

# RBC Capital Markets

September 19, 2016

## **Precious Metals & Minerals Weekly Valuation Tables**

# Charts of the week: Performance and valuations of junior gold companies

This week, we highlight the year-to-date outperformance of junior gold companies versus the larger cap gold producers, and the sharp increase in Enterprise Value (EV) per ounce valuations.

As shown in Exhibit 1, the GDXJ index of smaller cap gold companies (up 129% YTD) is holding near highs of the year despite a recent pull back in the gold price, and since May has outperformed the GDX index of larger cap names, which has risen by 89% YTD. Similarly, junior gold companies we track are currently trading at an average EV/oz valuation of \$64/oz versus the YTD high of \$74/oz seen in mid-August, the highest level since the \$70/oz observed in 2011 and well above the \$20–30/oz range of the 2013–2015 trough (Exhibit 2). We believe these valuations are in part due to a scarcity of higher quality gold projects, and we would expect a pick-up in M&A activity and the junior gold companies to continue to post strong relative returns during the remainder of 2016.

In our view, development-stage gold companies with high quality projects include **Dalradian Resources**, **Continental Gold**, **Lundin Gold**, **Pretium Resources**, **Premier Gold**\*, and **Sabina Gold & Silver**.

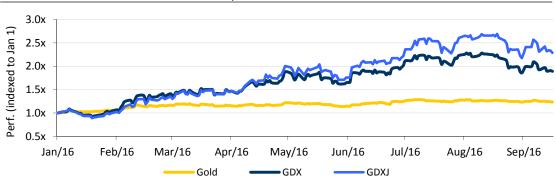
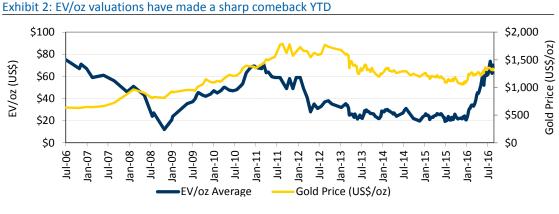


Exhibit 1: YTD returns of the GDXJ have surpassed the GDX in recent months

Source: Bloomberg, RBC Capital Markets



Source: Bloomberg, Thomson ONE, RBC Capital Markets

\* RBCCM acted as a financial advisor to Premier Gold Mines Ltd. on a transaction that was announced on July 28, 2016. For more details, please refer to Required Conflicts Disclosures.





## **Analyst Marketing**

Date	Analyst	Coverage Universe	Location
September 19	Tyler Broda	Precious Metals & Materials	Denver
September 21	Paul Hissey	Australian Gold & Base Metals	Denver
September 21	Fraser Phillips	Base Metals, Large Cap Focus	Hong Kong
September 26	Stanhan Walker		Winnipeg
October 11	Stephen Walker Dan Rollins	North American Precious Metals	Los Angeles
October 12	Dall Kullins		San Francisco
September 27-28	Paul Hissey	Australian Gold & Base Metals	Sydney
September 29	Paul hissey	Australian Gold & Base Metals	Melbourne
September 27-29	Tyler Broda	Precious Metals & Materials	London
October 4	Tyler Broda	Precious Metals & Materials	Doric
October 4	Ioannis Masvoulas	European Steel & Large Cap Diversified Metals	Paris

## **Corporate Marketing**

Date	Company	Representatives	Location
September 22	Resolute Mining	John Welborn, CEO	San Francisco
September 26-27	Resolute Mining	John Weiborn, CEO	Sydney
September 19-23			London
September 26		Johan Dinnangar CEO	Nassau
September 27-28	Petra Diamonds	Johan Dippenaar, CEO	New York
September 29		Salisha Ilyas, Investor Relations	Boston
September 30			Toronto
September 23		Greg Lang , President & CEO	Hong Kong
September 25-26	NovaGold Resources	Igor Levental, Independent Director	Shanghai
September 28-29		Mélanie Hennessey, VP, Corp Communications	Tokyo
Contombor 27.20	Polymetal International		Landan
September 27-28	Plc	Vitaly Nesis, CEO	London

## **RBC Events**

Date	Торіс	Location	Registration
September 18-21	Denver Gold Forum	Colorado Springs, CO	
September 20	Teck Resources – Australian Investors Video Conference	Sydney Melbourne	Please contact your RBC CM sales representative
November 15	Senior Gold Conference	London, UK	



## **RBCCM Precious Metal Price Forecasts (US\$/oz)**

Metal	2015A	2016E	2017E	2018E	2019E	2020E	Long-Term
Gold	\$1,159	\$1,325	\$1,500	\$1,500	\$1,400	\$1,300	\$1,300
Silver	\$15.67	\$19.30	\$25.00	\$25.00	\$22.00	\$19.25	\$19.25
Platinum	\$1,053	\$986	\$1,050	\$1,100	\$1,150	\$1,150	\$1,200
Palladium	\$692	\$592	\$700	\$750	\$800	\$800	\$800

Source: RBC Capital Markets estimates

## **RBCCM Base Metal Price Forecasts (US\$/lb)**

Metal	2015A	2016E	2017E	2018E	2019E	2020E	Long-Term
Aluminum	\$0.75	\$0.70	\$0.75	\$0.80	\$0.90	\$0.95	\$0.90
Copper	\$2.50	\$2.10	\$2.25	\$2.50	\$2.75	\$3.00	\$2.85
Lead	\$0.81	\$0.80	\$0.81	\$0.81	\$0.82	\$0.83	\$0.85
Moly	\$6.59	\$5.49	\$5.84	\$5.87	\$5.87	\$5.87	\$7.50
Nickel	\$5.37	\$4.15	\$5.00	\$6.00	\$7.00	\$8.00	\$8.00
Uranium	\$36.97	\$31.00	\$35.00	\$45.00	\$50.00	\$70.00	\$65.00
Zinc	\$0.88	\$0.85	\$1.10	\$1.30	\$1.50	\$1.50	\$1.00

Source: RBC Capital Markets estimates

## Weekly Gold ETF Inflows/Outflows (MMoz)

(MMoz)	Total Known	W/W G	old Flows	SPDR	W/W G	old Flows	Rest of	W/W Gold Flows		
	ETF Holdings	(MMoz)	(% Change)	Gold ETF	(MMoz)	(% Change)	World	(MMoz)	(% Change)	
Current	64.8	-0.17	-0.3%	30.0	-0.25	-0.8%	34.8	0.08	0.2%	
1 Week Ago	64.9	0.08	0.1%	30.2	0.07	0.2%	34.7	0.01	0.0%	
2 Weeks Ago	64.9	-0.48	-0.7%	30.2	-0.60	-2.0%	34.7	0.12	0.3%	
3 Weeks Ago	65.3	0.13	0.2%	30.8	0.02	0.1%	34.6	0.11	0.3%	
4 Weeks Ago	65.2			30.7			34.5			

Source: Bloomberg



#### Tier I, II, & III Gold Producers - Valuation Summary

Ther i, ii, & iii doit				timates		Perfo	rmance	Divi	dend			Valua	tion				2017E Oper	ations	Low	erage	Liquidity
		Rating &	KDC ES	Target	Ret. to	Perio	mance	DIVI	uenu			201				Prod	2017E Oper 2 yr	Cash Costs	LEV	Debt to	Cash
Company	Ticker	Risk	Price	(12m)	Target	QTD	YTD	/sh	Yield	NAV	P/NAV	CFPS	P/CF	EPS	P/E	(000oz)	CAGR	(\$US/oz)	(MM)	Capital	2016E
	TTERET	NISK	Frice	(1211)	raiger	QID	110	/311	neiu	NAV.	1/100	CITS	170	L13	1/2	(00002)	CAGIN	(\$03/02)	(iviivi)	Capital	20102
Tier I Gold Producers								4										1			
AngloGold Ashanti	ANG	0	R216.64	R440.00	103%	(19%)	104%	\$0.00	0.0%	R217.57	1.00x	R5.56	2.8x	R3.28	4.7x	3,644	(2%)	\$639	\$2,514	44%	\$833
Barrick Gold	ABX	SP	\$17.34	\$25.00	45%	(19%)	135%	\$0.08	0.5%	\$13.51	1.28x	\$3.01	5.8x	\$1.20	14.5x	5,170	(8%)	\$546	\$9,000	53%	\$3,179
Gold Fields	GFI	SP	R67.58	R120.00	78%	(5%)	60%	\$0.02	0.4%	R84.64	0.80x	R1.52	3.1x	R0.97	4.9x	2,290	3%	\$553	\$1,804	36%	\$671
Goldcorp	GG	U	\$15.57	\$20.00	29%	(19%)	35%	\$0.08	0.5%	\$13.76	1.13x	\$2.55	6.1x	\$0.89	17.5x	3,045	(6%)	\$488	\$2,500	16%	\$459
Kinross Gold	KGC	0	\$4.09	\$8.00	96%	(16%)	125%	\$0.00	0.0%	\$3.64	1.12x	\$1.30	3.1x	\$0.42	9.7x	2,824	4%	\$717	\$1,782	29%	\$737
Newcrest Mining	NCM	SP	A\$21.12	A\$24.00	15%	(8%)	63%	C\$0.20	0.9%	A\$13.21	1.60x	A\$2.05	7.7x	A\$1.09	14.5x	2,479	1%	\$637	\$2,160	23%	\$53
Newmont	NEM	0	\$38.26	\$59.00	54%	(270)	113%	\$0.10	0.3%	\$25.99	1.47x	\$5.98	6.4x	\$2.64	14.5x	5,123	1%	\$669	\$5,190	30%	\$4,337
Global					60%	(13%)	91%		0.4%		1.20x		5.0x		11.5x		(1%)	\$607		33%	
North American					56%	(14%)	102%		0.3%		1.29x		5.3x		14.0x		(2%)	\$605		32%	
Tier II Gold Producers																					
Acacia Mining	ACA	0	£4.73	£6.75	43%	5%	163%	\$0.04	0.7%	£5.33	0.89x	\$1.45	4.2x	\$0.84	7.4x	771	3%	\$640	\$102	5%	\$371
Agnico-Eagle	AEM	SP	\$51.44	\$67.00	31%	(4%)	96%	\$0.40	0.8%	\$37.07	1.39x	\$5.58	9.2x	\$2.19	23.5x	1,700	1%	\$537	\$1,170	21%	\$669
Alamos Gold	AGI	SP	\$7.91	\$12.00	52%	(8%)	140%	\$0.02	-	\$9.19	0.86x	\$0.88	9.0x	\$0.32	24.8x	415	16%	\$761	\$320	15%	\$287
B2Gold	BTO	0	C\$3.59	C\$5.50	53%	11%	156%	-	-	C\$3.41	1.05x	\$0.44	6.2x	\$0.21	12.9x	637	14%	\$566	\$529	27%	\$189
Centamin	CEY	SP - Spec	£1.35	£1.90	41%	2%	109%	-	-	£1.20	1.12x	\$0.25	7.0x	\$0.17	10.3x	499	7%	\$564	\$0	0%	\$357
Centerra Gold	CG	SP	C\$7.39	C\$9.50	31%	(4%)	12%	C\$0.15	2.7%	C\$10.72	0.69x	\$1.72	3.3x	\$0.56	10.0x	728	17%	\$710	\$400	13%	\$195
Detour Gold	DGC	0	C\$27.84	C\$45.00	62%	(14%)	93%	-	-	\$20.38	1.03x	\$2.86	7.4x	\$1.24	17.0x	638	12%	\$640	\$358	16%	\$182
Eldorado Gold	EGO	0	\$3.99	\$7.00	76%	(11%)	34%	\$0.01	0.2%	\$5.15	0.78x	\$0.37	10.9x	\$0.19	20.9x	403	(23%)	\$575	\$600	15%	\$840
Evolution Mining	EVN	0	A\$2.34	A\$3.10	34%	2%	72%	A\$0.03	1.3%	A\$1.88	1.24x	A\$0.57	4.1x	A\$0.38	6.2x	815	37%	\$467	A\$296	16%	A\$17
IAMGOLD	IAG	SP	\$3.99	\$6.50	63%	(4%)	181%	-	-	\$4.26	0.94x	\$0.90	4.5x	\$0.27	14.6x	847	2%	\$820	\$485	18%	\$709
New Gold	NGD	SP	\$4.44	\$5.50	24%	1%	91%	-	-	\$3.84	1.16x	\$0.57	7.8x	\$0.13	35.2x	425	(1%)	\$424	\$975	32%	\$120
Northern Star	NST	SP	A\$4.16	A\$4.70	15%	(16%)	50%	A\$0.07	1.7%	A\$3.95	1.05x	A\$0.79	5.3x	A\$0.51	8.2x	516	(5%)	\$578	A\$14	3%	A\$315
OceanaGold	OGC	0	A\$4.39	A\$6.50	49%	(14%)	64%	\$0.04	1.2%	\$3.85	1.14x	\$0.64	5.1x	\$0.41	8.0x	534	13%	\$493	\$243	16%	\$59
Polymetal	POLY	0	£10.12	£14.60	45%	(3%)	73%	\$0.09	0.7%	£9.84	1.03x	\$2.31	5.7x	\$1.84	7.2x	985	7%	\$507	\$1,352	60%	\$184
Randgold Resources	RRS	SP	£73.60	£98.00	34%	(12%)	78%	\$0.50	0.5%	£47.04	1.56x	\$7.58	12.6x	\$5.02	19.0x	1,095	2%	\$625	\$3	0%	\$328
Regis Resources	RRL	SP	A\$3.85	A\$3.80	2%	13%	66%	A\$0.13	3.4%	A\$2.39	1.61x	A\$0.59	6.5x	A\$0.45	8.6x	318	1%	\$567	A\$3	1%	A\$100
Sibanye Gold	SGL	SP	R49.00	R70.00	44%	(2%)	114%	R1.00	0.9%	R40.87	1.20x	R18.48	2.7x	R15.46	3.2x	1,578	1%	\$630	R4,632	18%	R3,048
Tahoe Resources	THO	SP	C\$17.66	C\$27.00	55%	(9%)	48%	\$0.24	1.8%	C\$17.62	1.00x	\$1.81	7.4x	\$1.29	10.4x	387	49%	\$700	\$49	2%	\$231
Yamana Gold	AUY	SP	\$4.39	\$7.00	60%	(16%)	136%	\$0.03	0.7%	\$4.49	0.98x	\$0.91	4.8x	\$0.33	13.5x	1,304	1%	\$583	\$1,701	25%	\$241
Global					43%	(4%)	94%		0.9%		1.09x		6.5x		13.7x		8%	\$599		16%	
North American					51%	(6%)	99%		0.6%		0.99x		7.0x		18.3x		9%	\$631		18%	
Tier III Gold Producers																					
Alacer Gold	ASR	SP	C\$3.37	C\$4.00	19%	9%	36%	-	-	\$2.97	0.86x	\$0.24	10.6x	\$0.05	>30x	115	(16%)	\$681	\$50	7%	\$174
Argonaut Gold	AR	SP	C\$3.66	C\$4.50	23%	(4%)	208%	-	-	C\$3.41	1.07x	\$0.49	5.7x	\$0.12	24.1x	129	(0%)	\$762	\$3	0%	\$81
Asanko Gold	AKG	SP - Spec	C\$5.34	C\$7.00	31%	8%	163%	-	-	\$3.93	1.03x	\$0.69	5.9x	\$0.29	13.8x	189	-	\$651	\$164	30%	\$38
Beadell	BDR	SP	A\$0.43	A\$0.50	18%	12%	204%	-	-	A\$0.41	1.05x	A\$0.12	3.6x	A\$0.09	4.5x	168	17%	\$486	A\$37	14%	A\$89
Dundee Precious Metals	DPM	0	C\$3.47	C\$5.00	44%	13%	171%	-	-	\$5.16	0.67x	\$0.65	4.1x	\$0.35	7.5x	118	(8%)	\$844	\$165	21%	\$94
Guyana Goldfields	GUY	O - Spec	C\$8.74	C\$10.00	14%	(6%)	184%	-	-	\$9.66	0.91x	\$0.87	7.6x	\$0.51	13.0x	216	145%	\$648	\$98	23%	\$120
Klondex Mines	KDX	O - Spec	C\$7.26	C\$8.50	17%	55%	157%	-	-	\$5.27	1.38x	\$0.94	5.8x	\$0.56	9.9x	233	48%	\$473	\$35	9%	\$120
Newmarket Gold	NMI	0	C\$4.25	C\$7.00	65%	12%	215%	-	-	C\$4.06	1.05x	C\$1.14	2.8x	C\$0.59	5.5x	249	6%	\$605	\$1	0%	\$126
Premier Gold Mines Ltd.	PG	O - Spec	C\$4.35	C\$6.00	38%	14%	65%	-	-	C\$5.03	0.86x	C\$0.65	6.7x	C\$0.02	>30x	139	-	\$651	\$92	22%	\$110
Primero Mining	PPP	SP - Spec	\$1.51	\$2.25	49%	(27%)	(34%)	-	-	\$3.27	0.46x	\$0.74	2.0x	\$0.28	5.3x	209	(3%)	\$535	\$127	16%	\$71
Resolute Mining	RSG	SP	A\$2.13	A\$2.00	-5%	66%	752%	A\$0.02	0.8%	A\$1.52	1.40x	A\$0.49	4.4x	A\$0.41	5.2x	298	(4%)	\$669	A\$0	0%	A\$80
Roxgold	ROG	O - Spec	C\$1.58	C\$2.25	42%	3%	126%	-	-	C\$1.25	1.27x	C\$0.28	5.7x	C\$0.13	12.5x	88	-	\$496	\$104	47%	\$83
Saracen Mineral Holdings	SAR	0	A\$1.39	A\$2.00	44%	(3%)	128%	-	-	A\$1.37	1.02x	A\$0.36	3.9x	A\$0.24	5.8x	293	32%	\$571	A\$4	1%	A\$34
SEMAFO	SMF	SP	C\$5.47	C\$8.00	46%	(12%)	56%	-	-	\$4.20	0.99x	\$0.53	7.8x	\$0.32	13.1x	217	(3%)	\$581	\$60	8%	\$297
Silver Lake	SLR	O - Spec	A\$0.50	A\$0.90	78%	(2%)	181%	-	-	A\$0.75	0.68x	A\$0.22	2.3x	A\$0.12	4.3x	135	5%	\$606	A\$6	3%	A\$39
Silver Standard	SSRI	SP	\$11.97	\$18.00	50%	(8%)	131%	-	-	\$11.41	1.05x	\$1.95	6.1x	\$1.36	8.8x	406	8%	\$697	\$265	22%	\$315
Teranga	TGZ	SP	C\$1.32	C\$1.50	14%	15%	169%	-	-	\$1.07	1.23x	\$0.28	3.5x	\$0.16	6.3x	224	(17%)	\$737	\$14	3%	\$132
Timmins Gold	TMM	SP - Spec	C\$0.64	C\$1.00	56%	35%	237%	-	-	C\$0.97	0.66x	\$0.06	7.7x	\$0.02	>30x	64	-	\$863	\$1	1%	\$29
Torex Gold	TXG	O - Spec	C\$28.43	C\$40.00	41%	23%	126%	-	-	C\$18.80	1.15x	\$3.62	6.0x	\$1.45	14.9x	380	15%	\$596	\$405	38%	\$136
Global				24.000	36%	11%	172%		0.0%		0.99x	+	5.4x		9.7x		15%	\$639		14%	
North American					37%	8%	139%		0.0%	1	0.98x		5.9x	1	11.2x		16%	\$655		16%	
		1								-		-									
Indices and Gold			\$1,317			(0%)	24%														
Gold S&P/TSX Gold Index			\$1,317			(0%)	24%														
			236			(6%)	82% 5%														
S&P 500			2,144			2%	5%														

Long-Term Price Assumptions: Gold: 2016 = \$1,323; 2017 = \$1,500; 2018 = \$1,500; 2019 = \$1,400; 2020+ = \$1,300; Silver: 2016 = \$19.30; 2017 = \$25.00; 2018 = \$25.00; 2018 = \$22.00; 2020+ = \$19.25

Priced as of market close September 16 2016.

Source: Company Reports, RBC Capital Markets estimates. Please see footnotes on page 12



#### **Emerging Gold Producers - Valuation Summary**

	RBC Estimates						Perfor	mance		Mineralization		Valuation				Liquidity		
		Rating &		Target	Ret. to	52wk	52wk			Reserve	Resource			EV/	EV/	Cash	Shares	Mkt Cap
Company	Ticker	Risk	Price	(12m)	Target	Low	High	QTD	YTD	(P&P) (3)	(M&I) (3)	NAV	P/NAV	Rsrv	Rsrc	2016E	(MM)	(US\$M)
		1																
Emerging Gold Producers																-		
Continental Gold	CNL	O - Spec	C\$4.26	C\$5.50	29%	C\$1.28	C\$4.61	17%	171%	3.7	4.5	\$4.13	1.03x	\$105	\$87	\$31	129.5	\$418
Dalradian	DNA	O - Spec	C\$1.50	C\$2.50	67%	C\$0.62	C\$1.68	53%	90%	-	2.1	C\$2.56	0.58x	n.m.	\$115	C\$34	241.5	\$274
Gold Road Resources	GOR	O - Spec	A\$0.62	A\$0.80	29%	A\$0.35	A\$0.75	(5%)	62%	-	4.7	A\$0.62	0.99x	n.m.	\$51	A\$91	594.9	\$276
Lundin Gold	LUG	O - Spec	C\$5.59	C\$6.50	16%	C\$3.75	C\$6.62	1%	47%	4.8	7.4	C\$6.43	0.87x	\$86	\$56	C\$46	101.2	\$428
Midas Gold Corp.	MAX	SP - Spec	C\$0.82	C\$1.25	52%	C\$0.25	C\$1.22	(11%)	165%	4.6	6.6	C\$0.94	0.87x	\$21	\$14	\$35	160.8	\$100
NovaGold Resources	NG	SP - Spec	C\$6.93	C\$10.00	44%	C\$4.05	C\$9.56	(12%)	19%	19.7	28.5	C\$9.57	0.72x	\$86	\$59	C\$37	317.3	\$1,665
Pilot Gold	PLG	O - Spec	C\$0.70	C\$1.05	50%	C\$0.22	C\$0.95	(5%)	130%	-	1.3	\$0.81	0.66x	n.m.	\$49	\$10	136.3	\$72
Pretium	PVG	SP - Spec	C\$13.40	C\$19.00	42%	C\$5.74	C\$16.17	(7%)	93%	7.5	9.6	C\$17.35	0.77x	\$222	\$173	C\$294	179.7	\$1,823
S2 Resources	S2R	SP - Spec	A\$0.65	A\$0.60	-8%	A\$0.11	A\$0.86	128%	306%	-	0.1	A\$0.57	1.14x	n.m.	n.m.	A\$16	216.0	\$105
Sabina Gold & Silver	SBB	SP - Spec	C\$1.31	C\$1.25	-5%	C\$0.35	C\$1.87	18%	79%	2.5	5.6	C\$1.17	1.12x	\$85	\$38	C\$42	216.7	\$215
Global					32%			18%	116%				0.88x	\$101	\$72		229.4	\$538
Indices and Gold																		
Gold			\$1,317					(0%)	24%									
								1000	000/									

S&P/TSX Gold Index 236 (6%) 82%   S&P 500 2,144 2% 5%	Gold	\$1,317	(0%)	24%	
	S&P/TSX Gold Index	236	(6%)	82%	
	S&P 500		2%	5.96	

#### Silver Producers and Royalty & Streaming Companies - Valuation Summary

			RBC Est	timates	Perfor	mance	Divi	dend			Valuat	ion				2017E Opera	ations	Leve	erage	Liquidity	
		Rating &		Target	Ret. to							2017	'E			Prod	2 yr	Cash Costs	LTD	Debt to	Cash
Company	Ticker	Risk	Price	(12m)	Target	QTD	YTD	/sh	Yield	NAV	P/NAV	CFPS	P/CF	EPS	P/E	(000oz)	CAGR	(\$US/oz)	(MM)	Capital	2016E
Silver Producers																					
Coeur Mining	CDE	0	\$12.43	\$19.00	53%	17%	401%	-	0.0%	\$10.76	1.16x	\$2.28	5.5x	\$1.03	20.4x	17.2	3%	\$14.9	\$478	44%	\$219
Fresnillo	FRES	U	£16.16	£14.60	-8%	(2%)	128%	\$0.34	1.6%	£8.27	1.95x	\$1.44	14.5x	\$1.03	20.4x	44.7	13%	\$7.7	\$796	24%	\$437
Hecla Mining	HL	SP	\$5.51	\$7.50	36%	8%	192%	\$0.01	0.2%	\$4.14	1.33x	\$0.89	6.2x	\$0.58	9.5x	11.1	14%	\$4.8	\$522	26%	\$220
Hochschild Mining	HOC	0	£2.54	£3.35	34%	41%	426%	\$0.06	1.8%	£2.27	1.12x	\$0.87	3.8x	\$0.47	7.0x	16.2	25%	\$9.4	\$469	30%	\$100
Pan American Silver	PAAS	SP	\$16.92	\$23.00	36%	3%	160%	\$0.05	0.3%	\$15.13	1.12x	\$2.48	6.8x	\$1.20	14.1x	26.1	(4%)	\$12.8	\$43	3%	\$219
Silver Wheaton	SLW	0	\$26.60	\$35.00	32%	13%	114%	\$0.22	0.8%	\$15.24	1.75x	\$2.02	13.2x	\$1.39	19.1x	35.4	4%	\$4.6	\$999	18%	\$114
Tahoe Resources	THO	SP	C\$17.66	C\$27.00	55%	(9%)	48%	C\$0.24	1.8%	C\$17.62	1.00x	\$1.81	7.4x	\$1.29	10.4x	19.3	(0%)	\$6.3	\$50	2%	\$231
Global					34%	10%	210%		0.9%		1.35x		8.2x		14.4x		8%	\$8.6		21%	
Royalties & Streaming																			-		
Franco-Nevada	FNV	0	C\$92.74	C\$107.00	17%	(6%)	47%	\$0.80	1.1%	\$46.18	2.01x	\$3.00	23.4x	\$1.51	46.6x	289	14%	\$253	-	0%	\$334
Osisko Gold Royalties	OR	0	C\$14.60	C\$20.00	38%	(14%)	7%	\$0.16	1.1%	C\$13.27	1.10x	C\$0.56	26.2x	C\$0.27	53.4x	12	14%	\$0	-	4%	C\$444
Royal Gold	RGLD	0	\$75.56	\$88.00	18%	5%	107%	\$0.92	1.2%	\$32.66	2.31x	\$4.64	16.3x	\$2.07	36.4x	204	12%	\$137	\$326	21%	\$123
Sandstorm Gold	SSL	SP - Spec	C\$7.15	C\$8.00	12%	23%	99%	\$0.00	-	\$3.45	2.07x	\$0.31	17.7x	\$0.11	48.6x	45	4%	\$320	-	0%	\$29
Silver Wheaton	SLW	0	\$26.60	\$35.00	32%	13%	114%	\$0.22	0.8%	\$15.24	1.75x	\$2.02	13.2x	\$1.39	19.1x	651	15%	\$307	\$999	18%	\$114
Global					23%	4%	75%		0.9%		1.85x		19.4x		40.8x		12%	\$203		9%	

Gold	\$1,317	(0%)	24%
Silver	\$19.31	5%	40%
S&P/TSX Gold Index	236	(6%)	82%
S&P 500	2,144	2%	5%

Long-Term Price Assumptions: Gold: 2016 = \$1,323; 2017 = \$1,500; 2018 = \$1,500; 2019 = \$1,400; 2020+ = \$1,300; Silver: 2016 = \$19.30; 2017 = \$25.00; 2018 = \$25.00; 2019 = \$22.00; 2020+ = \$19.25 Priced as of market close September 16 2016. Source: Company Reports, RBC Capital Markets estimates. Please see footnotes on page 12



#### Tier I, II, & III Gold Producers - Corporate Summary (1/4)

		Price	Report				Target	Rt. to	Perfor	mance	52 Wk	52 Wk			Shares	Mkt Cap	EV (1)
Company	Tick	Curr	Curr	Analyst	Rating	Price	(12m)	Target	QTD	YTD	Low	High	NAV	P/NAV	(MM)	(US\$M)	(US\$M)
Tier I Gold Producers																	
AngloGold Ashanti	ANG	ZAR	USD	RH	0	R216.64	R440.00	103%	(19%)	104%	R107.00	R317.75	R217.57	1.00x	405	\$6,194	\$8,466
Kinross Gold	KGC	USD	USD	SW	0	\$4.09	\$8.00	96%	(16%)	125%	\$1.31	\$5.82	\$3.64	1.12x	1,244	\$5,089	\$6,172
Newmont	NEM	USD	USD	SW	0	\$38.26	\$59.00	54%	(2%)	113%	\$15.40	\$46.07	\$25.99	1.47x	531	\$20,297	\$22,524
Gold Fields	GFI	ZAR	USD	RH	SP	R67.58	R120.00	78%	(5%)	60%	R42.35	R91.30	R84.64	0.80x	815	\$3,888	\$5,218
Barrick Gold	ABX	USD	USD	SW	SP	\$17.34	\$25.00	45%	(19%)	135%	\$5.91	\$23.47	\$13.51	1.28x	1,165	\$20,192	\$27,906
Newcrest Mining	NCM	AUD	USD	PH	SP	A\$21.12	A\$24.00	15%	(8%)	63%	A\$10.71	A\$27.20	A\$13.21	1.60x	766	\$12,123	\$10,010
Goldcorp	GG	USD	USD	SW	U	\$15.57	\$20.00	29%	(19%)	35%	\$9.46	\$20.38	\$13.76	1.13x	853	\$13,286	\$15,437
Global								60%	(13%)	91%				1.20x		\$81,069	\$95,732
North American								56%	(14%)	102%				1.25x		\$58,864	\$72,039

Tier II Gold Producers																	
Eldorado Gold	EGO	USD	USD	DR	0	\$3.99	\$7.00	76%	(11%)	34%	\$1.87	\$5.16	\$5.15	0.78x	717	\$2,859	\$2,630
Detour Gold	DGC	CAD	USD	DR	0	C\$27.84	C\$45.00	62%	(14%)	93%	C\$12.45	C\$35.93	\$20.38	1.03x	174	\$3,670	\$3,668
B2Gold	BTO	CAD	USD	SC	0	C\$3.59	C\$5.50	53%	11%	156%	C\$0.86	C\$4.74	C\$3.41	1.05x	918	\$2,495	\$2,922
OceanaGold	OGC	AUD	USD	SC/PH	0	A\$4.39	A\$6.50	49%	(14%)	64%	A\$1.99	A\$5.79	A\$3.85	1.14x	608	\$2,000	\$2,121
Polymetal	POLY	GBP	USD	тв	0	£10.12	£14.60	45%	(3%)	73%	£4.79	£12.09	£9.84	1.03x	425	\$5,587	\$6,316
Acacia Mining	ACA	GBP	USD	TB	0	£4.73	£6.75	43%	5%	163%	£1.54	£6.15	£5.33	0.89x	410	\$2,522	\$2,224
Evolution Mining	EVN	AUD	AUD	PH	0	A\$2.34	A\$3.10	34%	2%	\$0.72	A\$1.87	A\$5.16	A\$1.88	1.24x	1,660	\$2,910	\$2,562
IAMGOLD	IAG	USD	USD	DR	SP	\$3.99	\$6.50	63%	(4%)	181%	\$1.15	\$5.87	\$4.26	0.94x	451	\$1,798	\$1,526
Yamana Gold	AUY	USD	USD	DR	SP	\$4.39	\$7.00	60%	(16%)	136%	\$1.38	\$5.99	\$4.49	0.98x	948	\$4,160	\$5,465
Tahoe Resources	THO	CAD	USD	SW	SP	C\$17.66	C\$27.00	53%	(9%)	48%	C\$9.45	C\$22.13	C\$17.62	1.00x	227	\$3,041	\$2,897
Alamos Gold	AGI	USD	USD	DR	SP	\$7.91	\$12.00	52%	(8%)	140%	\$2.27	\$10.41	\$9.19	0.86x	265	\$2,093	\$2,035
Sibanye Gold	SGL	ZAR	ZAR	RH	SP	R49.00	R70.00	44%	(2%)	114%	R22.92	R72.48	R40.87	1.20x	916	\$3,167	\$3,385
Randgold Resources	RRS	GBP	USD	TB	SP	£73.60	£98.00	34%	(12%)	78%	£35.46	£98.20	£47.04	1.56x	93	\$8,938	\$8,612
Centerra Gold	CG	CAD	USD	SW	SP	C\$7.39	C\$9.50	31%	(4%)	12%	C\$5.64	C\$8.67	C\$10.72	0.69x	287	\$1,607	\$1,406
Agnico-Eagle	AEM	USD	USD	SW	SP	\$51.44	\$67.00	31%	(4%)	96%	\$22.75	\$60.10	\$37.07	1.39x	224	\$11,532	\$12,150
New Gold	NGD	USD	USD	DR	SP	\$4.44	\$5.50	24%	1%	91%	\$1.76	\$6.04	\$3.84	1.16x	513	\$2,277	\$3,083
Northern Star	NST	AUD	AUD	PH	SP	A\$4.16	A\$4.70	15%	(16%)	50%	A\$2.32	A\$5.89	A\$3.95	1.05x	600	\$1,870	\$1,618
Regis Resources	RRL	AUD	AUD	PH	SP	A\$3.85	A\$3.80	2%	13%	66%	A\$1.56	A\$4.32	A\$2.39	1.61x	500	\$1,442	\$1,455
Centamin	CEY	GBP	USD	RH	SP - Spec	£1.35	£1.90	41%	2%	109%	£0.56	£1.84	£1.20	1.12x	1,153	\$2,019	\$1,485
Global								43%	(4%)	94%				1.09x		\$65,987	\$67,562
North American								50%	(6%)	99%				0.99x		\$35,532	\$37,783

Tier III Gold Producers																	
Newmarket Gold	NMI	CAD	USD	SW	0	C\$4.25	C\$7.00	65%	12%	215%	C\$1.25	C\$4.71	C\$4.06	1.05x	174	\$560	\$504
Dundee Precious Metals	DPM	CAD	USD	SC	0	C\$3.47	C\$5.00	44%	13%	171%	C\$0.84	C\$4.14	C\$5.16	0.67x	125	\$330	\$414
Saracen Mineral Holdings	SAR	AUD	AUD	PH	0	A\$1.39	A\$2.00	44%	(3%)	128%	A\$0.45	A\$1.86	A\$1.37	1.02x	794	\$827	\$737
Silver Lake	SLR	AUD	AUD	PH	O - Spec	A\$0.50	A\$0.90	78%	(2%)	181%	A\$0.14	A\$0.72	A\$0.75	0.68x	503	\$190	\$208
Roxgold	ROG	CAD	CAD	DR	O - Spec	C\$1.58	C\$2.25	42%	3%	126%	C\$0.55	C\$1.76	C\$1.25	1.27x	369	\$442	\$438
Torex Gold	TXG	CAD	USD	DR	O - Spec	C\$28.43	C\$40.00	41%	23%	126%	C\$10.90	C\$35.17	\$18.80	1.15x	79	\$1,699	\$1,864
Premier Gold Mines Ltd.	PG	CAD	CAD	SC	O - Spec	C\$4.35	C\$6.00	38%	14%	65%	C\$2.12	C\$5.05	C\$5.03	0.86x	197	\$650	\$616
Klondex Mines	KDX	CAD	USD	SC	O - Spec	C\$7.26	C\$8.50	17%	55%	157%	C\$2.56	C\$7.63	C\$5.27	1.38x	139	\$764	\$692
Guyana Goldfields	GUY	CAD	USD	SC	O - Spec	C\$8.74	C\$10.00	14%	(6%)	184%	C\$2.48	C\$10.35	C\$9.66	0.91x	165	\$1,094	\$1,147
Silver Standard	SSRI	USD	USD	DR	SP	\$11.97	\$18.00	50%	(8%)	131%	\$3.66	\$15.84	\$11.41	1.05x	119	\$1,423	\$1,146
SEMAFO	SMF	CAD	USD	DR	SP	C\$5.47	C\$8.00	46%	(12%)	56%	C\$2.51	C\$7.46	\$4.20	0.99x	324	\$1,341	\$1,146
Argonaut Gold	AR	CAD	USD	SC	SP	C\$3.66	C\$4.50	23%	(4%)	208%	C\$0.78	C\$4.45	C\$3.41	1.07x	155	\$430	\$342
Alacer Gold	ASR	CAD	USD	DR	SP	C\$3.37	C\$4.00	19%	9%	36%	C\$2.08	C\$3.78	\$2.97	0.86x	291	\$744	\$477
Beadell	BDR	AUD	AUD	PH	SP	A\$0.43	A\$0.50	18%	12%	204%	A\$0.12	A\$0.55	A\$0.41	1.05x	1,055	\$336	\$320
Teranga	TGZ	CAD	USD	SW	SP	C\$1.32	C\$1.50	14%	15%	169%	C\$0.38	C\$1.39	C\$1.07	1.23x	392	\$392	\$385
Resolute Mining	RSG	AUD	AUD	CK	SP	A\$2.13	A\$2.00	-5%	66%	752%	A\$0.23	A\$2.22	A\$1.52	1.40x	642	\$1,024	\$1,104
Timmins Gold	TMM	CAD	USD	SC	SP - Spec	C\$0.64	C\$1.00	56%	35%	237%	C\$0.11	C\$0.80	C\$0.97	0.66x	144	\$70	\$79
Primero Mining	PPP	USD	USD	DR	SP - Spec	\$1.51	\$2.25	49%	(27%)	(34%)	\$1.41	\$3.16	\$3.27	0.46x	188	\$283	\$372
Asanko Gold	AKG	CAD	USD	DR	SP - Spec	C\$5.34	C\$7.00	31%	8%	163%	C\$1.77	C\$6.00	\$3.93	1.03x	198	\$799	\$799
Global								36%	11%	172%				0.99x		\$13,397	\$12,791
North American								37%	9%	134%				0.98x		\$11,020	\$10,422

Long-Term Price Assumptions: Gold: 2016 = \$1,323; 2017 = \$1,500; 2018 = \$1,500; 2019 = \$1,400; 2020+ = \$1,300; Silver: 2016 = \$19.30; 2017 = \$25.00; 2018 = \$25.00; 2019 = \$22.00; 2020+ = \$19.25

Note: Stocks are sorted based on a combination of Rating and Return to Target

Priced as of market close September 16 2016.



#### Tier I, II, & III Gold Producers - Cash Flow Metrics (2/4)

			CF	PS			Ρ,	′CF		A	djCFPS (after s	ustaining capita	al)		EV/A	AdjCF	
Company	Tick	14A	15A	16E	17E	14A	15A	16E	17E	14A	15A	16E	17E	14A	15A	16E	17E
Tier I Gold Producers																	
AngloGold Ashanti	ANG	\$3.11	\$2.62	\$4.04	\$5.56	4.9x	5.8x	3.8x	2.8x	\$0.97	\$1.49	\$2.57	\$4.82	21.5x	14.0x	8.1x	4.3x
Kinross Gold	KGC	\$0.85	\$0.69	\$0.80	\$1.30	4.8x	6.0x	5.1x	3.1x	\$0.50	\$0.35	\$0.51	\$0.96	10.0x	14.3x	9.8x	5.2x
Newmont	NEM	\$3.86	\$3.97	\$5.88	\$5.98	9.9x	9.6x	6.5x	6.4x	\$1.46	\$1.50	\$4.87	\$5.05	29.0x	28.3x	8.7x	8.4x
Gold Fields	GFI	\$0.94	\$0.90	\$1.11	\$1.52	5.1x	5.3x	4.3x	3.1x	\$0.15	\$0.09	\$0.29	\$0.84	42.5x	74.9x	21.8x	7.6x
Barrick Gold	ABX	\$2.27	\$2.14	\$2.60	\$3.01	7.6x	8.1x	6.7x	5.8x	\$0.87	\$1.50	\$1.79	\$2.26	27.5x	16.0x	13.4x	10.6x
Newcrest Mining	NCM	\$1.26	\$1.67	\$1.62	\$2.05	12.6x	9.5x	9.8x	7.7x	\$1.07	\$1.41	\$1.29	\$1.62	12.2x	9.3x	10.1x	8.1x
Goldcorp	GG	\$1.77	\$1.73	\$1.74	\$2.55	8.8x	9.0x	8.9x	6.1x	\$0.41	\$1.05	\$0.57	\$1.52	44.3x	17.2x	31.9x	11.9x
Global						7.7x	7.6x	6.4x	5.0x					26.7x	24.9x	14.8x	8.0x
North American						7.8x	8.2x	6.8x	5.3x					27.7x	19.0x	16.0x	9.0x

Tier II Gold Producers																	
Eldorado Gold	EGO	\$0.46	\$0.23	\$0.21	\$0.37	8.7x	>15x	>15x	10.9x	\$0.34	\$0.14	\$0.15	\$0.31	10.9x	25.8x	24.9x	11.8x
Detour Gold	DGC	\$0.62	\$0.78	\$1.52	\$2.86	34.2x	>15x	13.9x	7.4x	-\$0.05	\$0.35	\$1.10	\$2.32	n.m.	60.5x	19.1x	9.1x
B2Gold	BTO	\$0.17	\$0.17	\$0.32	\$0.44	15.8x	>15x	8.5x	6.2x	\$0.06	\$0.10	\$0.25	\$0.37	50.5x	33.4x	12.6x	8.5x
OceanaGold	OGC	\$0.76	\$0.51	\$0.43	\$0.64	4.4x	6.4x	7.6x	5.1x	\$0.78	-\$0.02	\$0.36	\$0.55	4.5x	n.m.	9.7x	6.3x
Polymetal	POLY	\$1.64	\$1.31	\$1.66	\$2.31	8.0x	10.0x	7.9x	5.7x	\$1.14	\$1.00	\$1.27	\$1.77	13.0x	14.9x	11.7x	8.4x
Acacia Mining	ACA	\$0.66	\$0.21	\$1.08	\$1.45	9.4x	>15x	5.7x	4.2x	\$0.20	-\$0.26	\$0.64	\$1.03	26.9x	n.m.	8.5x	5.3x
Evolution Mining	EVN	A\$0.29	A\$0.29	A\$0.39	A\$0.57	8.1x	8.1x	6.0x	4.1x	A\$0.18	A\$0.20	A\$0.30	A\$0.51	11.4x	10.3x	6.9x	4.0x
IAMGOLD	IAG	\$0.72	\$0.06	\$0.62	\$0.90	5.5x	>15x	6.4x	4.5x	\$0.42	-\$0.25	\$0.35	\$0.63	8.1x	n.m.	9.7x	5.4x
Yamana Gold	AUY	\$0.60	\$0.43	\$0.63	\$0.91	7.3x	10.1x	6.9x	4.8x	\$0.29	\$0.21	\$0.35	\$0.64	19.9x	27.4x	16.4x	9.0x
Tahoe Resources	THO	\$1.00	\$0.86	\$1.34	\$1.81	13.4x	>15x	10.0x	7.4x	\$0.87	\$0.65	\$1.01	\$1.48	14.6x	19.6x	12.6x	8.6x
Alamos Gold	AGI	\$0.57	\$0.18	\$0.59	\$0.88	13.9x	>15x	13.5x	9.0x	\$0.08	\$0.11	\$0.47	\$0.76	99.1x	69.6x	16.5x	10.1x
Sibanye Gold	SGL	R\$4.59	R\$4.59	R\$10.12	R\$18.48	10.7x	10.7x	4.8x	2.7x	R\$0.70	R\$0.92	R\$5.67	R\$12.92	74.5x	57.0x	9.2x	4.1x
Randgold Resources	RRS	\$4.15	\$4.14	\$5.30	\$7.58	23.0x	>15x	>15x	12.6x	\$3.07	\$3.06	\$4.22	\$6.49	30.0x	30.1x	21.8x	14.2x
Centerra Gold	CG	\$1.51	\$1.28	\$1.46	\$1.72	3.7x	4.4x	3.8x	3.3x	\$1.39	\$1.16	\$1.34	\$1.40	3.5x	4.2x	3.6x	3.5x
Agnico-Eagle	AEM	\$3.12	\$3.05	\$3.89	\$5.58	16.5x	>15x	13.2x	9.2x	\$1.82	\$1.57	\$3.02	\$4.61	29.8x	34.6x	18.0x	11.8x
New Gold	NGD	\$0.51	\$0.42	\$0.49	\$0.57	8.7x	10.6x	9.0x	7.8x	\$0.33	\$0.26	\$0.36	\$0.46	18.1x	23.5x	16.5x	12.9x
Northern Star	NST	A\$0.16	A\$0.61	A\$0.64	A\$0.79	26.0x	6.8x	6.5x	5.3x	A\$0.10	A\$0.61	A\$0.45	A\$0.68	36.0x	5.9x	8.0x	5.3x
Regis Resources	RRL	A\$0.25	A\$0.28	A\$0.41	A\$0.59	15.4x	13.7x	9.4x	6.5x	A\$0.22	A\$0.21	A\$0.32	A\$0.54	17.5x	18.3x	12.2x	7.3x
Centamin	CEY	\$0.15	\$0.14	\$0.32	\$0.25	11.6x	12.5x	5.5x	7.0x	\$0.10	\$0.11	\$0.20	\$0.14	13.2x	11.9x	6.5x	9.0x
Global						12.9x	9.3x	8.2x	6.5x					26.8x	27.9x	12.9x	8.1x
North American						12.8x	8.4x	9.5x	7.0x					28.3x	33.2x	15.0x	9.1x

Tier III Gold Producers																	
Newmarket Gold	NMI	C\$0.15	C\$0.36	C\$0.80	C\$1.14	>15x	8.9x	4.0x	2.8x	C\$0.10	C\$0.31	C\$0.80	C\$0.72	30.3x	9.4x	3.6x	4.0x
Dundee Precious Metals	DPM	\$0.60	\$0.58	\$0.57	\$0.65	4.4x	4.5x	4.6x	4.1x	\$0.43	\$0.40	\$0.22	\$0.49	7.7x	8.2x	14.9x	6.7x
Saracen Mineral Holdings	SAR	A\$0.06	A\$0.08	A\$0.14	A\$0.36	>15x	>15x	10.1x	3.9x	(A\$0.01)	A\$0.06	A\$0.11	A\$0.31	n.m.	19.5x	11.8x	4.0x
Silver Lake	SLR	A\$0.05	A\$0.06	A\$0.11	A\$0.22	10.3x	8.2x	4.7x	2.3x	(A\$0.00)	A\$0.02	A\$0.08	A\$0.20	n.m.	29.4x	7.1x	2.8x
Roxgold	ROG	(C\$0.08)	(C\$0.02)	C\$0.04	C\$0.28	n.m.	n.m.	>15x	5.7x	(C\$0.08)	(C\$0.02)	C\$0.03	C\$0.24	n.m.	n.m.	55.3x	6.6x
Torex Gold	TXG	-\$0.33	-\$0.35	\$1.82	\$3.62	n.m.	n.m.	11.8x	6.0x	-\$0.35	-\$0.39	\$1.38	\$3.04	n.m.	n.m.	17.1x	7.8x
Premier Gold Mines Ltd.	PG	(C\$0.03)	(C\$0.13)	C\$0.50	C\$0.65	n.m.	n.m.	8.7x	6.7x	-	-	C\$0.32	C\$0.49	n.m.	n.m.	12.9x	8.4x
Klondex Mines	KDX	\$0.30	\$0.33	\$0.42	\$0.94	>15x	>15x	13.0x	5.8x	\$0.32	\$0.12	\$0.20	\$0.66	15.4x	40.2x	24.4x	7.5x
Guyana Goldfields	GUY	-\$0.08	-\$0.22	\$0.50	\$0.87	n.m.	n.m.	13.2x	7.6x	-\$0.09	-\$0.03	\$0.50	\$0.80	n.m.	n.m.	13.9x	8.7x
Silver Standard	SSRI	\$0.58	\$0.86	\$1.79	\$1.95	>15x	13.9x	6.7x	6.1x	\$0.05	\$0.32	\$1.15	\$1.44	>100x	30.2x	8.4x	6.7x
SEMAFO	SMF	\$0.43	\$0.49	\$0.47	\$0.53	9.7x	8.5x	8.8x	7.8x	\$0.26	\$0.32	\$0.30	\$0.36	13.5x	11.0x	11.6x	9.7x
Argonaut Gold	AR	\$0.28	\$0.28	\$0.35	\$0.49	10.1x	10.1x	7.9x	5.7x	\$0.14	\$0.24	\$0.27	\$0.44	15.4x	9.1x	8.2x	5.0x
Alacer Gold	ASR	\$0.50	\$0.40	\$0.29	\$0.24	5.1x	6.4x	8.8x	10.6x	\$0.35	\$0.22	\$0.17	\$0.15	4.7x	7.3x	9.4x	10.9x
Beadell	BDR	\$0.02	\$0.04	\$0.09	\$0.12	>15x	10.6x	4.9x	3.6x	-\$0.00	\$0.01	\$0.07	\$0.11	n.m.	29.8x	5.9x	3.6x
Teranga	TGZ	\$0.14	\$0.12	\$0.24	\$0.28	7.0x	8.6x	4.2x	3.5x	\$0.10	\$0.10	\$0.22	\$0.24	9.9x	10.0x	4.5x	4.0x
Resolute Mining	RSG	A\$0.16	A\$0.10	A\$0.30	A\$0.49	13.0x	>15x	7.1x	4.4x	(A\$0.00)	(A\$0.05)	A\$0.25	A\$0.44	n.m.	n.m.	9.1x	5.2x
Timmins Gold	TMM	\$0.28	\$0.02	\$0.16	\$0.06	1.7x	>15x	3.1x	7.7x	\$0.20	-\$0.02	\$0.17	\$0.06	2.7x	n.m.	3.3x	8.7x
Primero Mining	PPP	\$0.45	\$0.47	\$0.29	\$0.74	3.3x	3.2x	5.2x	2.0x	-\$0.08	\$0.13	-\$0.05	\$0.43	n.m.	14.7x	n.m.	4.6x
Asanko Gold	AKG	-\$0.09	-\$0.04	\$0.26	\$0.69	n.m.	n.m.	>15x	5.9x	-\$0.08	-\$0.02	\$0.17	\$0.51	n.m.	n.m.	23.6x	7.9x
Global						7.2x	8.3x	7.5x	5.4x					12.4x	18.2x	13.6x	6.5x
North American						5.9x	8.0x	7.7x	5.9x					12.4x	15.6x	15.1x	7.2x

Long-Term Price Assumptions: Gold: 2016 = \$1,323; 2017 = \$1,500; 2018 = \$1,500; 2019 = \$1,400; 2020+ = \$1,300; Silver: 2016 = \$19.30; 2017 = \$25.00; 2018 = \$25.00; 2019 = \$22.00; 2020+ = \$19.25

Note: Stocks are sorted based on a combination of Rating and Return to Target

Priced as of market close September 16 2016.



#### Tier I, II, & III Gold Producers - Financial Metrics (3/4)

			E	PS			P,	/E			Free CF	Yield (2)			Dividend		ROE
Company	Tick	14A	15A	16E	17E	14A	15A	16E	17E	14A	15A	16E	17E	/sh	Yield	Payout	'16E
Tier I Gold Producers																	
AngloGold Ashanti	ANG	\$0.00	\$0.12	\$1.64	\$3.28	n.m.	>100x	9.3x	4.7x	3.2%	6.8%	12.5%	24.6%	\$0.00	-	n.m.	19.1%
Kinross Gold	KGC	\$0.11	-\$0.08	\$0.16	\$0.42	35.6x	n.m.	26.3x	9.7x	4.8%	4.7%	4.7%	14.6%	\$0.00	-	n.m.	4.6%
Newmont	NEM	\$1.10	\$0.99	\$2.27	\$2.64	34.8x	38.7x	16.9x	14.5x	0.9%	1.6%	8.5%	10.7%	\$0.10	0.3%	4%	7.3%
Gold Fields	GFI	\$0.02	-\$0.31	\$0.47	\$0.97	>100x	n.m.	10.2x	4.9x	5.4%	3.0%	5.8%	17.6%	\$0.02	0.4%	4%	11.7%
Barrick Gold	ABX	\$0.68	\$0.30	\$0.74	\$1.20	25.5x	58.7x	23.4x	14.5x	-0.7%	2.3%	6.1%	9.5%	\$0.08	0.5%	11%	11.5%
Newcrest Mining	NCM	A\$0.51	A\$0.55	A\$0.45	A\$1.09	30.9x	28.6x	35.2x	14.5x	1.6%	6.7%	6.4%	8.1%	C\$0.20	0.9%	33%	4.8%
Goldcorp	GG	\$0.55	\$0.07	\$0.38	\$0.89	28.2x	>100x	40.5x	17.5x	-7.8%	2.2%	1.6%	5.3%	\$0.08	0.5%	21%	2.5%
Global						31.0x	42.0x	23.1x	11.5x	1.1%	3.9%	6.5%	12.9%		0.4%	15%	8.8%
North American						31.0x	48.7x	26.8x	14.0x	-0.7%	2.7%	5.2%	10.0%		0.3%	12%	6.4%

Tier II Gold Producers																	
Eldorado Gold	EGO	\$0.19	\$0.02	\$0.08	\$0.19	20.6x	>100x	47.5x	20.9x	-1.5%	-6.5%	-8.6%	-5.3%	\$0.01	0.2%	11%	1.7%
Detour Gold	DGC	-\$0.54	-\$0.25	\$0.35	\$1.24	n.m.	n.m.	59.8x	17.0x	-1.1%	0.9%	4.3%	9.8%	-	-	n.m.	3.3%
B2Gold	BTO	-\$0.01	\$0.01	\$0.10	\$0.21	n.m.	>100x	25.9x	12.9x	-10.1%	-5.4%	-3.0%	5.8%	-	-	n.m.	5.5%
OceanaGold	OGC	\$0.36	\$0.14	\$0.30	\$0.41	9.1x	23.9x	11.1x	8.0x	23.0%	17.7%	-5.8%	14.1%	\$0.04	1.2%	13%	14.9%
Polymetal	POLY	-\$0.53	\$0.52	\$1.24	\$1.84	n.m.	25.2x	10.6x	7.2x	-0.2%	3.4%	4.5%	9.6%	£0.09	0.7%	7%	n.m.
Acacia Mining	ACA	\$0.22	-\$0.48	\$0.52	\$0.84	28.0x	n.m.	11.8x	7.4x	1.3%	-1.0%	7.6%	14.5%	\$0.04	0.7%	8%	11.2%
Evolution Mining	EVN	A\$0.07	A\$0.14	A\$0.16	A\$0.38	33.4x	16.7x	14.6x	6.2x	2.1%	5.1%	10.7%	17.9%	A\$0.03	1.3%	19%	15.0%
IAMGOLD	IAG	\$0.09	-\$0.44	\$0.10	\$0.27	44.8x	n.m.	40.5x	14.6x	-5.3%	-11.5%	1.4%	12.0%	-	-	n.m.	2.0%
Yamana Gold	AUY	\$0.05	-\$0.08	\$0.14	\$0.33	87.2x	n.m.	30.9x	13.5x	-3.9%	0.7%	3.2%	6.9%	£0.03	0.7%	21%	2.7%
Tahoe Resources	THO	\$0.62	\$0.46	\$0.86	\$1.29	21.7x	29.0x	15.5x	10.4x	4.8%	1.9%	4.2%	7.0%	£0.24	1.8%	28%	10.6%
Alamos Gold	AGI	-\$0.30	-\$0.27	\$0.09	\$0.32	n.m.	n.m.	84.4x	24.8x	-11.8%	-8.0%	0.1%	0.7%	\$0.02	-	n.m.	1.4%
Sibanye Gold	SGL	R\$1.86	R\$0.79	R\$7.08	R\$15.46	26.4x	62.3x	6.9x	3.2x	2.0%	0.4%	11.6%	26.4%	R\$1.00	0.9%	6%	35.3%
Randgold Resources	RRS	\$2.54	\$2.03	\$3.10	\$5.02	37.7x	47.2x	30.8x	19.0x	1.1%	2.0%	2.0%	5.5%	£0.50	0.5%	16%	7.7%
Centerra Gold	CG	-\$0.19	\$0.37	\$0.64	\$0.56	n.m.	15.1x	8.7x	10.0x	-0.6%	7.1%	12.2%	-3.3%	C\$0.15	2.7%	24%	6.7%
Agnico-Eagle	AEM	\$0.72	\$0.44	\$0.93	\$2.19	71.7x	>100x	55.4x	23.5x	2.2%	1.5%	3.5%	4.9%	\$0.40	0.8%	43%	4.8%
New Gold	NGD	\$0.09	-\$0.02	\$0.08	\$0.13	49.5x	n.m.	54.3x	35.2x	-0.9%	-7.8%	-15.9%	-4.4%	-	-	n.m.	2.0%
Northern Star	NST	A\$0.08	A\$0.21	A\$0.27	A\$0.51	52.0x	19.8x	15.4x	8.2x	2.2%	9.4%	10.1%	13.7%	A\$0.07	1.7%	26%	37.0%
Regis Resources	RRL	A\$0.11	A\$0.17	A\$0.22	A\$0.45	34.7x	22.3x	17.2x	8.6x	-0.1%	4.0%	7.2%	12.6%	A\$0.13	3.4%	58%	23.2%
Centamin	CEY	\$0.07	\$0.04	\$0.23	\$0.17	24.3x	39.1x	7.6x	10.3x	1.7%	5.7%	12.6%	8.6%	-	-	n.m.	13.5%
Global						38.7x	30.1x	28.9x	13.7x	0.2%	1.0%	3.3%	8.3%		0.9%	22%	11.0%
North American						49.2x	22.1x	42.3x	18.3x	-2.8%	-2.7%	0.1%	3.4%		0.6%	25%	4.1%

Tier III Gold Producers																	
Newmarket Gold	NMI	C\$0.04	C\$0.17	C\$0.34	C\$0.59	>30x	18.5x	9.4x	5.5x	0.9%	3.4%	15.3%	24.4%	-	-	n.m.	33.3%
Dundee Precious Metals	DPM	\$0.10	-\$0.01	-\$0.06	\$0.35	26.3x	n.m.	n.m.	7.5x	-19.8%	6.9%	5.8%	6.6%	-	-	n.m.	-1.5%
Saracen Mineral Holdings	SAR	A\$0.01	A\$0.01	A\$0.03	A\$0.24	>30x	>30x	>30x	5.8x	-2.0%	2.7%	0.5%	20.6%	-	-	n.m.	9.9%
Silver Lake	SLR	(A\$0.17)	(A\$0.00)	A\$0.01	A\$0.12	n.m.	n.m.	>30x	4.3x	-5.4%	0.9%	12.4%	35.3%	-	-	n.m.	2.4%
Roxgold	ROG	(C\$0.09)	(C\$0.03)	(C\$0.05)	C\$0.13	n.m.	n.m.	n.m.	12.5x	-8.4%	-16.5%	-3.2%	14.5%	-	-	n.m.	-16.6%
Torex Gold	TXG	-\$0.44	-\$0.14	\$0.28	\$1.45	n.m.	n.m.	>30x	14.9x	-18.0%	-21.2%	0.9%	11.5%	-	-	n.m.	3.3%
Premier Gold Mines Ltd.	PG	(C\$0.31)	C\$0.15	(C\$0.15)	C\$0.02	n.m.	29.3x	n.m.	>30x	-7.6%	-12.7%	-14.3%	7.3%	-	-	n.m.	-9.0%
Klondex Mines	KDX	\$0.12	\$0.10	\$0.15	\$0.56	>30x	>30x	>30x	9.9x	-5.8%	7.1%	-10.3%	8.3%	-	-	n.m.	8.1%
Guyana Goldfields	GUY	-\$0.09	-\$0.06	\$0.28	\$0.51	n.m.	n.m.	23.9x	13.0x	-19.8%	-10.2%	6.2%	7.2%	-	-	n.m.	17.3%
Silver Standard	SSRI	\$0.01	-\$0.13	\$1.18	\$1.36	>30x	n.m.	10.1x	8.8x	-0.8%	2.1%	8.6%	9.1%	-	-	n.m.	18.5%
SEMAFO	SMF	\$0.09	\$0.14	\$0.21	\$0.32	>30x	29.6x	19.6x	13.1x	5.9%	7.6%	7.4%	6.2%	-	-	n.m.	10.3%
Argonaut Gold	AR	-\$0.03	-\$0.01	\$0.10	\$0.12	n.m.	n.m.	27.1x	24.1x	-3.6%	0.2%	8.1%	7.8%	-	-	n.m.	2.9%
Alacer Gold	ASR	\$0.17	\$0.17	\$0.08	\$0.05	15.0x	15.1x	>30x	>30x	10.2%	4.9%	-31.3%	-41.8%	-	-	n.m.	3.7%
Beadell	BDR	\$0.06	-\$0.01	\$0.06	\$0.09	7.2x	n.m.	7.4x	4.5x	3.8%	-0.1%	15.1%	26.0%	-	-	n.m.	26.0%
Teranga	TGZ	\$0.05	\$0.06	\$0.11	\$0.16	19.2x	15.8x	8.8x	6.3x	-18.3%	-1.6%	18.6%	-3.1%	-	-	n.m.	9.1%
Resolute Mining	RSG	A\$0.35	A\$0.09	A\$0.23	A\$0.41	6.0x	23.7x	9.3x	5.2x	-1.2%	-2.7%	10.8%	9.4%	A\$0.02	0.8%	8%	n.m.
Timmins Gold	TMM	\$0.06	-\$0.05	\$0.06	\$0.02	8.0x	n.m.	7.6x	>30x	-7.1%	-19.3%	25.9%	10.8%	-	-	n.m.	16.3%
Primero Mining	PPP	-\$0.06	\$0.01	\$0.03	\$0.28	n.m.	>30x	>30x	5.3x	-18.7%	-9.4%	-8.3%	23.4%	-	-	n.m.	0.9%
Asanko Gold	AKG	-\$0.06	-\$0.03	\$0.08	\$0.29	n.m.	n.m.	>30x	13.8x	-12.0%	-28.8%	-6.8%	4.9%	-	-	n.m.	4.4%
Global						13.6x	22.0x	13.7x	9.7x	-6.7%	-4.6%	3.2%	9.9%		0.0%	8%	7.7%
North American						17.1x	21.6x	15.2x	11.2x	-8.2%	-5.8%	1.5%	6.5%		0.0%	n.m.	6.7%

Long-Term Price Assumptions: Gold: 2016 = \$1,323; 2017 = \$1,500; 2018 = \$1,500; 2019 = \$1,400; 2020+ = \$1,300; Silver: 2016 = \$19.30; 2017 = \$25.00; 2018 = \$25.00; 2019 = \$22.00; 2020+ = \$19.25

Note: Stocks are sorted based on a combination of Rating and Return to Target

Priced as of market close September 16 2016.



#### Tier I, II, & III Gold Producers - Operational and Reserve/Resource Metrics (4/4)

				Production (Ko	z)			Cash Co	sts (\$/oz)			All-in Sustainin	ng Costs (\$/oz)		Reserve	Resource	EV/	EV/
Company	Tick	14A	15A	16E	17E	2YD	14A	15A	16E	17E	14A	15A	16E	17E	(P&P) (3)	(M&I) (3)	Rsrv	Rsrc
Tier I Gold Producers																		
AngloGold Ashanti	ANG	4,440	3,830	3,581	3,644	-2.5%	\$787	\$712	\$677	\$639	\$985	\$943	\$938	\$875	51.7	153.9	\$164	\$55
Kinross Gold	KGC	2,710	2,595	2,756	2,824	4.3%	\$793	\$688	\$729	\$717	\$965	\$975	\$965	\$981	34.0	62.5	\$182	\$99
Newmont	NEM	4,844	5,035	5,033	5,123	0.9%	\$706	\$632	\$649	\$669	\$1,002	\$898	\$892	\$899	73.7	111.5	\$306	\$202
Gold Fields	GFI	2,219	2,159	2,102	2,290	3.0%	\$734	\$647	\$629	\$553	\$1,029	\$1,043	\$1,049	\$912	52.1	94.0	\$100	\$56
Barrick Gold	ABX	6,254	6,120	5,278	5,170	-8.1%	\$597	\$566	\$548	\$546	\$864	\$818	\$772	\$785	90.0	165.0	\$310	\$169
Newcrest Mining	NCM	1,964	2,423	2,439	2,479	1.2%	\$0	\$0	\$596	\$637	\$500	\$747	\$760	\$856	64.3	116.6	\$156	\$86
Goldcorp	GG	2,871	3,464	2,955	3,045	-6.2%	\$569	\$564	\$582	\$488	\$949	\$852	\$938	\$854	42.9	81.5	\$360	\$189
Global						-1.1%	\$598	\$544	\$630	\$607	\$899	\$897	\$902	\$880			\$225	\$122
North American						-2.3%	\$666	\$613	\$627	\$605	\$945	\$886	\$892	\$880			\$289	\$165

Tier II Gold Producers																		
Eldorado Gold	EGO	743	682	487	403	-23.2%	\$552	\$602	\$642	\$575	\$819	\$866	\$955	\$915	20.6	27.4	\$128	\$96
Detour Gold	DGC	457	506	534	638	12.3%	\$942	\$775	\$704	\$640	\$1,333	\$1,074	\$1,011	\$889	16.4	20.3	\$224	\$181
B2Gold	BTO	384	493	532	637	13.6%	\$722	\$683	\$608	\$566	\$1,101	\$969	\$884	\$807	7.4	16.1	\$397	\$182
OceanaGold	OGC	307	417	404	534	13.1%	\$418	\$458	\$428	\$493	\$785	\$633	\$847	\$813	5.5	11.6	\$389	\$183
Polymetal	POLY	943	861	786	985	7.0%	\$634	\$538	\$496	\$507	\$937	\$726	\$732	\$717	20.8	24.2	\$304	\$261
Acacia Mining	ACA	719	732	805	771	2.6%	\$732	\$776	\$659	\$640	\$1,132	\$1,156	\$964	\$925	8.8	16.8	\$254	\$133
Evolution Mining	EVN	428	437	803	815	36.6%	\$761	\$594	\$526	\$467	\$968	\$869	\$739	\$638	6.8	12.2	\$377	\$210
IAMGOLD	IAG	844	806	788	847	2.5%	\$847	\$820	\$782	\$820	\$1,107	\$1,110	\$1,033	\$1,034	7.7	31.2	\$198	\$49
Yamana Gold	AUY	1,179	1,275	1,293	1,304	1.1%	\$446	\$539	\$610	\$583	\$936	\$889	\$980	\$921	14.1	14.8	\$387	\$369
Tahoe Resources	THO	0	174	356	387	49.2%	n.m.	\$543	\$669	\$700	n.m.	\$811	\$861	\$880	4.5	11.1	\$639	\$261
Alamos Gold	AGI	224	309	393	415	15.9%	\$779	\$765	\$765	\$761	\$1,167	\$1,099	\$959	\$953	5.9	16.8	\$346	\$121
Sibanye Gold	SGL	1,538	1,536	1,597	1,578	1.4%	\$847	\$861	\$703	\$630	\$1,069	\$1,039	\$854	\$770	31.0	76.7	\$109	\$44
Randgold Resources	RRS	995	1,058	1,017	1,095	1.7%	\$698	\$690	\$659	\$625	\$816	\$797	\$789	\$749	15.1	21.3	\$569	\$405
Centerra Gold	CG	621	536	590	728	16.6%	\$567	\$512	\$715	\$710	\$852	\$972	\$1,171	\$1,209	14.1	22.0	\$100	\$64
Agnico-Eagle	AEM	1,428	1,672	1,631	1,700	0.9%	\$635	\$567	\$584	\$537	\$954	\$810	\$855	\$804	19.1	34.2	\$637	\$355
New Gold	NGD	380	436	375	425	-1.3%	\$312	\$443	\$386	\$424	\$787	\$810	\$816	\$805	15.0	21.6	\$206	\$142
Northern Star	NST	215	573	558	516	-5.1%	\$584	\$563	\$592	\$578	\$1,003	\$897	\$759	\$707	1.7	4.0	\$952	\$405
Regis Resources	RRL	272	310	305	318	1.3%	\$834	\$690	\$562	\$567	\$899	\$884	\$674	\$699	2.1	6.7	\$684	\$216
Centamin	CEY	377	439	501	499	6.6%	\$729	\$711	\$547	\$564	\$967	\$895	\$753	\$817	8.2	13.6	\$180	\$109
Global						8.0%	\$669	\$638	\$612	\$599	\$980	\$911	\$876	\$845			\$373	\$199
North American						8.8%	\$645	\$625	\$646	\$631	\$1,006	\$941	\$952	\$922			\$326	\$182

Tier III Gold Producers																		
Newmarket Gold	NMI	222	223	242	249	5.8%	\$904	\$704	\$646	\$605	\$1,236	\$987	\$956	\$898	0.8	4.7	\$649	\$108
Dundee Precious Metals	DPM	145	140	123	118	-8.1%	\$735	\$801	\$830	\$844	\$887	\$955	\$757	\$820	3.1	3.3	\$133	\$126
Saracen Mineral Holdings	SAR	133	168	189	293	32.3%	\$793	\$734	\$543	\$571	\$1,387	\$955	\$768	\$796	1.5	5.9	\$497	\$125
Silver Lake	SLR	171	122	131	135	5.2%	\$895	\$829	\$766	\$606	\$975	\$1,062	\$952	\$774	0.8	2.5	\$254	\$82
Roxgold	ROG	0	0	51	88	-	n.m.	n.m.	\$557	\$496	n.m.	n.m.	\$842	\$750	0.7	0.7	\$641	\$601
Torex Gold	TXG	0	0	295	380	-	n.m.	\$0	\$637	\$596	n.m.	\$0	\$816	\$771	3.6	4.1	\$514	\$452
Premier Gold Mines Ltd.	PG	0	0	102	139	-	n.m.	n.m.	\$518	\$651	n.m.	n.m.	\$1,063	\$1,020	0.5	3.6	n.m.	\$171
Klondex Mines	KDX	86	106	122	233	48.4%	\$492	\$513	\$553	\$473	\$617	\$807	\$952	\$836	1.3	2.7	\$548	\$255
Guyana Goldfields	GUY	0	36	153	216	145.2%	n.m.	\$512	\$612	\$648	n.m.	\$678	\$723	\$750	3.0	6.8	\$377	\$168
Silver Standard	SSRI	263	349	390	406	7.8%	\$818	\$725	\$656	\$697	\$1,204	\$979	\$943	\$963	2.8	6.8	\$414	\$169
SEMAFO	SMF	212	230	221	217	-3.0%	\$652	\$493	\$562	\$581	\$1,079	\$811	\$935	\$847	2.9	5.6	\$390	\$204
Argonaut Gold	AR	133	130	131	129	-0.5%	\$771	\$755	\$764	\$762	\$915	\$894	\$940	\$894	0.2	8.2	n.m.	\$42
Alacer Gold	ASR	182	164	124	115	-16.1%	\$524	\$482	\$624	\$681	\$708	\$702	\$830	\$955	3.4	5.1	\$142	\$94
Beadell	BDR	154	122	151	168	17.3%	\$773	\$620	\$499	\$486	\$901	\$757	\$603	\$544	1.5	2.1	\$217	\$150
Teranga	TGZ	212	182	220	224	10.9%	\$710	\$642	\$641	\$737	\$1,052	\$965	\$917	\$919	3.3	5.2	\$116	\$74
Resolute Mining	RSG	305	326	315	298	-4.3%	\$845	\$707	\$655	\$669	\$1,177	\$1,094	\$861	\$855	5.3	6.1	\$210	\$182
Timmins Gold	TMM	120	93	80	64	-17.0%	\$803	\$1,017	\$738	\$863	\$1,006	\$1,144	\$800	\$940	1.2	3.4	\$67	\$23
Primero Mining	PPP	190	221	177	209	-2.8%	\$582	\$546	\$714	\$535	\$1,225	\$956	\$1,206	\$954	1.8	3.8	\$211	\$98
Asanko Gold	AKG	0	0	129	189	-	n.m.	n.m.	\$784	\$651	n.m.	n.m.	\$1,056	\$938	5.3	7.9	\$152	\$101
Global						14.7%	\$735	\$630	\$647	\$639	\$1,026	\$859	\$890	\$854			\$326	\$170
North American						15.5%	\$699	\$599	\$656	\$655	\$993	\$823	\$916	\$884			\$335	\$179

Long-Term Price Assumptions: Gold: 2016 = \$1,323; 2017 = \$1,500; 2018 = \$1,500; 2019 = \$1,400; 2020+ = \$1,300; Silver: 2016 = \$19.30; 2017 = \$25.00; 2018 = \$25.00; 2019 = \$22.00; 2020+ = \$19.25

Note: Stocks are sorted based on a combination of Rating and Return to Target

Priced as of market close September 16 2016.



#### **Royalty Companies**

		Price	Report				Target	Rt. to	Perfor	mance	52 Wk	52 Wk			Shares	Mkt Cap	EV (1)
Company	Tick	Curr	Curr	Analyst	Rating	Price	(12m)	Target	QTD	YTD	Low	High	NAV	P/NAV	(MM)	(US\$M)	(US\$M)
Osisko Gold Royalties	OR	CAD	CAD	DR	0	C\$14.60	C\$20.00	38%	(14%)	7%	C\$12.58	C\$18.64	C\$13.27	1.10x	106	\$1,177	\$616
Silver Wheaton	SLW	USD	USD	DR	0	\$26.60	\$35.00	32%	13%	114%	\$10.04	\$31.35	\$15.24	1.75x	440	\$11,712	\$12,339
Royal Gold	RGLD	USD	USD	SW	0	\$75.56	\$88.00	18%	5%	107%	\$24.68	\$87.74	\$32.66	2.31x	65	\$4,909	\$5,363
Franco-Nevada	FNV	CAD	USD	SW	0	C\$92.74	C\$107.00	17%	(6%)	47%	C\$55.49	C\$105.69	C\$46.18	2.01x	176	\$12,390	\$12,054
Sandstorm Gold	SSL	CAD	USD	DR	SP - Spec	C\$7.15	C\$8.00	12%	23%	99%	C\$2.82	C\$8.73	C\$3.45	2.07x	151	\$820	\$764
Global								23%	4%	75%				1.85x		\$31,008	\$31,137

			C	FPS			P/	′CF		A	djCFPS (after s	ustaining capita	al)		EV/A	AdjCF	
Company	Tick	14A	15A	16E	17E	14A	15A	16E	17E	14A	15A	16E	17E	14A	15A	16E	17E
Osisko Gold Royalties	OR	C\$0.16	C\$0.36	C\$0.55	C\$0.56	>50x	40.8x	26.6x	26.2x	C\$0.28	C\$0.41	C\$0.57	C\$0.57	27.0x	18.5x	13.5x	13.3x
Silver Wheaton	SLW	\$1.18	\$1.06	\$1.57	\$2.02	22.6x	25.1x	16.9x	13.2x	\$1.22	\$1.09	\$1.61	\$2.05	22.9x	25.8x	17.4x	13.7x
Royal Gold	RGLD	\$2.45	\$2.46	\$3.70	\$4.64	30.8x	30.8x	20.4x	16.3x	\$2.56	\$3.28	\$3.27	\$4.98	32.3x	25.2x	25.3x	16.6x
Franco-Nevada	FNV	\$2.03	\$2.03	\$2.64	\$3.00	34.6x	34.7x	26.6x	23.4x	\$2.14	\$2.03	\$2.65	\$3.04	32.0x	33.7x	25.8x	22.5x
Sandstorm Gold	SSL	\$0.29	\$0.26	\$0.29	\$0.31	18.6x	21.2x	19.0x	17.7x	\$0.29	\$0.26	\$0.29	\$0.31	17.1x	19.7x	17.6x	16.3x
Global						26.7x	30.5x	21.9x	19.4x					26.3x	24.6x	19.9x	16.5x

			E	PS			P	/E			Free CF	Yield (2)			Dividend		ROE
Company	Tick	14A	15A	16E	17E	14A	15A	16E	17E	14A	15A	16E	17E	/sh	Yield	Payout	'16E
Osisko Gold Rovalties	OR	C\$0.23	C\$0.43	C\$0.28	C\$0.27	62.6x	33.8x	52.4x	53.4x	0.7%	0.0%	0.5%	3.9%	C\$0.16	1.1%	57%	2.8%
Silver Wheaton	SLW	\$0.74	\$0.55	\$0.89	\$1.39	35.8x	48.0x	29.8x	19.1x	1.6%	-13.1%	-1.1%	7.6%	\$0.22	0.8%	24%	8.4%
Royal Gold	RGLD	\$1.03	\$1.01	\$1.02	\$2.07	73.7x	74.8x	74.1x	36.4x	1.4%	2.7%	-17.0%	4.0%	\$0.92	1.2%	90%	2.9%
Franco-Nevada	FNV	\$0.92	\$0.56	\$1.09	\$1.51	76.5x	>100x	64.7x	46.6x	-4.7%	-6.3%	-1.5%	3.0%	\$0.80	1.1%	74%	4.5%
Sandstorm Gold	SSL	\$0.07	-\$0.11	\$0.06	\$0.11	72.8x	n.m.	89.7x	48.6x	1.1%	-28.8%	4.1%	5.6%	\$0.00	0.0%	n.m.	1.9%
Global						64.3x	52.2x	62.1x	40.8x	0.0%	-9.1%	-3.0%	4.8%		0.9%	61%	4.1%

			Gold Equ	vivalent Produc	tion (Koz)			Cash Costs	s (\$/oz AuE)		A	II-in Sustaining	Costs (\$/oz Au	E)	Reserve	Resource	EV/	EV/
Company	Tick	14A	15A	16E	17E	2YD	14A	15A	16E	17E	2YD	14A	15A	16E	(P&P) (3)	(M&I) (3)	Rsrv	Rsrc
Osisko Gold Royalties	OR	12	31	38	40	14.2%	\$0	\$0	\$0	\$0	\$623	\$690	\$495	\$451	n.a.	n.a.	n.m.	n.m.
Silver Wheaton	SLW	530	651	770	865	15.3%	\$307	\$336	\$343	\$338	\$384	\$393	\$395	\$383	20.4	33.0	\$606	\$373
Royal Gold	RGLD	204	282	329	356	12.5%	\$137	\$223	\$291	\$322	\$262	\$344	\$409	\$424	n.a.	n.a.	n.m.	n.m.
Franco-Nevada	FNV	289	359	466	465	13.8%	\$253	\$259	\$216	\$225	\$315	\$463	\$264	\$274	n.a.	n.a.	n.m.	n.m.
Sandstorm Gold	SSL	45	45	50	48	3.5%	\$320	\$300	\$290	\$317	\$491	\$523	\$481	\$503	0.7	1.1	n.m.	\$716
Global						11.9%	\$203	\$224	\$228	\$240	\$415	\$483	\$409	\$407				

Long-Term Price Assumptions: Gold: 2016 = \$1,323; 2017 = \$1,500; 2018 = \$1,500; 2019 = \$1,400; 2020+ = \$1,300; Silver: 2016 = \$19.30; 2017 = \$25.00; 2018 = \$25.00; 2019 = \$22.00; 2020+ = \$19.25

Note: Stocks are sorted based on a combination of Rating and Return to Target

Priced as of market close September 16 2016.



#### **Emerging Gold Producers**

		Price	Report				Target	Rt. to	Perfor	mance	52 Wk	52 Wk			Shares	Mkt Cap	EV (1)
Company	Tick	Curr	Curr	Analyst	Rating	Price	(12m)	Target	QTD	YTD	Low	High	NAV	P/NAV	(MM)	(US\$M)	(US\$M)
						- 4							- 4			4	
Dalradian	DNA	CAD	CAD	SW	O - Spec	C\$1.50	C\$2.50	67%	53%	90%	C\$0.62	C\$1.68	C\$2.56	0.58x	241	\$274	\$242
Pilot Gold	PLG	CAD	USD	DR	O - Spec	C\$0.70	C\$1.05	50%	(5%)	130%	C\$0.22	C\$0.95	\$0.81	0.66x	136	\$72	\$64
Continental Gold	CNL	CAD	USD	DR	O - Spec	C\$4.26	C\$5.50	29%	17%	171%	C\$1.28	C\$4.61	\$4.13	1.03x	130	\$418	\$390
Gold Road Resources	GOR	AUD	AUD	CK	O - Spec	A\$0.62	A\$0.80	29%	(5%)	62%	A\$0.35	A\$0.75	A\$0.62	0.99x	595	\$276	\$239
Lundin Gold	LUG	CAD	CAD	SC	O - Spec	C\$5.59	C\$6.50	16%	1%	47%	C\$3.75	C\$6.62	C\$6.43	0.87x	101	\$428	\$412
Midas Gold Corp.	MAX	CAD	USD	SW	SP - Spec	C\$0.82	C\$1.25	52%	(11%)	165%	C\$0.25	C\$1.22	C\$0.94	0.87x	161	\$100	\$96
NovaGold Resources	NG	CAD	CAD	SW	SP - Spec	C\$6.93	C\$10.00	44%	(12%)	19%	C\$4.05	C\$9.56	C\$9.57	0.72x	317	\$1,665	\$1,690
Pretium	PVG	CAD	CAD	DR	SP - Spec	C\$13.40	C\$19.00	42%	(7%)	93%	C\$5.74	C\$16.17	C\$17.35	0.77x	180	\$1,823	\$1,664
Sabina Gold & Silver	SBB	CAD	CAD	SC	SP - Spec	C\$1.31	C\$1.25	-5%	18%	79%	C\$0.35	C\$1.87	C\$1.17	1.12x	217	\$215	\$212
S2 Resources	S2R	AUD	AUD	PH	SP - Spec	A\$0.65	A\$0.60	-8%	128%	306%	A\$0.11	A\$0.86	A\$0.57	1.14x	216	\$105	\$105
Global								32%	18%	116%				0.88x		\$5,378	\$5,113

			F	Production (Koz	z)			Cash Co	st (\$/oz)			All-in Sustaini	ng Costs (\$/oz)		Reserve	Resource	EV/	EV/
Company	Tick	14A	15A	16E	17E	2YD	14A	15A	16E	17E	14A	15A	16E	17E	(P&P) (3)	(M&I) (3)	Rsrv	Rsrc
Dalradian	DNA	-	-	-	-	-	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.	-	2.1	n.m.	\$115
Pilot Gold	PLG	-	-	-	-	-	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.	-	1.3	n.m.	\$49
Continental Gold	CNL	-	-	-	-	-	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.	3.7	4.5	\$105	\$87
Gold Road Resources	GOR	-	-	-	-	-	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.	-	4.7	n.m.	\$51
Lundin Gold	LUG	-	-	-	-	-	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.	4.8	7.4	\$86	\$56
Midas Gold Corp.	MAX	-	-	-	-	-	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.	4.6	6.6	\$21	\$14
NovaGold Resources	NG	-	-	-	-	-	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.	19.7	28.5	\$86	\$59
Pretium	PVG	-	-	-	108	-	n.m.	n.m.	n.m.	\$608	n.m.	n.m.	n.m.	\$840	7.5	9.6	\$222	\$173
Sabina Gold & Silver	SBB	-	-	-	-	-	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.	2.5	5.6	\$85	\$38
S2 Resources	S2R	-	-	-	-	-	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.	n.m.	-	0.1	n.m.	n.m.
Global						n.m.	n.m.	n.m.	n.m.	\$608	n.m.	n.m.	n.m.	\$840			\$101	\$72

Long-Term Price Assumptions: Gold: 2016 = \$1,323; 2017 = \$1,500; 2018 = \$1,500; 2019 = \$1,400; 2020+ = \$1,300; Silver: 2016 = \$19.30; 2017 = \$25.00; 2018 = \$25.00; 2019 = \$22.00; 2020+ = \$19.25

Note: Stocks are sorted based on a combination of Rating and Return to Target Priced as of market close September 16 2016.



#### Silver Producers

		Price	Report				Target	Rt. to	Perfor	mance	52 Wk	52 Wk			Shares	Mkt Cap	EV (1)
Company	Tick	Curr	Curr	Analyst	Rating	Price	(12m)	Target	QTD	YTD	Low	High	NAV	P/NAV	(MM)	(US\$M)	(US\$M)
Coeur Mining	CDE	USD	USD	MM	0	\$12.43	\$19.00	53%	17%	401%	\$1.62	\$16.41	\$10.76	1.16x	162	\$2,018	\$2,106
Hochschild Mining	HOC	GBP	USD	TB	0	£2.54	£3.35	34%	41%	426%	£0.39	£3.28	£2.27	1.12x	506	\$1,668	\$1,810
Silver Wheaton	SLW	USD	USD	DR	0	\$26.60	\$35.00	32%	13%	114%	\$10.04	\$31.35	\$15.24	1.75x	440	\$11,712	\$12,339
Tahoe Resources	THO	CAD	USD	SW	SP	C\$17.66	C\$27.00	55%	(9%)	48%	C\$9.45	C\$22.13	C\$17.62	1.00x	227	\$3,041	\$2,897
Hecla Mining	HL	USD	USD	DR	SP	\$5.51	\$7.50	36%	8%	192%	\$1.45	\$7.26	\$4.14	1.33x	394	\$2,169	\$2,475
Pan American Silver	PAAS	USD	USD	DR	SP	\$16.92	\$23.00	36%	3%	160%	\$5.38	\$21.59	\$15.13	1.12x	152	\$2,573	\$2,271
Fresnillo	FRES	GBP	USD	ТВ	U	£16.16	£14.60	-8%	(2%)	128%	£5.70	£20.57	£8.27	1.95x	737	\$15,481	\$15,387
Global								34%	10%	210%				1.35x		\$38,663	\$39,284

			C	PS			P/	'CF		A	djCFPS (after s	ustaining capita	al)		EV/A	AdjCF	
Company	Tick	14A	15A	16E	17E	14A	15A	16E	17E	14A	15A	16E	17E	14A	15A	16E	17E
a	00.5	40.10	40.04	41.10	40.00			10.0		40.01	40.00	41.01	44.00			10.5	
Coeur Mining	CDE	-\$0.10	\$0.21	\$1.18	\$2.28	n.m.	>15x	10.6x	5.5x	-\$0.31	\$0.08	\$1.04	\$1.98	n.m.	>100x	12.5x	6.5x
Hochschild Mining	HOC	\$0.24	\$0.28	\$0.55	\$0.87	13.6x	11.7x	6.0x	3.8x	\$0.04	\$0.13	\$0.38	\$0.70	>100x	28.1x	9.5x	5.1x
Silver Wheaton	SLW	\$1.18	\$1.06	\$1.57	\$2.02	22.6x	>15x	>15x	13.2x	\$1.22	\$1.09	\$1.61	\$2.05	22.9x	25.8x	17.4x	13.7x
Tahoe Resources	THO	\$1.00	\$0.86	\$1.34	\$1.81	13.4x	>15x	10.0x	7.4x	\$0.87	\$0.65	\$1.01	\$1.48	14.6x	19.6x	12.6x	8.6x
Hecla Mining	HL	\$0.36	\$0.22	\$0.64	\$0.89	15.3x	>15x	8.7x	6.2x	\$0.22	\$0.11	\$0.52	\$0.76	28.0x	55.6x	12.1x	8.3x
Pan American Silver	PAAS	\$0.68	\$0.44	\$1.53	\$2.48	24.9x	>15x	11.1x	6.8x	\$0.14	-\$0.02	\$0.99	\$1.90	>100x	n.m.	15.1x	7.8x
Fresnillo	FRES	\$0.41	\$0.67	\$1.03	\$1.44	>50x	>15x	>15x	14.5x	\$0.15	\$0.46	\$0.83	\$1.24	>100x	45.0x	25.2x	16.8x
Global						18.0x	11.7x	9.3x	8.2x					21.9x	34.8x	14.9x	9.6x

			E	PS			P	/E			Free CF	Yield (2)			Dividend		ROE
Company	Tick	14A	15A	16E	17E	14A	15A	16E	17E	14A	15A	16E	17E	/sh	Yield	Payout	'16E
a	00.5	40.04	40.00	40.04	40.01				15.0	= 00/				40.00			10 54
Coeur Mining	CDE	-\$0.94	-\$0.73	\$0.31	\$0.81	n.m.	n.m.	39.5x	15.3x	-5.9%	-4.2%	4.0%	12.2%	\$0.00	-	n.m.	10.5%
Hochschild Mining	HOC	-\$0.19	-\$0.52	\$0.15	\$0.47	n.m.	n.m.	22.0x	7.0x	-14.0%	-6.8%	6.7%	15.4%	\$0.06	1.8%	40%	9.1%
Silver Wheaton	SLW	\$0.74	\$0.55	\$0.89	\$1.39	35.8x	48.0x	29.8x	19.1x	1.6%	-13.1%	-1.1%	7.6%	\$0.22	0.8%	24%	8.4%
Tahoe Resources	THO	\$0.62	\$0.46	\$0.86	\$1.29	21.7x	29.0x	15.5x	10.4x	4.8%	1.9%	4.2%	7.0%	\$0.24	1.8%	28%	10.6%
Hecla Mining	HL	\$0.02	-\$0.10	\$0.30	\$0.58	>100x	n.m.	18.3x	9.5x	-2.0%	-1.5%	3.6%	9.8%	\$0.01	0.2%	3%	8.4%
Pan American Silver	PAAS	-\$0.15	-\$0.38	\$0.57	\$1.20	n.m.	n.m.	29.7x	14.1x	-1.3%	-3.2%	0.7%	8.9%	\$0.05	0.3%	9%	6.5%
Fresnillo	FRES	\$0.15	\$0.10	\$0.55	\$1.03	>100x	>100x	38.0x	20.4x	-3.3%	1.9%	0.9%	1.2%	\$0.34	1.6%	62%	15.8%
Global						28.7x	38.5x	27.5x	13.7x	-2.9%	-3.6%	2.7%	8.8%		0.9%	28%	9.9%

				Production (Mo	z)			Cash Co	ost (\$/oz)			All-in Sustaini	ng Costs (\$/oz)		Reserve	Resource	EV/	EV/
Company	Tick	14A	15A	16E	17E	2YD	14A	15A	16E	17E	14A	15A	16E	17E	(P&P) (3)	(M&I) (3)	Rsrv	Rsrc
0.000	00.5	17.0	48.0		44.0		444.0	410.0	40.5	44.0	440.4	A.c. 1	410.0	444.0	455.0	100.0	410 51	44.50
Coeur Mining	CDE	17.2	15.9	15.6	16.8	2.9%	\$14.9	\$12.2	\$9.5	\$6.9	\$19.4	\$16.4	\$13.0	\$11.2	155.9	466.3	\$13.51	\$4.52
Hochschild Mining	HOC	16.2	14.8	16.7	22.9	24.6%	\$9.4	\$9.3	\$8.3	\$8.0	\$18.5	\$12.0	\$11.9	\$11.0	73.9	376.8	\$24.49	\$4.80
Silver Wheaton	SLW	35.4	47.8	52.7	51.9	4.2%	\$4.6	\$4.6	\$5.0	\$5.6	\$5.7	\$5.4	\$5.8	\$6.4	1,374.4	2,231.3	\$8.98	\$5.53
Tahoe Resources	THO	19.3	19.3	19.9	19.3	-0.1%	\$6.3	\$6.2	\$5.6	\$6.2	\$9.1	\$8.8	\$8.7	\$9.9	334.9	420.1	\$8.65	\$6.90
Hecla Mining	HL	11.1	11.6	16.1	14.9	13.5%	\$4.8	\$5.8	\$3.6	\$2.3	\$13.6	\$13.9	\$9.5	\$8.4	175.4	336.7	\$14.11	\$7.35
Pan American Silver	PAAS	26.1	26.1	25.0	24.2	-3.8%	\$12.8	\$10.6	\$6.7	\$4.9	\$16.9	\$14.4	\$12.5	\$10.4	280.1	1,001.1	\$8.11	\$2.27
Fresnillo	FRES	44.7	47.0	52.3	60.1	13.1%	\$7.7	\$6.9	\$6.2	\$7.2	\$12.7	\$10.1	\$10.1	\$11.2	1,073.7	1,090.8	\$14.33	\$14.11
Global						7.8%	\$8.6	\$8.0	\$6.4	\$5.9	\$13.7	\$11.6	\$10.2	\$9.8			\$13.17	\$6.50

Long-Term Price Assumptions: Gold: 2016 = \$1,323; 2017 = \$1,500; 2018 = \$1,500; 2019 = \$1,400; 2020+ = \$1,300; Silver: 2016 = \$19.30; 2017 = \$25.00; 2018 = \$25.00; 2019 = \$22.00; 2020+ = \$19.25 Note: Stocks are sorted based on a combination of Rating and Return to Target

Priced as of market close September 16 2016.

Footnotes:

Source: Company Reports, RBCCM Estimates

TP - Top Pick; O - Outperform; SP - Sector Perform; U - Underperform; R - Restricted

Spec - Speculative Risk

DR - Dan Rollins; MM - Mark Mihaljevic; PH - Paul Hissey; RH - Richard Hatch; SW - Stephen Walker; SC - Sam Crittenden; TB - Tyler Broda

(1) Enterprise Value (EV) calcualted as market cap plus debt, reclamation and employee obligations less cash, investments at market value, and working capital

(2) Free Cash Flow is calculated as: Operating Cash Flow - Capex

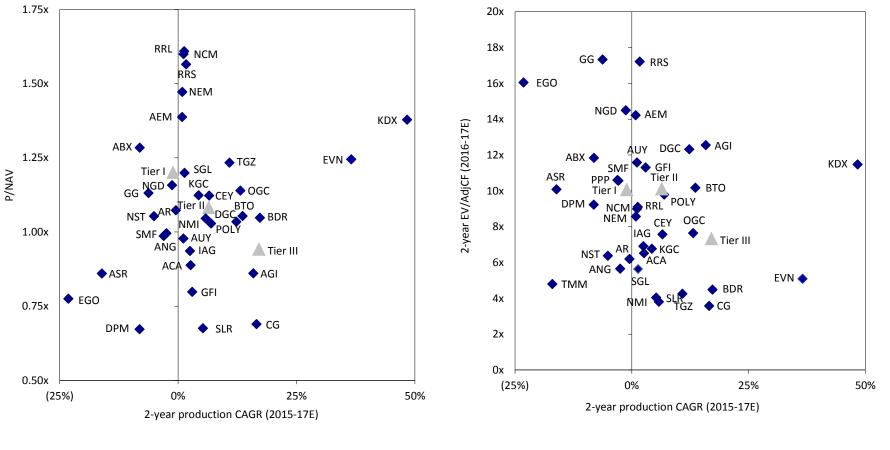
(3) Reserves and Resources in gold only for gold companies, in silver only for silver companies

RBCCM's gold price forecast is \$1.323/oz, \$1.500/oz, \$1.500/oz, and \$1.400/oz for 2016, 2017, 2018, and 2019 respectively, with \$1.300/oz long-term RBCCM's silver price forecast is \$19.30/oz, \$25.00/oz, \$25.00/oz, and \$22.00/oz for 2016, 2017, 2018, and 2019 respectively, with \$19.25/oz long-term RBCCM's platinum price forecast is \$986/oz, \$1,050/oz, \$1,100/oz, and \$1,150/oz for 2016, 2017, 2018, and 2019 respectively, with \$1,150/oz long-term RBCCM's palladium price forecast is \$592/oz, \$700/oz, \$750/oz, and \$800/oz for 2016, 2017, 2018, and 2019 respectively, with \$800/oz long-term \* June year-end companies have been converted to December year-end for comparison purposes

Exhibit 4: 2-year EV/AdjCF versus 2-year production growth



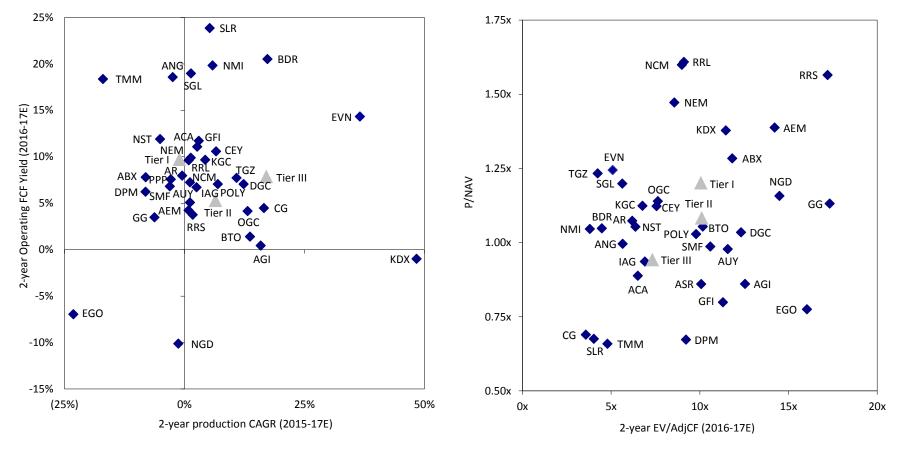
Exhibit 3: P/NAV versus 2-year production growth



Source: RBC Capital Markets estimates

Source: RBC Capital Markets estimates





### Exhibit 5: 2-year FCF Yield versus 2-year production growth

Exhibit 6: P/NAV versus 2-year EV/AdjCF

Source: RBC Capital Markets estimates

Source: RBC Capital Markets estimates





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HOLD [Sector Perform]	741	42.64	129	17.41
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