

BUY: \$37

Target: \$50

Upside: 35%

# Freeport McMoRan (NYSE: FCX)

Materials Sector

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## Company Overview

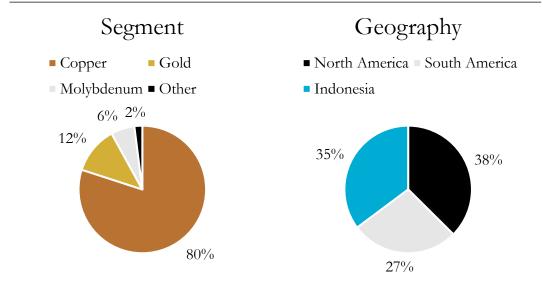


### FCX Description

Freeport-McMoRan Inc. is an international natural resources company. The Company operates large, long-lived, geographically diverse assets with significant reserves of copper, gold, molybdenum, cobalt, oil, and gas.

Market Capitalization	\$54.686B
Forward P/E	14.71x
LTM Revenue	\$21.18B
LTM EBITDA	\$9.58B

#### Revenue Breakdown



### Operating Mines

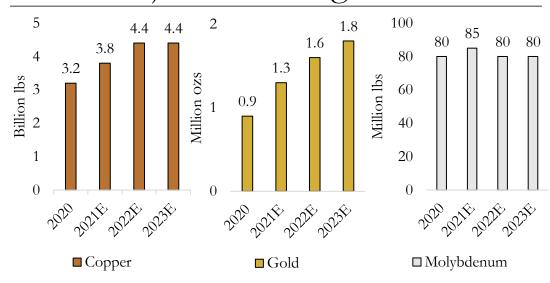
#### North America

- Ownership in seven different mines in the US
- Owns 72% of the largest copper mine (Morenci) in North America
- Owns 100% of the third through sixth largest mines in this region

#### International

- Has shared interest in two mines in South America
- Owns 60% of the Grasberg mine in Indonesia (largest gold reserve and second largest copper reserve globally)

#### FCX Projected Mining Growth



## Industry Analysis



#### Industry Drivers

#### Electric Vehicles

- >65% of global copper is used in applications that deliver electricity
- EVs use up to 4x more copper than internal combustion engines

#### Renewable Energy

• Clean energy technologies use 4-5x more copper than fossil fuel power generation

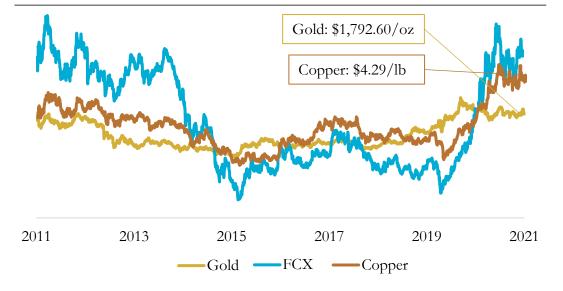
#### Supply Scarcity

- Historically low inventories (LME hit 47-year low and Shanghai lowest since 2009)
- Slow project approval rate

#### Infrastructure Bill

 Global economy recovery and infrastructure development will fuel demand

#### FCX vs Commodities Prices

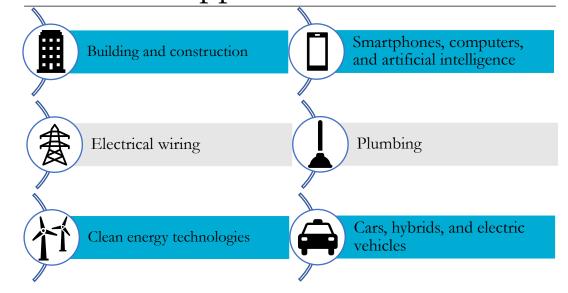


#### Competitors



## RioTinto Newmont

Uses of Copper



## Copper Shortage Benefiting Miners



### Increased Demand for Copper

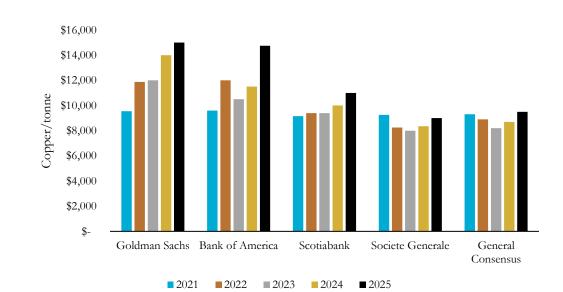
Global green-energy push has led to significant increases in the usage of copper

Worldwide rising costs of energy and emergence of Beijing Green Goals led to stockpiling

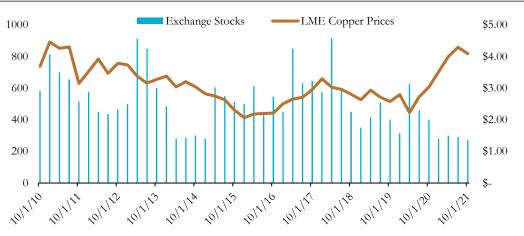


Supply shortage combined with historic increase in demand has led to higher copper prices

### Street Projections

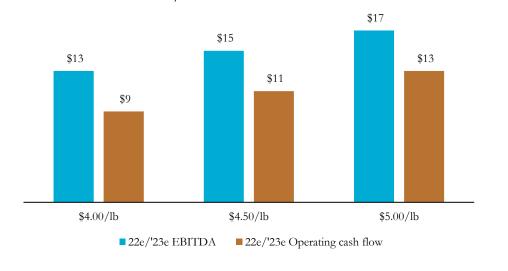


### Copper Prices vs Ending Supply



#### Price Projections' Effects

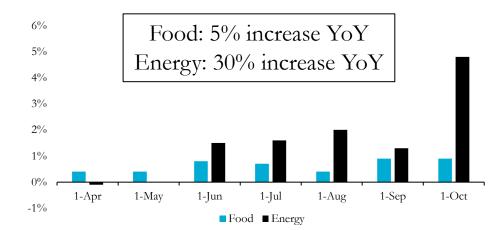
#### EBITDA/Cash Flows at Various Prices



### Inflation Hedge

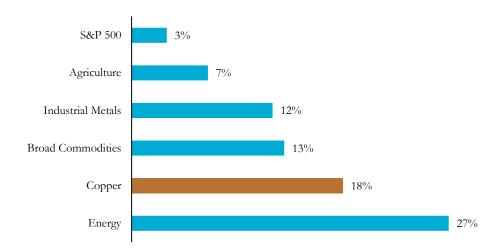


#### Rising Inflation Rates

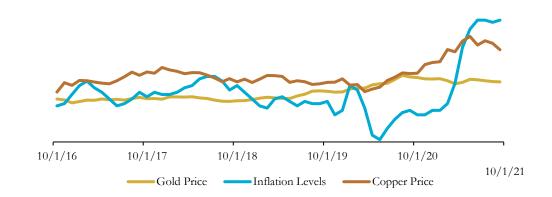


### Copper as an Inflation Hedge

Gains for every 1% annual rise in U.S. CPI

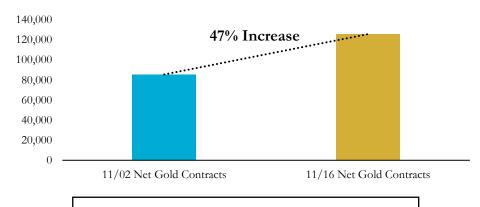


#### Gold vs. Copper vs. Inflation



### Recent Gold Bullish Activity





Société Générale reports this as gold's 3rd largest bullish inflow on record

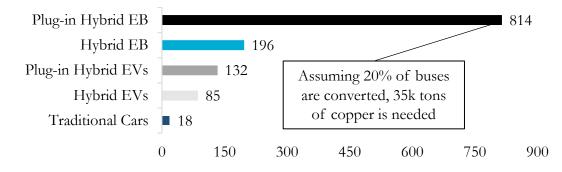
### Infrastructure Bill



#### Electric Vehicles

- Pledges \$7.5 billion for zero- and low-emission buses and ferries
  - The US yellow school bus fleet is made up of approximately 480,000 vehicles
  - The US also have a federal agency fleet composed of almost 650,000 vehicles
- These investments will be in addition to existing EV demand that will rise further due to tax incentives of up to \$12,500 per vehicle to spur consumer demand

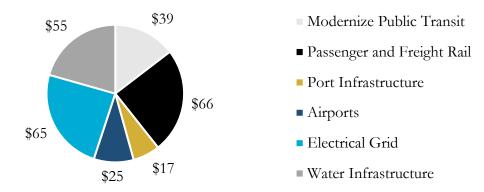
#### Copper Usage Per Vehicle (lbs.)



- Another \$7.5 billion will go towards a nationwide network of plug-in electric vehicle chargers
  - Aims to jump start Biden's goal of constructing 500,000 EV chargers by 2030

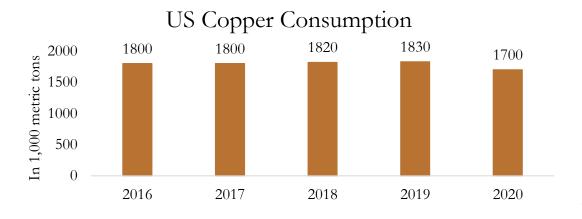
#### Transportation, Power, and Water

#### Copper-Related Bill Allocation (\$ in billions)



### Affect on Copper

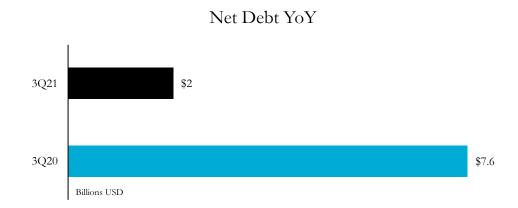
• Assuming an annual US refined copper consumption of approximately 1.8 million tons per year, the bill will translate into additional demand of 500,000 tons over the next five years



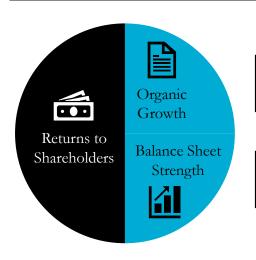
## FCX Advantages



#### Strong Financial Performance



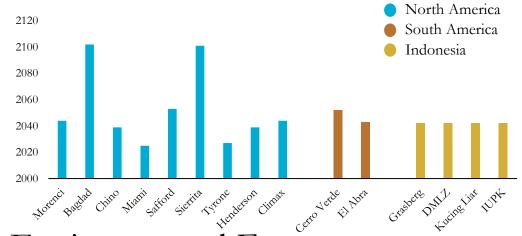
### Performance Based Payout



Up to 50% FCF returns dedicated towards shareholder returns

Increased dividend by 100% for 2022 due to strong 2021 results

### Vast Array of Long-Lived Reserves



#### Environmental Focus



Copper Mark status for 6 mines with 6 more under commitment



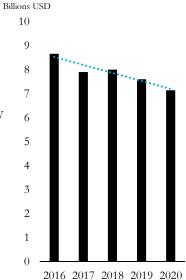
Reduced GHG emissions by 21% since 2016



Americas Copper 15% intensity-reduction plan by 2030 established in 2020

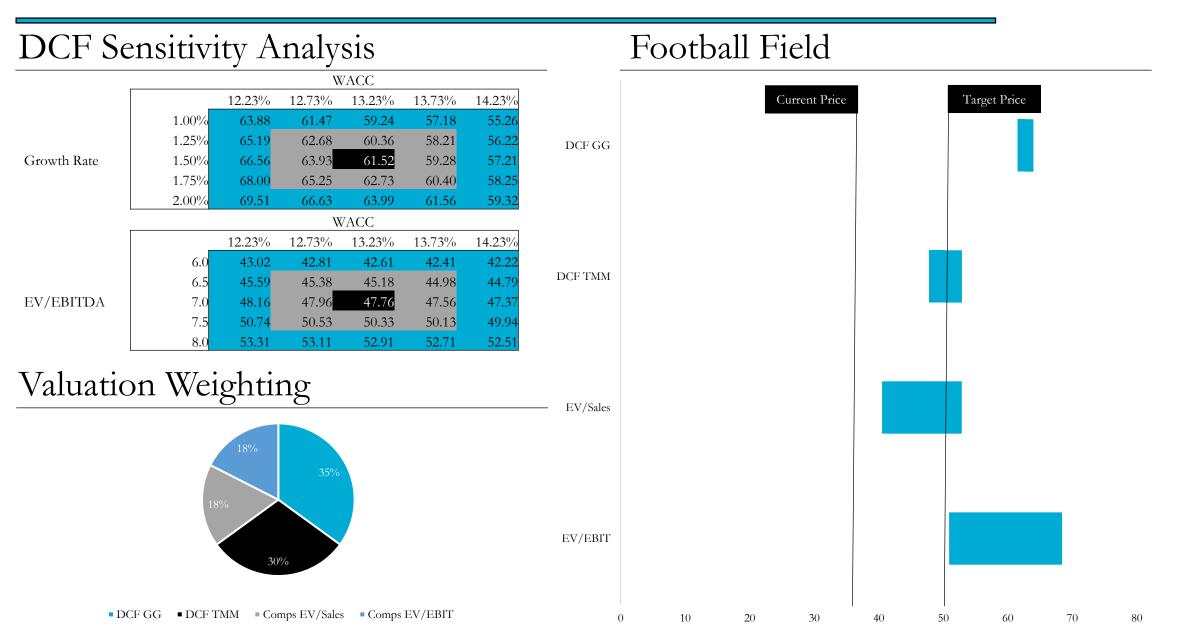


Commitment to be netzero by 2050



### Valuation





## Risks and Mitigants



#### <u>Risks</u>

Supply shortages are resolved sooner than expected

The infrastructure bill's implementation is delayed

Further supply restrictions due to mining concerns or political unrest

#### **Mitigants**

Pent up demand for metals will still need to be met

The timeline for copper demand will be lengthened

FCX has a strong diversified asset portfolio and performance history

# Thank you

Questions?

FREEPORT-McMoRan

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## Appendix



- A) Income Statement
- B) Balance Sheet
- C) Cash Flows
- D) Revenue Drive & Assumptions
- E) WACC
- F) DCF
- G) Comparable Companies Analysis

# A) Income Statement



Freeport McMoRan Income Statement								
Millions USD	FY 2019	FY 2020	FY 2021E	FY 2022E	FY 2023E	FY 2024E	FY 2025E	FY 2026E
Revenues	\$ 14,402	\$ 14,198	\$ 22,563	\$ 24,208	\$ 25,951	\$ 27,285	\$ 28,247	\$ 28,860
Cost of sales:								
Production and delivery	11,534	10,031	11,772	16,946	18,166	19,100	19,773	20,202
% of sales	80.1%	70.7%	52.2%	70.0%	70.0%	70.0%	70.0%	70.0%
Depreciation, depletion and amortization	1,412	1,528	1,901	775	714	716	706	707
Metals inventory adjustments			15	0	0	0	0	0
% of sales	0.0%	0.0%	0.1%	0.0%	0.0%	0.0%	0.0%	0.0%
Total cost of sales	12,946	11,559	13,687	17,721	18,879	19,816	20,479	20,909
Selling, general and administrative expenses	394	370	407	629	675	709	734	750
% of sales	2.7%	2.6%	1.8%	2.6%	2.6%	2.6%	2.6%	2.6%
Mining exploration and research expenses	104	50	51	121	130	136	141	144
% of sales	0.7%	0.4%	0.2%	0.5%	0.5%	0.5%	0.5%	0.5%
Environmental obligations and shutdown costs	105	159	80	242	260	273	282	289
% of sales	0.7%	1.1%	0.4%	1.0%	1.0%	1.0%	1.0%	1.0%
Net loss (gain) on sales of assets	(417)	(473)	(69)	(24)	(26)	(27)	(28)	(29)
% of sales	-2.9%	-3.3%	-0.3%	-0.1%	-0.1%	-0.1%	-0.1%	-0.1%
Total costs and expenses	13,132	11,665	14,156	18,690	19,917	20,907	21,609	22,063
Operating (loss) income	1,270	2,533	8,407	5,519	6,034	6,378	6,638	6,796
Interest expense, net	(620)	(598)	(563)	(774)	(853)	(228)	(236)	(241)
% of long-term debt	-6.3%	-6.2%	-6.4%	-5.7%	-5.9%	-1.5%	-1.5%	-1.5%
Net loss on early extinguishment of debt	(27)	(101)						
Other income, net	(138)	59 '	68	48 '	52	55	56	58
% of sales	-1.0%	0.4%	0.3%	0.2%	0.2%	0.2%	0.2%	0.2%
(Loss) income from continuing operations before income taxes and	485	1,893	7,912	4,793	5,232	6,204	6,459	6,614
Benefit from (provision for) income taxes	(510)	(944)	(2,264)	(1,270)	(1,386)	(1,644)	(1,712)	(1,753)
Tax rate	-105.2%	-49.9%	-28.6%	-26.5%	-26.5%	-26.5%	-26.5%	-26.5%
Equity in affiliated companies' net earnings (losses)	12	12						
Net (loss) income from continuing operations	(13)	961	5,648	3,523	3,846	4,560	4,747	4,861
Net gain from discontinued operations	3	0						
Net income	(10)	961	5,648	3,523	3,846	4,560	4,747	4,861

## B) Balance Sheet



C MAD BL C								
Freeport McMoRan Balance Sheet Millions USD	EX 2010	EV 2020	EX 2021E I	TV 2022E	EX 2022E	ESZ 2024E I	X 2025E	EV 2027E
Current assets:	FY 2019	F1 2020	FY 2021E I	F1 ZUZZE	F1 2023E.	F1 2024E I	F1 2025E.	F1 2020E
Cash and cash equivalents	\$ 2,020	\$ 3,657						
Trade accounts receivable	3 2,020 741	3 3,037 892	806	1,707	1,807	1,495	1,548	1,581
AR Days	19	23	13	26	25	1,495	20	1,361
Income and other tax receivables	426	520	516	768	813	822	851	870
AR Days	426	13	210	12	11	022	651 11	870 11
Inventories:	11	13	٥	12	11	11	11	11
Total materials and supplies, net	1,649	1,594	1,647	2,617	2,770	3,111	3,220	3,290
% sales	11.4%	1,394	7.3%	10.8%	10.7%	11%	11%	3,230
Mill and leach stockpiles	1,143	1,014	1,176	1,931	2,044	2,183	2,260	2,309
% sales	7.9%	7.1%	5.2%	8.0%	2,0 <del>44</del> 7.9%	2,183 8%	2,260 8%	2,309
Product	1,281			2,181			2,655	
	8.9%	1,285 9.1%	1,471	9.0%	2,308	2,565 9%	2,655 9%	2,713
% sales			6.5%		8.9%			9%
Other current assets	655 4.5%	341	529	997	1,055 4.1%	955 4%	989 4%	1,010 4%
% sales		2.4%	2.3%	4.1%	4.1%	4%	4%	4%
Total current assets	7,915	9,303						
Property, plant, equipment and mine development costs, net	29,584	29,818						
Long-term mill and leach stockpiles	1,425	1,463						
Other assets	1,885	1,560						
Total assets	40,809	42,144						
Current liabilities:	2 576	2 700	2.522	2 522	2.746			4 500
Accounts payable and accrued liabilities	2,576	2,708	2,639	3,523	3,746	4,343	4,489	4,583
AP Days	73	86	70	73	72	80	80	80
Current portion of environmental and asset retirement obligations	119	324						
Long-term Debt, Current Maturities	436	351	926	371	394	651	673	687
AP Days	12	11	25	8	8	12	12	12
Accrued income taxes	5	34	236	102	70	33	34	35
% of income taxes	-1.0%	-3.6%	-10.4%	-8.0%	-5.1%	-2%	-2%	-2%
Dividends Payable, Current	73	0						
Total current liabilities	3,209	3,417						
Long-term debt, less current portion	9,821	9,677	8,798	13,598	14,457	15,201	15,710	16,040
AP Days	277	306	235	280	280	280	280	280
Deferred Income Tax Liabilities, Net	4,210	4,408						
Environmental and asset retirement obligations, less current portion	3,630	3,705						
Other liabilities	2,491	2,269						
Total liabilities	23,361	23,476						
Stockholders' equity:								
Common stock	158	159						
Capital in excess of par value	25,830	26,037						
Accumulated deficit	(12,280)	(11,681)						
Accumulated other comprehensive loss	(676)	(583)						
Common stock held in treasury	(3,734)	(3,758)						
Total stockholders' equity	9,298	10,174						
Noncontrolling interests	8,150	8,494						
Total equity	17,448	18,668						
Total liabilities and equity	\$ 40,809	\$ 42,144						

## C) Cash Flows



Freeport McMoRan Cash Flow Statement			Cash flow from financing activities:		
Millions USD	FY 2019	FY 2020	Proceeds from debt	1,879	3,531
Metals inventory adjustments	\$ 165	\$ 156	Repayments of debt	(3,197)	(3,724)
Cash flow from operating activities:			Cash dividends and distributions paid:		
Net (loss) income	(189)	865	Common stock	(291)	(73)
Adjustments to reconcile net (loss) income to net cash (used in)			Noncontrolling interests	(82)	Ô
provided by operating activities:			Other, net	(30)	(18)
Depreciation, depletion and amortization	1,412	1,528	Contributions from noncontrolling interests	(/	( -/
% of CapEx	-53.2%	-77.9%	Stock-based awards net payments		
Metals inventory adjustments			Proceeds from exercised stock options		
Payments for Legal Settlements	(187)	(139)	Payments of Financing Costs		
Gain (Loss) on Disposition of Assets	(417)	(473)	Net cash provided by (used in) financing activities	(1,556)	(128)
Stock-based compensation	63	99	Cash, Cash Equivalents, Restricted Cash and Restricted Cash Equivalents,	(2,177)	1,625
Net charges for environmental and asset retirement obligations,	221	181	Period Increase (Decrease), Including Exchange Rate Effect	(2,177)	1,023
including accretion			Terrod mercase (bedrease), merdanig Exchange Nate Effect		
Payments for environmental and asset retirement obligations	244	216	Cash, cash equivalents, restricted cash and restricted cash equivalents		
Net charges for defined pension and postretirement plans	108	65	at beginning of year		
Pension plan contributions	(75)	(121)	Cash, cash equivalents, restricted cash and restricted cash equivalents	2,278	3,903
Net loss on early extinguishment of debt	27	101		2,270	3,903
Deferred income taxes	29	181	at end of period	170	00
Proceeds from Dividends Received	40		Inventory Adjustments	179	96
Payments for Environmental Liabilities	(37)	(33)	North America Copper Mines Segment [Member]		
Cerro Verde royalty dispute, charges	65	32	Cash flow from investing activities:	400	454
Other, net	138	53	Proceeds from Sale of Other Assets, Investing Activities	109	154
Changes in working capital and other:			North America Copper Mines Segment [Member]		
Accounts receivable	119	132	Cash flow from investing activities:		
Inventories	259	42	Capital expenditures	(877)	(428)
Other current assets	60	(27)	South America Mines Segment [Member]		
Accounts payable and accrued liabilities	(60)	115	Cash flow from investing activities:		
Accrued income taxes and timing of other tax payments	(29)	403	Capital expenditures	(256)	(183)
Net cash provided by operating activities	1,482	3,017	Grasberg Segment [Member]		
Cash flow from investing activities:			Cash flow from investing activities:		
Capital expenditures	(2,652)	(1,961)	Capital expenditures	(1,369)	(1,266)
% of sales	-18.4%	-13.8%	Molybdenum		
Proceeds from Sale of Other Assets, Investing Activities	0	0	Cash flow from investing activities:		
Proceeds from Sale of Productive Assets			Capital expenditures	(19)	(19)
Acquisition of minority interest in PT Smelting		0	Other Segments [Member]		
Other, net	(12)	(7)	Cash flow from investing activities:		
Net cash used in investing activities	(2,103)	(1,264)	Capital expenditures	(131)	(65)

## D) Revenue Drive & Assumptions



D&A	1,412	1,528	1,901	775	714	716	706	707
% of capex	-161.00%	-357.01%	-578.31%	-145.58%	-110.00%	-105%	-100%	-98%
CapEx	(877)	\$ (428)	(329)	(533)	(649)	(682)	(706)	(721)
% of sales	-6.09%	-3.01%	-1.46%	-2.20%	-2.50%	-2.50%	-2.50%	-2.50%
Current Assets	5,895	5,646	6,145	10,201	10,796	11,131	11,523	11,773
Current Liabilities	3,017	3,093	3,801	3,996	4,210	5,028	5,196	5,305
NWC	2,878	2,553	2,343	6,205	6,586	6,103	6,327	6,468
Change in NWC			(210)	3,862	380	(483)	224	141

Freeport McMoRan Revenue Drive								
Millions USD	FY 2019	FY 2020	FY 2021E F	Y 2022E I	FY 2023E I	FY 2024E I	FY 2025E F	Y 2026E
Revenue	14,402	14,198	22,563	24,208	25,951	27,285	28,247	28,860
Copper								
Concentrate	4,566	4,294	8,822	10,291	10,797	11,120	11,343	11,570
% growth	,,,,,,,	-6.0%	105.4%	16.7%	4.9%	3.0%	2.0%	2.0%
Cathode	3,656	4,204	5,607	5,898	6,386	6,769	7,074	7,215
% growth	-,	15.0%	33.4%	5.2%	8.3%	6.0%	4.5%	2.0%
Rod and other refined copper produc	2,110	2,052	3,603	4,335	4,686	4,920	5,092	5,194
% growth	,	-2.7%	, 75.6%	20.3%	8.1%	5.0%	3.5%	2.0%
Purchased copper	1,060	821	699	56	33	31	30	28
% growth		-22.5%	-14.8%	-92.1%	-40.6%	-5.0%	-5.0%	-5.0%
Gold	1,620	1,702	2,545	3,083	3,490	3,839	4,069	4,191
% growth		5.1%	49.5%	21.1%	13.2%	10.0%	6.0%	3.0%
Molybdenum	1,169	848	1,313	1,247	1,223	1,260	1,285	1,298
% growth		-27.5%	54.9%	-5.0%	-1.9%	3.0%	2.0%	1.0%
Other	905	592	883	891	927	936	946	955
% growth		-34.6%	49.2%	1.0%	1.0%	1.0%	1.0%	1.0%
Revenue adjustments:								
Treatment charges	(404)	(362)	(447)	(467)	(427)	(418)	(409)	(400)
% of sales	-2.8%	-2.5%	-2.0%	-1.9%	-1.6%	-2.2%	-2.2%	-2.2%
Royalty expense	(113)	(165)	(337)	(390)	(402)	(405)	(409)	(412)
% of sales	-0.8%	-1.2%	-1.5%	-1.6%	-1.5%	0.8%	0.8%	0.8%
Export duties	(221)	(92)	(216)	(289)	(296)	(298)	(299)	(301)
% of sales	-1.5%	-0.6%	-1.0%	-1.2%	-1.1%	0.6%	0.6%	0.6%
Revenueues from contracts with custor	14,348	13,894	22,471	24,655	26,416	27,755	28,722	29,339
Embedded derivatives	54	304	92	(447)	(465)	(470)	(474)	(479)
% of sales	0.4%	2.1%	0.4%	-1.8%	-1.8%	1.0%	1.0%	1.0%
Total revenue	14,402	14,198	22,563	24,208	25,951	27,285	28,247	28,860

# E) WACC

FCX	
WACC	
MV Debt	9,665
Weight of Debt	14.85%
Pre-tax cost of debt	2.82%
Post-tax cost of debt	2.07%
MV Equity	55435
Weight of equity	85.15%
Expected market return	10%
risk free rate	1.60%
Equity risk premium	8.40%
beta	1.62
cost of equity	15.17%
WACC	13.23%

Interest Coverage Ratio	)
EBIT	2,491
Interest Expense	(598)
Coverage ratio	-4.17
Spread	1.22%
Risk Free	1.60%
Cost of Debt	2.82%





FCX DCF								
Millions USD	FY 2019	FY 2020	FY 2021E	FY 2022E	FY 2023E	FY 2024E	FY 2025E	FY 2026E
EBIT	1,105	2,491	8,475	5,567	6,085	6,433	6,695	6,854
Tax	(510)	(944)	(2,264)	(1,270)	(1,386)	(1,644)	(1,712)	(1,753)
NODAT	1 (15	2 425	10.720	C 020	7 470	0.077	0.400	0.07
NOPAT	1,615	3,435	10,739	6,838	7,472	8,077	8,406	8,607
Plus: D&A	1,412	1,528	1,901	775	714	716	706	707
Less: CapEx	(877)	(428)	(329)	(533)	(649)	(682)	(706)	(721)
Less: Change In NWC	0	0	(210)	3,862	380	(483)	224	141
FCFF	2,150	4,535	12,520	3,218	7,156	8,594	8,182	8,452
Gordon Growth				0.5	1.5	2.5	3.5	4.5
FCFF		4,535	12,520	3,218	7,156	8,594	8,182	8,452
PV of FCFF				3,025	5,940	6,300	5,297	4,833
PV of Terminal Value								73,159
Terminal Multiple				0.5	1.5	2.5	3.5	4.5
FCFF		4,535	12,520	3,218	7,156	8,594	8,182	8,452
PV of FCFF				3,025	5,940	6,300	5,297	4,833
PV of Terminal Value								52,928

WACC	13%
Terminal Multiple	7
Growth Rate	2%

Gordon Growth	
Enterprise value	105,710
Cash	7,672
Debt	9,665
Non-Controlling Interests	13,353
Equity value	90,364
DSO	1,468
Share Price	61.54
Terminal Multiple	
Enterprise value	85,479
Cash	7,672
Debt	9,665
Non-Controlling Interests	13,353
1 von Controlling Interests	
Equity value	70,133
	, ·

## G) Comparable Companies Analysis



Name	Ticker	2Y Corr	Mkt Cap (USD)	BF EV/EBITDA	BF P/E	BF EV/EBIT	BF EV/Rev	LF P/BV
Freeport-McMoRan Inc	FCX US		54685953736	5.54	11.17	6.84	2.68	4.09
First Quantum Minerals Ltd	FM CN	0.81	14548711046	4.94	9.49	6.94	2.77	1.50
Lundin Mining Corp	LUN CN	0.75	5753124632	3.64	8.26	5.11	1.89	1.35
Boliden AB	BOL SS	0.62	9076518603	4.99	9.78	7.51	1.22	1.71
Capstone Mining Corp	CS CN	0.60	1912262043	3.97	8.53	4.54	2.18	1.97
Aurubis AG	NDA GR	0.58	3767726328	6.21	12.83	9.46	0.21	1.02
Encore Wire Corp	WIRE US	0.55	2811129900	7.99	12.72	8.65	1.06	2.32
Turquoise Hill Resources Ltd	TRQ CN	0.48	2864047896	8.21	12.87	12.09	3.53	0.29
Equinox Gold Corp	EQX CN	0.37	2172067838	4.04	10.31	6.22	1.68	0.93
Min			1912262043	3.64	8.26	4.54	0.21	0.29
Q1			2491598869	4.01	9.01	5.66	1.14	0.97
Med			3767726328	4.99	10.31	6.94	1.89	1.50
Q3			11812614825	7.10	12.77	9.06	2.73	2.15
Max			54685953736	8.21	12.87	12.09	3.53	4.09

Comps Output	E	V	Debt	Cash	equity	Shares	Per share
EV/EBIT	8,475						
Min	4.54	38440	9,665	7672	36,447	1468.47	24.82
Q1	5.66	48011	9,665	7672	46,018	1468.47	31.34
Med	6.94	58856	9,665	7672	56,863	1468.47	38.72
Q3	9.06	76754	9,665	7672	74,761	1468.47	50.91
Max	12.09	102468	9,665	7672	100,475	1468.47	68.42
EV/SALES	22563.16						
Min	0.21	4650	9,665	7,672	2,657	1468.47	1.81
Q1	1.14	25695	9,665	7,672	23,702	1468.47	16.14
Med	1.89	42570	9,665	7,672	40,577	1468.47	27.63
Q3	2.73	61505	9,665	7,672	59,512	1468.47	40.53
Max	3.53	79643	9,665	7,672	77,650	1468.47	52.88