Metals & Mining For FCA purposes this is a Marketing Communication

15 March 2018 06:00 GMT

BUY

Current Share Price		с	\$24.07
Target Price		С	\$33.00
Market Capitalisation		С	\$2.6bn
Shares In Issue			108m
RIC/BLBG	E	V.TO/EI	DV CN
Avg. Daily Volume (3M)		3	23,520
Current share price	(2) timed at 4:	30pm on 1	13/03/18
28 26 24 22 18 Mar-17 Jun-17 Sep-1 Find anoun Relative to	17 Dec-17 Mining	Mar- 1	8
Performance (%)	1M	3M	12M
Absolute	1	-3	2
Palatius	4	0	3

1 0 to UK-DS Market

Justin Chan Tel: +44 (0)207 260 1430 inathan Guy il: +44 (0)20 7260 1420

Matthew Hasson Tel: +44 (0)20 7260 1235 m.hasson@numis.com

This research was p and approved by And approved by Numis Securities Limit The London Stock Exch 10 Paternoster Square London EC4M 7LT 4 (0)20 7260 10

Registered No 02285918. Authorised and Regulated by The Financial Conduct Authority. A Member of the London

Endeavour Mining ating Coverage Init

Dynamic West African mid-tier producer offers owth and improving portfolio g

ur is a mid-tier gold miner that produced 622koz in 2017 at AISC of US Endeavour is a mid-tier gold miner that produced 622koc in 2017 at AISC of US \$580oin 1037. The company has a clear focus on trancophore West Africa with five producing mines in Burkina Faso (2), cote D'Voire (2) and Mail (1) and a DFS stage growth project in Mail. The company has renovated its portfolio since 2015 under the leadership of CEO Sebastian de Montessus and his ex La Mancha team, divesting older and higher cost assets whils building newer, long file and low cost assets. We believe that Endeavour has few peers in Africa with regards to its size, sourcest and growing production profile and deserves to trade at the top end of the valuation range, penhaps eventually (though not yet) becoming rated similarly to long-time stagle Randgold. We initiate on Endeavour with a BUY rating and C \$33.00/sh price target based on 1.2x NAV and 8.0x CFPS. Endeavo

- Fast improving portfolio with a series of core growth assets: Endeavour has renovated its asset portfolio by divesting its smaller and shorter mine life operations. Youga and Xeama and replaced them with an exciting growth portfolio of assets that can produce at or above 200kozpa at AISC at or below US\$8000KC: Endeavour achieved first production at its new flaghaph Hounde Mine In Burkins Fasio Io October 2017, with the build coming in 4.5% below buggt and on-schedule. Next: Endeavour is building the Ity U.D. Iproject, which should transform Ity from a -6% tock house house operation to a 4Mipa CIL operation that should produce an average of 2020koz over for full next of operation that should produce an average of 2020koz over for full next of operation that should produce and exempt of 2020koz over for full next of operation that should produce and exempt of 2020koz over for full next of operation that should produce and exempt of 2020koz over for full next of operation that should produce and exempt of 2020koz over the full next of operation that should produce and exempt of 2020koz over for the next of operation that should produce and exempt of the next of the full next of the full next of the full next one for the next of operation for the next of the the first 10 years of operation. Endeavour is also undertaking optimisation work on the >2Moz Kalana project in Mali, with the focus being the potential to upsize the plant to bring annual production up to 200kozpa.
- Uning ministig production by a Zookupa. Diversification with synarcy benefits of geographic focus: Endeavour's focus on francophone West Africa benefits from the diversification of operating in three counties while directing logistical advantages with all of larms being within several hours of travel time from EDV's regional head office in Abdgian. Cole Division Senior management, including EDV's CEO. CFO, and Head of Exportation, are Friend's speaking and experienced operators in the region. We believe Endeavour's diversification is relatively unique amongener of its size, as it in either Enclaused's diversification is relatively unique amongener of size as as it in either Enclaused in one country and exposed to the challenges therein (ACA, CEV, SMF), nor is EDV faced with the logistical challenges of operating in multiple continents or time zones (BTO, IMG, ANG, SGL, GFI).
- Clear rotating catalysts as EDV delivers ity CIL and Kalana: We expect Endeavour's shares to re-trate higher as the company delivers ity CIL, with first production in m0/2101, and Kalana. Whi NUME first production in 2021. This should take NUMe production +3000xc by 2021. With the company currently trading at 1.0x NAV, we see room for this to increase, with the sector flagship RRS trading at 1.5x NAV. Endeavour also has ambitious exploration goals with a fle-year discovery target

NAX: Endeavour also has ambitious exploration goals with a five-year discovery target or 10-5Mox, culoring -4Mox at My and 2.5-3Mox at Hounde. For FCA purposes this marketing communication has not been prepared in accordance with hear tequirements designed to promote the independence of Investment research with hear tequirements designed to promote the independence of Investment research limited, analysic contribution of the independence of Investment research limited, analysic contribution of the independence of Investment and Autor investment banking relationships, potential conflicts of interest and additional disclosures. See www.numis.com/viegulatory.html for other disclosures.

Endeavour Minin

15 March 2018

Contents

oomenta	
Endeavour Mining – Key Questions	_ 3
Investment Thesis	_ 4
Catalysts	8
Valuation	9
Sensitivities	11
Markets	12
Financials	13
Resources & Reserves – 9.1Moz of Reserves	19
Hounde Mine (85%-owned, 15% Government)	19
Ity Mine (80%-owned, 10% Government, 10% other minority stake)	22
Agbaou Mine (85%-owned, 10% Government, 5% SODEMI)	25
Karma Mine (90%-owned, 10% Government minority stake)	27
Tabakoto Mine (80%-owned, 20% Government minority stake)	29
Kalana Development Project (80%-owned, 20% Government minority stake)	32
Company History	34
Board & Key Management	36
Risks	39

Registered No 02285918. Authorised and Regulated by The Financial Conduct Authority. A Member of the London Stock Exchange

Endeavour Mining

15 March 2018

Endeavour Mining – Key Questions

How much potential is there to extend mine life at EDV's various assets?	Overall, Endeavour is targeting a 10+ year mine life across all its operations; however its 10-15Moz group discovery target is most heavity concentrated at Greater by (4-8Moz), Hounde (2-5.3.5Moz) and Tabakoto (1.5-2.5Moz). We currently model a Olysear realinging mine life at Hounde, 16 years at Hy, 9 years at Karma, 7 years at Agbaou, and 6 years at tabakoto. A Tabakoto, he underground Resource is open at depth and the key to extending this operation is finding additional open pit material or downsizing the plant to accommodate UG-only production in later years. At Agbaou, EDV has a discovery target of 0.5-1.5Moz with the highest confidence targets being at depth at the Agbaou North Pt.
Does Endeavour have a positive relationship with the local community and government?	Endeavour's management team are experience at La Mancha francophone West Africa with prior experience at La Mancha (Ity), AREVA, Cange and Total in the region. ED/ has made responsible community relations an important component of tis operating strategy and maintains a large regional head office in Abdjan, which is within charter range of all the mining operations. In addition, ED/h sate how sastes in each of Burkina Faso. Cote D'horie, and Mail, and we believe that this demonstrates its committenet to the countries and helps its relationships with hose Governments.
How much growth is there beyond Kalana?	Endeavour has a more clearly-defined growth pipeline than the majority of its peers in the gold space, as declining production profiles are common among multi-asset producers (sepcodium) majors). Having just delivered Hounde in 2017, By CLI. (up to 250kozykez) construction activities have ramped up with first production judied for mrd-2019. We also forecast first production from Kalana (NUMe up to 150kozykez) in 2142b. Beyond Kalana, Endeavour will need to deliver lis nev topicet through their organic exploration or acquation. Endeavour has identified the Greater Ity batt as its most promosing areas to find a stand-alone greenfield project as evidenced by its 4-6Noc discovery target. Other kay raaso of interest Include the greater Hounde Beit In Burkina Faso, EDV's central-northerm Cotte Divoire exploration areas, some of which are V/sed with Randgold, and the Kofi licence in Maliu, which currently feeds Tabaktoo and sits most Pomalydis Park (Louis-Gourkoto mines.
What if any further changes might one expect to Endeavour's asset portfolio?	Endeavour has been aggressive in disposing of is older, high-cost assets divesting the Young Mine in 2016 for USS25 Sam and the Nzema Mine for USS385 mon closing and up to USS25 min in deferred payments. EV/ has announced that its Tabakoto Mine in Mail is under strategic review. Endeavourie intention is to restructure the cost base and then consider whether Tabakoto fire within the portfolio. In the evert of a Tabakoto direstitute, we expect that EDV would retain the northern portion of the Kofi licence.

. Registered No 02285018. Authorised and Regulated by The Financial Conduct Authority. A Member of the London Stock Exchange

Endeavour Mining

15 March 2018

Investment Thesis

Long-term target: Greater than 800koz at less than US\$800koz AISC – Endesixour produced 683koz at AISC of 869koz in 2017, with guidance of 670-720koz at AISC of US\$804-080koz in 2018 with the addition of a full year of production from Hounde diffetting lover greates at Agboau on the divestiture AIXC and AISC below US\$800koz. We forecess that the congress the longer term production profile. Endeavour has set a target of annual production above 800koz. AISC below US\$800koz. We forecess that the congress yhold achieve this target in 2020, which marks the first full year of production from the Iy CIL. Whist we also expect full production at Kalana in 2H20, we believe that EUV would achieve its + s00koz, <US\$800/02 target even if Alaina were to be developed later than we forecast.



Bove fiberator they are time becards means the sector becards fiberator Renovated portfolio yields larger, log mine life, overs cot assets – Key to our thesis for Endeavour is management's proachive approach to managing its portfolio. EVD has added longer life, low cor cota sasets to is production profile with the addition of Hounde, the under-construction by OL project and the Kalana development project. Equally importantly, Endeavour has not been shy about divesting non-core assets to third parties who can declicate additional attration to them. We believe that this discipline is an important component of Endeavour's thesis; too many other gold produces have allowed good assets to decline into mediocre ones that contribute to production but require disproprotinguinate management attention relative to their contribution to fee cash flow or NAV.

Registered No 02285018. Authorised and Regulated by The Financial Conduct Authority. A Member of the London Stock Exchange

Endeavour Mining

15 March 2018



Bures fetaeous times Diversified yet focused strategy – We believe that Endeavour offers both the benefits of diversification and the synergies of a specific regional focus. EUV's assets and exploration areas are concentrated in francophone West Africa and are within chatter fing range of Endeavour's regional head officion in Abiglian. Furthermore, the company's corporate office is located in London, and therefore the company essentially operates within one time zone. Management thus significant experience operating in West Africa in both mining and other sectors and the CEO, CFO and VP, deology are all native Fronch speakers. We believe that this arrangement is preferable to companies who face the risks inherent from operating in one jurisdiction, whilst also avoiding the challenges of operating in multiple continents and time zones.





Registered No 02285018. Authorised and Regulated by The Financial Conduct Authority. A Member of the London Stock Exchange

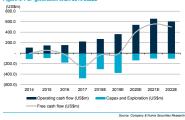
Endeavour Mining

15 March 2018

In-house mine-building team with history of successful mine delivery – One of Endeavour's key advantages is its owner's mine-building team, which has a history of successful delivery of projects that came in on schedule and budget and subsequently performed in line with or better than design specifications. This includes the Agbaou mine, which was originally scoged to process 1.3AMpa of fresh or 1.6Mpa of asprille, but has consistently outperformed if designs, specifications. This includes the Agbaou design. The Endeavour team also completed the expansion of the Tabakob plant, which they took over following the acquisition of Avion Mining. Most recently, the team delivered the Hounde build two months ahead of schedule and USS (Tab Meior budget, with commercial production achieved just 37 days after the first ore was introduced to the plant. We believe the built team, in combination with Endeavour's ambitious targets and growth pipeline is a key strength for the company and a differentiator spens. as track record of deliverum projects on time and budget.

Mine	Description	Start of Construction	First Production	Build time vs Schedule	Build cost vs Budget	% own completed
Nzema	1.6Mtpa CIL		January 2011	Ahead of schedule	On budget	25%
Agbaou	1.34Mtpa CIL	June 2012	November 2013, commercial production in January 2014	16 months, completed ahead of scheduled 1Q14 first production	US\$145m, final cost was below US\$159m budget	60%
Tabakoto / Kofi	4,000tpd Expansion	Advanced bridge loan and took over construction post- Avion acquisition in mid 2012	Design capacity reached in June 2013		Below budget	68%
Hounde	2.8Mtpa CIL	End of June 2016	First gold and commercial production in October 2017	16 months, completed ahead of original 4Q17 first gold guidance	US\$313m vs original budget of US\$328m	94%
Ity CIL	4.0Mtpa CIL	September 2017	First gold guided for mid- 2019		US\$412m budgeted	
Kalana	NUMe 2.0 Mtpa CIL	NUMe January 2019	NUMe 3Q20	NUMe 18 months	NUMe US\$255m incl stripping	

Figure 4: FCF generation chart 2014-2022E



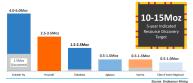
Registered No 02285018. Authorised and Regulated by The Financial Conduct Authority. A Member of the London Stock Exchan

Endeavour Mining

15 March 2018

Significant FCF generation, steps up after Kalana build – Following a period of investment in the by CIL and Kalana builds, we forecast that Endeavour should generate significant free cash flow threeafter with by, Hounde and Kalana each generating -USS100m/year of free cash flow using our L gold price of USS1.400cz or spot of USS1.350/cz. Overall, we forecast FCF of -USS4m in 2018 and -USS35 m (1996) based on both the guided by thremlene and or assumptions regarding Kalana. We then forecast a significant step up thereafter with NUMe FCF generation of USS380 (365cp) in 2020. USS55m (4962-pi) in 2021 and USS48m (451cp) in 2022, putting the company on a FCF yield of >15% from 2020 onwards based on the current share price. Excluding Kalana, we forecast FCF of USS172m and USA21m in 2018 value used US20, respective). Overall, we forecast USS32.200 of free cash flow over the next 10 years for total FCFPS of USS29.72/share for an average FCF yield of 16% over that period.

Figure 5: Endeavour's 10-15Moz exploration target broken down by area



Exploration a key focus - Whilst Endeavour's historical growth to date have to time through value accretive MAA, at the end of 2016, the company set itself an ambitous exploration goal of adding 10-15Moz of Resources over the next five years. To support its, EDV has budged US844-GBM for exploration in 2016, d which 40% is allocated to greenteid opportunities. Of Its 10-15Moz goal, the highest priorities are the greater tip true, where EDV has at a goal d +4Moz, this is EDVs primary target for generating a new standahore mining project. Other promising areas near its existing mines include on the Hourde Bett in Burkina Faso and on its Kofi licences in Mail, which currently supply open pit ore to supplement Tabakoto's underground production.

open pit ore to supplement Tabakoto's underground production. Beycont are mires exploration, Enderwork's other advanced generifield exploration area is its regional exploration in Central Cote D'Ivoire including its JV areas with Randgold (70%, Randgold, 30%, Enderwork). Beycon this, Enderwork also has exploration licences in Guinea (Siguir bett) and Niger, which are both francophone West African social and political environment. We believe Enderwork also has an exploration and internal generation, its proven track record that includes increasing the Reserve at by from 1.9Mozt to 2.9Mozt, and its collection of attractive licences in West Africa, position R among the best of RA African gold producting genes from an exploration perspective, with the key jevel being its consolidated control of the Ity bett.

Registered No 02285018. Authorised and Regulated by The Financial Conduct Authority. A Member of the London Stock Exchange

Endeavour Mining

15 March 2018

Catalyst

Hounde ramp-up successful, should deliver strong first full year of production – The Hounde commissioning and ramp-up was delivered in impressive fashion as commercial production was achieved uist 37 days after first gold in Cotchez 2017. 2018 guidance for Hounde is 250-260koz at AISC of US\$580-530/cc and we see potential for production beyond this If Endeavour can achieve greater than nameptate throughput through the plant. Endeavour's shares have not significantly re-rated since first gold pour, and we believe that the market will gradually give EDV greater value for Hounde should it deliver a strong first full year of production.

should it deliver a strong tirst hill year of production. Strategic decision on Tabakoto expected in mid-2018 – EDV has made it clear that is considering Tabakoto's future within the company. Management's near-term goal is to optimise the assets' production and cost base to either improve its performance within the portfolic or prepare it for an asset divestment. A transition back to contractor mining considered among other operational changes. We currently attribute Tabakoto a value of \$1.174/ahms based on 1.2x. Its NAV of US\$148m. We believe an asset alse is the most likely acenario as the asset given the asset's high cost base and relatively short. Reserve life (ablet the underground is open at deph). In a alse scenario, we would expectation potential.

exploration potential: Ity CLL build adds next flagship asset with first production in 2H19 – Ity should produce an average of 230kozpa at AISC of US\$330koz over the first five full years of production and an average of 200kozpa over the first 1 years at AISC of US\$577koz. Guidance for first production is mid-2019, and we are confident in EDV's ability to deliver the build on time and budget youn is history of successful rime builds and the similarity of Ity's 4.0Mpa CL with the Hounde 3.0Mpa CL design. We see significant potential for EDV to re-rate upward based on progress at Ity over the next 18 months through construction, ramp-up and early commercial production.

Alticano optimization study seeks to deliver 200kcgas asset, NUMe first production in 2021 – Kalana, acquired in EDVa all-hare acquisition of Avnel, is the next leg of EDVs growth strategy. The optimization study is guided for release by the end of 2018. The Avnel feasibility study delineated an 15-year mine life based on a 1.2Mga CLL part, with a Reserve of 1.9Mok or a single open pit. This mine plan prolinised capital conservation whereas we believe EDV has the balance sheet flexibility to seek a higher production rale and maximise hRVF. EDV has the balance sheet flexibility to seek a higher production rale and maximise hRVF. EDV has the balance sheet flexibility to seek a higher production rale and maximise hRVF. EDV has the balance sheet flexibility to seek a higher production rale and maximise hRVF. EDV has the balance sheet flexibility to seek a higher production rale and maximise hRVF. EDV has the balance sheet flexibility to seek a higher production rale and maximise production including 12kkc in the first hull warr. We alio see potential for Endeword to integrate the Kalanak target, which has seen additional driling since Avnel released its Feasibility Optimisation Study in January 2017.

ed and Regulated by The Financial Conduct Authority. A Men

er of the London Stock Exc

18. Autor

d No 0

Endeavour Mining

15 March 2018

Valuation

Our preferred valuation methodology for producers is based on applying a multiple to our NAV estimate blended with a cash flow per share multiple. The peer group range for producers ranges from 0.5x to 2.0x.

We generate our NAV and cash flow forecasts from discounted cash flow (DCF) models, which are, in turn, generated using our estimates for the company's existing and planed operations. Our current long-term gold price assumption is US\$1,400/ounce from 2020. For Endeavour, we have applied a discount rate of 8%.

US\$1,400/cunce from 2020. For Endeavour, we have applied a discount rate of 8%. Our priot target for Endeavour is CS33.00/share based on an equal-weighted blend of 12 MAV per share and 8.0x 2019E CPFs. Our base case 2018E MAV for Endeavour is CS23.06/share, which implies that the shares are currently trading at 1.0x PAVA. The haltorical PNAV trading range for for II West Afficient produces in 6.0X -12x. We believe that Endeavour is likely to trade at 1.2x MAV over the 12-month time frame of our recommendation, and that it deserves a premium multiple as it is in anong the largest of the ex. RRS West-African produces in 6.0X -12x. We believe the ex. RRS West-African produces in 0.0 record, and vi) has edimonstrated a clear willingness to divest older higher cost assets. This suggests a proce target is recommendation. We believe that as Endeavour delivers a full year of production from Hounde, the II yo L projectin _2119 end advances Kalana, there is opportunity to increase our target NAVPS multiple.

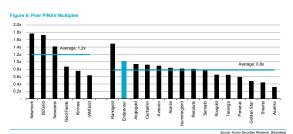
	Disc Rate	NAV (%)	\$m	\$/sh	C\$/sh
Hounde (90%)	8%	34%	890	8.27	10.35
Agbaou (85%)	8%	12%	319	2.96	3.71
ity (80%)	8%	26%	668	6.20	7.77
Karma (90%)	8%	12%	301	2.79	3.50
Tabakoto (80%)	8%	6%	149	1.39	1.74
Kalana (80%)	8%	11%	283	2.63	3.29
Sub-total			2,609	24.23	30.35
Cash & Equivalents		6%	123	1.14	1.43
Cash From Options		0%	1	0.01	0.01
Debt		(17%)	(341)	(3.17)	(3.97)
Karma Stream		(4%)	(90)	(0.83)	(1.04)
Corporate G&A / Other		(13%)	(268)	(2.49)	(3.12)
Total			2,034	18.89	23.66
Current NAV Multiple (Implied)					1.02x
Cash Flow Value				\$/sh	C\$/sh
CFPS (1 year forward)				3.37	4.62
Current P/CF multiple (implied)					5.2x
Blended Valuation			Target Multiple	Weight	
NAV valuation			1.20x	50%	28.39
Cash Flow valuation			8.0x	50%	36.99
VALUATION					33.00

Never kmis Service Neural We have compared Endeavour's valuation multiples against other African (cx: South Africa) gold producers. We believe this represents the most accurate paer group for Endeavour given similarity in agoptical risk profile, operating challenges and market parception. We have also included majors with continential African operations to provide perspective on the differences in valuation ranges between African and globally diversified operators.

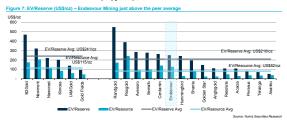
Registered No 02285018. Authorised and Regulated by The Financial Conduct Authority. A Member of the London Stock Exchange

Endeavour Mining

15 March 2018



Bowe here about the factor of the second sec



10

Registered No 02285018. Authorised and Regulated by The Financial Conduct Authority. A Member of the London Stock Exchange

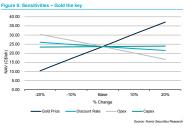
End

15 March 2018

On a Reserve basis, EDV is trading at US\$249/cc compared to US\$210/cz for the African miner peer average. The global majors with operating assets in Africa trade on an average EV/Reserve multiple of US\$241/cz. At our C\$33.00/share price target, Endeavour would trade at US\$312/oz, which wold put it between Rougold and Avesoro. On a total Resource basis, EDV is trading at US\$128/cz, which is above the peer average of US\$202 and US\$1218/cz or the majors with African assets. At our C\$33.000cz price target, Endeavour would trade at US\$188/cz, which is below mandpdi, B262/dd and Newmont and above Centamine, Semaño and Avesoro. We believe this is reasonable considering that Endeavour is low cost, diversified and grosting which puts it at premium to ASO, SMF and CEY. By both metrics, Endeavour is trading at a level where would we expect a re-rating as Endeavour completes the Ity C1L build and ramp-up and advances Kalana to production. We believe that Endeavour is among the highest quality produces in the African gold space, and that it offers the best combination of quality and growth. **Somstituities**

Sensitivitie

The key sensitivity for our NAV estimate for EDV is metal prices; a 10% change in our gold price assumptions has a 25% NAV impact. The NAV also has 14% sensitivity to a 10% change in operating costs; ¹% sensitivity to a 10% change in capex, and 4% sensitivity to a 10% change in the discount rate.



ed No 02285918. Authorised and Regulated by The Financial Conduct Authority. A Member of the London Stock Exchange

En

15 March 2018

Source: Bloomberg

Markets We believe that post 2015, gold is into a new price cycle and the metal has benefitted from the US dollar stumbling, desplat the market's expectation of further rate hikes by the Fed in 2017. Cold has a strong (09%) inverse correlation with 10-year 17PS yields but the two have diverged due to higher inflation expectations. It has also been supported by heightened geopolical tensions associated with North Korea, concerns over global trade and increased tensions with Russia. We believe that the metal has been boosted by higher inflation expectations. We believe that the metal has been boosted by higher inflation expectations. We believe that the metal has been boosted by price. Gold is typically strong in Q1, but tends to weaken after Chinese New Year, and this varian has followed by the spectral tension that we have a strong the spectral strong tension in the Asian physical market should it remain at the current elevated levels, as it would then become spensive in biot Rupee and Reminibierms. An additional headwird is a steeper rate into trajectory due to higher inflation expectations, though we note that gold should on well in an inflationary environment. The geopolitical environment has produced greater tension than everage with North Korea, trade war and Russia-relate headines and this should be supported for gold. **Figure 9:** Gold vs 10 yr Tips, negative correlation but starting to diverge on



\$1,000 Jan-16 Apr-16 Jul-16 Oct-16 Jan-17 Apr-17 Jul-17 Oct-17 Jan-18

We currently expect an average gold price of US\$1,300/oz for 2018, and for it to increase towards our LT price of US\$1,400/oz supported by a combination of relative US\$ weakness, a higher US inflation trajectory, major economies near peak cycle growth, and storog demand from the key Asian physical markets and heightened geopolitical risk.

	1Q18	2Q18	3Q18	4Q18	2018	2019	2020<
Gold	1300	1300	1300	1300	1300	1350	1400
BBG Consensus	1328	1325	1334	1343	1333	1367	1415
Silver	16.00	17.00	17.50	18.50	17.25	18.00	20.00
BBG Consensus	16.74	16.57	16.70	16.88	16.72	17.23	17.85

18. Aut ed and Regulated by The Financial Conduct Authority. A Mem ber of the London St lock Exc ed No 0

Endeavour Mining

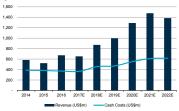
15 March 2018

Financials

P&L

The company has 107.5 million shares outstanding and 145k traded warrants at an average exercise price of CS10.24 with 144k options in the money with an average price of CS1 (Shares, Shudi at the TIM options and warrants be exercised, then it would bring in an additional -US\$1.0m for the company.

Figure 10: Revenue and cash costs 2014-2022E



Source Namis Securities Research

We expect production and sales of 688koz in 2018 for total revenue of USS937m in 2018 and USS969m in 2019, with cash costs of USS951/oz and USS8237m in 2018 and USS969m in 2019, with cash costs of USS951/oz and USS8220z in those years, respectively, for operating expenses before depreciation and oryalities of US\$455m and US\$469m. We forecast an EBITDA margin of 3% in 2018 rising to 44% in 2020 with EBITDA increasing from US\$201m in 2017 to US\$328m in 2018E and US\$434m in 2019E.





Registered No 02285918. Authorised and Regulated by The Financial Conduct Authority. A Member of the London Stock Exchange

End

15 March 2018

We have assumed annual G&A of US\$20m and US\$45m of exploration in 2018 and US\$40m in 2019 through 2022, of which 15% or -US\$6m is expensed. Based on expected 2018 net income of US\$105m, EDV is currently trading on a PE of 19x, falling to K for 2019.

Texation and Government Dividends The headline profit tax rate is 25% in Cole D'Noire (Agbaou, Ity), a minimum of 30% or 1% of revence in Mail (Tabakob, Kalana) and 17.5-27.5% in Burkina (Karma 17.5%, Hounde - Vindaloo 17.5%, Bouere 27.5%). We forecast an effective tax rate of 26% in 2017. 23% in 2018, and 25% in 2010. We forecast total tax, royally and minority dividend payments rising from US\$55m in 2017 to US\$99m in 2018 and US\$172m in 2020, as Endeavour moves to more portfable currees and with higher gold prices. Endeavour has tax loss offsets at Tabakoto and shareholder loans outstanding at Tabakoto, Hounde, Karma and Hy (post CLL capex), which must be regated before minorities are eligible for dividends. Agbaou has a tax holiday until 2020 and Hy CLL may eligible for they-sert ak holiday, but we have not modeled this until three is public confirmation by Endeavour and the Government. Burkina and Cote D'Noire both have variable gold price-Inited myrapits rates from 3-5%; at Current spot the applicable government royaltes are 8% in Burkina Faso and 4% in Cote D'Noire. In Mail, Tabakoto to subject to a 5% royalty rate, and Kalana is subject to 3%. Figure 12: Total royaltes, taxe 3& and minority dividends Figure 12: Total royalties, taxes and minority dividends (USSm) 800.0





Balan e Sh

Balance Survey 4 31 December, Endeavour had US\$122m of cash on balance sheet with US\$300m of the US\$800m revolving credit facility (RCF) forawn and total net debt of US\$221m. Subsequently, Endeavour issued a US\$330m convertible bond and repaid the US\$300m drawn portion of the RCF and downsized the facility to US\$350m. As at 30 December 2017, Endeavour Hausted St441 m of current lisallities, including US\$21 m of payables and US\$362m of current assets including US\$142m of inventories.

red No 02 1918. Authorised and Regulated by The Financial Conduct Authority. A Member of the London Stock Excl Registe

Endeavour Mining

15 March 2018



Endeavour's total outstanding debt includes the following major items:

- Enterevolus is total colsainating peed includes in entowing import entry. US\$350m revolving credit facility: The facility was downsized from US\$500m to US\$350m in February 2018 to reduce undrawn commitment fees. The facility matures in September 2021 and bears interest on a sliding scale of between LIBOR plus 2.95% to 3.95% based on the Company's leverage ratio with a commitment fee on undrawn amounts of 1.03%. The drawn portion of the facility was repaid in February 2018 following the issuance of the convertible bond, and therefore the facility remains available and undrawn.
- Leaning retrains evaluate and unitami. US\$330 mcovertible notes: In February 2018, Endeavour issued US\$330 m convertible notes which mature on 15 February 2023. The notes pay interest semiannually at a 30% coupor. They are convertible on maturity at 14.3883 per US\$1.000 principal or US\$29.30 per share (C\$29.4639/share) payable in shares or cash settlement at Endeavour's option.
- Equipment Finance Facility: Endeavour has US\$63³⁰ or of equipment finance and lease payments remaining, including its 9.5% equipment finance facility with Kohmatsu, used to finance the Hounde mining equipment. Payments are made quarterly and the final payment will be made in 1022.
- quarterly and the final payment will be made in Yu22.
 Ity Equipment Finance Facility: We anticipate that EDV may seek similar equipment finance facilities to finance a portion of Ity CIL and Kalana vehicle purchases. The company has indicated that it intends to seek US\$60m of equipment financing for IV, and we have assumed a US\$50m Eality bearing interest at 9.5% with a staged US\$10m/year principal repayment schedule from 2020-2025.

We expect ND-EBITDA to peak at 1.1x in 2019, immediately prior to Ily CiL first production and NUMe two quarters into the Kalana build. This reverts to net cash by NUMe 4202 as if by production contributes significantly to net cash generation in addition to NUMe first production from Kalana in 2/E0. We believe that under a more stessed gold price scenario, EDV would have the ability to met tais current dekt payment schedule and build Kalana without additional funding down to a gold price of US31.084/bc.

Registered No 02285918. Authorised and Regulated by The Financial Conduct Authority. A Member of the London Stock Exchange

Endeav ar M

15 March 2018



rma Gold S

Rama could stream Franco-Nevada and Sandstom have a gold stream agreement to purchase 20koz per year over five years (commenced in 2016) and 1.625% of the gold produced thereafter from the Karma Project. Franco-Nevada/Sandstom will pay 20% of the spot gold price for the ounces. Sandstom acquired the stream for an upforn Jayment of USS100m in August 2014 from then project owner, True Gold, which was acquired by Endeavour in 2016. We have valued the stream at USS90m, using an 8% discount rate, and forecast 108koz of total remaining ounces delivered into the stream.

nent Rovalties Non-Govern

The following non-Government royalties are applicable to Endeavour's assets:

- Hounde: 2% NSR to Sandstorm, 1% NSR to Social Development Fund (Government).
- Karma: Social Development fund (1%), Rambo pit only (3%), Liberty (0.7%), GoldenSar on only Goulagou 182:(0-200koz is 0%, 200-500koz is 1% +500koz is 2%).

Non-Government Royalties

Endeavour has put in a gold price collar using call and put options, from February 2018 until April 2019 to cover its cash flows during the tly CIL construction period. The options cover a total of 400kcc (-40% of estimated production over that period) with a floor price of US\$1,500kcc and a celling price of US\$1,500kcc. The cost of this programme was US\$37.07. Onlife than the initial cost of the options, the collar does not impact our valuation as we forecast that the gold will size between the floor and celling price during the priced.

Registered No 022 5918. Authorised and Regulated by The Financial Conduct Authority. A Member of the London St ock Exch

End ar M

15 March 2018

Cash flow We expect EDV to generate a net free cash outflow of -USS44m in 2018 and -USS33m in 2019 due to capex from ity and Kalana, which we have modelled as commencing construction in 2119. We forecast significant operating cash flow generation of USS27m in 2019, up from VLWe USS204m in 2017, as the company benefits from the first full year of Hounde production. Capital expenditure guidance for 2016 in USS335m allocated to Ity, USS10m at Hounde and USS20m of projects, of which USS180m is allocated to Ity, USS10m at Hounde and USS10m at Kalana. Exploration guidance for 2018 is USS34/cm and ve expect similar levels for the medium term as Endeavour works towards its 10-15Mcc flow-year discovery larget. Once Ity reaches production in 2020 reining to USS355m in 2021 (first til) year of Kalana production) and USS480m in 2020 reining to USS455m in 2021 (first til) year of Kalana production) and USS480m in 2020 reining to USS455m in 2021 (first til) year of Kalana production) and USS480m from 2012-y221. We have made no assumptions about dividends at this point. Figure 15: cash three verolution 2014-2022E



red No 02285918. Authorised and Regulated by The Financial Conduct Authority. A Member of the London Stock Exchange

Numis Endeavour Mining

.

15 March 2018

ndeavour Mining UY		Ticker Share Price		EDV.TO C\$24.07		Market Capitalisation Enterprise Value (EV)	C\$2,588m \$2,267m		inancial Year leporting Cur		
533.00		implied Return		37%		Net Debt (Cash)	\$2,207m \$164m		tares in bisu		
duation						Key Metrica	2016	20175	2018F	2019F	*
	Disc Rate	NAV (%)	\$m	\$/sh	C\$/sh	EPS (\$/sh)	(0.83)	(1.59)	0.97	1.19	
ounde (90%)	8%	34%	890	8.27	10.35	EPS Growth	neg	neg	neg	22%	1
gbaou (85%)	8%	12%	319	2.96	3.71	PIE	n.m	n.m	19.3x	15.8x	
(80%)	8%	26%	668	6.20	7.77	CFPS (\$/sh)	1.84	2.22	2.51	3.37	
irma (90%)	8%	12%	301	2.79	3.50	PICFPS	10.2x	8.4x	7.4x	5.6x	
bakoto (80%)	8%	6%	149	1.39	1.74	FCFPS (\$hh) PECFPS	(0.58)	(2.70)	(0.50)	(0.31)	
lana (80%) Ib-total	8%	11%	283	2.63	3.29		n.m -2%	n.m -14%	n.m -3%	n.m -2%	
ib-total sh & Equivalents		6%	2,609	24.23	30.35 1.43	FCF YNB FV/FRITDA	-2% 10.6x	-14% 11.3x	-3% 6.9x	-2% 5.2x	
en & Equivalents eh From Options		0%	123	0.01	0.01	Adi EBITDA (US\$m)	214	201	328	434	
en rom opena		(17%)	(341)	(3.17)	(3.97)	EBITDA Margin	32%	31%	38%	44%	
nna Stream		(17%)	(341)	(0.83)	(3.97)	Dividend Per Share (C\$/sh)	0.00	0.00	0.00	0.00	
rporate G&A / Other		(13%)	(268)	(2.49)	(3.12)	Dividend Yeld Grant	0.0%	0.0%	0.0%	0.0%	
f al		(1010)	2.034	18.89	23.66	Return on Assets (ROA)	-4%	.8%	5%	8%	
ment NAV Multiple (Implied)			-		1.02x	Return on Equity (ROE)	-5%	-13%	10%	11%	
ah Flow Value				\$/sh	C\$/ah	Return on Capital Employed (ROCE)	3%	-5%	7%	11%	
PS (1 year forward)				3.37	4.62	Net Debt/EB/TDA	0.1x	0.8x	0.8x	0.7x	
ment PICF multiple (implied)					5.2x	Gearing (Liabilities/Equity)	41%	60%	94%	91%	
inded Valuation		Targ	et Multiple	Weight		Interest Cover	4.2x	2.9x	4.3x	10.1x	
W valuation			1.20x	50%	28.39	Shares Outstanding (m)	81	98	108	108	
sh Flow valuation			8.0x	50%	38.99	Income Statement	2016	2017F	2018F	2019F	
LUATION					33.00	Revenue	673	652	873	998	
						Cost of Sales	(402)	(299)	(508)	(528)	
nsitivity Analysis		NA	V (C\$Ish)	18F EPS	18F CFPS	G&A	(25)	(23)	(20)	(20)	
se case gold price forecast			23.66	0.97	2.51	Other	(32)	(29)	(17)	(16)	
se case +10%			30.55	1.58	3.14		214	201	328	434	_
se case -10%			17.10	0.62	2.16		(103)	(131)	(182)	(230)	
						EBIT	128	70	146	204	
ws Catalysts		2018	2019	2020	2021	Net Interest Expense	(37)	(22)	5	(20)	
sakoto strategic decision			_			PBT	89	46	151	183	
CIL build						Non-Recurring Items/Other	(25)	(147)	0	0	
CIL production						Taxes/Recovery	3	(14)	(42)	(42)	
lana build lana first production				_		Net Profit (Loss) - attributable Mnority Interest	(52)	(156)	105	128	
				Cold		Mnorty Interest Cestificar	2016		(4)	(7)	
serves & Resources (attributab	Maz			9.1	EV/oz 249	Net Profit (Loss)		2017F (156)	2018F	2019F	
serves (P&P) sources (M&I)	Maz			9.1 14.6	249	Net Profit (Loss) DD&A	(52)	(156)	105	128	
eduction & Cost (attributable)	NOZ	2016	2017F	20185	130 2019F	Non Recurring/Other	104	243	102	230	
id Eq. Production	000oz	502	663	698	20101	Working Cap. Changes	(40)	(14)	(25)	(33)	
foz Production	Sloz AuEa	2,790	2 401	2 199	2 184	Cash Flow From Operations	(40)	222	271	(33)	
tal Cash Cost (net by-products)	Sing Aucq	2,790	879	2,300	2,104	Capital Expenditure	(231)	(441)	(345)	(378)	
in Sustaining Cost	s/oz S/oz	898	869	840	771	Acquis /investments	(231)	(37)	(340)	(3/6)	
in screaming case	\$102	000	009			Cash Flow From Investing	(180)	(479)	(305)	(378)	
odn (Kaz)				Cost p	er az (US\$ilaz)	Equity Issues (Net of Costs)	185	113	(2000)	(314)	-
						Net Borrowings	(110)	160	912	51	
						Dividenda Paid & Other	(34)	(21)	(23)	(25)	
·					1,000	Cash Flow From Financing	42	252	340	25	
					1,000	Net Change in Cash	15	(2)	304	11	-
		~			822	Free Cash Flow	(38)	(262)	(54)	(33)	-
		_	-			Balance Sheet	2016	2017F	2016F	2019F	
						Cash & Equivalents	124	123	427	438	
_						Total Current Assets	159	239	247	315	
					- 400	PP&E & Mining Interests	1,040	1,318	1,481	1,628	
						Deferred tastion	48	53	53	53	
			_			Other	(14)	(32)	(39)	(39)	
					200	Total Assets	1,387	1,634	2,168	2,394	
						Short Term Debt	0	0	0	360	
2014 2015 2019	2017 20	185 20195	20205	20216 20	226	Current Liabilities	150	241	215	250	
						Long Term Debt	141	286	680	380	
Agbaou Tabakito	Youga	Nzema	Ка		N .	Other Long Term Liabilities	106	165	158	511	
Hounde Kalana		TOC		ic .		Total Liabilities	396	693	1,053	1,141	
						Shareholder Equity	961	1,001	1,115	1,253	
sumptions (Real)	2016	2017F	2018F	2019F	LT	Total Liab. & S/Holder Equity	1,357	1,634	2,168	2,394	
ld Price (\$/02)	1,246	1,258	1,300	1,350	1,400	Working Capital	48	23 164	48	81	
change Rate (US\$/C\$)	0.73	0.73	0.72	0.80		Not Debt (Cash)	17		253	382	

Registered No 02285018. Authorised and Regulated by The Financial Conduct Authority. A Member of the London Stock Exchange

E

15 March 2018

rces & Re rves – 9.1Moz of Re Table 4: Reserves & Resources

RESERVES (NI 43-101 COMPLIANT)				Tonnes	Grade	Gold
Property	Interest	Location	Classification	(Mt)	(g/t)	(Moz)
Hounde	90%	Burkina Faso	P&P	30.20	2.02	1.96
Agbaou	85%	Cote D'Ivoire	P&P	8.90	2.34	0.67
ity	85%	Cote D'Ivoire	P&P	58.90	1.59	3.02
Karma	90%	Burkina Faso	P&P	34.60	0.89	0.99
Tabakoto	85%	Mali	P&P	4.80	3.35	0.52
Kalana	80%	Mali	P&P	21.70	2.81	1.96
Total				159.10	1.78	9.10
Resources (NI 43-101 COMPLIANT)				Tonnes	Grade	Gold
Property		Location	Classification	(Mt)	(g/t)	(Moz)
Hounde	90%	Burkina Faso	M&I	37.30	2.05	2.46
	90%		Inferred	3.20	2.64	0.28
Agbaou	85%	Cote D'Ivoire	M&I	10.30	2.43	0.80
	85%		Inferred	1.00	1.74	0.05
ity	85%	Cote D'Ivoire	M&I	73.90	1.56	3.70
	85%		Inferred	18.70	1.31	0.79
Karma	90%	Burkina Faso	M&I	81.80	1.09	2.87
	90%		Inferred	21.40	1.32	0.91
Tabakoto	85%	Mali	M&I	19.90	3.01	1.93
	85%		Inferred	7.40	3.40	0.81
Kalana	80%	Mali	M&I	23.70	4.06	3.10
	80%		Inferred	1.70	4.39	0.24
Total Producing			M&I	223.20	1.64	11.75
			Inferred	51.70	1.70	2.83
			Total	274.90	1.65	14.59
Total			M&I	246.90	1.87	14.85
			Inferred	53.40	1.79	3.07
			Total	300.30	1.86	17.93

Hounde Mine (85%-owned, 15% Government)

Hounde Mine (85%-owned, 15% Government) Hounde, EVX current flaship asset, is an open pit god mine located in westem Barkina Faso that first pourde gold on 18 October 2017 and declared commercial production on 11 November 2017. The pith is a 3.0Mb pit god mine boards tattor. The operation has Reserve to Pit and a 3.0Mb back-up power station. The operation has Reserve of 2.0Moz with 2.4Mb/s 2.4Mb/s 2.4Mb/s 2.4Mb/s main three pits: Vindaio (88%) of Reserves), Bourer and Dohoun. Construction of the operation was completed US\$10m book budget at US\$313m, (US\$21m of additional capes including the ainstip and TSF2 was added since the project was ahead of schedue and below budget) and the build was completed with 7m man-hours worked with zero LT1. In 2018, the operation is guided to produe 252-260koz at AISC of US\$850+330/sc with capes of US\$350 m of which US\$22m is sustaining. The current Reserve-based mine life is 10 years and EDV has a discovery target of 2.53.3Mb/sc annual production of 207koz and remaining LOM average AISC of US\$718/oz.

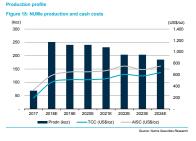
ed No 02285918. Authorised and Regulated by The Financial Conduct Authority. A Member of the London Stock Exchange

15 March 2018





Bure Enterement Hounde is a conventional truck and shovel, drill and blast, open pit mining operation. Mining is carried out from three main pits: Vindado, Broere and Dohoun. The current pits are planned to reach depths of up to 175m with fleet capacity to move >35Mbp; the UM Reserve stript ratio is 8.4. The plant is a 3.0Mbp (2000tp) (CL operation with one SAG and one ball mill. The design LOM recovery is 93% and the feasibility study LOM processing costs were US\$13.36H; both grade and recovery to date have exceeded these figures.



Registered No 02 1918. Authorised and Regulated by The Financial Conduct Authority. A Member of the London Stock Excl

Endeavour Mining

ed No 02285918. Authorised and Regulated by The Financial Conduct Authority. A Member of the London Stock Exchange

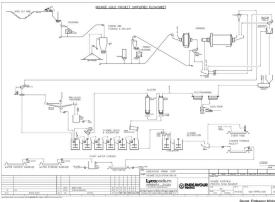
15 March 2018

For 2018 we forecast production of 252koz at cash operating costs of US488/cz and AISC of US\$587/cz, guidance for the year is 256-260koz at AISC of US\$587-cas, guidance for the year is 256-260koz at AISC or US\$7180/cz ower the international to tail production of 210koz at AISC of US\$718/cz ower production of 240koz for the next six years with average production of 211koz over the first 10 years of mine life at average AISC or US\$7130/cz over the remaining life of mine, we forecast total FCF of US\$12.80, useraging US\$1050/myear inducting US\$1131/wyear over the next 10 years. At US\$1,300/oz, average annual FCF would be US\$101 nover the next 10 years.

US31 3000cc, average annual FCP would be US310 m over the next 10 years. The cumulative balance of Houndrés herneholder loans are NUMe negative US\$300m. This would need to be paid off from positive free cash flow before the Government is entitled to receive any dividends from Hounde. We forecash that the shareholder loans will be repaid in mid-2021. Vindaido ounces are subject to a 17.5% income tax rate while Bourea and Dohoun are subject to a 27.5% income tax rate and Burkina Frasis is variable with the gold price as per the following table.

Table 5: Burkina Faso (Low (US\$/oz)	High (US\$/oz)	Rate
0	1,000	3%
1,000	1,300	4%
1,300+		5%

15 March 2018



Ity Min rity st

Ity Mine (89%-owned, 10%, Government, 10% other minority stake) by is currently a 50% has head least operation with a 40 Mbag gravity + C1 just under construction with the chargeover from head leach to C1L production expected in mi-2019. The operation commenced production in 1991, and is the oldest currently producting gold mine in Cate D'Noire. Once into C1L production, by will become the second flagship asset for Endeavour, allong with Hounde, producing up to 250koz inclusing an average of 200koz at ASIC of US\$550koz over the first first first lay least of production and an average of 200koz at ASIC of US\$550koz over the first first bill years of the Orderson is 30Moz at 15/rgt, this was increased from 1.9Moz in 2016 as a result of exploration auccess. Based on current Reserves, we forecast a mine life of 14.5 years with average annual production of 169koz.

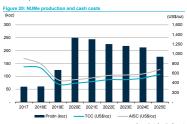
by The Fi ial Con ity. A Me r of the Lone ck Ex

End

Production profile

15 March 2018

Mining is carried out using conventional truck and shovel with an owner mining team and 904 Komatsu haul trucks. The 50M mining inventory is supplied by 42.5M from isk open pits, the larget being Daapleu at 18.4M, and 1.45M at 1.05g/ from existing stockpiles. The LOM strip ratio is low at 1.9x and maximum scheduled mining movement is 16M/bas. The part degine is initiate 16 bundles, with identical SAG and Ball Mil designs and similar site layout, but by CLI is larget in scale at 4.0Mbp ave Hounde at Mil designs and similar site layout. but by CLI is larget in scale at 4.0Mbp ave Hounde at Mil designs and similar site layout. but by CLI is larget in scale at 4.0Mbp ave Hounde at Reception of Daaplee Sulphides (7.0M at 2.41pt for 604kcc) at 66%. The capital budget for the CLI mine build is US\$412m including US\$34m contingency, US\$44m on iming equipment and US\$55m of pra-strip and this includes a 58m overhead power line to connect to the national grid as well as a 26MW full diseel back-up power station. **Production confle**



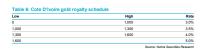
We forecast a 15.25-year remaining mine life producing a fold of 2.5Noz at AISC of US\$6000cx including 2.47Moz of producing norm by CIL once it commences production in NUMe 2419. This includes an average of 2.300cc at AISC of US\$5370cz over the first 10 years. Using our VIMe gold price of US\$1,3500cc ar 2016 and US\$1.4000cz over the remaining life of mine, we forecast total FCF of US\$1,250, averaging US\$81m/year including US\$2570m/year over the next 10 years. AI US\$1,3000cz average annual FCF would be US\$112m over the next 10 years.

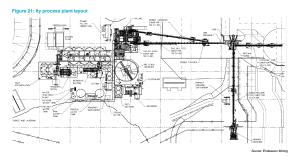
With respect to the 20% minority interest in the asset, we currently forecast that Ity's shareholder leans (used by EDV to fund construction) will be repaid in 2H21, after which immorities (the Government and the Erophag source) should be entitled to their pro rata portion of dividends. The corporate tax rate applicable to Ity is 25% and government revenue royally scheme is as per the table below.

ed No 022 918. Auth ised and Regulated by The Financial Conduct Authority. A Member of the London Stock Exchange

Endeavour Mining

15 March 2018





by T

ty. A Member of the L

Endeavour Mining

15 March 2018

Agbaou Mine (85%-owned, 10% Government, 5% SODEMI)

Agbabit Mine (e5%-coMice), 10% Government, 5% SOUEwil) Adbabit is an open pill, up to 240 Mipa - Cli, operation that first produced gold in November 2013 with commercial production declared in January 2014. The mine is located 2008 mW of Adbiga, Power is supplied by the national grid and water supply is 71% from recycled process water and 29% from the water storage dam and borheles, Agbabit owas Endeavours' flagatio porention when it commerced production (this is now Hounde), and has produced 707 Noz to date at AISC of ~5900z including mill feed moves to harder one and the throughput rate fails to NUMe 2.4Mt in 2019 and 2.0Mt in 2020.

Mining at Agbaou is conventional truck and shovel open pit mining that is contracted to BCM International Ltd. The operation is based on three main open pits: North, South and West, which are planned to reach an eventual depth of 300n, 175m and 150m, respectively. In addition, six additional shallow satellite pits are included in the mine plan. The plant is a gravity + ClL circuit with capacity of 1.6.2 GMap depending on the hardness of the core. The plant was originally designed for throughput of 1.3Mapa of fresh ore 1.5Mapa of saprolles but plant performance was significantly exceeded this with throughput of a thigh as 2.9MA in 2017. A secondary crusher was added in July 2016 for a total cost of USS16m. The plant achieved recoveries of up to 97% from oxide-only ore feed, but EDV guides for 93% recovery from a blend of oxide and fresh ore.





Uters Atmis Source Atmission of the State of the State State of the State State of US\$800/02. Our forecast for 2018 is 140koz at AISC of US\$913/oz v sg usinance of 800-900/02 as ore transitions to a 50/50 blend of oxides and freshtransitional ore. We forecast throughout of 24.Wk i 2018 laling to 2.0Mk forecast throughout of 24.Wk i 2018 laling to 2.0Mk forecast throughout of 24.Wk i 2018 laling to 2.0Mk forecast throughout of 24.Wk i 2018 cover the remaining life of mine as the proportion of subpide ore increases. Using our NUMe gold price of US\$1,3300 cit. 2019 and US\$1,4300 cover the remaining life of mine.

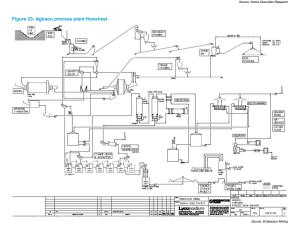
Registered No 02285918. Authorised and Regulated by The Financial Conduct Authority. A Member of the London Stock Exchange

Endeavour Mining

15 March 2018

With respect to the 15% minority interest in the asset, Agbaou's loans have been repaid and the minorities (the Government and SODEMI) are entitled to their por rata portion of dividends. The cooprate tax rate agbicable to Agbaou 125% and government revenue royally scheme is the same as at ity (reproduced in the below table).

Low	High	Rate
0	1,000	3.0%
1,000	1,300	3.5%
1,300	1,600	4.0%
1,600		5.0%



d by The Financial Con

rity. A Member of the London Stock Exc

End

15 March 2018

e (90' d, 10% Go

Karma Mine (80%-owned, 10%, Government minority stake) Karma is 4.0 Miphe have jack-operation that produced 886x at ALSC of US855/cc in 2017. There are a total of six open pis in the current mine plan. Mined material focuses on fee leaching outdooks from stallow open pis with low stor packs. Alter all six plant free-diging with no dilling and blasting required with the exception of hanging and focusal contasts and in harder transformal and subjectives. Jose leaching, and a newly built ADR plant with 6% open top carbon cascade columns. The crushing circuits and ADR plant were rebailt by Endesvour in 2017 to address availability and design issues with the original design built by True Cold.

The organic result of the Court of the Court of the Organic Version of the Organic Version

Figure 24: Map of Burkina Faso with Ho de and Ka



Surrez Entekend Margues Construction of the Construction of the executerly Red Cone where Islamist activity can be an issue. However, the surrounding area is more populated than other areas of the Red Zone' and the local population serve as a deterrent, as they are able to identify and warn about outsident: the local population desets. Endework has also taken best-practice society measures including moving the ex-pais to centralised areas that can be protected; measures including moving the sepais to centralised areas that can be protected; pod community relations are the most impostent factor and Endework has a good relationship with the local communities. In 2015, under previous management, the operation did experience an incident with the local community related to concerns that he mining of the Ramo DP R would damage or disrupt the Ramatolage Molegue, however this was based on incorrect information including that the operation would include underground mining. Mining at Rambo has now been completed, removing any lingering cause of concern for the local community.

ed No 022 5918. Authorised and Regula ated by The Fin cial Conduct Authority. A Member of the London Stock Exchange

Er

15 March 2018



Burner Num Bundtars For 2018 we forecast production of 10%koz at cash operating costs of US\$45400cz and AISC of US\$8160cz guidance for the year is 100-110koz at AISC of US\$780-8300cz We have modeled a remaining 10-year mine life with total production of 1128koz at AISC of US\$815koz. We forecast average annual production of 1138xcz for the reat five years at AISC of US\$79170cz Ulargo ur NUMe gold prote of US\$1,3500ci no 2019 and US\$1,400xcz over the remaining life of mine, we forecast total FCF of US\$394m, werrarging US\$380myser including US\$4.4myser over the next 10 years. At US\$1,300/cz, average annual FCF would be US\$33m over the next 10 years.

USS1.300/cz, average annual H-C+ would be USS3m over the next 10 years. The cumulative balance of Kammi's harhendoler (annual are NUMe negative US\$135m. This would need to be paid off from positive free cash flow before the Government is entitled to necever any dividend from Kamma, vie forecast that the shareholder loans will be repaid in mid-2021. Kamma is subject to a 17.5% corporate tax rate. The Burkina Faso Government royald scheme is as at Hounde (lable reproduced below) and individual deposits at Kamma are subject to additional royalities ranging from 1-3%.

- Social Development fund: 1%

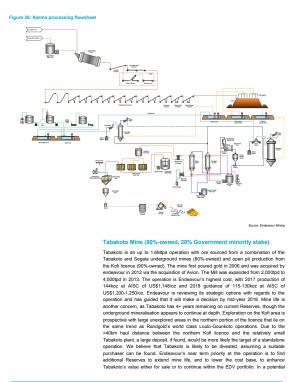
- social Development fund: 1%
 Rambop (tony): 9%
 Mexistry (formerly): 98;
 Mexistry (formerly): 98;
 GoldenSer: applicable on only Goulegou 182 deposits: 0-200koz is 0%; 200-500koz
 is 1%; +500koz is 2%;

Low (US\$/oz)	High (US\$/oz)	Rate
0	1,000	3%
1,000	1,300	4%
1,300+		5%

ed No 0 i918. Autho ed and Regulated by The Financial Conduct Authority. A Men er of the London S ck Exc Real

Endeavour Mining

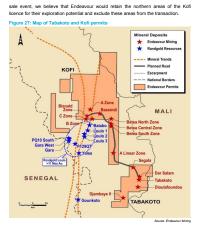
15 March 2018



Registered No 02285918. Authorised and Regulated by The Financial Conduct Authority. A Member of the London Stock Exchange

Endeavour Mining

15 March 2018



Successformed and the second s

The Tabakoto plant is a 4,000tpd (~1.4Mpa, capacity up to 1.5Mpa depending on oxides content) gravity + CL plant. The plant expansion to 4,000qd begin in 2010 and was interrupted by funding instability but recommended in 2013 after 4xion was acquired by Endeavour and was fully commissioned in May 2013. The plant expansion involved the installation of a new 5000kw S4An ill in closed circuit with the existing ball mill. Plant recovery averages 92-95% with an average recovery of 94% in 2017.

Registered No 02285018. Authorised and Regulated by The Financial Conduct Authority. A Member of the London Stock Exchange

E

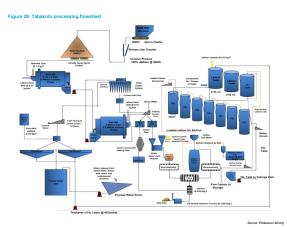
15 March 2018



Burse New Borecast production of 126koz at cash operating outs of US\$820kz at All Section S of US\$8120kz at All Section US\$8120kz at All Section US\$8120kz at All Section S of US\$8120kz at A

ed No 02285918. Authorised and Regulated by The Financial Conduct Authority. A Member of the London Stock Exchange

15 March 2018



Kalana Development Project (80%-owned, 20% Government minority stake)

(80%-owned, 20% Government minority stake) Endeavour acquired the Kalana project through its acquisition of Avnel Mining in 2017. The project has Reserves of 1.96Moz at 2.8g1 Au and Avnel's optimised feasibility study (Jan 2017) envisioned an owner mining, 1.2Mpa gravity + Clu plant with ore field from a single open pit mining the Kalana Deposit. Endeavour is developing its own optimisation study, and we expect an enlarged operation of 1.8-2.0Mpa with production locer to 2000cca. We antioplate that the revised Reserve mentory will include material from the Kalanako deposit, which has been further drilled since the time of Avnel's feasibility study. Other expected changes to the feasibility study include only one stage of relocation, which Avnel had designed as a multi-stage process to reduce upfront costs. Enferte-work has guided that it expects to complete the optimisation study by the end of 2018 with first production in 2420. Our NPV8% for Kalana is US\$310m or \$28.86/hane or 12% of our asset NAV for EDV.

918. Aut ted by The Financial Con luct Authority. A Member of the London Stock Excl ed and Reculi

Endeavour Mining

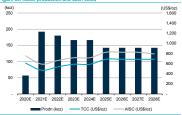
15 March 2018

Table 9: Summary of NUMe development assumptions vs Avnel Optimise

	Avnel Optimisation	NUMo
Throughput (Mtpa)	1.2	1.8-2.0
LOM ore processed (Mt)	21.7	21.7
LOM strip ratio (waste:ore)	9.9	9.9
LOM average head grade (g/t Au)	2.8	2.8
LOM Au recovery (%)	93%	93%
Mine life (years)	18	12
LOM gold produced (koz)	1,821	1,821
LOM average annual production (koz)	101	152
LOM AISC (US\$/oz)	730	736
Yrs 1-5 average annual production (koz)	148	170
Yrs 1-5 average AISC (US\$/oz)	561	604
Initial Capex (US\$m)	171	241
NPV 8%(US\$m)	250	323

Production profil

Figure 30: NUMe production and cash costs



We have modelled a 13-year mine life commencing in 2420 with L00 production of 1.8Moz at AISC of US\$7460c including average annual production of 152koz at AISC of US\$7467 and a production of 0158640cz in the first five full years of producticin 2021-22651; We have modelled a throughput rate of 2.0Mpa in 2021 and 2022£ due to a higher protion of oxides in the cell one, everyting to 1.8Mpa for the remaining life of mine. We model a higher head grade of 3.0-3.1gt Au in the earlier years reverting to 2.65gf from 2025£ for the remaining life of mine. Kalana is assubject to a 3% government revenue royalty and corporate tax rate of a minimum of 1% of revenue or 30% of profits and Endeavour belives that if any negotiate a 5x-year tax holday with the Government of Mai; we have not included this in our assumptions at this time. We forecast that Kalana will royay its hardwolfer lears in 3023, and that minority distributions to the Malian Government will commence thereafter.

Registered No 02285918. Authorised and Regulated by The Financial Conduct Authority. A Member of the London Stock Exchange

Endeavour Minin

15 March 2018

Company History

Conception 1 noticely a maintain ginancial advisory group that pivoted to gold mining with the acquisition of a 55% interest in Eruscan, a gold mining company whose assets included Agbaou and the now-divested Youga gold mein B Rukina Faco, in 2010. The company has subsequently grown via acquisition of both producing mines and pipeline oppiests that have given it a growing production profile and improving asset portfolio. The initial phase of Endeavour's growth was led by a team including CEO Neil Woodyre, which established the company as a multi-asset produce.

The next phase has occurred post the acquisition of La Mancha in which La Mancha's management team, led by Sebastian de Montessus, assumed control of Endeavour while much of Neil Woodyer's team left to start Lesgold, a company focused on a similar aset consolidation model in Latin America. Under Sebastian's leadership, Endeavour has added growth but also focused on improving the quality of its asset portfolio. Below is a summary of we veretts:

- In October 2009 Endeavour acquired a 55% interest in Etruscan by acquiring 153.1m shares via a private placement for US\$43m.
- In September 2010, Endeavour completed the acquisition by way of court-approved plan of the remaining 45% of Etruscan it did not already own for US\$41.4m shares and 15.4m shares.
- In August 2011, Endeavour announced an all-stock merger of equals between Endeavour Mining and Adamus Resources, a TSX and ASX-listed gold producer whose primary asset was the Nazema mine in Ghama. Endeavour became a dual TSX-ASX-listed business with pro-forma production of ~172koz.
- In November 2011, Endeavour divested its financial advisory business
- In mid-2012, Endeavour commenced the construction of Agbaou, which was expected to take group production to ~250koz; in reality Agbaou would exceed its pre-production targets.
- In October 2012, Endeavour acquired TSX-listed Avion Gold whose projects included Tabakoto and the Hounde development project. Endeavour used its balance sheet to recommence Avion's stated plant expansion at Tabakoto. Avion shareholders represented 39.8% of the pro-forma combined entity. Pro forma guidance was increased to 282-30kacz for 2012.
- Endeavour produced 324koz in 2013, and 466koz in 2014, as Agbaou produced 147koz in 2014 in its first full year of production after declaring commercial production in January 2014.
- In November 2015. Endeavour acquired a 55% interest in Ity through the acquisition of La Mancha Africa for 177.1m EOV shares. La Mancha became a 30% shareholder of Endeavour and contributed US580m of cash to the combined group. Sebastian de Montessus became President of Endeavour and a 24-month succession plan was announced whereby Sebastian de Montessus would become CEO and Neil Woodyer would become Executive Chairman. Endeavour's pro-forma production profile became -580koz.
- In January 2016 Endeavour delisted from the ASX and relocated its investor relations functions from Vancouver to Paris. The corporate office was later relocated again, from Paris to London.
- In February 2016, Endeavour divested Youga to MNG Gold for US\$25.3m

Registered No 02285018. Authorised and Regulated by The Financial Conduct Authority. A Member of the London Stock Exchange

ed No 022

5918. Authorised and Regulated by The Financial Conduct Authority. A Member of the London Stock Exchange

Endeavour Mining

15 March 2018

- In April 2016, Endeavour Mining acquired True Gold and its Karma gold project in Burkina Faso, which was then under construction, for G\$226m in shares. True gold shareholders formed 20.88% of the pro-forma company after La Mancha exercised its anti-dilution rights to maintain its 30% shareholding.
- In May 2016, Sebastian de Montessus replaced Neil Woodyer as CEO of Endeavour. Neil Woodyer became non-Executive Chairman.
- In June 2016, Endeavour launched a C\$125m bought deal (upsized to C\$144m) financing and launched the construction of Hounde. Neil Woodyer resigned from the board.
- In August 2016, Frank Giustra resigned from the board of Endeavour. Mr Giustra was important in the founding of the company.
- In November 2016, Endeavour posted a positive Feasibility Study for Ity with a 15year mine life and a Reserve of 1.9Moz and 3.0Mtpa throughput rate.
- In May 2017, Endeavour agreed to increase its Ity stake to 80% from 55% by acquiring a 25% from SODEMI, the state mining company for US\$52m in cash and US\$5/oz of Reserves added post year end 2016 applicable to the Ity mining permit.
- In July 2017, Endeavour agreed to acquire TSX-listed Avnel and its Kalana project for US\$122m in an all-share transaction for ¬7m shares. Avnel shareholders formed 6.8% of the post-transaction share capital.
- In August 2017, Endeavour announced the sale of Nzema to mining contractor, BCM International, for US\$20m in initial cash and up to US\$45m in deferred cash payments based on production milestones.
- In September 2017, Endeavour published the optimised feasibility study for Ity CIL, which increased throughput to 4.0Mtpa based on an enlarged Reserve of 2.9Moz vs 1.9Moz announced a year earlier.
- In October 2017, Endeavour poured first gold at Hounde and achieved commercial production in November 2017.

End r M

15 March 2018

ne P



oard & Key Man

In aggregate the board hold 30% of the company's shares.

(1) Monty (1) Mo

In aggregate the board hold 30% of the company's shares. Sebastian de Montessus, CEO, President and Director², was previously the CEO of the La Mancha. Group since 2012 before its acquisition by Endeenour in November 2015. Pror to La Mancha, Mr de Montessus was a member of the Escucive Board and CeO of AREVA. Henresh integrated houdes "Energy Group, Including CEO of AREVA Mining, which includes mining passes in Niger and Nambia. Before pring AREVA Mining, which includes mining assets in Niger and Nambia. Before Niger AREVA Board, Mr de Montessus was an investment banker at Hougen Stanley In London and is a business graduale from ECOP-Europe Business School In Paris. Vincent Benolt, Executive VP, CPO and Corporate Development, joined Endeavour after the La Mancha transaction in 2015. At La Mancha M: Benoit held the role of EVP, responsible for the development of the group's African footprint, Its European portfolio erstructuring and strategic partnerships. M: Benoit is a Chartered Accountant and holds a business degree from ESC-Bordeaux Business School.

Partick Boisset, Executive VP Exploration and Growth, has held the role of EVP of Exploration since he joined Endeavour in 2015 from La Mancha where he held the role of EVP Exploration and New Ventures. He previously spent more than 20 years overseas with Total, the French oil company, where he was in charge of its exploration activities in Arica. He also opent kit years as a member of the executive committee of Areva mines. Me Boisset holds a master's degree in Geology from Orikans Liniversity and was a baded member of the French Valiand School of Geology.

red No 022 5918. Authorised and Regulated by The Financial Conduct Authority. A Member of the London S lock Exc

Endeavour Mining

15 March 2018

Morgan Carroll, EVP Corporate Finance & General Counsel, has more than 15 year of experience in mining finance and advisory including initially practicing as a mining lawyer at a large multinational law firm in New York and London and corporate and investment banking experience within a number of US and European banks. Mr Carroll joined Endeavour in 2008 and his areas of focus include corporate and project finance, debt and equity capital markets. Mc Ada and corporate development. Mr Carroll is a graduate of Trinhy College Dublin (LL.B, Ling, Germ), the University of London (LLM), is admitted as an Attorney in the State of New York, and as a Solicitor in England & Wales.

Values. Jeremy Langford, COO & EVP Projects, has been with Endeavour / Adamus since 2009 and has successfully managed the development and construction of Hounde. EVVs Nzena, Agbaou and Tabakoto sepansion projects and the implementation of the Agbaou Secondary Crushing Circuit Upgrade and Ity CIL DFS. Prior to Endeavour, Jeremy served as Project Director at Ampelia Mining, Adamus Resources and Ausenco Services where he planned and managed a number of projects in West Africa including construction of Teranga's Sabodala project in Senegal. Mr Langfort holds an honours degree in Mechanical Engineering from RMIT University in Melbourne, Australia began his career as an engineer with the Royal Australian Navy.

Degain in Cales is a training the more than Australiant many. Michael E. Beckett, Chairman and NED, has more than 40 years of experience in the mining sector and has been involved in the development of mines in Africa, Papua New guinea, Western Australia, South Artica and the FSU. He is a former Chair of Ashanti Goldfields and former Managing Director of Consolidated Gold Fields. Mr Beckett is a NED of International Hoels Investment, Northam Platnum, Orica Ltd, Petroamenca Oil Corporation and The Egypt Trust Ltd.

all **a Cockerill**, PED, has nearly 40 years of experience in the mining industry including CEO roles at both Gold Fields and Anglocoal between 1999-2008. He was allos previously responsible for business development at Anglocod. He is currently chairman of Petimin Ltd, a JSE mining company concentrating on built commodities and is an NED of Crica Ltd and serior lead independent director of valence Mmes.

NED of torica Ltd and senor lead independent director of Vanhoe Mires. Olivier Colom, YLED, is a former Franch digiomatic advisor to former President Nicolas Sarkozy, with extensive experience of African affairs. At the French Foreign office, he helped to reform France's development aid programme before specialising in EU affairs. From 2013/2016 he was a member of the Edmond de Rothschild Group's Executive Committee. Mr Colom is currently the chairman of OC Advisory. He is a graduate of the National School of Advisminisation and the Institute of Political Studies in Pairs, and holds a degree in General Public Law (Sorbonne), and a masker dearee in International Law form Pairs X University.

Insuestre usegree in international Law from Yan's X University. Livia Mahler', NED, is currently an independent director of Ivanhoe Mines and is precessing services to the mining and ol & gas industries. Ms Mahler previously served on the Audit and Compensation committees of Diversited Royally Corp., Turquise Hill Resources and DuSolo Fertilizers. Ms Mahler holds a Bachelor of Science degree from the Hebrev University of Jerusalem and an MBA from the University of British Columbia.

Wayne McManus*, NED, has extensive experience in the private banking sector, providing accounting and wealth management services for high net word icents. Mr McManus has an LLM in taxation, a JD and an NEA, and has more than 20 years of academic experience in the accounting field. Mr McManus is a CPA and holds the CFA designation.

Registered No 02285918. Authorised and Regulated by The Financial Conduct Authority. A Member of the London Stock Exchange

Endeavour Mining

Registered No 02

15 March 2018

Naguib Sawiris*, NED, is chairman of Endeavour's advisory board, Chairman of the Board of Orascom TMT and Executive Chairman and CEO of Orascow Telecon Meia and Technology Hoding SAE. The Sawiris Family have interests in the telecom, construction and Relifiesr, cement, rule elestate and hould development influstries and other businesses. Mr Sawiris founded Orascom Telecom Holding and developed it influstries and and the second payer that baceans the world's sub-fragent mobile telecom provider after a merger with Vimpelcom. Mr Sawiris serves on a number of Boards and Councils nucluding the Advisory Committee to the NYSE Board of Directors, the International Advisory Board to the National Bank of Kuwait, the Egyptan Council for Foreign Aftins and the Arab Tought Foundation. Mr Sawiris holds a diploma of Mechanical Engineering with Alasters in Technical Administration from the Swiss Federal Institute of Technology Zuchich ETH Zürch and a Diploma from the German Egypter.

James Askew*, NED, is a mining engineer with more than 40 years of experience as CEO and board member for a range of internationally listed mining and mining-related companies. His is currently on the boards of several companies including as Chairman of Oceana-Gold and Syrah Resources and as a director of Evolution Mining.

1918. Authorised and Regulated by The Financial Conduct Authority. A Member of the London S

lock Exc

Endeavour Mining

15 March 2018

Risks

- Commodity prices: The future price realisable for the company's product will have a significant effect on the future profitability of the company. Some companies will use hedging to mitigate some of this risk, although most prefer to retain ful upside exposure to the underlying commodity. A downtum in commodity prices may lead to lower investment in the industry, which may impact the company's earnings and/or growth potential.
- Costs: Cost inflation above our assumptions could have a greater-than-anticipated impact on group earnings. The cost of raw materials, power, and labour are often dependent no factors outside the company's control. Mining costs are highly dependent on factors such as rock strength and characteristics, as well as the mining method.
- Production & construction: All mines have risk of disruption to production due to unforseen issue regarding health and safety, geology and engineering. Risks to production forecasts can come from delays in the commissioning process for a new project. There are risks to production from the application of new technology that may not perform within the design criteria.
- Political & logistics: Mining companies operate globally and often in areas of high political risk. Changes to the government and/or legislation may impact production and/or earnings in future years. The supply of materials, plant, equipment and personnel may be afficied by local issues beyond the company's control. Some countries may be more challenging in this sepect than oftens.
- Personnel: The success of an operation and/or company often depends on key management and/or highly skilled operations staff, who may be in short supply and/or leave the employ of the company. This may impact operations and/or future growth prospects. Management expentise may also become stretched if the company attempts to grow to orapidy.
- Geological: Reserve and resource estimates are subject to statistical uncertainty and as such carry a risk that earnings could be significantly affected by unexpected changes in throughput, grade and cost.
- Financing: Mining is often highly capital intensive. There is often a risk, especially with a development company, that the necessary debt and/or equity funding may not be available, or may be detrimental to project economics.
- Permitting: Significant delays to the permitting processes could have a material impact on development projects.
- Environmental: Mining carries a risk of damage to the environment and consequent risk of litigation.
- Currency & inflation: Variations in the local exchange rate versus the currency in which revenues are paid (usually US dollars) can impact earnings significantly.

Registered No 02285018. Authorised and Regulated by The Financial Conduct Authority. A Member of the London Stock Exchange

Endeavour Mining

15 March 2018

 y	Tailor	Rating				C contract in contract in the			NTD	Shares Cit	Min Cap VIII -		ALC: NOT	PINEZ
	AGAL	BUY	47.44	0.0	725		C108.02							
	ABC L CEY L	BUY	62.340 (7.85	64.20 G2.00	205	£167.80 £1.21	C10.40	20%	20%	1.112	E 471	4361 E2.111	Dist.	0.0x 0.0x
									- 15					
ian Mar	ENLIDER.ON	BJY BJY	63.88 C626.87	£1.40 CE03.00	275	61.66 CE10.77	CIDE M	22%	-22%	248	E200	\$105 EL207	\$3.67 \$2.034	0.3x 1.0x
		800	CE24.17	CE1100 (14.00	2%	CER 17	CDL M	- 6		108	EQ.438	10.07	82,554	1.04
- Nor	HOCL	HOLD	0.0	62.20	8%	£1.80	0.38	-22%	22%	809 104	81,436	81,520	8791	1.84
ni Gali	LYD 7D	BAY BAY	C10.45	(2.30 (28.70	10	(1.3) (00.3)	61.62 C01.63	- 6		204	£700	1148	830	0.4a 0.5a
tion .	PAPE	BUY	63-18 67.80	60.20 611.00	20	6147 (7.36	61.07 C11.00	-05	-05	1,800	\$188 \$6,716	\$107 84.126	\$KG	0.3a 1.6a
	POLY L PVD TO	BUY	17 M	211.00 URE10.11	204	17.50 URD4.17	LINE O. OT	35	35	100	84,716	84,154	12,049	1.04
	ID:G.L	BAY	43.05	60.12		61.13	65.10			76.0	814	alla a	£9.20	
					805			-98	-95					2.64
	2016	Cold Production 2017	2018	2016	leer Predacti 2017	2015	2016		2018	2016	ABC 28.07	2018	2017	2016
	100	147	455				Big	BUM .	1754	1000	8800	100	11.000	
		80								\$7,455	E1,085		\$4,430	81000
-	-	848	680	~	2		810	8004	200	2014	8771	1710	ELAN N	13,621
				~										
ian -				~*	~	~	~	~	~	~	~	~	-	~
	80 104	463 911	488		ã		BEAS BATM	8079	BRE1 BREN	2005 2007	END EDA	1540 1591	10.400	17.00
1.0		80					8475	8204	80.2	B101	5520	1716	85,210	54.873
ni Celi	272	215	262	~	~	~	8495	8120	8541	800	Soco EAM	\$454 \$755	\$3,180	\$3,064
				- ni			a77			0.00			1010	
hines.	200	178	12%	~*	~	~	8726	8946	\$1,000	8796	8471	\$1,225	\$1,108	\$1,104
	-	1.075	1.184	20	27	28	8170	800A 8700	800	87N	E714 DAM	EA81 E216	84,218	84.00 85.00
	120	1,215	1.248				8120	8520	801	170	2010	1016	85.613	85,379
		80	10											
							8475	8679	BEN	DM	BMA	\$477	\$3,774	83,768
		UILAN	USENN		022.55	USE NA	ULENA	100 40		USENN BUD	LEDWA	LEENA		
-	80.19	83.10	BL 15 (BL 01)	122	80.10	80.25	8.3	10.22	81.21	82.16	11.0	B 10		
										-				
-	(\$0.40) \$0.55	(\$1.60) \$2.75	8.47 8.49	81.M	83.32	82.61 81.29	(81.36)	(82.70) 81.67	(81.40) 81.25	80.30	n.	mai .		
					80.46					\$0.00	\$5.43	8.6		
ni Gali	80.15 80.02	83.23	80.24 80.01	80	80.43	80.43	81 M	81.2A (01.20)	81.07 (80.20)	83.14	\$1.13	85.15		
	(80.07)	10.13	80.01	10.02	80.12	80.10	(81.07)	(81.01)	(81.00)					
										80.01	80.01	8.00		
	80.00	83.81 (83.12)	BL 43 (BL 61)	81.45 (81.00	81.64	81.44	8.10	8.0	8.3	\$2.55	82.44	81.42		
etai -		(85.13)	(81.01)	(0.00) 0.00	(\$5.01)	(\$0.02) \$5.15	(0.40)	(8.7)	(0.40)	81.00	12.00	n.00		
2														
	80-00	(80.2%)	81.62	80.07	80.62	80.05	(81.01)	(81.00)	81.03					

aread Na 02288918. Authorised and Regulated by The Financial Conduct Authority. A Member of the London

ni An

riy. A M

Endeavour Mining

15 March 2018

					PICPPE			FOF York			Div York			
	171		11.00	2.21	2.6	4.9	1625	-0.65	40	12.5%	0.55	0.7%		
Daarat		14				14	-6.2%	-4.9%	-19.2%			-		
Condiar	- 14	-		- 14	- 10		26.5%	-9.9%	-18.8%		-	-		
nut advan	- 10	14		- 14		14	-12.9%	-4.0%	-35.9%	14	-	-		
Independent		-	18.24	10.24	1.6	7.44	-19-2%	-138.9%	23.0%	0.0%	0.0%	0.2%		
(readle	28.6x	22.5x 5.6x	24.8x	13.84	16.5a 3.5a	13.34	27.8%	28.7%	11.4%	1.8%	2.4%	2.0%		
Colden XLar Helbeldd	21.04	26.6x	28.5	4.04	1 hi 5 hi	1.0	-18.1%	12.25	11.05	105	125	1.2%		
Autorid Cold	31.84	26.64	33.2x 8.2x	1.75	10	1.0	17.3%	13.5%	345	125	625	1.2%		
opane com	10.14	14	17.14			10	-115	-11.05	-225	0.05	0.2%	0.75		
- year Dona		4.24	2.7x	120	0.00	1.24	0.05	-935	-175	0.0%	0.5%	0.5%		
Ten Alman	104	7.04	11.04	10.24	6.5	3.0	-7.1%	25.8%	205	12.8%	6.0%	1.8%		
Statute .	11.04	12.8x	13.24	7.61	7.5	7.04	5.25	225	445	125	4.0%	2.85		
Duella Cuili	18.14		4.14	0.94	3.3x	1.34	-28.5%	-1.3%	90.4%	0.0%	0.0%	0.5%		
luoriage	17.8a	16.54	18.54	7.64	88.34	4.54								
	CHO	244	Not Date Lines			MILL		Police Reserve	The Report		104			No. of the second
	Cash	Debi Note	Nel Debi (Lank)	East Autor	···			Evine Reserve	EXTRA Resource		ITDA		ACTIN	Not close ERITER.
	Ceeh 2017 UIDen	244 2817	Nel Delil (cash) 2017 USDen	Cuta Unit	na Iller No	Guid The	Eler To			2017	2018 UIDer	2017	2018	Not close Electron. 2017
Value -	2017 U33m	2017 100-4	2017 U22m (\$10)	Guid Musi 7.40	Riter Mar	0.44 844	÷	1129	U33144 MAL	2017 USD-m 2049	2018 U35m	2017	2018	-
	2017 U35m 881 812		2017 U22an (\$10) \$80	200 7.40 1.20	No.	11.0 2.2	111 1	2725 W	1720 ve Mili 200	2017 USS-m 3540 325	2016 UED-n 8014 8130	2017 8 1.34 12.64	2018 1.3s 2.7s	2017 1 220
Certanin	2017 U35m 811 813 830	2017 USDes 871 8110	2017 UTE-m (\$70) \$85 (\$200)	044 940 7.48 1.23 8.00	-	044 84 12.0 2.2 11.0		5755 W	010 w MU 845 8141 8140	2017 USD-m 3549 326 325	2018 U25m 8414 8130 8299	2007 1.3s 13.6s 6.6s	2011 1.3s 2.7s 5.3s	2007 * 2.3s 2.3s
Designin Designin	2017 U35m 881 833 836 8360 8360	2017 100-4	2017 U35m (\$10) \$85 (\$360) \$1	044 860 7.48 1.23 8.00 6.73	-	0.44 844 12.8 2.2 11.8 8.5		1725 vol 1728 1728 1728 1728 1729	UTDies MAI 545 5141 5140 129	2817 055-4 3549 326 325 325 325 325 325 325	2018 075-4 8414 8130 8399 060	2007 4 1.3s 13.6s 6.4s mi	2011 1.3s 2.7s 8.3s mi	2007 * 2.34 48 (0.24)
Section Destination Destination	2017 U35m 881 835 8360 834 814	2017 1035m 271 2110 315	2017 U32an (\$10) \$88 (\$360) \$1 (\$100) \$1 (\$10)	0444 850 7.48 1.23 8.00 4.75 0.67		044 864 12.0 2.2 11.8 8.8 1.1		100 100 100 100 100 100 100 100 100	0021-++ MU 2141 2140 219 229	2017 USS-m 3049 328 8202 (\$4) (\$70)	2018 U33-w 8414 8130 8399 (84) (87)	2017 + 1.3s 13.6s 6.6s m m	2011 1.3x 2.7x 8.3x mn	2107 4 3.54 408 (6.54) 509
Lesson Declarion Dasaral Contor Del adlari	2017 U35an 881 835 8360 834 831 831 835	2017 0354 871 8110 815	2017 USD-4 (\$10) \$80 (\$300) \$1 (\$10) (\$10)	7.46 1.23 8.03 6.67 1.44		0 add 10 a 2 2 11.8 8.8 1.1 2.1		1109 12355 1255 1255 1255 125 125 125 125 125 12	023/se MU 2141 2140 219 239 230 230	2017 12346 226 226 226 226 226 226 226 226 226 2	2018 UISSee 8434 8330 8309 (84) (87) (838)	2017 - 1.2s 12.6s 6.4s m m m m	2010 1.3s 2.7s 8.3s 60 60 60 60	2017
Lessos Deltanin Daalal Donlar Deltadan	2017 U35m 813 835 8360 834 836 838 838 838	2017 1054 271 2110 315	2017 USDas (\$70) \$80 (\$80) \$1 (\$7) (\$80) \$276	0.46 3.00 4.78 0.67 1.44 8.00		0444 102.0 2.2 11.8 8.5 1.1 2.1 11.8	<u>.</u>	105 w 108 108 108 108 109 109 109 109 109 109 109 109	0221 ve MAI 2142 2140 219 229 230 210 210	2017 000-4 8040 8032 (84) (870) (871) 871	2018 U23	1.3x 1.3x 6.4x m m 22.0x	211 1.34 2.55 8.35 8.06 8.06 8.06	210 4 3.5 6.5 6 8 8 8 8 2.5 8
Sectors Sectors Sectors Sector Sector Sector Sector Sector Sector Sector	2017 U32an 881 833 8340 834 835 835 835 835 835 835 835 835 835 835	2017 1755-4 171 110 - - - - 135 - - - 1300 2309	2017 U22an (\$10) \$80 (\$300) \$1 (\$10) (\$30) \$270 \$277)	0.44 5.00 4.74 6.47 1.44 8.00 4.75 1.44 8.00 8.00 8.00		044 854 12.8 2.2 11.8 8.8 1.1 2.1 2.1 11.8 24.4	100 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2005 w 2009 2006 2006 2006 2006 2006 2008 2008 2008	U32146 9440 543 1347 1310 139 139 139 130 1310 1310 1310	2017 000- 8040 8032 (84) (810) (817) 8171 817000	2018 UTD= 8414 8130 8309 (84) (87) (878) 8128 8128	134 134 64 86 86 86 86 86 86 86 86 86 86 86 86 86	2018 1.3x 2.7x 8.3x 00 00 4.0x 30.0x	2107 4 3.34 409 (0.24) 409 409 409 409 409 409 409 409 409 409
Nala Selavin Selavin Datal Selavin Visita Selavin Visita	2017 U35m 813 835 8360 834 836 838 838 838	2017 125% 171 110 115 115 115 115 115 115 115 115 11	2015 U25m (\$10) 385 (\$240) 31) (\$10) \$174 (\$277) \$277	0.46 Mil 1.28 8.00 4.78 0.47 1.44 8.70 8.30 8.34 1.44		0.44 854 22 118 85 13 21 21 118 244 44	e e e e e e e e e e e e e e e e e e e	105 w 108 108 108 108 109 109 109 109 109 109 109 109	0221 ve MAI 2142 2140 219 229 230 210 210	2017 155m 8549 8235 8332 (\$10) (\$10) (\$11) 871 871 871 871 871 81,000	2018 0755m 8474 8730 8289 (84) (87) 8781 8288 8128 8128 8128 8128	1.5a 1.5a 1.5a 1.5a 1.5a 1.5a 1.5a 1.5a	211 1.5x 2.7x 5.3x 6.0x 6.0x 5.5x	2017 * 3.54 0.01 0.04 0.04 2.04 0.05
Secure Detante Desard Secure S	2017 U325m 881 813 814 814 814 814 815 815 8124 8278 8287	2017 273 271 210 200 2790 200 200 200	2015 (225m) (2515) 888 (2515) 811 (251) (251) (251) (277) 8778 (277) 8777 8777 8777 8777	0.44 7.48 1.23 8.00 6.75 0.47 1.44 8.10 8.46 1.44 8.10 8.46 0.47	14 14 14 14 14 14 14 14 14 14 14 14 14 1	044 854 12.8 11.8 8.8 1.1 2.1 11.8 24.4 4.4 2.4	2000 80 80 80 80 80 10253 80 203	1738 1738 1285 1285 1285 129 129 129 129 129 129 129 129 129 129	033146 944 343 3143 316 319 320 310 310 310 310 3115 322 325 825	2017 1055m 850 853 853 853 853 (810) (811) 871 871 871 870 880 880 8200	2018 U255m 8154 8250 (84) (87) (878) 8228 81,202 840 8320 8320	2017 1.26 1.26 6.44 00 00 12.06	2018 1.3x 2.7x 5.3x 00 00 00 00 00 00 00 00 00 0	2017 * 2.3a (0.3a) .5a .5a .5a .5a .5a .5a .5a .5a .5a
Sections Sections Dataset Sociality	2017 U22an 881 873 836 874 874 876 878 828 828 828 828 828 828 828 828	2007 1271 1110 200 2789 2789 2789 2789 2789 2789 2789 2789	2015 (2326) (2315) 888 (2315) 811 (331) (2310) 8275 (232) 8277 8277 8233 8269 (275) 8277 8233 8269 (275) 8277 8233 8269 (275) 8277 8277 8275 (215) (215) 827 (215) 82	Canks Mos 7.48 1.23 8.00 4.71 6.47 1.44 8.50 8.84 1.44 1.44 1.44 1.44 1.44 1.44 1.44	sterrer t	Cute Bas 223 11.8 8.8 1.1 2.1 11.8 24.4 4.4 2.4 2.4 3.3	a a a a a a a a a a a a a a a a a a a	12554 1285 1285 1285 1285 1285 1248 173 1248 173 1248 174 175 1877 1827 1827 1827	01000 000 543 5141 5180 5180 5180 5180 5180 5180 5180 5180 5180 5190 51	2017 2028 3049 3049 3032 (311) (311) 3270 (311) 3270 3280 3280 2280 2281 2381	2018 2015 2014 2019 (21) 2019 (21) 2019	2011 4 1.3x 13.6x 6.6x 86 86 86 86 86 85 32.0x 13.5x 33.7x 5.3x 5.4x 6.4x 13.6x 14.6x 15.5x 15.6x 15.5x 15	213 275 2.75 2.75 2.75 2.75 2.75 2.75 2.75	111 111 111 111 111 111 111
Sections Sections Section Sect	2017 U3266 881 873 836 874 871 835 875 828 8275 828 8287 828 8287 828	2017 2034 271 2110 213 213 230 230 230 230 230 230 230 230 230	2015 (214) 838 (888) 81 (877) 878 (877) 877 877 877 8303 2009	0.44 7.45 8.00 4.75 1.44 8.10 8.10 8.10 8.14 8.10 8.14 1.45 1.45 1.45 1.45 1.45 1.45 1.45 1	statesee f	Cade Rea 22 11.8 5.5 1.1 2.1 2.1 2.4 2.4 4.4 4.4 2.4 3.5	2000 200 200 200 200 200 200 200 200 20	175 % 2708 2285 2206 222 265 273 273 273 274 275 277 2267	033046 MAU 343 334 336 339 330 330 330 330 330 331 332 335 347 347 340 350 350	2017 155m 200 201 201 201 201 201 201 201 201 201	2018 2019 2019 2019 2019 2019 2019 2019 2019	2011 1.3s 1.3s 1.3s 6.4s m m 1.3s 1	211 1.3x 2.3x 60 60x 2.0x 2.0x 2.0x 2.0x 2.0x 2.0x 2.0x 2.	217 * 234 88 (234) 88 234 88 234 88 034 134
Nessos Settanin Santar Santar Indensour Nessou	2012 2012 881 833 834 834 835 835 835 835 835 835 835 835 835 835	2017 07586 877 879 878 978 8789 8789 8789 8789 8	2015 (210) 288 (2360) 311 (210) 287) 2870 2870 2870 2870 2870 2870 2870 2870	0.44 7.46 1.23 8.00 4.75 0.47 1.44 8.10 8.10 8.10 8.10 0.81 0.81 0.81 0.31 0.31 0.31 0.31 0.31 0.31 0.31 0.3	a saga sa	0.44 12,6 22 11,8 8,8 1,1 2,1 11,8 2,4 4,4 2,4 4,4 2,4 3,3 3,3 0,3 0,3 0,3 0,3 0,3 0,3 0,3 0,3	2049 80 80 80 80 80 80 80 10751 80 2013 80 2013 80 80 80 80 80 80 80 80 80 80 80 80 80	111142 2309 2385 2505 2505 2505 2505 2505 2505 2505 25	012144 0440 343 3141 3140 3140 3140 3150	2017 1235m 1240 1251 1251 (171) (171) (171) 11(000 1260 1260 1261 1260 1261 1260 1261 1260 1261 1260	2555 3653 3130 3299 (81) (81) (81) (81) 328 3128 300 3100 3100 3100 3100 3100 3100 3100	2011 1 1 1 1 1 1 1 1 1 1 1 1	2111 4 1.3x 2.7x 5.3x 60x 50x 50x 50x 50x 50x 50x 50x 50x 50x 5	2017 * 23 0 23 0 0 0 24 0 24 0 24 0 24 0 25 0 26 0 26 0 26 0 26 0 26 0 26 0 26 0 26
Vesoria Detavio Daavat Daavat Daavat Daavat Daavat Vesotia Solae Star Kahadat Solae Star Kahadat Solae Star Solae Solae Solae Solae Solae Solae Solae Solae	2017 887 833 836 834 834 836 836 836 836 837 838 838 837 838 838 833 833 833 833	2017 375 1110 375 376 376 3769 3700 3769 3700 3769 37000 3700 3700 3700 3700 3700 370	2015 (216) 288 (2005) 31 (2005) 2015 (2017) 2016 2016 2016 2017 2017 2017 2017 2017 2017 2017 2017	Crist Mass 7.48 1.23 8.00 4.74 4.74 4.74 8.10 8.50 8.54 1.84 1.84 1.84 1.84 1.84 1.84 1.84 1.24 1.24 1.24 1.24 1.24 1.25 1.24 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25	100 10 10 10 10 10 10 10 10 10 10 10 10	0.44 12.8 22 11.8 8.8 1.1 2.1 1.8 2.4 4.4 4.4 4.4 4.4 5.4 5.4 5.4 5.4 5.4 5	20ar 80 90 90 90 90 90 90 90 90 90 90 90 90 90	1331 to 1338 13	2221w6 2442 240 2747 2730 2730 2730 2730 2730 2750 2750 2750 2750 2750 2750 2750 275	2017 1034 204 205 205 205 205 205 205 205 205 205 205	2018 3150 3150 3130 3130 3130 3130 3130 3130 310 31	2017 13.64 8.64 8.65 8.65 9.05 11.64 9.05 11.64	2018 1.3x 2.7x 3.3x 6.5x	2017 * 3.34 (0.34) 48 0.54 0.54 1.04 0.54 1.04 0.54 1.04 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0
Vesoria Settanin Datakat Datakat Dodawow Natakata Takatas Natakatat Agaland Data Agaland Data Ag	2017 1072m 887 833 834 834 834 835 835 824 825 826 825 828 828 828 828 828 828 828 828 828	2017 2015 871 1150 1250 200	2015 (2026) (2020) 2020 (2020) 2021 (2020) 2020 (2020) 2020 2020 2020 2020	Code Mass 7.46 1.20 4.75 0.47 1.44 8.70 8.74 1.44 8.70 8.74 0.74 0.74 0.75 0.81 0.77 0.81 1.20 1.20 7.748 8.70	10	0.44 12.0 2.2 11.8 8.8 1.1 2.1 11.8 2.4 4.4 2.4 4.4 2.4 14.5 3.3 0.8 22.3 20.9 20.1	20ar 80 30 30 30 30 30 30 30 30 30 30 30 30 30	100 test 100 100 100 100 100 100 100 10	0121w0 MAL 842 813 814 815 825 825 825 821 842 842 844 845 845 845 845 845 845 845	2007 2009 2049 205 205 205 205 205 205 205 205 205 205	2018 3814 3130 3819 (81) (81) (81) 8238 3238 3200 3200 3200 3200 3200 3200	2017 1.35 13.64 6.64 6.64 6.65 12.05 13.75 5.35 5.46 (86.46) 0.25 6.05 8.25 2.75	2018 1.35 2.75 8.35 8.55 8.55 8.55 8.55 8.55 8.55 8.75 4.65 8.75 2.25	2007 + - - - - - - - - - - - - -
Areania Declaratio Declaratio Declaratio Declaration D	2017 887 833 836 834 834 836 836 836 836 837 838 838 837 838 838 833 833 833 833	2017 375 1110 375 376 376 3769 3700 3769 3700 3769 37000 3700 3700 3700 3700 3700 370	2015 (216) 288 (2005) 31 (2005) 2015 (2017) 2016 2016 2016 2017 2017 2017 2017 2017 2017 2017 2017	Crist Mass 7.48 1.23 8.00 4.74 4.74 4.74 8.10 8.50 8.54 1.84 1.84 1.84 1.84 1.84 1.84 1.84 1.24 1.24 1.24 1.24 1.24 1.25 1.24 1.25 1.25 1.25 1.25 1.25 1.25 1.25 1.25	100 10 10 10 10 10 10 10 10 10 10 10 10	0.44 12.8 22 11.8 8.8 1.1 2.1 1.8 2.4 4.4 4.4 4.4 4.4 5.4 5.4 5.4 5.4 5.4 5	20ar 80 90 90 90 90 90 90 90 90 90 90 90 90 90	1331 to 1338 13	2221w6 2442 240 2747 2730 2730 2730 2730 2730 2750 2750 2750 2750 2750 2750 2750 275	2017 1034 204 205 205 205 205 205 205 205 205 205 205	2018 3150 3150 3130 3130 3130 3130 3130 3130 310 31	2017 13.64 8.64 8.65 8.65 9.05 11.64 9.05 11.64	2018 1.3x 2.7x 3.3x 6.5x	2017 * 3.34 (0.34) 48 0.54 0.54 1.04 0.54 1.04 0.54 1.04 0.54 0.54 0.54 0.54 0.54 0.54 0.54 0

Regulatory Notice & Disclaimer The research assiyet who prepared the research report was Justin Charu-ter and the second second second second second second second compensation based upon vehicle labols labols (such as the general perception of the says/srs ability and commenter to the array analycial work) and on the overall revenues locking the investment banking revenues and trading revenues of Nume and/or one or more of the aflicates.

— — — — — MARE UN BRITIES. The company has ease a wind if the nucle and has made mixer factual comments that have have incorporated. Notari of the context of the sessent-in report may be copied, forwarded or duplicated in any timo by any means without the prior consent of Numis and Numis accels to ability whatabeer of the accidence of the agines in this report. Numis research is being produced in accordance with COBS 12.3 as Non-Independent Research.

The following disclos ires are addresse US-based recipients.

/st Ce The analysts hereby certify that all of the views expressed herein accurately reflect the their personal views about any and all of the subject securities and/or issuers at the date of original publication of this document.

The research analysts who prepared this research report also certify that no part of their compensation was, is or will be, directly or indirectly, related to the specific recommendations or views expressed by them in the research report.

Important Disclosure The research report has been prepared and approved by Namis Securities Limited ("Namin"), assumities detail in the United Kingdon. Namis is not a registered the preparation of research reports and the independence of research analysis. The research report is provided in the United States for distribution creatived is statistical independence of the states of the exception for ingrituding creatived recipient of the research report withing to effect any transaction bary or gain statistical independence of the states of the exception for ingrituding creatived recipient of the research report withing to effect any transaction bary or gain statistical independence of the states of the exception of the research recipient Materia Area and Materia ("Area"). Under an or community of the states of the Materia Area and Materia of Namis. Looker on communities broad any respect Namis Inc. as adfiliate of Namis. Looker on communities broad any moment Namis.

Numia. Numia fin. accepts responsibility for the contents of this research report, subject to the terms set out below, to the extent that it is delivered to a U.S. person other than angior U.S. institutional investion. Numis, Numis Inc. and/or their affiliates, directors, differes, and employees may have or their bad interests, or long or short positions, and may at any time make purchases or sales as a principal or agent of the subject companies mentioned or referred to in this report.

Numis, Numis Inc. and/or their affiliates, directors, officers, and employees may have or have had interests, or long or short positions, and may at any time make purchases or sales as a principal or agent of the subject companies mentioned or referred to in this report.

Additional Diactionaria Multimotal Diactionaria the Munis Societtiane Ministri Yansaachi regort is to diabitution only under such discuttations as may be permitted by applicable law. This research regorts where the second second second second second second second second models of any societ discuttation of the second to say or all second second second second second second second second to say or all second second second second second second second second to say or all second second second second second second second second to say or all second second second second second second second second to say or all second second second second second second second second the say or all second second

preparation or publication; provided that this shall not exclude nt that this is impermissible under the law relating to UK financial research report's liability to the exte

15 March 2018

sendor. Interesting in any nor-U.S. securities or related financial instruments (including ADPs) docusted in the research region may present certain inits. The souther ADPs is docusted in the research region may present certain inits. The souther of the U.S. Souther and the control of the control of the securities or related financial instruments may be limited. Foregoint provide the south on U.S. Souther and the region of pactosismics in regulatory sequences that products on the control of the control of the south nor-U.S. research and the region of pactosismic regulatory explanations and the south of the south of the south one of the theory performance. The value of any investment or income from any southers and run that are the investment of the south of the south research to them performance. The value of any investment or income from any southers and run that are the investment on the south one that the south of the instance there is a souther the south of the south of the souther or southers and the south the function of the packing of adverse deficient of the south of the limited the souther or solutions and the souther souther or solutions and the solutions the souther or solutions and the solution in the solution of the souther or solutions and the solution in the souther or solutions and the solution in the solution of the south of the solution of the solutions in the solutions in the souther or solutions and the solutions the souther or solutions and the solut

following disclosur -US-based recipients non

The informing unsate is a section of the section of

negrons, while default or frank or not all it exclude or restort my labble it has the memory behaviour of the second set of the time and action of the time of the second second second set of the time and action of the time of decounter of and or its and second the time and action of the time of decounter of and the second second time of the second second insettents to compare the second second second second second second and the second second second second second second second second an investment recommendation is any time data and time of desammidion. In the second second second second second second second second second an investment recommendation is all which is call and the second second barbary and the second secon

E

may have a long or short position in the companies mentioned in this investment recommendation, and may have necessived sustainmer orders to buy or sell instruments in the companies reasonable and this investment encommendation. If Numis Nobla a linestment recommendation, this is separately decisioad, not company of an analysis reasonable expresses to with their premises or offered models hospitality or instrument relation are mainting on registers.

analysis executed as a second to the premises or effect models hospitally based where executed as a second to the premises or effect models hospitally bases of however executed as a second to the second to the second deen of our a subcey or their position in the second hospital to the material bases of the second to the second to the second to the our subcey or the second to the second term to the second to the second to the second to the second term to the second term to the second to the second term term to the second term to the se

Valuation, Key Assumptions and Risks

Indication, Rey Assumptions and Risks longer investment recommendation, bylically ore from pages, details relating valuation (including material information about proprietary models), key sumptions and risks will typically be included in the document. For other vestment recommendations please refer to <u>the new access convesses</u> responses millor this information, the relevand company section of the Namis website.

Ratings Key A target price is set with a 12 month horizon from the time of publication. In making a rating the analysis should compare their target price with the actual share price and then make a rating derived from the percentage thus accluated:

Buy	>= +20%
Add	>= +10% to +19.99%
Hold	0% to +/-9.99%
Reduce	<= -10% to -19.99%
Sel	<= -20%

Upon the initial establishment of a rating and target price for a company, an additional 10 % deviation in the price from the default bands set out above is permitted before the rating has to be changed in subsequently published investment recommendations.

Distribution of Ratings

	01/01/2017	uirement - 31/12/2017	UK Requirement 01/10/2017 - 31/12/2017				
	All Securities	Corporate Clients	All Securities	Firms provided with material			
				banking			
Buy	37.9%	62.8%	42.0%	60.3%			
Add	27.2%	29.7%	25.0%	28.8%			
Hold	29.5%	7.4%	26.3%	10.9%			
Reduce	3.9%	0.0%	3.6%	0.0%			
Sell	1.6%	0.0%	3.1%	0.0%			
Total	100%	100%	100%	100%			
	The above table split of recomm based on the la recommendation research stock four calendar q	endations ist on for each during the last	The above table shows the split of recommendations based on all recommendations during the last calendar quarter for all securities and within each category the proportion of issuers to which Numis supplied material banking services.				

For a list of all ratings on any financial instrument or issuer disseminated by the Research Department of Numis Securities Ltd. during the preceding 12-month period, please refer to <u>www.numis.com/vhans.html</u>. On request, the Numis Securities Ltd Compliance Department will provide a list of all ratings disseminated by other employees of Numis Securities Ltd.

following graphs display the three year rating, target price and share price any for the subject corporation(s) of this investment recommendation. In those noces, where the subject corporation(s) have been publicly traded for less than

5918. Aut ed and Regul ed by The Fi N. A. er of the London Stock Exchange

three years, the graph will show the history since the date the subject corporation(s) were admitted to trading. Prices in the graph(s) below are in pence unless otherwise stated.

15 March 2018



