



Investor Presentation

December 2021

3dresources.com.au



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COMPETENT PERSONS STATEMENT

Information relating to Exploration Results, geological data , and metallurgical testing has been compiled by Mr. Peter Mitchell. Mr Peter Mitchell is a Member (#104810) of the Australasian Institute of Mining and Metallurgy, the Institute of Materials, Minerals and Mining and the Canadian Institute of Mining, Metallurgy and Petroleum. He is Managing Director and paid by 3D Resources Ltd. Peter Mitchell has sufficient experience that is relevant to the style of mineralisation and types of deposits under consideration and to the activity being undertaken to qualify as a Competent Person (CP) as defined in the 2012 Edition of the ‘Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves’ (the JORC Code). Mr Peter Mitchell believes that these Resource Estimates fairly represent the resources the subject of this Report.

The information relating to JORC 2012 Resource Estimates and Pit Optimisation studies and Mine Plans which generated the Production Targets for the open cut mines were completed by Robin Rankin. Robin Rankin is a Competent Person who is a Member (#110551) of the Australasian Institute of Mining and Metallurgy (MAusIMM) and accredited since 2000 as a Chartered Professional (CP) by the AusIMM in the Geology discipline. Robin Rankin provided this information to his Client 3D Resources Limited as paid consulting work in his capacity as Principal Consulting Geologist and operator of independent geological consultancy GeoRes. He and GeoRes are professionally and financially independent in the general sense and specifically of their Client and of the Client’s project. This consulting was provided on a paid basis, governed by a (in this case an on-going engagement) scope of work and a fee and expenses schedule, and the results or conclusions reported were not contingent on payments. Robin Rankin has sufficient experience that is relevant to the style of mineralization and type of deposit under consideration and to the activity being undertaken to qualify as a Competent Person (CP) as defined in the 2012 Edition of the ‘Australasian Code for Reporting of Exploration Results, Mineral Resources and Ore Reserves’ (the JORC Code). Robin Rankin consents to the inclusion in the report of the matters based on his information in the form and context in which it appears.

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Investment Highlights



Adelong Goldfield (NSW) Projects

- Historic production of 800k ozs
- **Exploration permit covers 70km²**
- Mining permit covers 1.5km²
- **Initial target > Flagship Challenger Gold Project, given historical production and existing Resource**

170K Total JORC Resource¹

- **Challenger Deposit**
Resource of 80k ozs @3.77g/t Au
- **Currajong Deposit**
Resource of 45k ozs @ 2.61g/t Au
- **Donkey Hill Deposit**
Resource of 17k ozs @ 5.03g/t Au
- **Caledonian Deposit**
Resource of 30k ozs @ 5.94g/t Au

Significant Resource Potential

- Project Resources at the time 3D Resources acquired the project were 1.35Mt @ 2.9g/t Au (126,000oz)
- 3D Resources has **substantially increased the project resources** (36%) and average grade (26%) to the current project resources of 1.46Mt @ 3.67g/tAu (171,700oz)

Permitted with Processing Options

- Mining permit in place
- **Processing plant on site with 100% ownership**
- Potential to use the mullock to commission the upgraded plant and **generate early cashflow**

Near Term Production Target

- Metallurgical testing completed and confirms major part of the **gold can be recovered through a low-cost gravity process**
- Plant upgrades include **major increase in plant capacity** to improve process economics
- **Scoping studies expected to be completed in 1Q22**

¹ Refer ASX Announcements dated [29 September 2021](#) and [5 October 2021](#)



Directors & Key Management

Ian Hastings

Non-Executive Chairman

- A lawyer and accountant with many years experience in corporate finance, investment, securities markets compliance and regulation
- Has over 30 years' experience in the finance industry and regulatory bodies

Peter Mitchell

Executive Director (Managing Director)

- A qualified Geologist with experience in gold, uranium, mineral sands, and base metals projects, and is a former mining advisor to the Department of Mines and Energy, Northern Territory
- Has many years' experience in the mining industry and has worked on mining projects around the world

John Chegwidan

Non-Executive Director

- A Chartered Accountant with over 30 years' experience and has a strong knowledge of the mining and resources sector in Australia
- Key competencies in corporate advising, exploration, materials processing, marketing and financial management in relation to junior mining

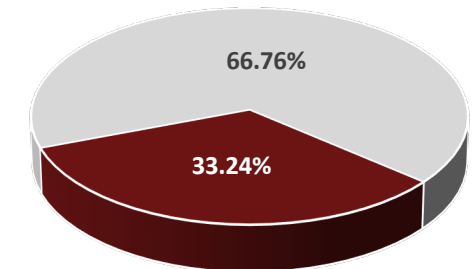
Andrew Draffin

Company Secretary

- Holds a Bachelor of Commerce and is a member of the Chartered Accountants Australia and NZ
- A Director, CFO and Company Secretary of listed, unlisted and private companies operating across a broad range of industries
- His focus is on financial reporting, treasury management, management accounting and corporate services, areas

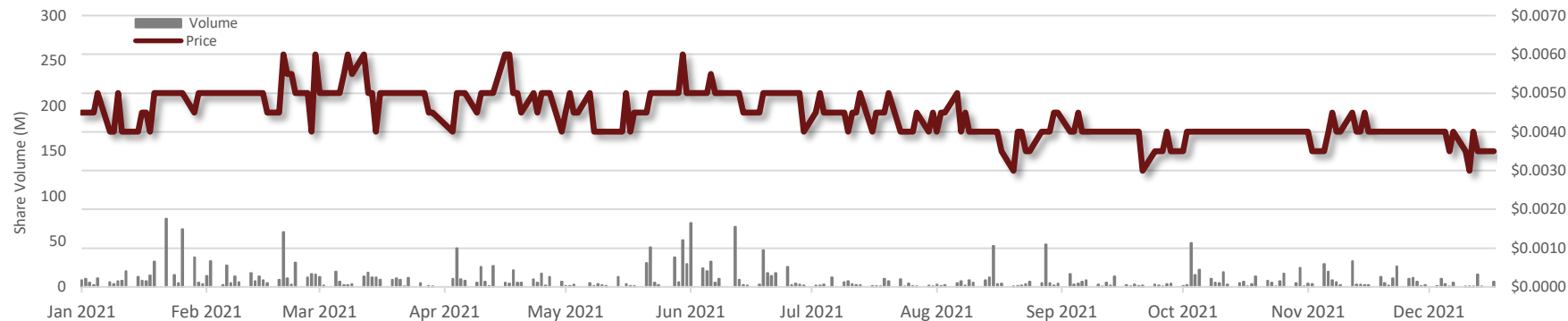
Shareholders

■ Top 20 Shareholders ■ Others



As of 20 Dec 2021

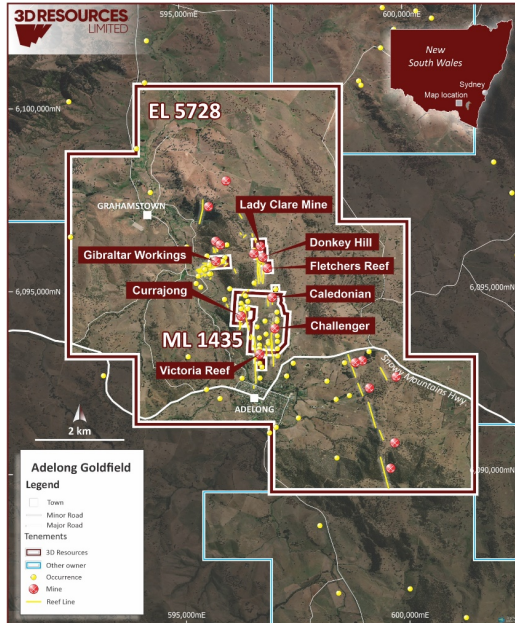
Share Price



Corporate

ASX Ticker	DDD
Share Price (as at 20 Dec 2021)	A\$0.0035
Shares on issue (30 Jun 2021)	3,880m
Options & Perf. Rights (30 Jun 2021)	375m
Market cap (undiluted)	A\$13.58m
Debt (30 Jun 2021)	A\$0.0m
52 week trading range	\$0.003 – \$0.006

Projects Overview



3D Resources Plant in Adelong, NSW

Adelong Goldfield

Historically the Adelong goldfield has produced around 800k ozs of gold. Many of the hard rock mines recorded very high grades averaging in excess of one ounce of gold per ton of ore.

Development Stage

Challenger Gold Project

- Initial Scoping Study completed
- Near term development option assessed
- Project Resource of 80k ozs @ 3.77g/t¹
- The high-grade veins continue to depth and will require access via a decline.
- Resource that can potentially be accessed via open cut mining

Currajong Gold Project

- Initial Scoping Study completed
- Open Cut Potential
- Project Resource of 45k ozs @ 2.61g/t¹
- Pockets of very high-grade ores were mined historically
- Larger lower grade mineralisation makes this an attractive target for open cut mining

Exploration Potential

Donkey Hill

- Project Resource of 17k ozs @ 5.03g/t¹
- Five parallel vein systems identified
- Drilling to be undertaken

Caledonian

- Project Resource of 30k ozs @ 5.94g/t¹
- Past drilling showed potential with high grades encountered

Sawpit

- Specific reports on the Sawpit area record the presence of lodes from 1 to 6 m wide assaying up to 60 g/t.

¹ Refer ASX Announcements dated [29 September 2021](#) and [5 October 2021](#)



Adelong Project

Approved for mining and operations at a modest scale and has resources for +15years life at that production rate. Staged development approach planned to get into early production and expand with additional mines approved for development



Aerial photo showing current Plant and Mine

Development Stage	
Processing Plant	Mining
<ul style="list-style-type: none"> Plans to upgrade the Processing Plant to increase plant capacity to 35t/hr and improve recoveries Operate plant on a single shift basis within current approvals but expand as new mines are approved for development Install a major new gravity circuit to lower costs and simplify operations. 	<ul style="list-style-type: none"> Open Cut mining at both Challenger and Currajong with potential for underground mining below the pits. Mullock dumps now commercial to treat with the plant upgrades as confirmed by metallurgical test work Other deposits need additional drilling
Exploration Potential	
Regional	Local
<ul style="list-style-type: none"> Major Structures such as Wondalga Shear never drilled or explored and could host major deposits Detailed Ground Magnetics unravelling controls on mineralisation and structures 	<ul style="list-style-type: none"> Historical drilling records and added drilling can potentially expand resources Additional geochemical soil sampling in areas like Paley's and Lady Mary target drilling where mineralised structures present

Initial Scoping Study – Adelong Gold Project



3D RESOURCES DELIVERS A POSITIVE INITIAL SCOPING STUDY FOR THE ADELONG GOLD PROJECT



An Attractive Commercial Project

- Establishes a **viable** project for the Challenger Deposit
- Demonstrates viability of **open cut** mining operations for the Currajong deposits
- Further drilling is required to fully assess the remaining resources and once completed a **full scoping study** will be released



Further Upside Opportunities

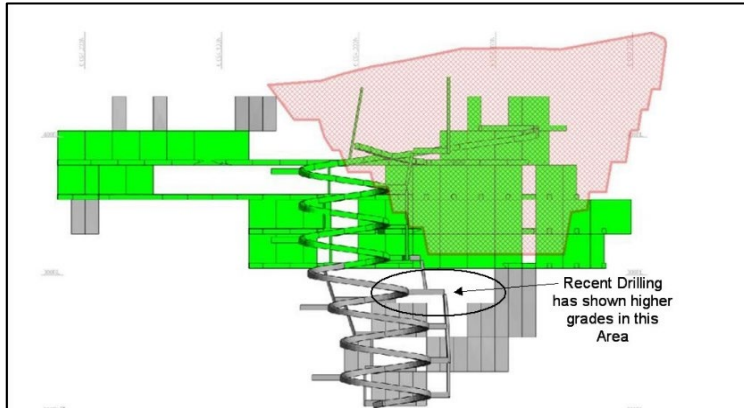
- Has only assessed the economics based on mining **~40%** of the current published resources at Adelong
- Allows on-going exploration and evaluation work to fully define the excellent opportunities for establishing a bigger **long term** mining project



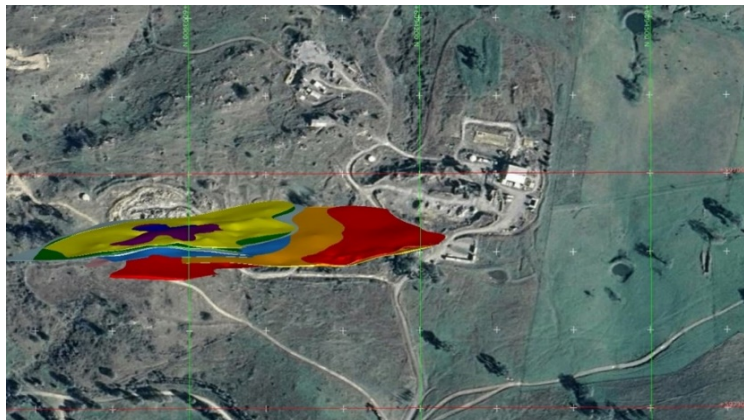
Potential for Improved Viability of Entire Project

- Full Adelong Scoping Study to be finalised once some of the inferred resources, representing a **further ~20%** of the project resources, are upgraded
- Based on some preliminary work completed to date, this could **add significantly** to the viability of the entire project

Initial Scoping Study – Objectives



Longitudinal Section overlaying the Challenger open cut mine plan (red) on the planned underground mine stope blocks (green)



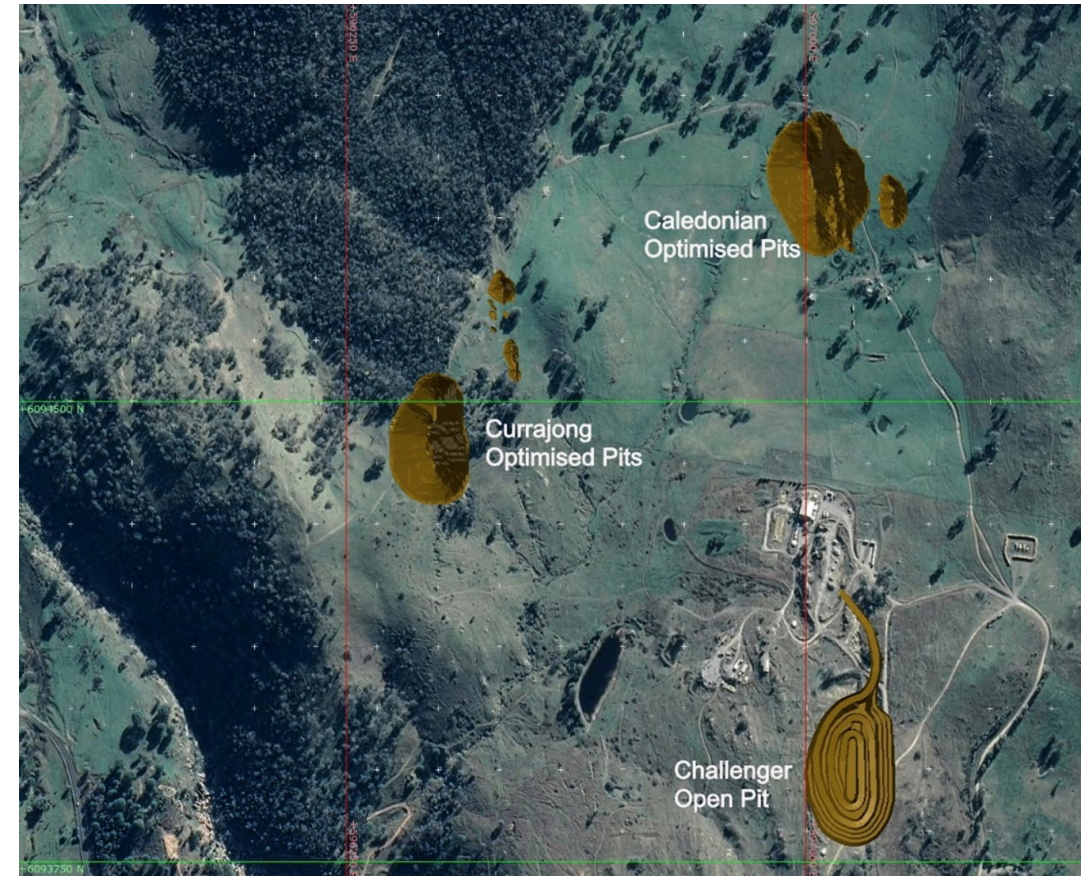
Challenger Vein System showing the location of the veins relative to the Plant (North to Right)

To assess the different development and processing options

To demonstrate the viability of the project

To prepare a plan on which exploration continued to upgrade the Inferred Resources for inclusion in the final Scoping Study

To provide the details on which discussions could be held with the NSW Government, local Council and local Community



Position of the Challenger and Currajong, and Central Processing Plant. An initial Pit Optimisation study on the Caledonian Deposit showed the potential to recover 70% of the gold in current Inferred Resources . However further exploration required to verify resources

Initial Scoping Study – Investment Highlights



Various mining and processing options were considered with the final selection (Base Case) presented in the following table

Study relates to only **40%** of JORC resources = **Substantial further upside potential exists**

Forecast cashflow from production from 40% of resources (after Initial Capital Investment) = **\$62M**

Forecast Net cash return (including Initial Capital Investment) = **\$51M**

Inferred resources of **30,000 oz** at Caledonian excluded = Expected to add to \$62M once further drilling completed and resources reclassified

Initial capital investment of **\$11.2M** not expected to change when Caledonian resource brought in = Caledonian will go straight to bottom line

Table 1 - Summary of the financial analysis
(Based on US\$1,850/oz Gold and Exchange Rate \$A0.73)

SCOPING STUDY SUMMARY	
Initial Capital Costs (\$M)(Excludes Working Capital)	\$11.20
Mine Life	5 Years
Production based on Initial Scoping Study(gold oz)	67,579 ²
Cash Flow (A\$M)	
Revenue (\$M)	\$170.40
OPEX (\$M)	\$100.24
Production CAPEX (\$M)	\$7.90
PRODUCTION CASHFLOW (Before Tax)(\$M)	\$62.26
Initial Capital Costs (\$M)(Excludes Working Capital)	\$11.20
NET CASH FLOW(Before Tax) (\$M)	\$51.06
IRR % (Before Tax)	62%
NPV (5%) Before Tax (\$M)	\$39.20

For more in-depth information, please refer to ASX Announcement 18 November 2021¹ : [“3D Resources Delivers A Positive Initial Scoping Study For The Adelong Gold Project NSW”](#)

¹ - The Company confirms it is not aware of any new information or data that materially affects the information included in the relevant market announcement and, in the case of estimates of mineral resources, that all material assumptions and technical parameters underpinning the estimates in the relevant market announcement continue to apply and have not materially changed

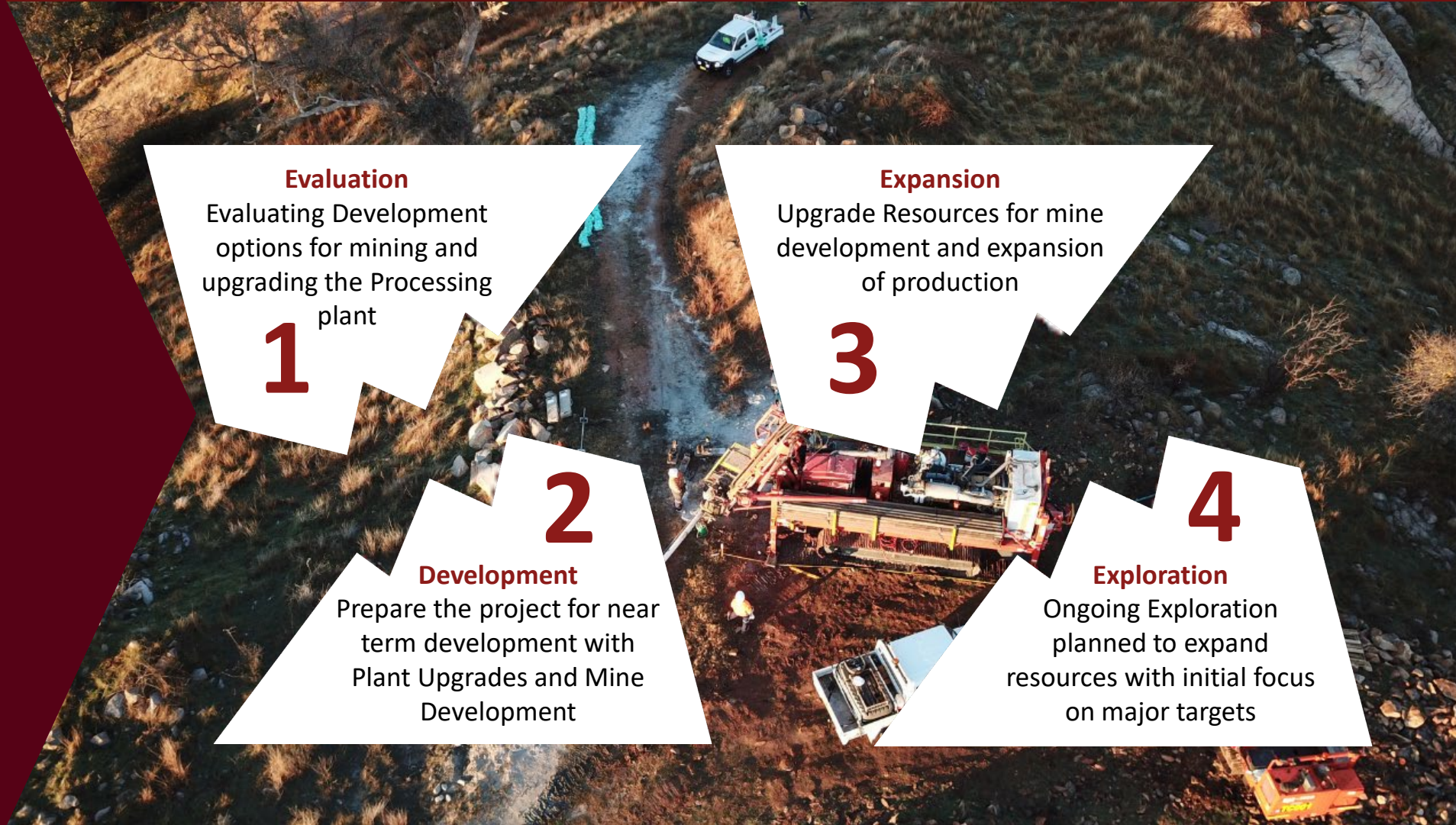
² - Approximately 11% of the resources used in this Production Target are in the Inferred Mineral Resource category. As there is a low level of geological confidence associated with Inferred Mineral Resources, there is no certainty that further exploration work will result in the determination of further Measured or Indicated Mineral Resources or that the Production Target or preliminary economic assessment will be realised



Strategic Plan

Completion of Initial Scoping Study is the first link

Focused on near term cash flow options to fund exploration



Evaluation

Evaluating Development options for mining and upgrading the Processing plant

1

Expansion

Upgrade Resources for mine development and expansion of production

3

2

Development

Prepare the project for near term development with Plant Upgrades and Mine Development

4

Exploration

Ongoing Exploration planned to expand resources with initial focus on major targets

Road Map



Complete drilling at Caledonian,
Resource reassessment and finalise
Scoping Study
Exploration continue

Q1 2022

Proceed with Construction and
Development
Ongoing Exploration

Q3 2022

Production Commences on
Mullock and Challenger ores
Approvals for expansion
continue

H1 2023

Q2 2022

Q4 2022

H2 2023

Finalise approvals, finance development
and let contracts
Exploration continues

Complete Development and start
commissioning of the Plant
Seeking approvals for new
mines/expansion

Production Continues
Continued Exploration
And progressing government approvals
for expansion

Projects



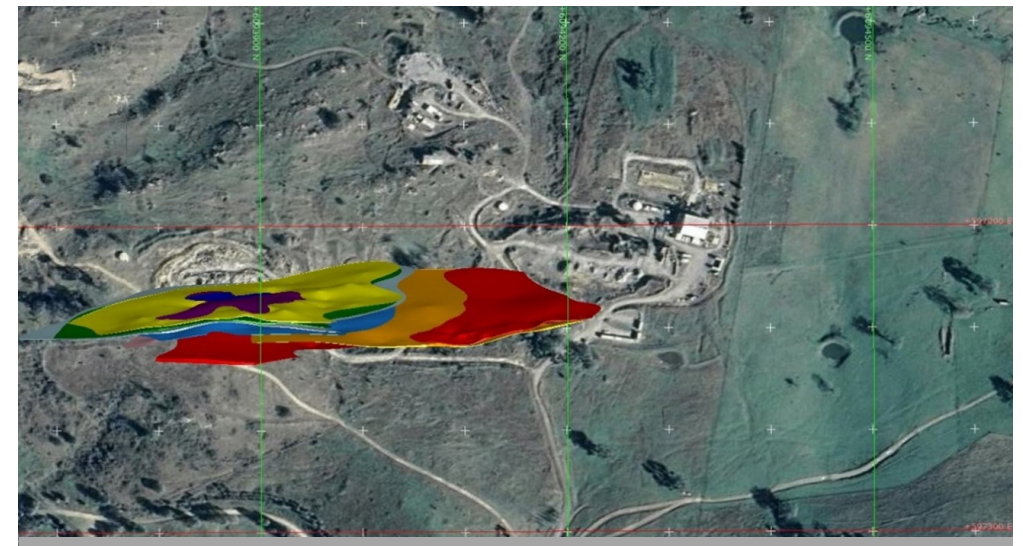
Adelong Goldfield – Overview



- The goldfield produced >800,000ozs of gold from within the company's licenses
- Gold mineralisation occurs in a series of sub-parallel shears that can be traced through the Wondalga Granodiorite for >4km with the major shears hosting the main mines
- Main mines located in hills north of Adelong Township and mined at very high grades averaging in excess of one ounce of gold per ton of ore
- Major Wondalga Shear located below alluvial cover of Adelong Creek, a major structural target never tested.
- Other major mineralised structures such as the Sawpit to Lady Mary zone and Paley's reef as well as a number of structures identified from the recent detailed ground magnetic survey offer further targets



Plant looking south with Adelong Township in the Background



Challenger Vein System showing the location of the veins relative to the Plant (North to right)

Challenger Gold Project



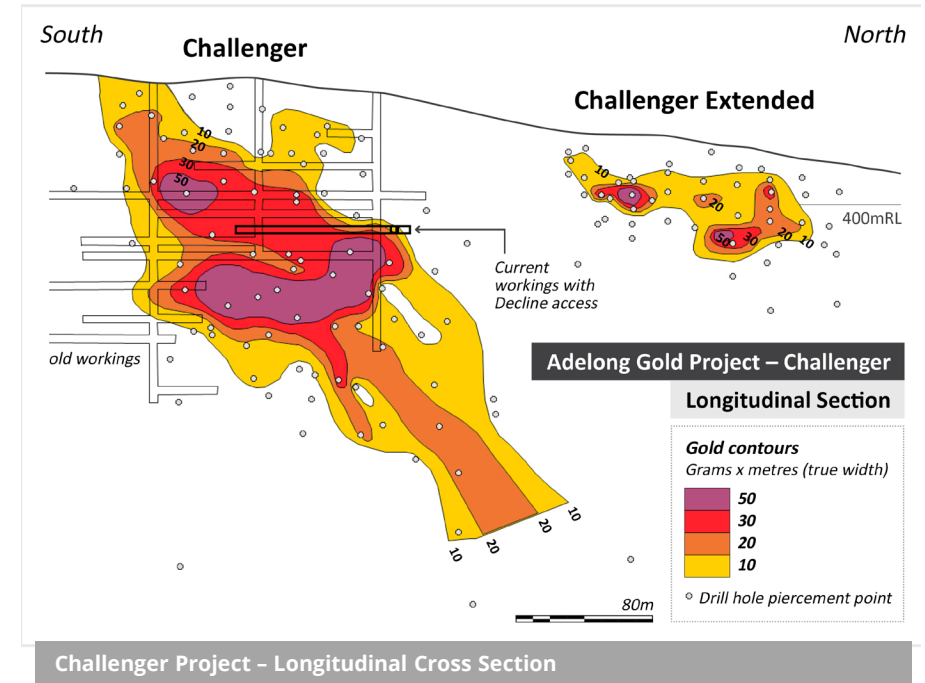
Near Term Development Option

- Two separate parallel veins mined in the past with average grades mined estimated to be **80g/t Au** (3.77oz of gold per ton).
- Between these two shear hosted veins is a breccia zone up to 15metres wide that represents resources to be mined at Challenger.
- Veins continue to depth and therefore scope for high grade ores at depth. Challenger Extended is northern extension to largely unexplored deposit at depth.
- Decline has provided access to a level approximately 80m below.
- High-grade veins continue to depth and will require access via a decline.

Challenger Project JORC Code compliant Mineral Resource Estimate (1g/t Au cutoff)¹

Resource Class	Proportion by oz	Tonnes (t)	Gold (g/t)	Gold (oz)
Measured	60%	357,000	4.17	47,900
Indicated	23%	163,000	3.50	18,300
Inferred	17%	144,000	3.07	14,100
Total	100%	663,000	3.77	80,300*

* errors due to rounding



- This longitudinal section shows the distribution of gold mineralisation in the Challenger Mine.
- The blue dashed line outlines the resources that can potentially be accessed via open cut mining based on earlier pit optimisation studies

¹ Refer ASX Release dated 5 October 20211

Currajong Gold Project

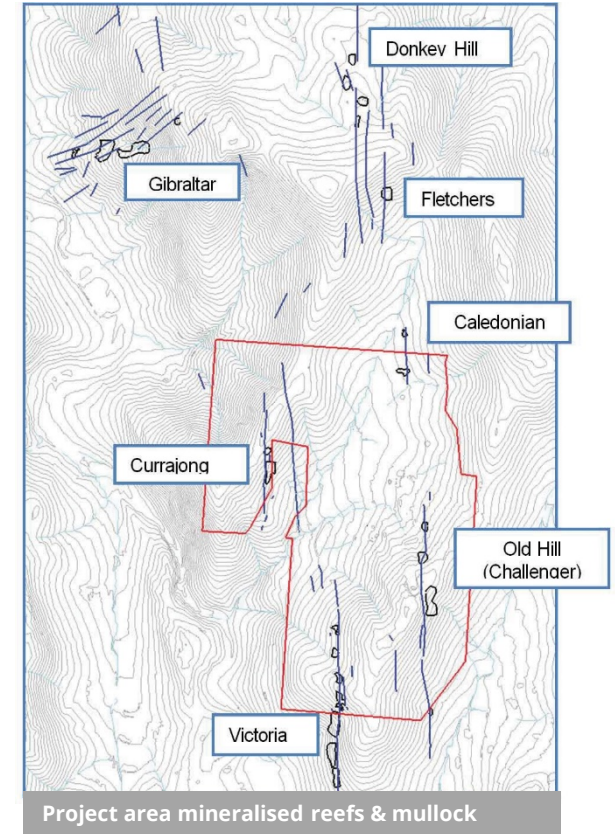
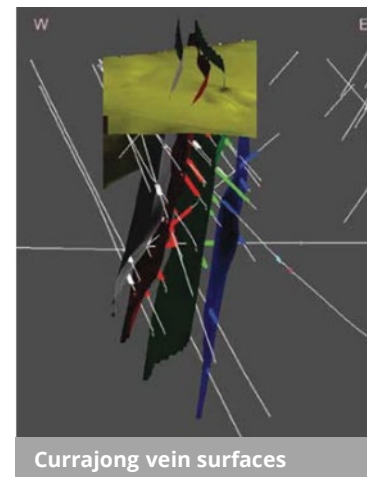


Open Cut Potential

- Currajong Mine has largely worked high grade pockets within the “Main reef”
- Drilling and records show a series of vein deposits with main vein up to 17m wide and formed by brecciated silicified rock
- While much of historic mining was via shafts to about 100m, an adit level development was driven 250m in from Adelong Creek that gives access to Currajong at around 150m below surface
- This deposit offers potential for larger lower grade deposit that is an attractive target for open cut mining
- But also potential for lower cost underground mining from the adit level development

Currajong Project JORC Code compliant Mineral Resource Estimate (1g/t Au cutoff)¹

Resource Class	Proportion by oz	Tonnes (t)	Gold (g/t)	Gold (oz)
Measured	-	-	-	-
Indicated	22%	126,000	2.57	10,400
Inferred	78%	407,000	2.63	34,400
Total	100%	533,000	2.61	44,800



¹ Refer ASX Release dated 17 August 2020 for associated JORC tables and details

Additional Adelong Goldfield Projects



Exploration for Additional Inferred Resources

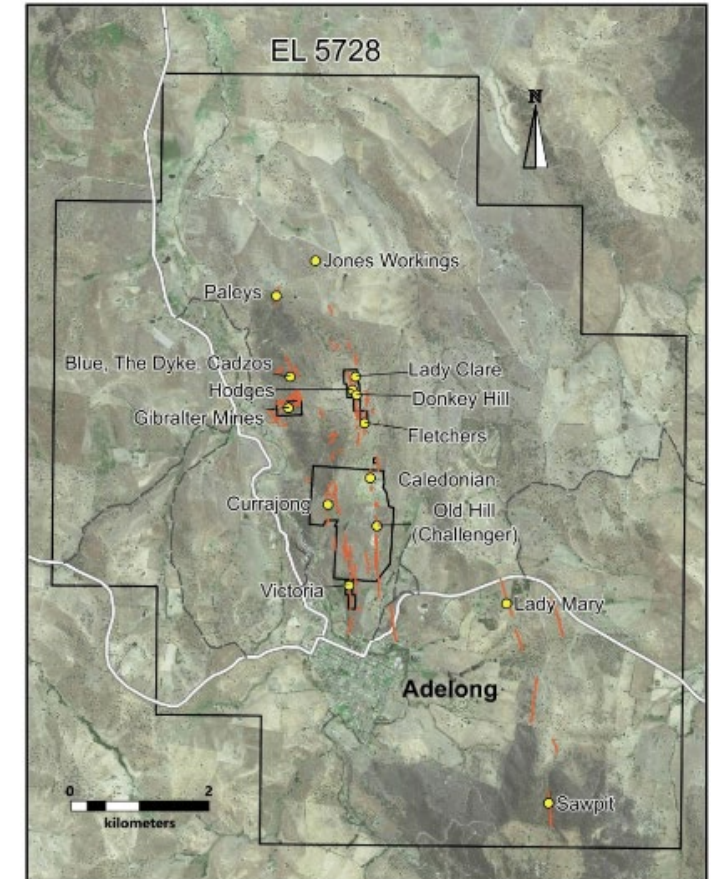
Additional resources at Donkey Hill, Caledonian and Currajong East were announced in August 2020 that increased the total project resources for Adelong by 42% to 180,600oz. As noted in the announcement most deposits offered potential to increase resources further as they were open at depth and along strike.

DONKEY HILL deposit		Tonnes (t)	Au (g/t)	Au (oz)
Measured	-	-	-	-
Indicated	-	-	-	-
Inferred	100%	103,000	5.03	16,600
Total	100%	103,000	5.03	16,600

CALEDONIAN deposit		Tonnes (t)	Au (g/t)	Au (oz)
Measured	-	-	-	-
Indicated	-	-	-	-
Inferred	100%	157,000	5.94	30,000
Total	100%	157,000	5.94	30,000

Most major historical mines have been drilled and have generated gold intersections but none have been explored in sufficient details to generate a resource. In addition to the major historic producers, there are lines of mineralised shears at Paley's to the north and Sawpit to Lady Mary to the south east that have largely been unexplored.

Ample scope to expand resources but initial focus is on upgrading the existing resources to expand production but also target the major structures like the Lady Mary to Sawpit line and to assess the potential for mineralisation in the Wondalga Shear.



Map showing projects in the Adelong Region

¹ Refer ASX Release dated 17 August 2020

Plant & Development Options



Ability To Produce Gold Onsite

Plant

- Project acquisition included all plant and equipment from past operation. Various studies show plant will require upgrading and reconfiguring to operate efficiently
- Extensive metallurgical testing was undertaken to determine the best commercial options for upgrading the Plant
- Metallurgical testing showed a major portion of gold can be recovered as a concentrate using simple spirals at fairly coarse grind size. The Project is approved for the use of cyanide so concentrates and fines generated in the mill will be cyanided
- Combined with planned upgrades to crushing and grinding circuit, Company plans to increase plant throughput from around 6t/hr to 35t/hr and produce gold dore on site

Upgrade and Reconfigure



Development Options

3D Resources is undertaking a review of the development options:

- Plant economics suggest a processing cost of around 0.5g/tAu is possible making most of the mullock commercial to treat in a gravity circuit.
- A review of contract mining options for developing Challenger orebody as an open cut operation (with possibly underground extensions) has shown to be viable
- Processing plant can be turned to a 24h/day operation to expand production once additional mines are approved for development
- Regional exploration programs are viewed as providing an option for major additional future expansion of the project



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Appendix – Resources Statement (JORC 2012) for Adelong Project based on 1g/tAu Cutoff



- 3D Resources has substantially increased the project resources since acquiring the project in 2020 by 36% in terms of ounces of Gold and the average grade has increased by 26%.
- The current project resources stand at 1.46Mt @ 3.67g/tAu (171,700oz¹) - see table for details.
- Many of these resources open at depth and along strike
- Additional mineralised major structures are present that remain largely untested

Resources Statement (JORC 2012) for the Adelong Gold Project based on 1g/tAu Cutoff				
CHALLENGER deposit		Tonnes (t)	Au (g/t)	Au (oz)
Measured	60%	357,000	4.17	47,900
Indicated	23%	163,000	3.50	18,300
Inferred	17%	144,000	3.07	14,100
Total	100%	663,000	3.77	80,300
CURRAJONG deposit		Tonnes (t)	Au (g/t)	Au (oz)
Measured	-	-	-	-
Indicated	22%	126,000	2.57	10,400
Inferred	78%	407,000	2.63	34,400
Total	100%	533,000	2.61	44,800
DONKEY HILL deposit		Tonnes (t)	Au (g/t)	Au (oz)
Measured	-	-	-	-
Indicated	-	-	-	-
Inferred	100%	103,000	5.03	16,600
Total	100%	103,000	5.03	16,600
CALEDONIAN deposit		Tonnes (t)	Au (g/t)	Au (oz)
Measured	-	-	-	-
Indicated	-	-	-	-
Inferred	100%	157,000	5.94	30,000
Total	100%	157,000	5.94	30,000
TOTAL ADELONG GOLD PROJECT RESOURCES*		Tonnes (t)	Au (g/t)	Au (oz)
Measured	25%	357,000	4.17	49,700
Indicated	20%	289,000	3.09	29,200
Inferred	55%	811,000	3.65	95,400
Total	100%	1,457,000	3.67	171,700

¹ Refer ASX Releases dated 29 September 2021 and 5 October 2021