold Project – minimum of 15,000m drilling to commence**
- **Results to be released progressively in H2, 2021**
- **Major Resource upgrade scheduled for H2, 2021**
- **Next phase of drilling at Ned's Creek Farm-in JV Project**
- **Mine Planning – ongoing in parallel**
- **Permitting/Approvals – ongoing in parallel**



# Thank you



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This market announcement was approved by the Company's Executive Chairman.

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Vision for the future



# Appendix 1: JORC 2012 Mineral Resource<sup>1</sup>

## MARYMIA GOLD PROJECT JORC 2012 MINERAL RESOURCE ESTIMATE MAY 2020

Deposit	Cut-off	Oxide			Transition			Fresh			Indicated			Inferred			Total		
Mineral Resource - Open Pit (OP):	Au g/t	K Tonnes	g/t Au	K Oz	K Tonnes	g/t Au	K Oz	K Tonnes	g/t Au	K Oz	K Tonnes	g/t Au	K Oz	K Tonnes	g/t Au	K Oz	K Tonnes	g/t Au	K Oz
Trident West OP	0.5	12	1.2	0.5	189	1.0	6.2	51	1.2	2.0	253	1.1	9				253	1.1	9
Marwest & Mars OP	0.5	10	2.1	0.7	162	2.0	10.6	515	2.0	33.2	688	2.0	45				688	2.0	45
Mareast OP	0.5	10	1.5	0.5	451	1.9	27.9	25	2.2	1.7	486	1.9	30				486	1.9	30
EastMareast OP	0.5	224	1.1	8.0	13	0.9	0.4				237	1.1	8				237	1.1	8
Wedgetail OP	0.5	154	1.7	8.3	31	1.7	1.7				185	1.7	10				185	1.7	10
PHB-1 (K3) OP	0.5	287	1.5	14.1	392	1.9	23.7	162	2.4	12.4	604	2.0	39	238	1.4	11	841	1.9	50
K1 OP	0.5	350	1.5	17.0	780	1.6	41.1	450	2.1	31.0	743	1.8	42	837	1.7	47	1,580	1.8	89
Triple-P & Triple-P Sth OP	0.5	189	1.2	7.4	293	1.5	13.7	637	2.1	42.3	633	2.1	42	486	1.4	21	1,120	1.8	63
Albatross & Flamingo OP	0.5	606	1.3	24.8	239	1.7	13.0	8	1.7	0.4				853	1.4	38	853	1.4	38
Cinnamon OP	0.5	513	1.6	26.9	470	1.8	26.7	1,025	2.0	65.1	1,472	1.8	86	536	1.9	32	2,008	1.8	119
<b>Total Open Pits</b>		<b>2,354</b>	<b>1.4</b>	<b>108</b>	<b>3,021</b>	<b>1.7</b>	<b>165</b>	<b>2,875</b>	<b>2.0</b>	<b>188</b>	<b>5,300</b>	<b>1.8</b>	<b>311</b>	<b>2,950</b>	<b>1.6</b>	<b>150</b>	<b>8,250</b>	<b>1.7</b>	<b>461</b>
Mineral Resource - Underground (UG):	Au g/t	K Tonnes	g/t Au	K Oz	K Tonnes	g/t Au	K Oz	K Tonnes	g/t Au	K Oz	K Tonnes	g/t Au	K Oz	K Tonnes	g/t Au	K Oz	K Tonnes	g/t Au	K Oz
Trident UG	3.0							1,590	8.0	410	945	9.4	285	645	6.0	125	1,590	8.0	410
K2 UG	3.0							374	8.9	107	197	10.6	67	177	7.0	40	374	8.9	107
Triple-P & Zone-B UG	3.0							170	4.3	24				170	4.3	24	170	4.3	24
<b>Total Underground</b>								<b>2,134</b>	<b>7.9</b>	<b>541</b>	<b>1,142</b>	<b>9.6</b>	<b>352</b>	<b>992</b>	<b>5.9</b>	<b>189</b>	<b>2,134</b>	<b>7.9</b>	<b>541</b>
<b>Total JORC 2012 Mineral Resource</b>		<b>2,354</b>	<b>1.4</b>	<b>108</b>	<b>3,021</b>	<b>1.7</b>	<b>165</b>	<b>5,009</b>	<b>4.5</b>	<b>729</b>	<b>6,442</b>	<b>3.2</b>	<b>663</b>	<b>3,942</b>	<b>2.7</b>	<b>339</b>	<b>10,384</b>	<b>3.0</b>	<b>1,002</b>

<sup>1</sup> VAN ASX 190520 Marymia Mineral Resource Increases to One Million Ounces

1. Mineral Resources reported in accordance with the Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves (Joint Ore Reserves Committee Code – JORC 2012 Edition).
2. Open pit resources reported within optimised conceptual pit shells at A\$2,500/oz gold price above a 0.5 g/t Au cut off and include oxide, transition and fresh material.
3. Trident underground resources are retained as first reported 18 April 2019, above a 3.0 g/t Au cut-off grade, and modelled at a gold price of A\$2,000/oz, on the basis that the information has not materially changed since last reported. Other underground resources reported above a 3.0 g/t Au cut off (with minor 2.5 g/t Au cut-off material included for continuity purposes) and includes fresh material only.
4. Totals may differ due to rounding, Mineral Resources reported on a dry in-situ basis.