Valuentum Retail Equity Research Visit us at www.valuentum.com Data as of 7-May-2025

Rio Tinto RIO FAIRLY VALUED

Buying Index™

3

Upside/Downside Volume (U/D)

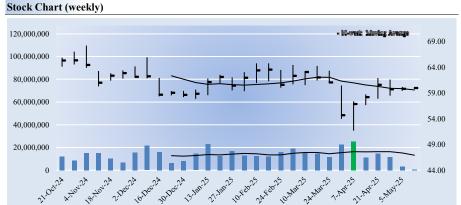
Value Rating



BULLISH

Economic Castle Estimated Fair Value Fair Value Range **Investment Style** Sector Industry Neutral \$46.00 - \$76.00 LARGE-CAP VALUE Materials Mining & Chemicals

Rio Tinto is one of our favorite mining entities, but the company is exposed to the volatility of iron ore and copper prices.



Company Vitals	
Market Cap (USD)	\$97,898
Avg Weekly Vol (30 wks)	13,639
30-week Range (USD)	51.67 - 68.18
Valuentum Sector	Materials
5-week Return	4.9%
13-week Return	-6.2%
30-week Return	-8.3%
Dividend Yield %	6.7%
Dividends per Share	4.02
Forward Dividend Payout Ratio	64.5%
Est. Normal Diluted EPS	6.63
P/E on Est. Normal Diluted EPS	9.0
Est. Normal EBITDA	21,548
Forward EV/EBITDA	4.9
EV/Est. Normal EBITDA	4.7
Forward Revenue Growth (5-yr)	0.4%
Forward EPS Growth (5-yr)	0.3%
NMF = Not Meaningful; Est. = Estimated; FY = Fise	cal Year

Returns Summary	3-year Historical Average
Return on Equity	21.9%
Return on Assets	11.4%
ROIC, with goodwill	14.0%
ROIC, without goodwill ROIC = Return on Invested Capital; NMF =	14.2% Not Meaningful

Leverage, Coverage, and Liquidity

In Millions of USD		_
Total Debt		12,809
Net Debt		3,944
Total Debt/EBITI)A	0.7
Net Debt/EBITDA	A	0.2
EBITDA/Interest		25.3
Current Ratio		1.6
Quick Ratio		1.1
NMF = Not Meaningful		

Investment Highlights

- · Rio Tinto is one of the world's largest miners. The firm is a global leader in the aluminum industry and the second-largest producer supplying the global seaborne iron ore trade. It also has copper, diamonds, titanium, and lithium operations, and investors must be aware of the potential for volatile commodity prices to impact results. Rio Tinto is headquartered in London, UK.
- · Rio Tinto acquired the Rincon lithium project in Argentina for ~\$0.8 billion in March 2022, which is a large undeveloped lithium brine development. The outlook for global lithium demand growth over the long haul is incredibly bright.
- Rio Tinto carries a solid 'A-rated' investment grade credit rating (A/A2), though the miner does carry a sizable net debt load on the books. The miner sold out of Indonesia's Grasberg mine in 2018 for ~\$3.5 billion, and is moving forward with projects in Australia, South Africa, the US, Mongolia, and elsewhere. Rio Tinto's development pipeline is robust.
- · Iron ore and copper prices have cooled off recently, though Rio Tinto's outlook remains bright. Reforms in China's steel industry are expected to provide a longterm tailwind to the miner's performance. Growing demand for renewable energy supports the long-term demand outlook for copper.
- · We're big fans of Rio Tinto's Australian Pilbara operations, which are close to some of the world's best markets for iron ore. The company has a nice position on the cost curve for aluminum smelting, and its copper assets are of high quality.

FAIRLY VALUED
NEUTRAL
GOOD
MEDIUM
NEGATIVE
STRONG
LOW
MODEST
BEARISH
NEUTRAL
NEUTRAL

Near-term Technical Support, 10-week MA 60.00 DCF = Discounted Cash Flow; MFI, U/D = Please see glossary. MA = Moving Average

Business Quality		ValueCreationTM	I	
ValueRisk TM	Very Poor	Poor	Good	Excellent
Low				
Medium				
High				
Very High				

Relative Valuation	Forward P/E	PEG	Price / FV	
Air Products & Chemicals	24.1	1.5	108.2%	
BHP Billiton	6.6	1.9	91.5%	
DuPont	15.2	2.0	89.6%	
Sherwin-Williams	29.5	2.1	93.8%	
Peer Median	19.7	1.9	92.6%	
Rio Tinto	9.6	2.3	98.3%	
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Price / FV = Current Stock Price divided by Estimated Fair Value

Financial Summary	Actua	1	Projected
Fiscal Year End:	Dec-23	Dec-24	Dec-25
Revenue	54,041	53,658	52,129
Revenue, YoY%	-2.7%	-0.7%	-2.9%
Operating Income	14,867	13,990	15,321
Operating Margin %	27.5%	26.1%	29.4%
Net Income	10,058	11,552	10,179
Net Income Margin %	18.6%	21.5%	19.5%
Diluted EPS	6.16	7.07	6.23
Diluted EPS, YoY %	-18.9%	NMF	NMF
Free Cash Flow (CFO-capex)	8,074	5,978	5,572
Free Cash Flow Margin % In Millions of USD (except for per share items)	14.9%	11.1%	10.7%

Structure of the Diversified Mining Industry

POOR

The diversified mining industry is highly cyclical and almost entirely commoditized, with little differentiation from one firm to the next. Rising input costs can only be passed on to consumers if industry-wide prices increase. Exploration and development require large capital investments, which could pressure cash flows during weak economic times. A miner's position on the cost curve for each respective resource is a critical investment consideration, given the volatility of commodity prices. Though emerging market growth will be a key source of demand for years to come, we don't like the structure of the group.



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WALUENTUM Value Rating

Economic Castle Neutral

Estimated Fair Value \$61.00

Fair Value Range \$46.00 - \$76.00

Investment Style LARGE-CAP VALUE

Sector Materials

3

Industry Mining & Chemicals

Economic Profit Analysis

ValueCreationTM **GOOD**

The best measure of a firm's ability to create value for shareholders is expressed by comparing its return on invested capital (ROIC) with its weighted average cost of capital (WACC). The gap or difference between ROIC and WACC is called the firm's economic profit spread. Rio Tinto's 3-year historical return on invested capital (without goodwill) is 14.2%, which is above the estimate of its cost of capital of 10%. As such, we assign the firm a ValueCreation™ rating of GOOD. In the chart to the right, we show the probable path of ROIC in the years ahead based on the estimated volatility of key drivers behind the measure. The solid grey line reflects the most likely outcome, in our opinion, and represents the scenario that results in our fair value estimate.

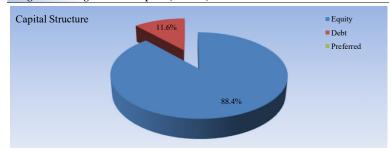
ROIC - WACC Spread, 3-year historical average	4.2%
ROIC - WACC Spread, 5-year projected average	3.3%

These spreads equal the firm's annual average ROIC (excluding goodwill) less its WACC.

ValueTrend™ **NEGATIVE**

Rio Tinto receives a ValueTrendTM rating of NEGATIVE, which is based on the company's trailing three-year performance. The firm's ROIC (excluding goodwill) fell to 11.4% last year from its trailing 3-year average of 14.2%. We expect ROIC (excluding goodwill) to be in the ballpark of about 13% by the end of our discrete forecast period, with downside risk to about 5% over that time period.

Weighted Average Cost of Capital (WACC)



Cost of Equity

Cost of Equity Assumption	10.8%
Estimated Equity Risk Premium	6.5%
Fundamental Beta (ERP multiplier)	1.0
Risk Free Rate Assumption	4.3%

After-tax Cost of Debt

After-tax Cost of Debt Assumption	3.9%
Cash Tax Rate Assumption	30.0%
Cost of Debt Assumption	5.6%
Synthetic Credit Spread	1.29%
Risk Free Rate Assumption	4.3%

Cost of Preferred Stock	
Preferred Dividends	0
Value of Preferred Stock	0
Cost of Preferred Assumption	NA

Weighted Average Cost of Capital (WACC)

ERP = Equity Risk Premium

Return on Invested Capital (ROIC)



The graph above shows the firm's ROIC (excluding goodwill) compared with historical averages and its WACC

Assessment of Company Dividend Strategy

Key Strengths

Rio Tinto is a strong cash flow generator due to its impressive iron, copper, aluminum, diamonds, and titanium operations which covers mining and smelting activities, depending on the resource. It is also targeting lithium opportunities as well. The company has a rock-solid 'A-rated' investment grade credit rating (A/A2), indicating the market remains confident in its ability to pay back debt and tap capital markets for funds as needed. Please note that Rio Tinto's dividend has been historically volatile, and that the firm paid out special dividends in the recent past. Rio Tinto is constantly focused on improving its operational execution and cost structure.

Potential Weaknesses

Rio Tinto's net debt load poses a headwind to its dividend and the miner's performance is heavily influenced by the trajectory of volatile commodity prices. Having a net cash position would put the miner in a better spot to deal with exogenous shocks. We caution that Rio Tinto's dividend has been cut in the past when things got tough, and we expect payout volatility going forward. Rio Tino's capital expenditure requirements are quite substantial, though the firm is a tremendous cash flow generator, and its asset base includes numerous high-quality operations. We are fans of its iron ore mining operations in Australia's Pilbara region.

Note: Valuentum may provide an adjusted ROIC measure to better reflect the economic substance of a company's operations, as in the case of companies with negative invested capital.



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Value Rating

Economic Castle Neutral Estimated Fair Value \$61.00 **Fair Value Range** \$46.00 - \$76.00

Investment Style LARGE-CAP VALUE

Sector Materials

3

IndustryMining & Chemicals

Growth Analysis

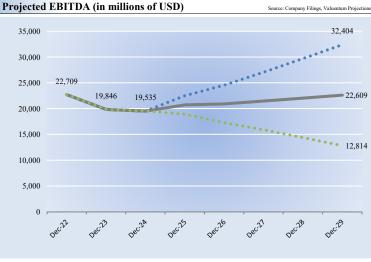
Revenue Growth				MODEST
		Last Fiscal		
		Year	3-year Historical	5-year Projected
		Revenue	CAGR	CAGR
Rio Tinto	USD	53,658	-5.5%	0.4%
Air Products & Chemical	USD	12,101	5.4%	6.3%
BHP Billiton	USD	55,658	-0.7%	-1.8%
DuPont	USD	12,386	-0.5%	3.8%
Sherwin-Williams	USD	23,099	5.0%	4.3%
Peer Median			2.3%	4.0%
Industry Median			3.1%	4.2%

Rio Tinto's revenue expansion has trailed the median of both its peer group and its industry group during the past three years. We expect the firm's pace of revenue growth to fall below the median of both its peer group and industry group during the next five years. Our growth assessment of each firm is based on the firm's 5-year forward revenue CAGR. Rio Tinto's future pace of revenue growth is MODEST, in our opinion.

In the chart above, we show our baseline forecast for revenue as well as potential upside and downside cases.

EBITDA Growth Last Fiscal Year 3-year Historical 5-year Projected **EBITDA** CAGR CAGR Rio Tinto USD 19,535 -16.8% 3.0% Air Products & Chemical 4,299 5.4% 11.2% USD **BHP** Billiton -6.2% -3 7% USD 28,066 DuPont 0.6% 3.9% USD 3,066 Sherwin-Williams USD 4,399 10.8% 12.1% Peer Median 3.0% 7.5% 2.4% Industry Median

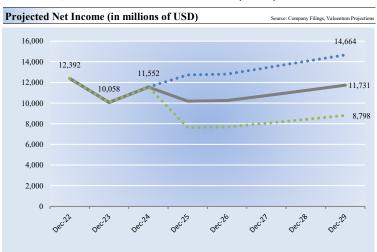
Rio Tinto's EBITDA expansion has trailed both that of its peer group and its industry group during the past three years. We expect the firm's pace of EBITDA growth to fall below that of both its peer group and industry group during the next five years. Sherwin-Williams sports the highest EBITDA growth rate among peers.



In the chart above, we show our baseline forecast for EBITDA as well as potential upside and downside cases.

Net Income Growth				
		Last Fiscal		
		Year Net	3-year Historical	5-year Projected
		Income	CAGR	CAGR
Rio Tinto	USD	11,552	-18.2%	0.3%
Air Products & Chemical	USD	3,842	22.2%	3.1%
BHP Billiton	USD	7,897	-11.3%	8.3%
DuPont	USD	743	-13.8%	17.7%
Sherwin-Williams	USD	2,681	12.9%	14.9%
Peer Median			0.8%	11.6%
Industry Median			2.7%	8.2%

Rio Tinto's net income expansion has trailed both that of its peer group and its industry group during the past three years. We expect the firm's pace of net income growth to fall below that of both its peer group and industry group during the next five years. DuPont sports the highest expected net income growth rate among peers.



In the chart above, we show our baseline forecast for net income as well as potential upside and downside cases



Rio Tinto RIO FAIRLY VALUED

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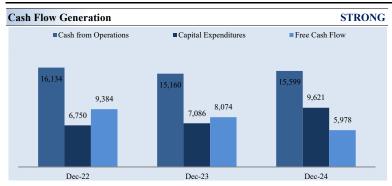
Value Rating

Economic Castle Neutral Estimated Fair Value \$61.00 Fair Value Range \$46.00 - \$76.00 Investment Style LARGE-CAP VALUE Sector Materials

3

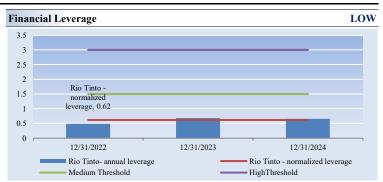
IndustryMining & Chemicals

Cash Flow and Financial Leverage Analysis



The bars above show the firms operating cash flow, capital expenditures, and free cash flow, respectively

Firms that generate a free cash flow margin (free cash flow divided by total revenue) above 5% are usually considered cash cows. Rio Tinto's free cash flow margin has averaged about 14.3% during the past 3 years. As such, we think the firm's cash flow generation is relatively STRONG. The free cash flow measure shown above is derived by taking cash flow from operations less capital expenditures and differs from enterprise free cash flow (FCFF), which we use in deriving our fair value estimate for the company. For more information on the differences between these two measures, please visit our website at Valuentum.com. At Rio Tinto, cash flow from operations decreased about 3% from levels registered two years ago, while capital expenditures expanded about 43% over the same time period.



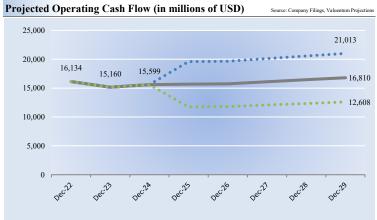
The bars above show the firm's annual debt-to-EBITDA. The red line shows the firm's normalized measure.

Firms that exhibit high leverage tend to be more risky than firms with relatively low debt loads, all else equal. We measure financial leverage by taking a firm's current total debt load and dividing it by the firm's trailing average 3-year annual EBITDA. Firms that are over 3 for this metric, we rate as having high leverage. Companies that have less than 1.5 turns of leverage (or a measure below 1.5), we rate as having low leverage. Rio Tinto's normalized debt-to-EBITDA measure of about 0.62 puts it in the LOW camp.

Cash Flow from Operations

		Last Fiscal Year CFO	3-year Historical CAGR	5-year Projected CAGR
Rio Tinto	USD	15,599	-14.9%	1.5%
Air Products & Chemical	USD	3,647	3.0%	10.9%
BHP Billiton	USD	20,665	-8.8%	-1.7%
DuPont	USD	1,847	-6.8%	13.3%
Sherwin-Williams	USD	3,153	12.0%	17.2%
Peer Median			-1.9%	12.1%
Industry Median			-1.4%	10.1%

Rio Tinto's cash flow from operations expansion has trailed both that of its peer group and its industry group during the past three years. We expect the firm's pace of cash flow from operations growth to fall below that of both its peer group and industry group during the next five years. Sherwin-Williams sports the highest expected cash flow from operations growth rate among peers.

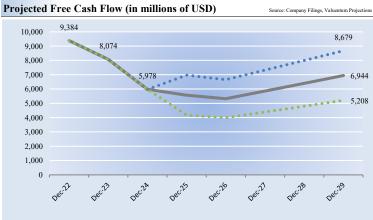


In the chart above, we show our baseline forecast for CFO as well as potential upside and downside cases.

Free Cash Flow (CFO-capital expenditures)

		Last Fiscal Year FCF	3-year Historical CAGR	5-year Projected CAGR
Rio Tinto	USD	5,978	-30.7%	3.0%
Air Products & Chemical	USD	-3,150	-253.1%	-199.5%
BHP Billiton	USD	11,392	-19.0%	-5.7%
DuPont	USD	1,268	-5.3%	16.6%
Sherwin-Williams	USD	2,083	3.6%	24.8%
Peer Median			-12.1%	5.4%
Industry Median			-14.9%	8.9%

Rio Tinto's free cash flow expansion has trailed both that of its peer group and its industry group during the past three years. We expect the firm's pace of free cash flow growth to fall below that of both its peer group and industry group during the next five years. Sherwin-Williams sports the highest expected free cash flow growth rate among peers.



In the chart above, we show our baseline forecast for free cash flow as well as potential upside and downside cases

Rio Tinto RIO FAIRLY VALUED

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Value Rating



 Economic Castle
 Estimated Fair Value
 Fair Value Range
 Investment Style
 Sector
 Industry

 Neutral
 \$61.00
 \$46.00 - \$76.00
 LARGE-CAP VALUE
 Materials
 Mining & Chemicals

Valuation Analysis

Valuation Assumptions				
In Millions of USD (except for per share items)	5-year Projections			
Revenue CAGR %	0.4%			
Avg. EBIT Margin %	30.3%			
Avg. Cash Tax Rate %	30.0%			
Earnings Before Interest CAGR %	8.1%			
Earnings Per Share CAGR %	0.3%			
Free Cash Flow to the Firm CAGR %	11.8%			
Earnings before interest = Net operating profits less adjusted taxes	Long-term Proj	ections		
Phase II> III FCFF CAGR %	4.6% (II)	3% (III)		
Cost of Equity %	10.8%			
After-tax Cost of Debt %	3.9%			
Discount Rate (WACC) %	10.0%			
Synthetic credit spread = 1.29%	Results			
Phase I Present Value	24,435			
Phase II Present Value	46,956			
Phase III Present Value	31,726			
Total Firm Value	103,117			
Net Balance Sheet Impact	-3,944			
Total Equity Value	99,173			
Diluted Shares Outstanding	1,633.4			
Fair Value per Share	\$61.00			

DCF Valuation Summary

We think Rio Tinto is worth \$61 per share with a fair value range of \$46.00 - \$76.00. The margin of safety around our fair value estimate is driven by the firm's MEDIUM ValueRiskTM rating, which is derived from an evaluation of the historical volatility of key valuation drivers and a future assessment of them. Our near-term operating forecasts, including revenue and earnings, do not differ much from consensus estimates or management guidance. Our model reflects a compound annual revenue growth rate of 0.4% during the next five years, a pace that is higher than the firm's 3-year historical compound annual growth rate of -5.5%. Our model reflects a 5-year projected average operating margin of 30.3%, which is above Rio Tinto's trailing 3-year average. Beyond year 5, we assume free cash flow will grow at an annual rate of 4.6% for the next 15 years and 3% in perpetuity. For Rio Tinto, we use a 10% weighted average cost of capital to discount future free cash flows.

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Company Metrics versus Peer and Industry Medians

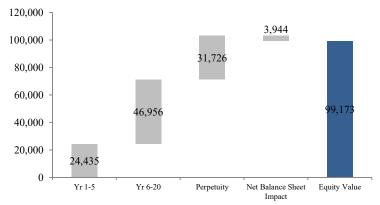
5-year Forward 3-year Hist Avg Price/Earnings-to-Stock Price / Growth (PEG), 5-EV/Est. Normal ROIC, without Fair Value Valuentum Buying Forward Price-to-P/E on Est. Normal Diluted Earnings per Dividend Yield IndexTM EBITDA Share CAGR goodwill Estimate Earnings EPS year Forward EV/EBITDA % Company Name 3 9.6 9.0 2.3 4.9 4.7 0.3% 14.2% 6.7% 98.3% Rio Tinto Air Products & Chemical 24.1 19.2 1.5 15.2 13.0 3.0% 2.3% 108.2% 6 8.0% BHP Billiton 4.0 4 6.6 7.6 1.9 4.5 8.3% 28.2% 5.2% 91.5% DuPont 3 15.2 14.9 2.0 8.7 8.6 18.3% 2.8% 2.5% 89.6% 0.9% Sherwin-Williams 6 29.5 21.5 2.1 20.7 16.3 16.0% 34.1% 93.8% Peer Median 17.0 12.0 12.2% 2.4% 92.6% 5.0 19.7 10.8 18.1% 14.2 9.8 Industry Median 4.0 15.1 2.1 9 1 9.7% 13.1% 1.8% 96.6%

View back of report for a full list of industry constituents covered by Valuentum. VBI: Valuentum's ranking for the attractiveness of this investment at the date of the report

Valuation Breakdown

In the chart below, we show the build up to our estimate of total enterprise value for Rio Tinto and the break down to the firm's total equity value, which we estimate to be about 99.17USD billion. The present value of the enterprise free cash flows generated during each phase of our model and the net balance sheet impact is displayed. We divide total equity value by diluted shares outstanding to arrive at our \$61 per share fair value estimate.

3



In Millions of USD

Enterprise Free Cash Flow									
	Fiscal Year End:	12/31/2022	12/31/2023	12/31/2024					
Earnings before Interest		11,298	10,759	8,411					
+ Depreciation		4,455	4,855	5,407					
- Capital Expenditures		6,750	7,086	9,621					
- Change in Working Capital		870	202	-415					
- Acquisitions		850	834	346					
Enterprise Free Cash Flow (FCFF	")	7,283	7,492	4,266					
In Millions of USD									

Our future forecasts for key valuation drivers result in a future free enterprise cash flow stream. Above, we show how we calculate enterprise free cash flow and the historical performance of the metric for Rio Tinto. Over the next five years, we expect the firm's enterprise free cash flow to expand at about a 12% compound annual growth rate. During years 6 through 20, we expect the measure to grow at a 4.6% rate. Beyond year 20 (in perpetuity), we grow the firm's free cash flow at inflation (3%).

VALUENTUM

Rio Tinto RIO FAIRLY VALUED

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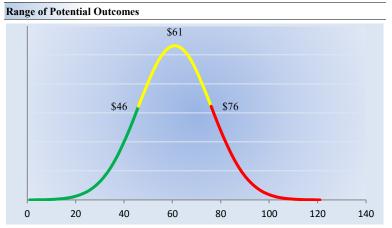
Value Rating

25.0%

Economic Castle Neutral Estimated Fair Value \$61.00 **Fair Value Range** \$46.00 - \$76.00

Investment Style LARGE-CAP VALUE Sector Materials **Industry**Mining & Chemicals

Margin of Safety Analysis



Our discounted cash flow process values each firm on the basis of the present value of all future free cash flows. Although we estimate the firm's fair value at about \$61 per share, every company has a range of probable fair values that's created by the uncertainty of key valuation drivers (like future revenue or earnings, for example). After all, if the future were known with certainty, we wouldn't see much volatility in the markets as stocks would trade precisely at their known fair values. Our ValueRiskTM rating sets the margin of safety or the fair value range we assign to each stock. In the graph above, we show this probable range of fair values for Rio Tinto. We think the firm is attractive below \$46 per share (the green line), but quite expensive above \$76 per share (the red line). The prices that fall along the yellow line, which includes our fair value estimate, represent a reasonable valuation for the firm, in our opinion.

ValueRiskTM MEDIUM

3

Rio Tinto receives a ValueRiskTM rating of MEDIUM based of the historical volatility of key drivers of economic value creation. The fair value range sets the margin of safety around our fair value estimate of the firm's shares.

Revenue Volatility 8.6%
Gross Margin Volatility 42.7%
Earnings (EBI) Volatility Greater than 50%
Cash Flow (FCFF) Volatility Greater than 50%

Fair Value Range
The Fair Value Range sets the premium or discount on our estimate of the firm's fair value.

Upside and Downside Probabilities

Probability (fair value < \$0)

Probability (fair value > 2x current share price)

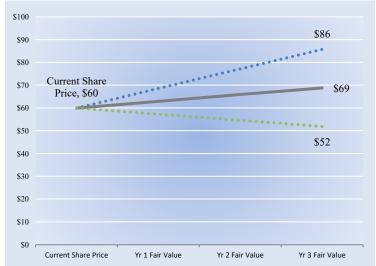
Less than 0.1%

0.00%

We strive to answer a few questions that investors often ask: 1) What are the chances of a total loss of investment in this company? and 2) What is the chance that the company is really worth twice what I paid for it? The probability (fair value < 0) strives to answer the first question. It indicates the chance that the firm may encounter insolvency based on the characteristics of its cash flow stream, capital structure, and risk profile. The probability (fair value > 2x current share price) strives to answer the second question. It is our best estimate of whether investors are participating in a half-off sale by buying the company's shares at current prices.

Future Path of Fair Value

We estimate Rio Tinto's fair value at this point in time to be about \$61 per share. As time passes, however, companies generate cash flow and pay out cash to shareholders in the form of dividends. The chart to the right compares the firm's current share price with the path of Rio Tinto's expected equity value per share over the next three years, assuming our long-term projections prove accurate. The range between the resulting downside fair value and upside fair value in Year 3 represents our best estimate of the value of the firm's shares three years hence. This range of potential outcomes is also subject to change over time, should our views on the firm's future cash flow potential change. The expected fair value of \$69 per share in Year 3 represents our existing fair value per share of \$61 increased at an annual rate of the firm's cost of equity less its dividend yield. The upside and downside ranges are derived in the same way, but from the upper and lower bounds of our fair value estimate range.



The graph above shows the expected future fair value of the firm's shares relative to its current stock price.

Rio Tinto RIO FAIRLY VALUED

Buying Index™

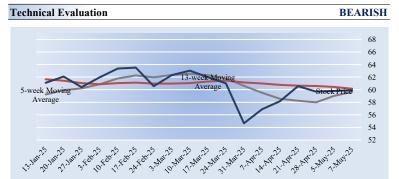
Value Rating

Economic Castle Neutral Estimated Fair Value \$61.00 Fair Value Range \$46.00 - \$76.00 Investment Style LARGE-CAP VALUE Sector Materials

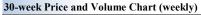
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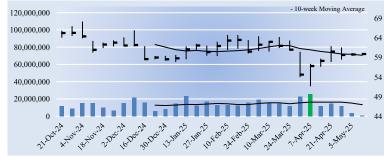
IndustryMining & Chemicals

Technical Analysis



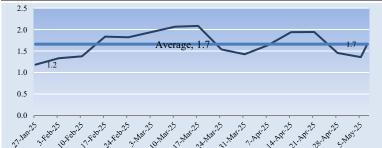
The firm's near-term moving average (5-week, grey line) and medium-term moving average (13-week, red line) are shown in the chart above. Typically, when a shorter-term moving average crosses a medium- or longer-term moving average from below, it represents a bullish signal. If the short-term moving average crosses from above, traders often view this as bearish. Rio Tinto's 5-week moving average is below its 13-week measure, indicating a BEARISH trend. This activity further confirms the company's 30-week downtrend.





In the chart above, we pinpoint the heaviest accumulation or distribution week of the firm, determined by the week with the highest trading volume during the past 30 weeks. A heavy accumulation (buying) or distribution (selling) week often determines the future near-term direction of the firm's share price, as money managers continue to move in or out of the stock in the days and weeks ahead driving the stock up or down, respectively. For Rio Tinto, the week with the highest trading volume out of the last 30 weeks was a week of heavy buying, or accumulation (green bar). Such market activity could indicate a reversal of a downtrend or further confirmation of the firm's uptrend.

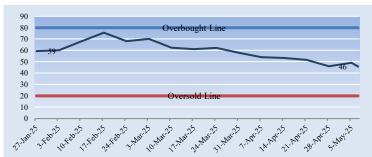
Upside/Downside Volume BULLISH



The level and trend of the Upside/Downside (U/D) volume ratio reveals whether institutional participation has been bullish or bearish as of late. Rio Tinto's U/D volume ratio of 1.7 is not only greater than 1 but also is better than its trailing average, indicating BULLISH institutional interest during the past several weeks.

Money Flow Index (MFI)





The Money Flow Index (MFI) is an oscillator that uses price and volume to measure buying and selling pressure. Chartists often look for overbought (above 80) and oversold (below 20) levels to warn of unsustainable near-term price extremes. Rio Tinto's MFI of 46 (green line) is neutral, suggesting the firm's stock is neither overbought nor oversold at this time. However, a score below 50 tends to favor bears. The MFI can also be used to gauge the strength or weakness of a firm's price trend. In Rio Tinto's case, its stock price and money flow neither reveals a bullish nor bearish divergence, further supporting our neutral view on its money flow action.

Relative Price Strength

NEUTRAL

A firm's relative price strength can be assessed over any number of time horizons. We show the firm's performance over the past 5 weeks, 13 weeks, and 30 weeks below. In arriving at our relative strength rating for each company, we assess the past 13 weeks, which includes the market's reaction to the firm's most recently reported quarter, where applicable, and other more recent economic events. During the past 13 weeks, Rio Tinto's shares returned -6.2%, while the market benchmark returned -4.1%. We think Rio Tinto's 13-week relative price performance is NEUTRAL.

5-week Company Performance	4.9%
5-week Market Benchmark Performance	-7.2%
5-week Relative Performance vs. Market Benchmark	12.1%
13-week Company Performance	-6.2%
13-week Market Benchmark Performance	-4.1%
13-week Relative Performance vs. Market Benchmark	-2.1%
30-week Company Performance	-8.3%
30-week Market Benchmark Performance	0.6%
30-week Relative Performance vs. Market Benchmark	-8.9%

Timeliness M	Iatrix™	Equity Valuation				
Relative Strength	Overvalued	Fairly Valued	Undervalued			
Strong						
Neutral						
Weak						

Firms that are undervalued and currently showing near-term pricing strength score near the top right of the matrix.

Companies that are undervalued and showing near-term relative price strength could represent timely buys, as the stock may be attractive to both value and momentum investors. A cross section of the firm's equity valuation and its relative share price strength is shown in the matrix above. We tend to prefer undervalued stocks that have strong pricing momentum, also called Valuentum stocks.



Data as of 7-May-2025 Valuentum Retail Equity Research (10=best)

Rio Tinto RIO FAIRLY VALUED

Buying Index™

3

Value Rating

Estimated Fair Value Investment Style **Economic Castle** Fair Value Range Sector Industry LARGE-CAP VALUE Neutral \$61.00 \$46.00 - \$76.00 Materials Mining & Chemicals

Pro Forma Income Statement

		Historical	Proje	Projected	
In Millions of USD (except for per share items)	Dec-22	Dec-23	Dec-24	Dec-25	Dec-26
Total Revenue	55,554	54,041	53,658	52,129	53,203
Cost of Goods Sold	34,255	36,743	37,482	34,780	35,705
Selling, General and Administrative Expenses	515	309	263	244	251
Other Operating Expenses	2,689	2,122	1,923	1,784	1,832
Operating Income	18,095	14,867	13,990	15,321	15,415
Unusual items	0	0	0	0	0
Operating Income, including unusual items	18,095	14,867	13,990	15,321	15,415
Interest Expense	(346)	(980)	(772)	(772)	(772)
Other Non-operating Income	913	(102)	2,397	24	24
Pre-tax Income	18,662	13,785	15,615	14,573	14,667
Income Taxes	5,614	3,832	4,041	4,372	4,400
Income after tax	13,048	9,953	11,574	10,201	10,267
Minority Interest and Equity Income	(656)	105	(22)	(22)	(22)
Net Income, excluding extra items	12,392	10,058	11,552	10,179	10,245
Income Available to Common, excluding extra items	12,392	10,058	11,552	10,179	10,245
Diluted Earnings per Share, excluding extra items	7.60	6.16	7.07	6.23	6.27
Diluted Weighted Shares Outstanding	1,629.6	1,631.5	1,633.4	1,633.4	1,633.4

Source: Company Filings, Xignite, Valuentum Projections

Note: Pro forma data in discounted cash-flow valuation may reflect significant adjustments from GAAP accounting data, including cash (not effective) tax rates and other analytical adjustments on a backward-looking and forward-looking basis. No individual data, by itself, found in this report should be used to make any investment decision.



Data as of 7-May-2025 Valuentum Retail Equity Research (10=best)

Rio Tinto RIO FAIRLY VALUED

WALUENTUM . Buying Index™

3

WALUENTUM . Value Rating

----- Projected -----



Estimated Fair Value Economic Castle Fair Value Range **Investment Style** Sector Industry Neutral \$61.00 \$46.00 - \$76.00 LARGE-CAP VALUE Materials Mining & Chemicals

----- Historical -----

Pro Forma Balance Sheet

In Millions of USD (except for per share items)					
	Dec-22	Dec-23	Dec-24	Dec-25	Dec-26
Assets					
Total Cash (including marketable securities)	8,907	10,751	8,865	12,871	11,626
Inventory	6,213	6,659	5,860	5,492	5,694
Accounts Receivable	3,370	3,471	3,521	3,391	3,430
Other Current Assets	483	629	874	874	874
Total Current Assets	18,973	21,510	19,120	22,627	21,624
Gross Fixed Assets	126,751	134,367	136,032	146,134	156,539
(Accumulated Depreciation)	(62,017)	(67,899)	(67,459)	(72,712)	(78,073)
Net Property, Plant, and Equipment	64,734	66,468	68,573	73,422	78,466
Goodwill, Net	826	797	727	727	727
Intangibles, Net	3,645	4,389	2,804	2,666	2,528
Other Long-term Assets	8,596	10,385	11,562	11,562	11,562
Total Assets	96,774	103,549	102,786	111,005	114,907
Liabilities					
Accounts Payable	3,367	3,275	3,212	2,981	3,145
Other Current Liabilities	7,313	8,443	8,323	8,138	8,176
Current Portion of Long-term Debt	923	1,025	208	208	208
Total Current Liabilities	11,603	12,743	11,743	11,327	11,529
Long-term Debt	10,148	12,492	12,601	17,601	17,601
Other Long-term Liabilities	24,389	23,728	23,196	23,196	23,196
Total Liabilities	46,140	48,963	47,540	52,124	52,326
Preferred Stock	0	0	0	0	0
Shareholders' Equity					
Common Stock and Additional Paid in Capital	7,859	7,908	7,593	7,593	7,593
Retained Earnings	35,020	38,350	42,539	46,174	49,874
Other Equity	7,755	8,328	5,114	5,114	5,114
Total Shareholders' Equity	50,634	54,586	55,246	58,881	62,581
Total Liabilities and Shareholders' Equity	96,774	103,549	102,786	111,005	114,907
Total Entonices and Sharenolders Equity	70,774	100,049	102,700	111,003	117,707

Source: Company Filings, Xignite, Valuentum Projections

Note: Pro forma data in discounted cash-flow valuation may reflect significant adjustments from GAAP accounting data, including cash (not effective) tax rates and other analytical adjustments on a backward-looking and forward-looking basis. No individual data, by itself, found in this report should be used to make any investment decision.



Rio Tinto RIO FAIRLY VALUED

Buying Index™

3

Value Rating

----- Projected -----



Estimated Fair Value Sector **Economic Castle** Fair Value Range **Investment Style** Industry LARGE-CAP VALUE Neutral \$61.00 \$46.00 - \$76.00 Materials Mining & Chemicals

----- Historical -----

Pro Forma Cash Flow Statement

In Millions of USD (except for per share items)					
	Dec-22	Dec-23	Dec-24	Dec-25	Dec-26
Cash from Operations					
Net Income	12,392	10,058	11,552	10,201	10,267
Depreciation and Amortization	4,614	4,979	5,545	5,391	5,499
Deferred Income Taxes	0	0	0	0	0
Operating Gains Or Losses	(872)	123	(1,498)	0	0
Changes in Working Capital	0	0	0	82	(39)
Cash Flow from Operations	16,134	15,160	15,599	15,674	15,726
Cash from Investing					
Purchase of Property, Plant, Equipment	(6,750)	(7,086)	(9,621)	(10,102)	(10,405)
Other Investing Cash Flows	(1,818)	(1,588)	27	0	0
Cash Flow from Investing	(8,568)	(8,674)	(9,594)	(10,102)	(10,405)
Cash from Financing					
Issuance (Retirement) of Stock	0	0	0	0	0
Issuance (Retirement) of Debt	(843)	1,097	(1,054)	0	0
Dividends Paid	(10,743)	(6,470)	(7,025)	(6,566)	(6,566)
Other Financing Cash Flows	(2,903)	96	985	0	0
Cash Flow from Financing	(14,489)	(5,277)	(7,094)	(6,566)	(6,566)
Foreign Exchange	15	(23)	(99)	0	0
Net Change in Cash	(5,047)	2,898	(1,188)	(994)	(1,245)

Source: Company Filings, Xignite, Valuentum Projections

Note: Pro forma data in discounted cash-flow valuation may reflect significant adjustments from GAAP accounting data, including cash (not effective) tax rates and other analytical adjustments on a backward-looking and forward-looking basis. No individual data, by itself, found in this report should be used to make any investment decision.



Rio Tinto RIO FAIRLY VALUED

Buying Index™

Value Rating



Economic Castle Neutral Estimated Fair Value \$61.00 **Fair Value Range** \$46.00 - \$76.00

Investment Style LARGE-CAP VALUE Sector Materials

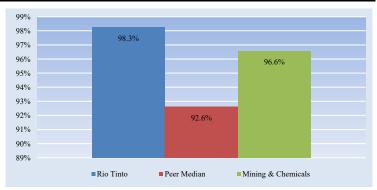
3

IndustryMining & Chemicals

Mining & Chemicals

Mining & Chemicals FAIRLY VALUED

We think the Mining & Chemicals industry is fairly valued at this time. The industry's market cap is trading between 80% and 120% of our estimate of its fair value based on our DCF process. Although we use a firm-specific ValueRisk™ measure to determine whether a firm is undervalued or overvalued based on our DCF process, we consider an industry to be undervalued if it is trading below 80% of our estimate of its fair value and overvalued if it is trading at over 120% of our estimate of its fair value. We think these fair value ranges are appropriate given the diversification benefits of holding a basket of stocks. Although there may be individual opportunities within the Mining & Chemicals industry, we don't find the industry as a whole attractive based solely on valuation.



The above bar chart reveals the price/fair value of the company, its peers, and the industry as a whole.

Shaded blue denotes that the firm has earned the highest rating for that respective category.

Market Cap (USD-

Company Name	Ticker	mil)	Investment Style	DCF Valuation	Relative Valuation	ValueCreation TM	ValueRisk™	ValueTrend™	Technicals	Relative Strength
Air Products & Chemicals	APD	68,933	LARGE-CAP CORE	FAIRLY VALUED	NEUTRAL	POOR	MEDIUM	NEGATIVE	BULLISH	WEAK
Albemarle	ALB	9,222	MID-CAP VALUE	FAIRLY VALUED	NEUTRAL	POOR	MEDIUM	POSITIVE	BEARISH	WEAK
Alcoa	AA	6,844	MID-CAP VALUE	FAIRLY VALUED	NEUTRAL	POOR	HIGH	NEGATIVE	BEARISH	WEAK
BHP Billiton	BHP	60,391	LARGE-CAP VALUE	FAIRLY VALUED	ATTRACTIVE	EXCELLENT	MEDIUM	POSITIVE	BEARISH	NEUTRAL
Carlisle Companies	CSL	17,942	LARGE-CAP CORE	FAIRLY VALUED	ATTRACTIVE	EXCELLENT	MEDIUM	NEGATIVE	BULLISH	STRONG
Chart Industries	GTLS	7,233	MID-CAP BLEND	FAIRLY VALUED	NEUTRAL	GOOD	MEDIUM	POSITIVE	BEARISH	WEAK
DuPont	DD	27,370	LARGE-CAP VALUE	FAIRLY VALUED	NEUTRAL	POOR	LOW	POSITIVE	BEARISH	WEAK
Eastman Chemical	EMN	8,830	MID-CAP VALUE	FAIRLY VALUED	NEUTRAL	GOOD	LOW	POSITIVE	BEARISH	WEAK
Ecolab	ECL	76,958	LARGE-CAP CORE	FAIRLY VALUED	UNATTRACTIVE	EXCELLENT	MEDIUM	POSITIVE	BULLISH	STRONG
Freeport McMoRan	FCX	52,306	LARGE-CAP VALUE	FAIRLY VALUED	NEUTRAL	GOOD	HIGH	POSITIVE	BEARISH	NEUTRAL
Graco	GGG	14,535	LARGE-CAP VALUE	FAIRLY VALUED	UNATTRACTIVE	EXCELLENT	MEDIUM	POSITIVE	VERY BEARISH	WEAK
LyondellBasell	LYB	18,945	LARGE-CAP VALUE	FAIRLY VALUED	ATTRACTIVE	EXCELLENT	LOW	NEGATIVE	BEARISH	WEAK
Martin Marietta	MLM	29,352	LARGE-CAP VALUE	FAIRLY VALUED	UNATTRACTIVE	POOR	MEDIUM	NEGATIVE	NEUTRAL	WEAK
Newmont Corp	NEM	50,176	LARGE-CAP VALUE	FAIRLY VALUED	NEUTRAL	GOOD	HIGH	POSITIVE	BULLISH	STRONG
Nucor	NUE	27,272	LARGE-CAP VALUE	FAIRLY VALUED	ATTRACTIVE	EXCELLENT	HIGH	NEGATIVE	BEARISH	WEAK
PPG Industries	PPG	26,991	LARGE-CAP VALUE	FAIRLY VALUED	ATTRACTIVE	EXCELLENT	LOW	POSITIVE	BEARISH	WEAK
Rio Tinto	RIO	97,898	LARGE-CAP VALUE	FAIRLY VALUED	NEUTRAL	GOOD	MEDIUM	NEGATIVE	BEARISH	NEUTRAL
Sherwin-Williams	SHW	89,150	LARGE-CAP VALUE	FAIRLY VALUED	UNATTRACTIVE	EXCELLENT	MEDIUM	POSITIVE	VERY BULLISH	NEUTRAL
Vale	VALE	41,437	LARGE-CAP VALUE	FAIRLY VALUED	NEUTRAL	EXCELLENT	HIGH	NEGATIVE	BULLISH	WEAK
Valmont	VMI	3,517	MID-CAP VALUE	FAIRLY VALUED	NEUTRAL	EXCELLENT	MEDIUM	POSITIVE	BULLISH	NEUTRAL
Vulcan Materials	VMC	29,402	LARGE-CAP VALUE	FAIRLY VALUED	UNATTRACTIVE	GOOD	MEDIUM	NEGATIVE	NEUTRAL	WEAK
Wheaton Precious Metals	WPM	30,368	LARGE-CAP BLEND	FAIRLY VALUED	UNATTRACTIVE	POOR	MEDIUM	POSITIVE	BULLISH	STRONG
				İ			1	1	1	

Valuentum's Full Page Stock Report

Forward Dividend Payout Ratio

P/E on Est. Normal Diluted EPS

Forward Revenue Growth (5-yr)

Forward EPS Growth (5-yr)
NMF = Not Meaningful: Est. = Estimated: FY = Fiscal Year

Leverage, Coverage, and Liquidity

Est. Normal Diluted EPS

Est. Normal EBITDA

Forward EV/EBITDA

Returns Summary

Return on Equity

Return on Assets

Total Debt

Net Debt

ROIC, with goodwill

Total Debt/EBITDA

Net Debt/EBITDA EBITDA/Interest

Current Ratio Quick Ratio

ROIC, without goodwill ROIC = Return on Invested Capital; N

EV/Est. Normal EBITDA

DCF Valuation

Shows whether the firm is undervalued, fairly valued, or overvalued based on our DCF process and by how much.

Valuentum Buying Index (VBI)

Provides insight into the timeliness of an investment opportunity. We rank firms from 1 to 10 based on rigorous fiancial, valuation, and technical analysis. A 10 represents one of our top picks.



Valuentum Value Rating (VVR)

Indicates whether we think a firm is undervalued, fairly valued, or overvalued on the basis of our DCF process.



Investment Considerations

Evaluates firms on 12 different measures, from the firm's growth and cash flow generation to the stock's money flow index and upside/downside volume. We reveal technical support and resistance levels.

30-week Price and Volume Action

Displays the last accumulation or distribution week of the stock and historical price and volume action.



Relative Valuation UNATTRACTIVE Stock Chart (weekly) ValueCreationTM EXCELLENT ValueRiskTM LOW 1.800.000.000 ValueTrendTM POSITIVE 116.00 Cash Flow Generation STRONG 111 1,200,000,000 MODEST Technical Evaluation BULLISH 800,000,000 Relative Strength STRONG Money Flow Index (MFI) NEUTRAL Upside/Downside Volume (U/D) BULLISH Near-term Technical Support, 10-week MA 112.00 ed Cash Flow: MFI. U/D = Please see gl **Business Quality** Very Poor

Company Vitals Shows sector. industry and other relevant company information.

Normalized EPS

Estimation of the

firm's normalized

earnings measures

valuation mutliples.

and EBITDA

corresponding

and the



7.3%

9.55

12.2

36.8%

19.3%

Phone gained momentum in fiscal 2016, as the second quarter of the fiscal year marked the first quarterly sales decline in 13 years. High levels of demand for the iPhone 7 and multiple safety issues at rival Samsung have eased concerns for the time being. · Apple's rollout of future iterations of the iPhone should propel its fundamentals higher. Though we're not embedding another blockbuster hit in our model, we wouldn't be surprised if Apple delivers another one from its pipeline. Perhaps only a dream five years ago, the popularity of the new Apple Watch is now worth atching, though it has yet to catch fire in the eyes of

· Investors should pay close attention to the firm's gross margin, which is expected to fall to 37.5%-38% in fiscal 2016 from 40% in fiscal 2015. Pricing and cost pressures may be unavoidable. A slight step back fiscal 2016 should not be a major concern to vestors given Apple's massive cash position and

impressive track record · Apple's cash hoard is more than some of the market 64,462 capitalizations of the largest companies in the S&P Free Cash Flow (CFO-capex) 500. The company retains tremendous flexibility in Free Cash Flow Margin % -141.204 this regard, and we continue to expect dividend increases and share buybacks. 0.8

75.9% Hewlett-Packard 9.0 NMF 11.7 97.6% IBM 2.6 10.4 Apple Price / FV = C 79.3% Financial Su 182,795 233,715 215,485 Revenue, YoY% 7.0% 27.9% -7.8% 52,503 71.230 63,313 Operating Income Operating Margin % 30.5% 29.4% Net Income Net Income Margin % 21.6% 22.8% 22.4% Diluted EPS 6.45 9.22 8.34 Diluted EPS, VoV % 13.6% 42.8% -9.5% 49,900 69,778 47,138 27.3% 29.9% 21.9%

-53.0

49.4

NMF

0.9

89.2% 77.3%

Structure of the Computer Hardware Industry The computer hardware space, which spans the personal computer to the iPhone and iPad, is highly competitive. The indust is characterized by frequent product introductions and rapid technological advances that can cause dramatic market share shifts. Though some firms benefit from a strong brand, participants often price aggressively, pressuring margins. Firms are also subject to potential component shortages/disruptions, which can punish perfor

High

Very High

Relative Valuation BlackBerry

VALUENTUM

Returns Summary

3-year averages of the firm's key return measures, including return on invested capital, with and without goodwill.



Leverage, Coverage, and Liquidity

some, and services revenue has become critical for others. We're neutral on the space

Page 1

A snapshot of the company's financial health.



Business Quality

Summary of the firm's ability to create value for shareholders compared wth the underlying risk of its operations.



Investment Highlights

Our opinion of the company, including analysis of its financial and technical strengths and weaknesses.



Relative Valuation

Comparison of the firm's PE, PEG, and Price/FV ratios versus peers.



Financial Summary A summary of the

proforma financial statements found in the extended report.

About Valuentum

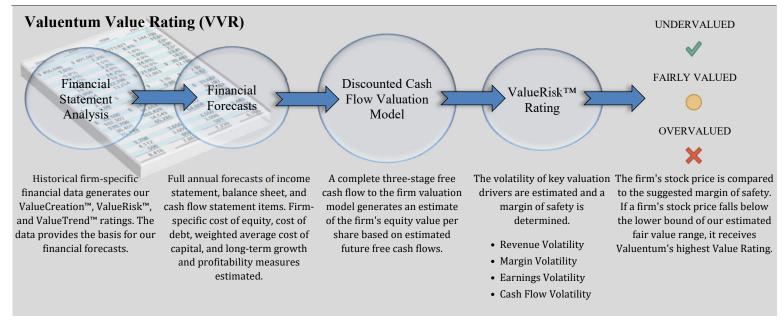
@Valuentum, we strive to stand out from the crowd. Most investment research publishers fall into a few camps, whether it be value, growth, income, momentum, chartist or some variant of the aforementioned. We think each in its own right holds merit, but we think the combination of these approaches can be even more powerful. After all, stock price movements aren't just driven by investors of the value or growth variety, but by all market participants. Therefore, we look at stocks from a variety of investment perspectives in order to better understand and identify ideas. We want to provide relevant information.

The core of our process is grounded in rigorous discounted cash flow analysis and incorporates the concept of a margin of safety. We offer a fair value estimate for each company and provide a relative valuation assessment in the context of a company's industry and closest peers. A cross section of our ValueCreationTM and ValueRiskTM ratings provides a financial assessment of a company's business quality, while our ValueTrendTM rating offers insight into the trajectory of a firm's economic profit creation. The Economic Castle rating measures the magnitude of future economic value generation, and the Dividend Cushion ratio assesses the financial capacity of a company to keep raising its dividend.

Our analysis doesn't stop there. We also offer a technical evaluation of the stock as well as other momentum indicators. We not only want to reveal to readers which firms may be undervalued, in our view, but we also want to provide readers with information to help them assess entry and exit points. Most research publishers focus on arriving at a target price or fair value estimate, but may fall short of providing a technical assessment to bolster buy and sell disciplines. We strive to go the distance and provide readers with answers--not half the story.

An explanation of our approach would not be complete if we didn't describe our ideal stock idea. We're looking for companies that are undervalued--both on a DCF basis and versus peers--have strong growth potential, have a solid track record of creating economic profits for shareholders with reasonable risk, are strong cash flow generators, have manageable financial leverage, and are currently showing bullish technical and momentum indicators. For dividend growth ideas, we look for companies that have both the capacity and willingness to keep raising the dividend.

Can such stock ideas exist? Subscribe to Valuentum to receive our best investment ideas and analysis on hundreds of stocks, dividends, ETFs and more.



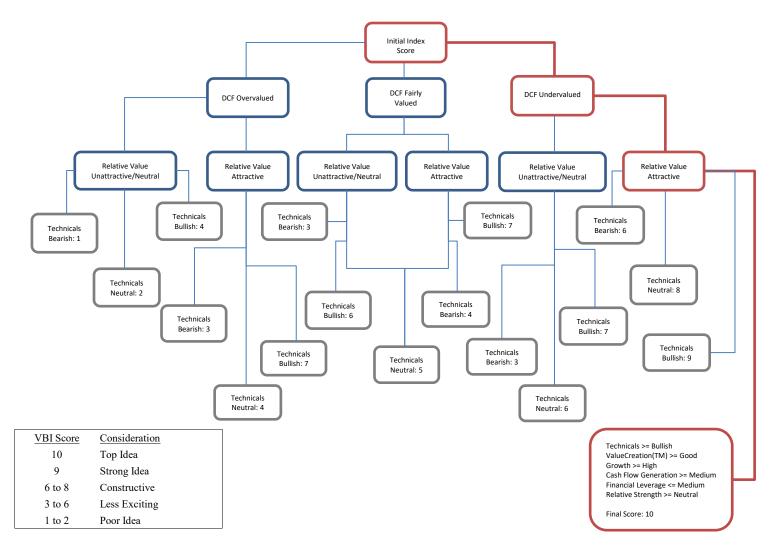
Methodology for Picking Stocks - Valuentum Buying IndexTM (VBI)

@Valuentum, we like to look at companies from a number of different perspectives. The Valuentum Buying Index (VBI) combines rigorous financial and valuation analysis with an evaluation of a stock's technicals to derive a rating between 1 and 10 for each company. The VBI places considerable emphasis on a company's discounted cashflow (DCF) valuation, its relative valuation versus peers (both forward PE and PEG ratios), and its technicals in order to help readers assess entry and exit points on the most interesting ideas.

Let's follow the red line on the flow chart below to see how a company can score a 10, the best mark on the index. First, the company would need to be 'undervalued' on a DCF basis and 'attractive' on a relative value basis. The stock would also have to be exhibiting 'bullish' technicals. The firm would need a ValueCreationTM rating of 'good' or 'excellent', exhibit 'high' or 'aggressive' growth prospects, and generate at least a 'medium' or 'neutral' assessment for cash flow generation, financial leverage, and relative price strength.

This is a tall order for any company. Stocks that don't make the cut for a 10 are ranked accordingly, with the least attractive stocks, in our opinion, garnering a rating of 1. Most of our coverage universe registers ratings between 3 and 7, but at any given time there could be large number of companies garnering either very high or very low scores, especially at market lows or tops, respectively.

The Best Ideas Newsletter portfolio puts the VBI into practice.



Glossary

Estimated Fair Value. This measure is our opinion of the fair equity value per share of the company. If our forecasts prove accurate, which may not always be the case, we may expect a firm's stock price to converge to this value within the next 3 years.

Fair Value Range. The fair value range represents an upper bound and lower bound, between which we would consider the firm to be fairly valued. The range considers our estimate of the firm's fair value and the margin of safety suggested by the volatility of key valuation drivers, including revenue, gross margin, earnings before interest, and enterprise free cash flow (the determinants behind our ValueRiskTM rating).

DCF Valuation. We opine on the firm's valuation based on our DCF process. Firms that are trading with an appropriate discount to our fair value estimate receive an UNDERVALUED rating. Firms that are trading within our fair value range receive a FAIRLY VALUED rating, while firms that are trading above the upper bound of our fair value range receive an OVERVALUED rating.

Relative Value. We compare the firm's forward price-to earnings (PE) ratio and its price/earnings-to-growth (PEG) ratio to that of its peers. If both measures fall below the peer median, the firm receives an ATTRACTIVE rating. If both are above the peer median, the firm receives an UNATTRACTIVE rating. Any other combination results in a NEUTRAL rating.

ValueCreation™. This is a proprietary Valuentum measure. ValueCreation™ indicates the firm's historical track record in creating economic value for shareholders, taking the average difference between ROIC (without goodwill) and the firm's estimated WACC during the past three years. The firm's performance is measured along the scale of EXCELLENT, GOOD, POOR, and VERY POOR. Those firms with EXCELLENT ratings have a demonstrated track record of creating economic value, while those that register a VERY POOR mark have been destroying economic value.

ValueRisk™. This is a proprietary Valuentum measure. ValueRisk™ indicates the historical volatility of key valuation drivers, including revenue, gross margin, earnings before interest, and enterprise free cash flow. The standard deviation of each measure is calculated and scaled against last year's measure to arrive at a percentage deviation for each item. These percentage deviations are weighted equally to arrive at the corresponding fair value range for each stock, measured in percentage terms. The firm's performance is measured along the scale of LOW, MEDIUM, HIGH, and VERY HIGH. The ValueRisk™ rating for each firm also determines the fundamental beta of each firm along the following scale: LOW (0.85), MEDIUM (1), HIGH (1.15), VERY HIGH (1.3).

ValueTrend™. This is a proprietary Valuentum measure. ValueTrend™ indicates the trajectory of the firm's return on invested capital (ROIC). Firms that earned an ROIC last year that was greater than the 3-year average of the measure earn a POSITIVE rating. Firms that earned an ROIC last year that was less than the 3-year average of the measure earn a NEGATIVE rating.

Cash Flow Generation. Firms' cash flow generation capacity are measured along the scale of STRONG, MEDIUM, and WEAK. A firm with a 3-year historical free cash flow margin (free cash flow divided by sales) greater than 5% receives a STRONG rating, while firms earning less than 1% of sales as free cash flow receive a WEAK rating.

Financial Leverage. Based on the firm's normalized debt-to-EBITDA metric, we rank firms on the following scale: LOW, MEDIUM, and HIGH. Companies with a normalized debt-to-EBITDA ratio below 1.5 receive a LOW score, while those with a measure above 3 receive a HIGH score.

Upside/Downside Volume. Heavy volume on up days and lower volume on down days suggests that institutions are heavily participating in a stock's upward advance. We use the trailing 14-week average of upside and downside volume to calculate an informative ratio. We rank each firm's U/D volume ratio along the following scale: BULLISH, IMPROVING, DETERIORATING, and BEARISH.

Investment Style. Valuentum uses its own proprietary stock-classification system. Nano-cap: Less than \$50 million; Micro-cap: Between \$50 million and \$200 million; Small-cap: Between \$200 million and \$2 billion; Mid-cap: Between \$2 billion and \$10 billion; Large-cap: Between \$10 billion and \$200 billion; Mega-cap: Over \$200 billion. Blend: Firm's that we think are undervalued and exhibit high growth prospects (growth in excess of three times the rate of assumed inflation). Value: Firm's that we believe are undervalued, but do not exhibit high growth prospects. Growth: Firms that are not undervalued, in our opinion, but exhibit high growth prospects. Core: Firms that are neither undervalued nor exhibit high growth prospects.

Company Vitals. In this section, we list key financial information and the sector and industry that Valuentum assigns to the stock. The P/E-Growth (5-yr), or PEG ratio, divides the current share price by last year's earnings (EPS) and then divides that quotient by our estimate of the firm's 5-year EPS growth rate. The estimated normalized diluted EPS and estimated normalized EBITDA represent the five-year forward average of these measures used in our discounted cash flow model. The P/E on estimated normalized EPS divides the current share price by estimated normalized diluted EPS. The EV/estimated normalized EBITDA considers the current enterprise value of the company and divides it by estimated normalized EBITDA. EV is defined as the firm's market capitalization plus total debt, minority interest, preferred stock less cash and cash equivalents.

Business Quality Matrix. We compare the firm's ValueCreation™ and ValueRisk™ ratings. The box is an easy way for investors to quickly assess the business quality of a company. Firms that generate economic profits with little operating variability score near the top right of the matrix.

Timeliness Matrix. We compare the company's recent stock performance relative to the market benchmark with our assessment of its valuation. Firms that are experiencing near-term stock price outperformance and are undervalued by our estimate may represent timely buys.

Range of Potential Outcomes. The firm's margin of safety is shown in the graphic of a normal distribution. We consider a firm to be undervalued if its stock price falls along the green line and overvalued if the stock price falls along the red line. We consider the firm to be fairly valued if its stock price falls along the yellow line.

Return on Invested Capital. At Valuentum, we place considerable emphasis on return on invested capital (both with and without goodwill). The measure focuses on the return (earnings) the company is generating on its operating assets and is superior to return on equity and return on assets, which can be skewed by a firm's leverage or excess cash balance, respectively.

Technical Evaluation. We evaluate a firm's near-term and medium-term moving averages and money flow index (MFI) to assign each firm a rating along the following scale: VERY BULLISH, BULLISH, NEUTRAL, BEARISH, and VERY BEARISH.

Stock Price Relative Strength. We assess the perfomance of the company's stock during the past quarter, 13 weeks, relative to an ETF that mirrors the aggregate performance of constituents of the stock market. Firms are measured along the scale of STRONG, NEUTRAL, and WEAK. Companies that have outperformed the market index by more than 2.5% during this 13-week period receive a STRONG rating, while firms that trailed the market index by more than 2.5% during this 13-week period receive a WEAK rating.

Money Flow Index (MFI). The MFI is a technical indicator that measures buying and selling pressure based on both price and volume. Traders typically use this measure to identify potential reversals with overbought and oversold levels. We use a 14-week measure to rank firms along the following scale: EXTREMELY OVERBOUGHT (>90), OVERBOUGHT (80-90), NEUTRAL (20-80), OVERSOLD (10-20), EXTREMELY OVERSOLD (0-10).



Disclosures, Disclaimers & Additional Sources

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RIO Rating History	Price	Fair Value	VBI
7-May-25	\$59.94	\$61.00	3
31-Jan-25	\$60.41	\$64.00	3
13-Nov-24	\$60.53	\$63.00	3
29-Aug-24	\$63.39	\$65.00	3
6-Jun-24	\$68.99	\$64.00	5
18-Mar-24	\$62.38	\$67.00	3
4-Dec-23	\$69.19	\$68.00	6
1-Nov-23	\$65.10	\$66.00	6
20-Jun-23	\$65.93	\$66.00	6
20-Feb-23	\$68.90	\$66.00	3
19-Dec-22	\$68.98	\$68.00	6
1-Jul-22	\$59.03	\$76.00	3
30-Jul-21	\$86.31	\$82.00	6
18-Nov-20	\$63.08	\$62.00	6

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