

## Spec. buy

Current Price **\$1.21**  
Valuation **\$1.60**

Code: **DEG**  
Sector: **Materials**

\* All figures in AUD unless stated otherwise

Shares on Issue (M): **1,288**  
Market Cap (\$M): **1,552**  
Net cash (\$M March 2021) **87**  
Enterprise value (\$M): **1,437**

52 wk High/Low (ps): **\$1.61** **\$0.61**  
12m av. daily vol. (Mshs): **7.63**

### Key Metrics

	FY24e	FY25e	FY26e
P/E (x)	9.6	5.0	5.1
EV/EBITDA (x)	6.4	3.1	3.1

### Financials:

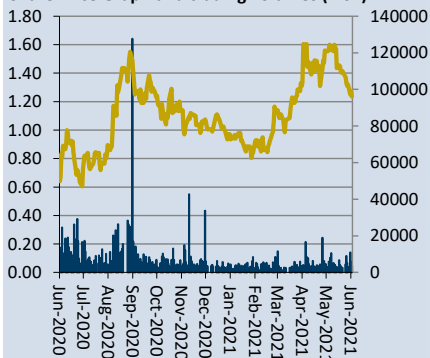
	FY24e	FY25e	FY26e
Revenue (\$M)	447	895	895
EBIT (\$M)	205	390	386
NPAT (A\$M)	161	309	307
Net assets (\$M)	500	805	1,087
Op CF (\$M)	203	377	377

### Per share data:

EPS (c)	12.5	24.0	23.8
Dividend (cps)	0.0	0.0	0.0
Yield (%)	-	-	-
CF/Share (cps)	15.8	29.3	29.3

Prod (koz Au) 191.7 383.4 383.4

### Share Price Graph and trading volumes (msh)



Please refer to important disclosures at end of the report (from page 8)

Friday, 2 July 2021

## De Grey Mining Ltd (DEG)

### Go northwest

John Macdonald, Royce Haese

### Quick Read

Its not just about ounces at Hemi. De Grey can also plan for solid margins for shareholders.

### Main points

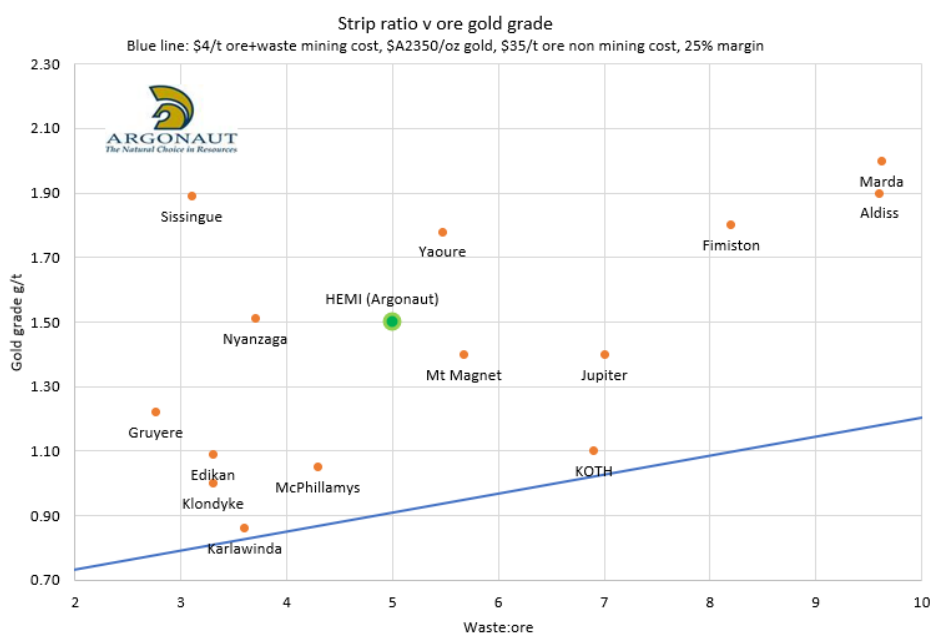
**First numbers:** De Grey plans to set out a scoping study for the Mallina project by the end of September 2021, giving its first indications of development plans. We will be interested in the single combination of three parameters underpinning our operational forecasts;

1. Average ore grade.
2. Average waste:ore ratio.
3. Total ounces in the mine plan.

We have put up a 3.8Mozs, 1.5 g/t and 5:1 trinity as our speculative starting point for Hemi, implying 3.8M good quality ounces with better than average project margins.

Under basic cost and gold price assumptions, 3.8Mozs, 5:1 and 1.5 g/t produces a better outcome than 4.4Mozs, 4.7:1 and 1.3 g/t. Grade and strip ratio don't grab the headlines, but they can more than offset growth in ounces.

Fig. 1: Selected gold projects, SR v grade, including Argonaut's Hemi assumptions.



Source: Argonaut Research

### Recommendation

Argonaut maintains a speculative buy recommendation and a valuation of \$1.60/share. Both development and exploration prospects will mature over the next 12 months, we think with positive effect.

## De Grey Mining

## Equities Research

Analyst: John Macdonald

Recommendation	Speculative buy
Current Price	\$1.21
Valuation	\$1.60

Sector	Metals & Mining
Issued Capital (Mshs)	1,288
Market Cap (M)	\$1,552
	Thursday, 1 July 2021

Profit & loss (\$M) 30 June	2021E	2022E	2023E	2024E
Sales Revenue	0	0	0	447
+ Other income/forwards	0	0	0	0
- Operating costs	0	0	0	-194
- Royalties	0	0	0	-18
- Corporate & administration	-10	-10	-10	-10
<b>Total Costs</b>	<b>-10</b>	<b>-10</b>	<b>-10</b>	<b>-222</b>
<b>EBITDA</b>	<b>-10</b>	<b>-10</b>	<b>-10</b>	<b>226</b>
- margin	0%	0%	0%	50%
- D&A	0	0	0	-21
<b>EBIT</b>	<b>-10</b>	<b>-10</b>	<b>-10</b>	<b>205</b>
+ Finance Income/Expense	0	0	0	-3
<b>PBT</b>	<b>-10</b>	<b>-10</b>	<b>-10</b>	<b>201</b>
- Tax expense	2	1	2	-40
- Impairments and other				
<b>NPAT</b>	<b>-8</b>	<b>-9</b>	<b>-8</b>	<b>161</b>

Cash flow (\$M)	2021E	2022E	2023E	2024E
+ Revenue	0	0	0	447
- Cash costs	-10	-10	-10	-222
- Forwards	0	0	0	0
-Tax payments	0	1	0	-19
+ Interest & other	0	0	0	-3
<b>Operating activities</b>	<b>-10</b>	<b>-10</b>	<b>-10</b>	<b>203</b>
- Property, plant, mine devel.	-15	-41	-301	-404
- Exploration	-32	-32	-32	-20
<b>Investment activities</b>	<b>-47</b>	<b>-73</b>	<b>-333</b>	<b>-424</b>
+ Borrowings	0	0	100	300
- Dividends	0	0	0	0
+ Equity	103	1	300	0
<b>Financing activities</b>	<b>103</b>	<b>1</b>	<b>400</b>	<b>300</b>
<b>Cash change</b>	<b>46</b>	<b>-81</b>	<b>57</b>	<b>79</b>

Balance sheet	2021E	2022E	2023E	2024E
<b>Cash &amp; bullion</b>	<b>74</b>	<b>-7</b>	<b>50</b>	<b>129</b>
Other Current Assets	0	0	0	0
<b>Total current assets</b>	<b>74</b>	<b>-7</b>	<b>50</b>	<b>129</b>
Property, plant & equip.	65	106	407	791
Investments/other	0	0	0	0
<b>Total non-curr. assets</b>	<b>65</b>	<b>106</b>	<b>407</b>	<b>791</b>
<b>Total assets</b>	<b>139</b>	<b>99</b>	<b>457</b>	<b>919</b>
Trade payables	5	10	5	57
Short term borrowings	0	0	0	120
Other	13	10	80	82
<b>Total curr. liabilities</b>	<b>18</b>	<b>21</b>	<b>86</b>	<b>140</b>
Long term borrowings	0	0	100	280
Other	0	0	0	0
<b>Total non-curr. liabil.</b>	<b>0</b>	<b>0</b>	<b>100</b>	<b>280</b>
<b>Total liabilities</b>	<b>18</b>	<b>21</b>	<b>186</b>	<b>420</b>
<b>Net assets</b>	<b>121</b>	<b>78</b>	<b>271</b>	<b>500</b>

Shares	2021E	2022E	2023E	2024E
New shs issued/exerciseable	118	4	201	0
Average issue price	0.88	0.35	1.50	0.00
Ordinary shares - end	1291	1294	1495	1495
Diluted shares - end	1295	1295	1495	1495

Financial ratios		2024E	2025E	2026E	2027E
GCFPS	Ac	15.8	29.3	29.3	29.2
CFR	X	7.6	4.1	4.1	4.1
EPS	Ac	12.5	24.0	23.8	23.7
PER	X	9.6	5.0	5.1	5.1
DPS	Ac	0.0	0.0	0.0	0.1
Yield	%	0.0%	0.0%	0.0%	5.0%
Interest cover	x	63.0	109.8	164.3	332.6
ROCE	%	26%	53%	58%	63%
ROE	%	40%	48%	35%	33%
Gearing	%	56%	20%	4%	3%

Operations summary	2024E	2025E	2026E	2027E
<b>Pilbara project</b>				
Ore processed (Mt)	4.1	8.2	8.2	8.2
Head grade (g/t)	1.51	1.51	1.51	1.51
Met. recovery	0.96	0.96	0.96	0.96
Gold prodn (koz)	192	383	383	383
Cost per milled tonne (A\$/t)	47	48	48	48
Cash costs pre royalty (A\$/oz)	1104	1110	1117	1124
Sustaining capital (\$M)	0	0	0	0
All in sustaining costs (A\$/oz)	1198	1203	1210	1217
Growth capital (\$M)	404	8	9	8
CAIC (A\$/oz)	3488	1435	1435	1436

Price assumptions	2024E	2025E	2026E	2027E
AUDUSD	0.75	0.75	0.75	0.75
Gold	1750	1750	1750	1750

Valuation summary	A\$M	A\$/sh
Mallina project 7% real after tax DR	1665	1.29
Exploration, all sites	416	0.32
Corporate overheads	-52	-0.04
Cash	87	0.07
Debt	0	0.00
Tax benefit	15	0.01
Hedging	0	0.00
Option/equity dilution	-64	-0.05
<b>NAV</b>	<b>2,067</b>	<b>1.60</b>

Directors, management	
Simon Lill	Non-Executive Chairman
Glenn Jardine	Managing Director
Andy Beckwith	Executive Director
Peter Hood	Non-Executive Director
Ed Eshuys	Non-Executive Director
Bruce Parncutt	Non-Executive Director

Top shareholders	M shs	%
DGO Gold Limited	193.0	15.0
Van Eck	65.0	5.0
Northwest Nonferrous	51.0	4.0

Resources June '20	Mt	g/t Au	Kozs	Mkt cap/oz
<b>Pilbara gold project</b>	<b>37.4</b>	<b>1.80</b>	<b>2,163</b>	<b>717</b>
Measured & indicated	18.9	1.70	1,033	
Inferred	18.5	1.90	1,130	

Argonaut model Dec '20	Mt	g/t Au	Kozs	
<b>TOTAL INVENTORY</b>	<b>98.0</b>	<b>1.52</b>	<b>4,785</b>	<b>324</b>
Hemi open pit	80.0	1.50	3,859	
Satellite open pit	18.0	1.60	926	

## Hemi's pit trinity

Argonaut initially figured about 3.8Mozs in a pit plan at Hemi, with an average ore grade of 1.5 g/t and average strip ratio of 5:1. As we said in a previous note, De Grey's maiden resource estimates can be squared with our ounces and grades. However until the Company outlines some pit designs with waste:ore estimates, we are still not much closer to narrowing down project economics.

De Grey plans to set out a scoping study for the Mallina project by the end of September 2021, giving its first indications of development plans. We will be interested in the pit trinity, which is a single combination of three parameters underpinning our operational forecasts;

1. Average ore grade.
2. Average waste:ore ratio.
3. Total ounces in the mine plan.

Our thoughts on each;

1. **Average ore grade.** Once brought to surface, ore through the mill should carry enough gold to pay for processing, administration and a margin. 0.5 g/t equates to about \$35/t at present, so a 0.5 g/t bottom cutoff may be used if treatment costs, admin costs plus a margin are set at \$35/t. De Grey will have scale and good logistics, but also a refractory aspect, and \$25/t processing seems reasonable. At a 0.5 g/t bottom cutoff De Grey estimates average grades of between 1.5 and 1.3 g/t for indicated and inferred resources. Hence we think 1.3-1.5 g/t is a reasonable range of average grade outcomes.

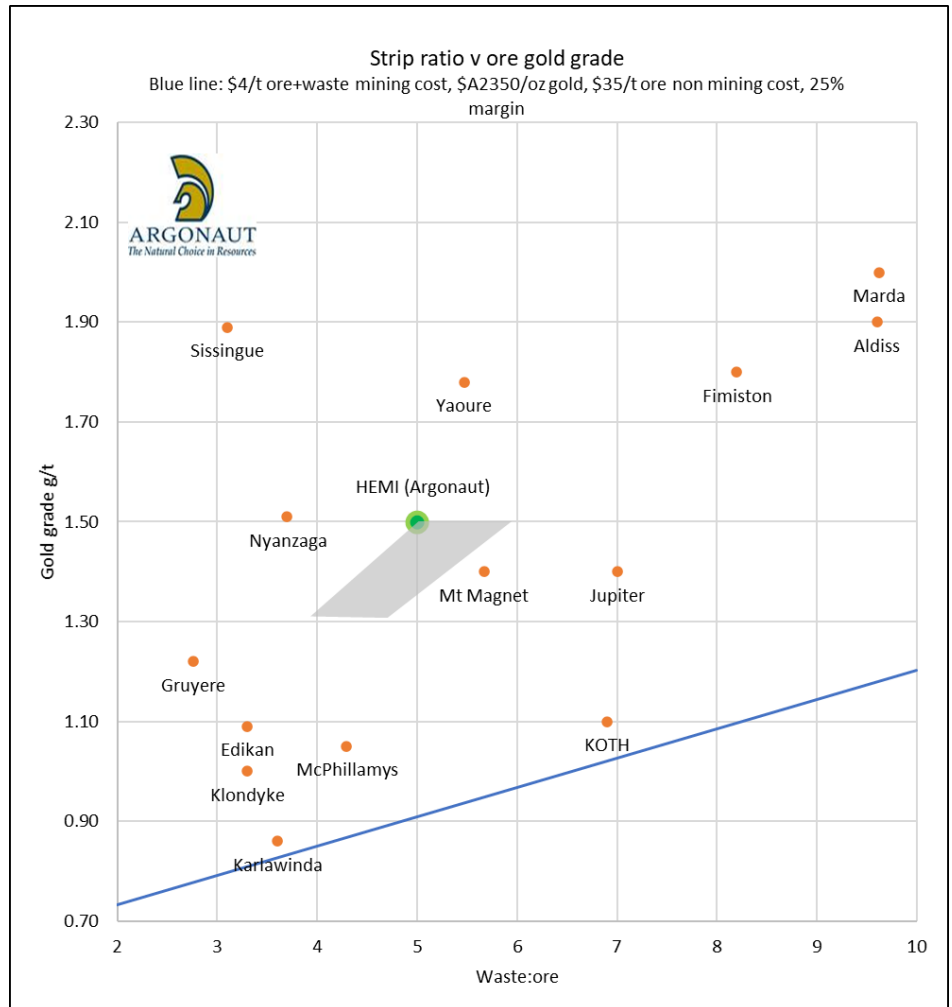
Fig. 2: Hemi resources estimated June 2021.

Cut-off Grade Above 370m (Au g/t)	Indicated			Inferred			Total		
	Mt	Au g/t	Moz	Mt	Au g/t	Moz	Mt	Au g/t	Moz
0.3	65.5	1.3	2.8	126.9	1.0	4.0	192.4	1.1	6.8
0.4	61.5	1.4	2.7	110.3	1.1	3.8	171.8	1.2	6.6
0.5	56.5	1.5	2.7	94.0	1.2	3.6	150.5	1.3	6.3
0.6	51.5	1.6	2.6	79.1	1.3	3.3	130.6	1.4	5.9
0.7	46.8	1.6	2.5	67.2	1.4	3.1	114.0	1.5	5.6

Source: De Grey

2. **Average waste:ore ratio.** Choice of margin has a big influence on strip ratio. At basic inputs of \$4/t earth movement cost, \$30/t ore surface costs, and A\$2350/oz gold, a 5:1 strip ratio equates to about 0.7g/t of costs. We have chosen a relatively wide margin, to pay for capital and for shareholders.

Fig. 3: Selected gold projects, strip ratio v ore grade. The blue line is ideal for a uniform deposit extending to depth, under the conditions given. Argonaut's Cases 1 to 4 for Hemi (see Figure 4) are represented by the corners of the grey quadrilateral.



Source: Argonaut Research

Australian operators have tended to operate closer to the blue line. Ore body geometry aside, proximity to the line is a function of relatively low earth moving unit costs, or more often a measure of efforts to maximise ounces in the plan. And distance north west is a function of high earth moving unit costs, or efforts to maximise margins. Our 1.5 g/t and 5:1 presumption is well north-west of the line. Given Hemi earth moving costs should be lower than average due to scale, our figures imply 3.8M good quality ounces (better than average project margins).

3. **Total ounces of gold in the mine plan.** Ounces should fall out of the resource model once grade and strip ratio are decided. We can only guess how much gold will be captured in pit designs. We used 75% of our 4.4-5.4Mozs range midpoint, and then De Grey's indicated resources plus 1Mozs of inferred as a check, before settling on a 3.8Mozs starting point.

In Figure 4 we try some sensitivities to get a feel for how choices of ore grade and strip ratio can affect ounces and project economics.

Fig. 4: Cost and revenue sensitivity to changes in ore grade and waste:ore assumptions for Hemi.

Gold price	A\$/oz	2350								
Mining cost	\$/t earth moved	4.00								
Surface cost	\$/t ore	35.00								
		Inventory	SR	Ore grade	Ore	Waste	Material	Marginal cost	Marginal revenue	Change
		Mozs	Waste:ore	g/t	Mt	Mt	MT	\$M	\$M	\$M
Case 1	Starting presumption	3.80	5.00	1.50	79	394	473			
Case 2	Same pits, lower bottom cutoff	4.00	3.95	1.30	96	378	474			
	Case 2 change from Case 1	0.20	-0.94	0.37	17	-16	1	596	432	-163
Case 3	Same bottom cutoff, deeper pits	4.10	6.00	1.50	85	510	595			
	Case 3 change from Case 1	0.30	18.67	1.50	6	116	122	707	649	-58
Case 4	Lower bottom cutoff, deeper pits	4.40	4.70	1.30	105	495	600			
	Case 4 change from Case 1	0.60	3.81	0.70	26	101	127	1436	1297	-139

Source: Argonaut Research

Figure 4 suggests 3.8Mozs, 5:1 and 1.5 g/t is a better outcome than 4.4Mozs, 4.7:1 and 1.3 g/t. Cases 1 to 4 are represented in Figure 3 by the corners of the grey quadrilateral.

More gold in a mine plan is not necessarily better if it comes with a worse ore grade and strip ratio combination. The strip ratio/ore grade combination could be an indication of how the Company plans to deal with scale v margin decisions. We have put up a 3.8Mozs, 1.5 g/t and 5:1 trinity as our speculative starting point for Hemi, which implies good quality ounces. De Grey has much better cost inputs and resource models to work with, so we will revisit these numbers come September.

## Valuation

The valuation is based on a discounted cash flow valuation of the Mallina project, and an informal estimate of exploration assets value and nominal assessment of De Grey's other assets and liabilities, as at March 2021. Argonaut's modelled pit inventory is 98Mt at 1.5 g/t, comprising 80Mt at 1.5 g/t at Hemi and 18Mt at 1.6 g/t in satellite pits, including but not restricted to Toweranna, Withnell, Wingina and Mallina. Waste:ore of 5:1 is assumed for all pits. Earth moving rates of \$9-10/bcm material are used. Ore trucking costs of 12c/t/km are included. Resource/reserve drilling and evaluation costs of \$50M and other pre-production capital costs of A\$700M are assumed. Site administration costs and ore processing costs are estimated at \$10Mpa and \$25/t ore respectively. An estimate of the NPV of corporate overhead costs is included in the valuation. A real, after tax discount rate of 7% is used. Future tax benefits are added back as an estimate of present value. Argonaut's base case commodity and currency forecasts, set out in the summary table, are used to estimate the base case NAV.

*Fig. 5: Valuation summary*

<b>Valuation summary</b>	<b>A\$M</b>	<b>A\$/sh</b>
Mallina project 7% real after tax DR	1665	1.29
Exploration, all sites	416	0.32
Corporate overheads	-52	-0.04
Cash	87	0.07
Debt	0	0.00
Tax benefit	15	0.01
Hedging	0	0.00
Option/equity dilution	-64	-0.05
<b>NAV</b>	<b>2,067</b>	<b>1.60</b>

*Source: Argonaut research*

## Key risks to valuation

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### Mineable inventory

Argonaut's estimates of mineable inventories at Mallina are based on incomplete information, subjective calls on future drilling, and pre-emption of De Grey's development decisions. A 10% change in total ore tonnes (+/-8Mt at 1.5g/t) changes the De Grey valuation by 7-8%.

### Metallurgy

De Grey's early tests indicate high rates of recovery using conventional processes.

### Gold price

Our estimates of De Grey cash flows are sensitive to the gold price. Each 10% change in the Australian dollar gold price changes our valuation by 20%.

### Costs.

Cost assumptions are based on incomplete information or informal estimates. Operating and capital costs assumptions rely on our knowledge of industry rates. There are few relevant yardsticks for POX circuit operating and capital costs, so risks are higher than for most gold projects.

### Exploration success

De Grey may invest its cash and any future free cash flows in exploration and/or other mineral asset acquisitions. Valuation assumes that future exploration and investments achieve acceptable returns. Subjective value is attributed to exploration assets at Mallina.

### Interest rates/discount rates

Argonaut takes cash flow risk into account when choosing discount rates for different projects. Our valuation is sensitive to the discount rate used. A 2% change in the (after tax) discount rate makes a 16-20% difference to our De Grey valuation.



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Argonaut acted as Joint Lead Manager in respect of the Placement to raise up to \$103.2M and Senior Management SellDown in September 2020 and received fees commensurate with this service.

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