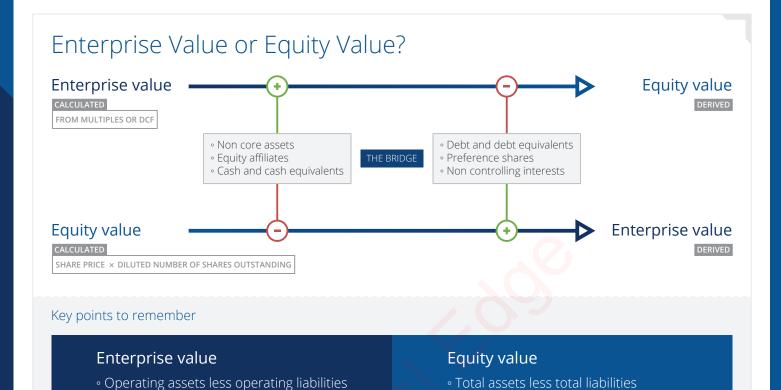
# Valuation Fundamentals







## Relative Valuation

Operating focus

Unaffected by financing

Driven by business performance

## Enterprise value multiples

### Main ratios

- EV / EBITDA
- EV / EBIT
- EV / Sales

Equity value multiples

Ownership focus

Affected by financing

### Main ratios

Driven by performance and financing

• Equity Value / Book Value

Calculating the ratios



Establish the value driver: EBIT, EBITDA or EPS



Calculate the multiple

Absolute Valuation The main method is to calculate EV using Discounted Cash Flows (DCF)







Calculate WACC



Calculate terminal value using perpetuity formula or multiple



Discount cash flows to today



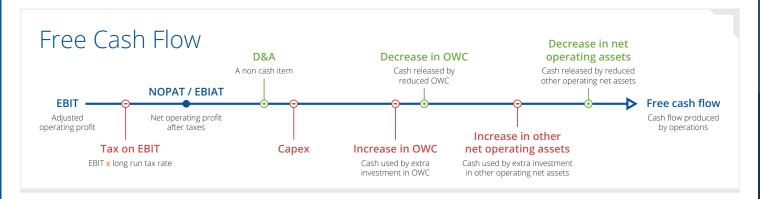
Cross the bridge

FINANCIALEDGE

# Valuation Fundamentals

## **FACT SHEET**







## Financial Maths Fundamental Formulas

Present value PV = FV x 
$$\frac{1}{(1+r)^n}$$
 Future value FV = PV x  $(1+r)^n$  Yield  $r = \left(\frac{FV}{PV}\right)^{\left(\frac{1}{n}\right)} - 1$ 

Perpetuities Cash flows which never end. Can be constant or constantly growing.

Constant perpetuity value 
$$PV = \frac{PMT}{r}$$
 Constantly growing perpetuity value  $PV = \frac{PMT}{(r-g)}$ 

Annuities Constant or constantly growing cash flows for a fixed period of time.

Constant annuity value 
$$PV = \frac{[1 - (1 + r)^n]}{r} \times PMT$$
 Growing annuity value  $PV = \frac{PMT}{(r - g)} \times \left[1 - \left(\frac{(1 + g)}{(1 + r)}\right)^n\right]$ 

# Applying Financial Maths to a DCF Valuation

NOW	PERIOD 1	PERIOD 2	PERIOD 3	PERIOD 4	PERIOD 5
	FCF 1	FCF 2	FCF 3	FCF 4	FCF 5
					TV
Discount factor	$\frac{1}{(1 + WACC)^1}$	$\frac{1}{(1 + WACC)^2}$	$\frac{1}{(1 + WACC)^3}$	$\frac{1}{(1 + WACC)^4}$	$\frac{1}{(1 + WACC)^5}$
Present value	FCF x Discount factor				
Sum of PV of FCFs	FCFs 1 to 5 x Discount factor 1 to 5				
PV of TV	TV x Discount factor 5				
Enterprise value	Sum of PV of FCFs + PV of TV				