Performing Business Valuations

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12 AUGUST 2021



Presenter

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- Explore ProTech Entrepreneurial Haven (Co-Founder)
- Top 35 under 35 Chartered Accountant (SAICA)
- Top 50 women in accounting
- Follow me on Youtube
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COURSE OUTLINE



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Learning Outcomes

By the end of this webinar you should:

- Understand business valuation and its drivers.
- Know how to assess the required ROI.
- Understand how to construct an argument.
- Understand the different business valuation methods.
- Be aware of online tools that may be used in the business valuation process.

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Constructing the Argument

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Quote Almost every business in South Africa is faced with an uncertain future. To maximise the chances of survival, every company and board will need to conduct an honest assessment of the business and market environment, understand the available support, engage with its stakeholders and implement the changes that are required to maximise the chances of its survival. This process will need to be redone many times over the coming years and many companies will no doubt need to downsize or change their business model to survive. Those that act quickly and decisively are going to be best placed to not only survive, but thrive in the aftermath of the COVID-19 pandemic.

- John Evans CA(SA) via Accountancy SA







MODULE 1

WHAT IS VALUE?

WHAT IS VALUE? **ART(INTUITIVE) VS SCIENCE (CALCULATION)**

 Calculations create understanding Negotiation range Platform for discussion: Assumptions & effect on value. Adapted for circumstances

Intuitive

Value a function of supply & demand

Negotiation to achieve best outcome based on leverage & skill

Negotiation range? How is value justified to other party? Regulatory valuation

CREDIBLE OUTCOME

Calculated

Value calculated - Facts -Statistics Assumptions

Subjectivity of valuer? Assumptions sound? Sensitive to mistakes Anchored in the real world?

WHAT IS VALUE? **ENTERPRISE VALUE VS EQUITY VALUE**

ENTERPRISE

+Working Capital + Fixed Assets +Intangibles

ENTERPRISE VALUE

+Non operating assets -Debt

EQUITY VALUE ON A NON-MARKETABLE BASIS

+ Control premium* / - Minority discount** Marketability discount***

EQUITY VALUE ON A MARKETABLE BASIS

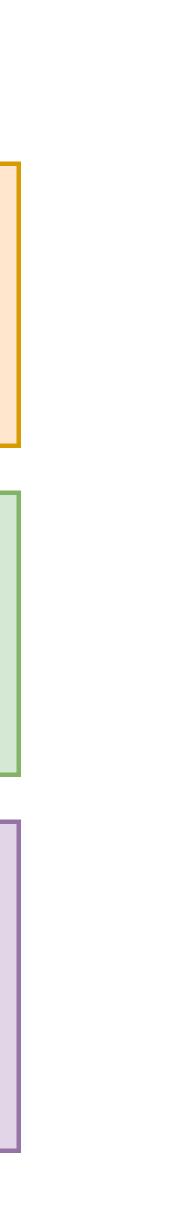
- *Control premium
- Majority stake
- Expected synergies
- Larger stake = Larger premium

**Minority discount

- Minority stake
- Lack of influence = increased risk
- Smaller stake = Larger discount

**Marketability discount

- Lack of trading liquidity
- Listed v non-listed
- Contractual restrictions

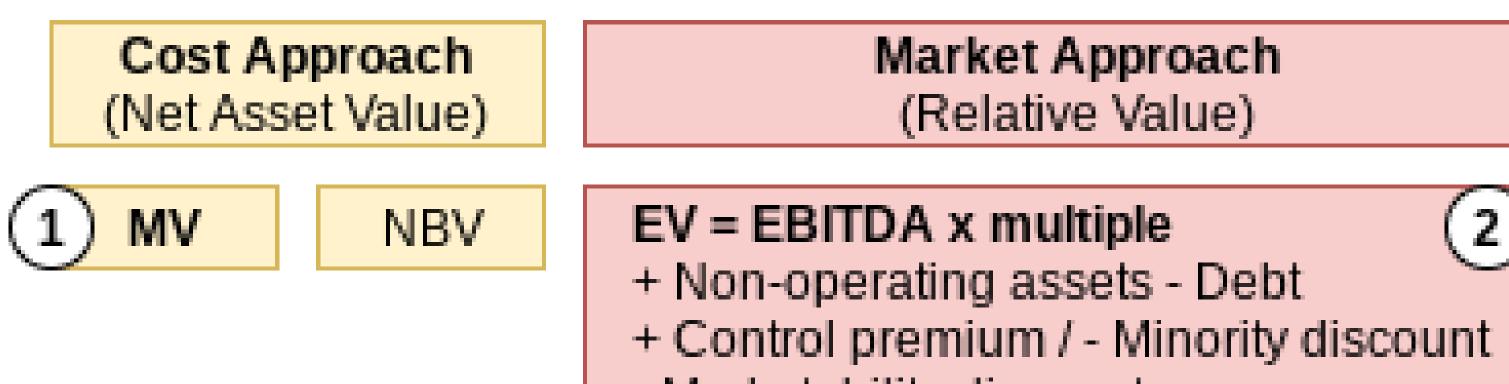


VALUATION APPROACHES

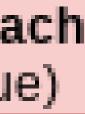


MODULE 2

4 Most commonly used Valuation Models



Marketability discount



Income Approach (Intrinsic Value)

EV = NPV of free cash flows

- + Non-operating assets Debt
- + Control premium / Minority discount
- Marketability discount

NPV of dividends





CHOOSING VALUATION METHODS FACTORS TO CONSIDER

TYPE?

Holdco? Property? Investments? Trading company? Recent Market Transactions?

Going Concern?

Minority or Majority

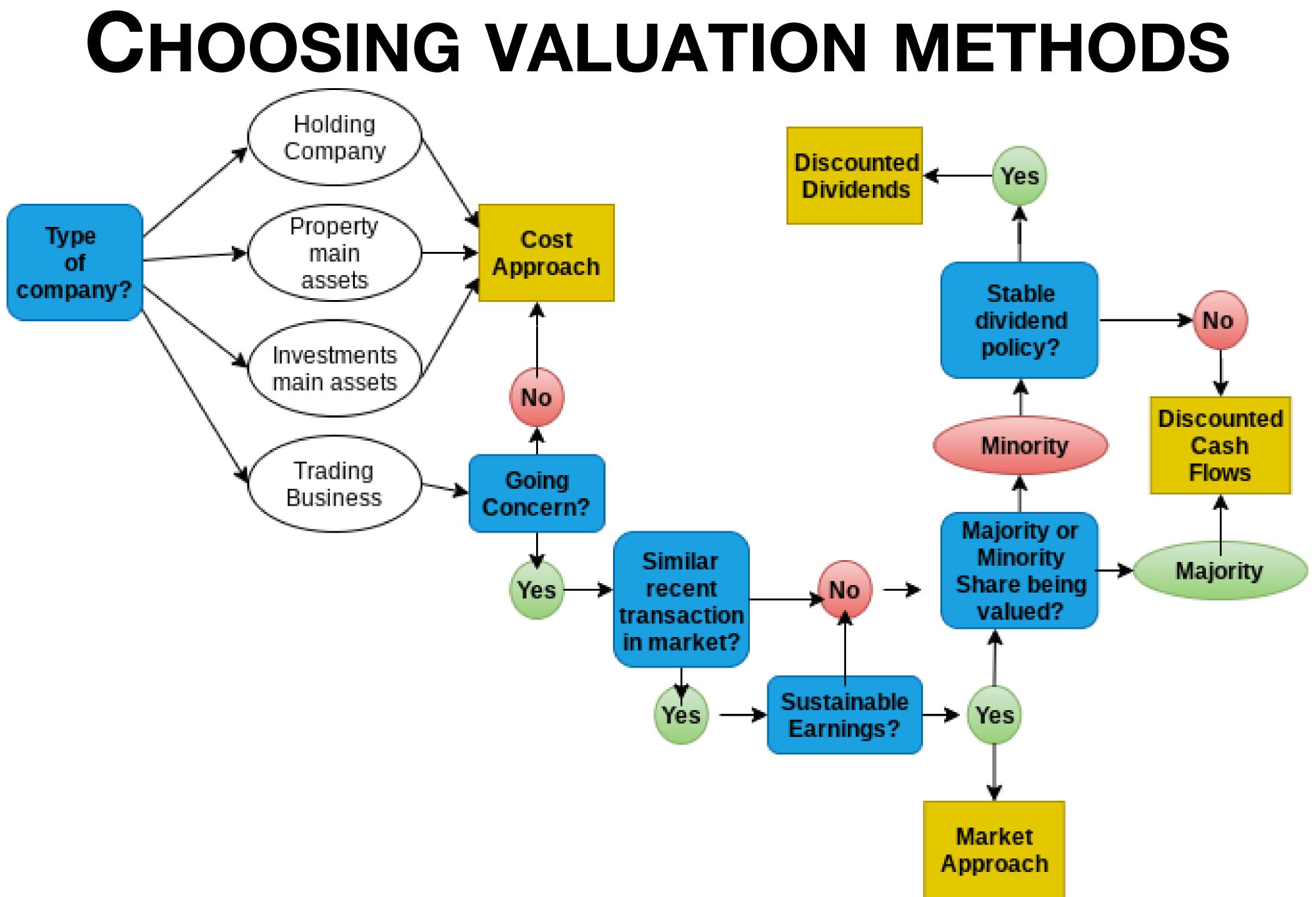
OTHER FACTORS

Past Circumstances

Sustainable Earnings?

Stable Dividend Policy?





LET'S LOOK AT THE DIFFERENT VALUATION METHODS

1.Cost Approach2.Market Approach3.Discounted Cashflows4.Discounted Dividends



MODULE 3

Enterprise Value = Normalised EBITDA x adjusted EV/EVITDA Multiple

- Step 1 Normalise EBITDA
- Step 2 Determine Multiple
- Step 3 Calculate Enterprise Value
- Step 4 Calculate Equity Value



Enterprise Value = Normalised EBITDA x adjusted EV/EVITDA Multiple

Normalised EBITDA		R'000
EBITDA		9,004.00
- Margin on once-off project	-263	
- Insurance claim received	-65	
+Forex losses added back	1022	
+Non-operating expenses	308	
Adjustments	1002	1002
Normalised EBITDA		10,006.00



Enterprise Value = Normalised EBITDA x adjusted EV/EVITDA Multiple

EV/ EBITDA MULTIPL

- Competitor A
- Competitor B
- Competitor C
- Peer A
- Average
- +Different growth profile
- Systemic risk adjustme
- Small stock risk adjust
- Specific risk adjustmen

Adjusted EV/ EBITDA Multiple

ES	
	5.50
	10.20
	9.30
	6.20
	7.80
9	0.50
ent	-0.50
tment	-1.50
nt	-0.50

5.80



R'000

10,006

58,035

-11,480

56,567

5,657

-3,847

58,377

40,864

70%

5

5.80

2

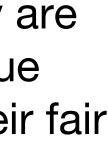
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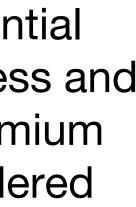
Valuation on an open mark	et principle		
Normalised EBITDA			
x Risk Adjusted EV/ EBITDA	Multiple		
Enterprise value			
Property		6,000	1
Investments		1,000	
Loans receivable		4,000	
Cash & equivalents		1,500	
Long term liabilities		-17,300	
Tax asset/ (liability)		-6,680	
Non-operating assets and I	iabilities	-11,480	
Value of enterprise on a no	n-marketable	e minority basis	
Add: Control premium (10%)			2
Less: Discount for lack of ma	arketability (6.	8%)	
Value of enterprise on a ma	arketable maj	ority basis	
Shareholding Valued			
70% of Value of enterprise	on a marketa	ble majority bas	

Certain balances are not included in the Enterprise Value of the business, as they are not necessary for the business to continue trading. These balances are stated at their fair values at the valuation date, after any adjustments.

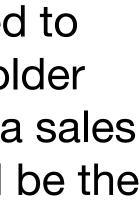
A majority shareholding implies a substantial influence on the operations of the business and material business decisions. Control premium of 10% on a 70% shareholding is considered by market participants as appropriate to recognise this influence.

The business is not a listed entity. There is thus a substantial difference in the liquidity (tradeability) of its shares when compared to the shares of a listed entity, as a shareholder cannot readily sell his shares by placing a sales instruction with a stockbroker (which will be the case when listed shares are owned). A marketability discount factor of 6.8% on 70% shareholding is considred by market participants as appropriate to compensate for













DISCOUNTED FREE CASH FLOWS METHOD



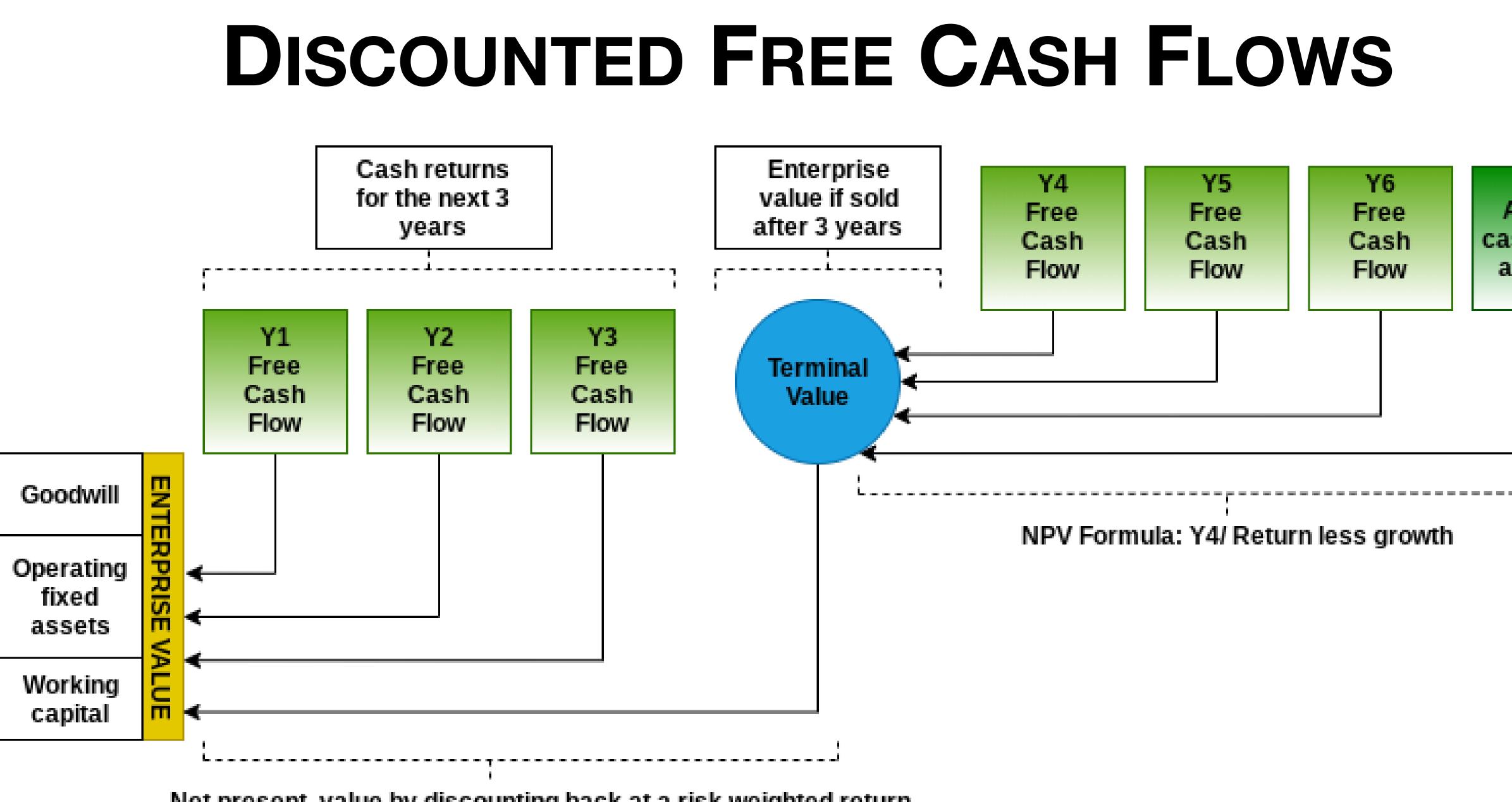
MODULE 4



DISCOUNTED FREE CASH FLOWS

Enterprise Value = Forecasted Free Cashflows x Discount Rate

- Step 1 Forecast Free Cashflows
- Step 2 Determine Discount Rate
- Step 3 Calculate Enterprise Value
- Step 4 Calculate Equity Value



Net present value by discounting back at a risk weighted return



WHAT IS FREE CASH FLOW?

- Free cash flow (FCF) represents the cash a company generates after accounting for cash outflows to support operations and maintain its <u>capital assets</u>. Free cash flow is a measure of profitability that excludes the non-cash expenses of the income statement and

 - Cost of financing
 - includes spending on equipment and assets as well as changes in working <u>capital</u> from the <u>balance sheet</u>.

Represents the cash available for the company to repay creditors or pay dividends and interest to investors



CALCULATING F

EBITDA

Less: Wear and Tear

Taxable EBITDA

Taxation

Normalised operating pro

Add back: Wear and Tear

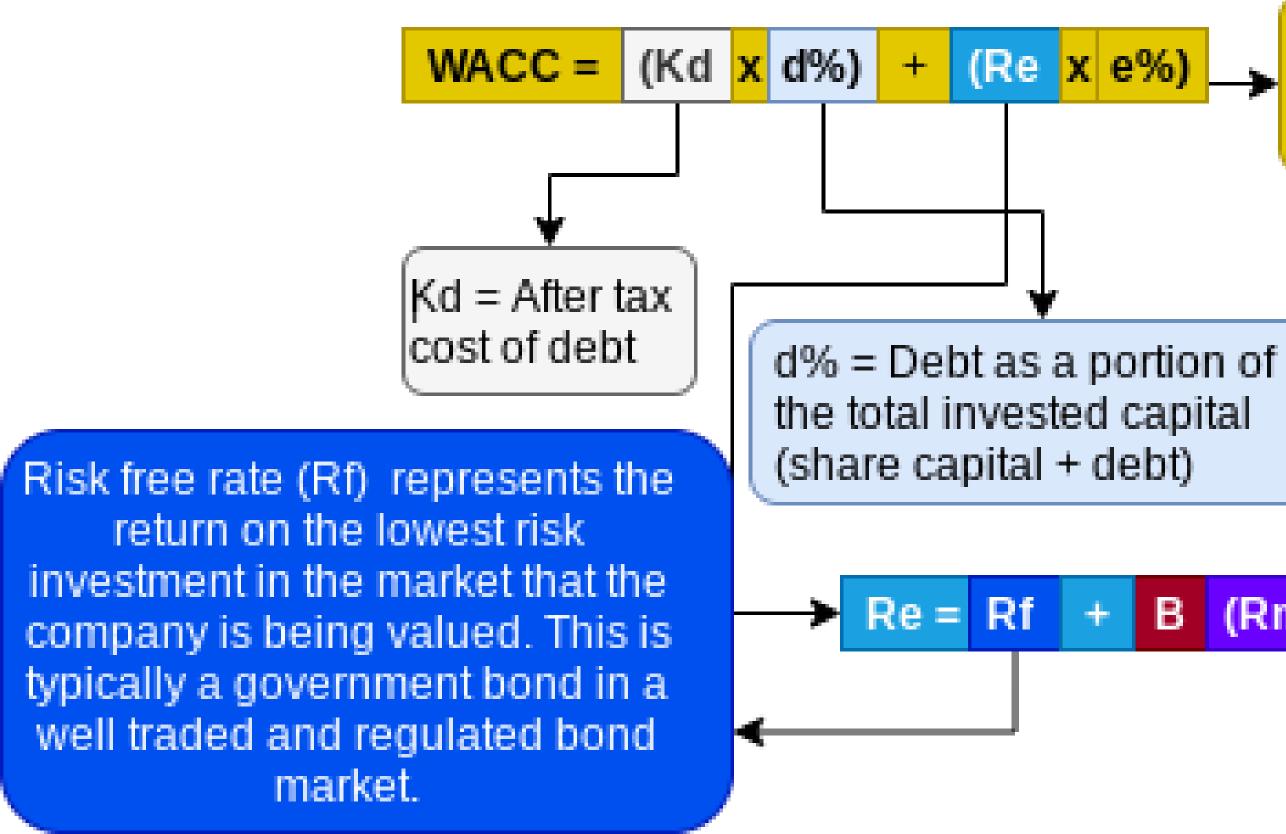
EBIDA

Change in working capital

Capital expenditure

Free Cash Flows

FREE CAS	SH FLOWS
	13,950
	-390
	13,560
	-3,797
ofit after tax	9,763
	390
	10,153
	-1,234
	- <mark>543</mark>
	8,376



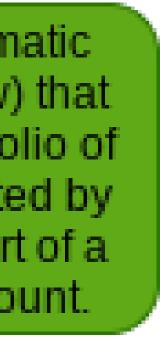
Beta (B) represents the risk of the business being valued relative to the risk of a market portfolio. A security with a beta of 1 would be expected to have a share price movement that is perfectly correlated with the overall movement in the market. A beta that is greater than 1 would be more sensitvive and a beta of less than 1 would be less sensitive to systematic risk than the overall market. e% = Ordinary share capital as a portion of the total invested capital (share capital + debt)

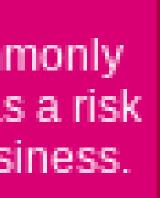
Specific Risk Premium (SRP) represents unsystematic risk (excluding a Small Stock Premium - See below) that is inherent to the business. In a well-balanced portfolio of investments such unsystematic risk can be eliminated by diversification. Where such an investment is not part of a portfolio, unsystematic risk must be taken into account.

(Rm - Rf) SRP SSP

Small Stock Premium (SSP) is commonly recognised by market participants as a risk premium related to the size of a business.

Market Risk Premium (Rm - Rf) is the expected return on the market portfolio in excess of the risk-free rate. Rm - Rf is also referred to as the market risk premium. This premium is required by the market as compensation for an investment in equities.





CALCULATING DISCOUNTED FREE CASH

Calculation of Enterprise Value (R'000)	F2020	F2021	F2022	F2023	F2024
EBITDA	13,950	14,970	13,881	15,210	16,410
Less: Wear & Tear	-399	-458	-538	-642	-775
EBIT	13,551	14,512	13,343	14,568	15,635
Taxation	-3,906	-4,192	-3,887	-4,259	-4,595
Normalised operating profit after tax	9,645	10,320	9,456	10,309	11,040
Add back: Wear & Tear	399	458	538	642	775
Change in working capital	-1,267	-411	-343	-479	-548
Capital expenditure	-561	-693	-857	-1,058	-1,308
Free cash flows	8,216	9,674	8,794	9,414	9,959
Discount period	0.50	1.50	2.50	3.50	4.50
Discount factor based on WACC	0.91	0.76	0.63	0.53	0.44
Discounted free cash flows (R'000)	7,477	7,359	5,575	4,973	4,384
Aggregate of discounted free cash flows	over foreca	st period			29,768

$TV = (FCFn \times (1 + g))$ (WACC - g)

CALCULATING TERMINAL VALUE

Calculating Dicounted Terminal

- Expected sustainable free cash flow
- + Difference: WACC & assumed gr
- WACC
- Less: Accumulated growth rate
- Terminal value
- Discount factor at WACC for 5 year
- Discounted terminal value

CALCULATING TERMINAL VALUE

Value	R'000
w for +1 year	10,750.00
rowth rate	15%
	20%
	-5%
	71,667
ars	0.4
	28,667

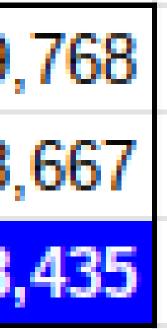
CALCULATING ENTERPRISE VALUE

Aggregate of discounted free cash flows

Discounted terminal value

Enterprise value

s over forecast	period	29
		28
		58



DISCOUNT FACTOR FORMULA

Discount factor = 1 (1 + Discount

(1 + Discount Rate)^period number

Calculation of Equity Value			
Enterprise Value			
Property		6,000	
Investments		1,000	6
Loans receivable		4,300	
Cash & equivalents		1,500	
Long-term liabilities		-17,100	
Tax asset/ (liability)		-6,680	
Non-operating assets and li	iabilities	-10,980	
Value of enterprise on a no	n-marketable	minority b	asi
Add: Control premium (10%)			
Less: Discount for lack of ma	arketability (6.	8%)	
Value of enterprise on mark	cetable major	rity basis	
x shareholding valued			
70% of Equity Value on a m	narketable ma	aiority basis	s

CALCULATION OF EQUITY VALUE

R'000 58,435 -10,98047,428 S 4,743 -3,225 48,946 70% 34,262

1 Certain balances are not included in the Enterprise Value of the business, as they are not necessary for the business to continue trading. These balances are stated at their fair values at the valuation date, after any adjustments.





MODULE 5

1.Calculate Forecasted Free Cash Flows2.Apply Dividend Policy3.Determine Discount Rate4.Determine Equity Value

Calculation of Equity Value - DDM	F2020	F2021	F2022	F2023	F2
Forecast free cash flows	8216	9674	8794	9414	9
x Dividends as % of free cash flows	65%	65%	65%	65%	(
Forecast dividends	5340.4	6288.1	5716.1	6119.1	646
Discount period	1	2	3	4	
Discount factor based on Re	0.79	0.63	0.5	0.4	
Discounted Dividends	4,219	3,962	2,858	2,448	2,
Aggregate of discounted dividends ov	er forecast pe	riod			15



Termi	 N /	-	<u></u>	 	
			100		

- Expected dividends for +1 year
- + Difference: Re & assessed growth

Re

Less: Assessed growth rate

Terminal value

Discount factor at Re for 5 years

Terminal value

Equity value

6,906		
21%		
26%		
- <mark>5%</mark>		
32,886		
0.31		
10,195		10
		25



COST APPROACH



MODULE 6

COST APPROACH

1.NAV from Balance Sheet2.Eliminate Intangible Assets3.Fair Value Adjustments4.Calculate Equity Value

COST APPROACH

Net asset fair value

Net asset value per balance sheet

Fixed assets (excluding property)

Property revaluation

Investments market value adjustme

Goodwill & Intangibles

Adjustments

Net tangible Asset Value (Fair Valu

x shareholding valued

70% of enterprise on a net asset v

		R'000
		13,205
	1,000	
	1,500	
ent	256	
	-302	
	2,454	2,454
ue)		15,659
		70%
/alue b	oasis	10,961

CONSTRUCTING THE ARGUMENT



MODULE 7

CONSTRUCTING THE ARGUMENT

- Comparisons of values per method
- Test reasonableness
- Investigate and explain variances
- Document assumptions
- Higher value wins approach
- Weigh values

ONLINE TOOLS



MODULE 8

COST OF CAPITAL

Discounted free cash flow example & template

- <u>PwC's Valuation Methodology Survey Africa app</u>
- BizEx Business Valuation Calculator
- The Small Business Valuations Handbook





QUESTIONS

Thank you for your participation



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