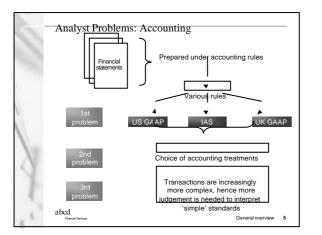
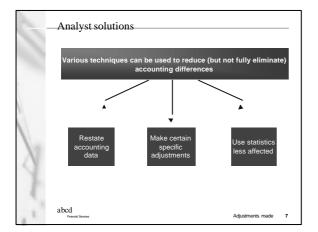


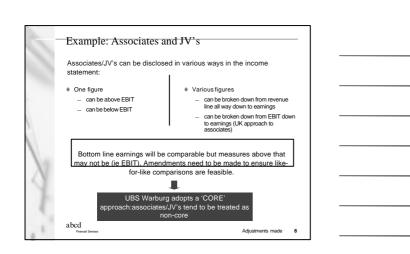
General overview of an analyst's role Aim is to make recommendations on whether to buy or sell the stock Normally one year price target is set Depending on how this price target compares to current share price, this determines the recommendation (buy, neutral, reduce) Recommendation should be updated regularly when factors change

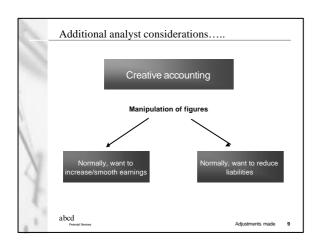
General overview of an analyst's role (cont'd) How do they do it? • Use historical financial statements, management meetings, press releases, general sector information, competitor news, economic factors, political considerations, etc • Past information helps analysts predict the future — historical information forms the basis of forecasts • Need to understand accounting policies and how these differ globally — different policies result in differences in multiples: either an adjustment needs to be made or an appropriate multiple chosen

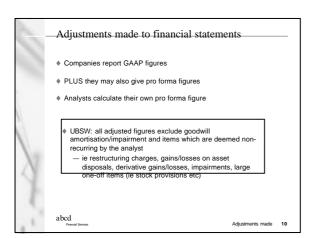


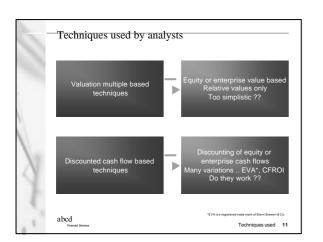
Example: Leasing Two types of accounting for leases: Finance (or capital) lease Operating lease both asset and debt obligation on balance sheet nothing on balance sheet cash payments charged to earnings cash payment split between capital repayment and interest charge annually earnings hit by depreciation and interest charge If two companies adopt different accounting treatments for the same asset, then both the income statement (EBIT, EBITDA and earnings) and the balance sheet are different abcd General overview 6

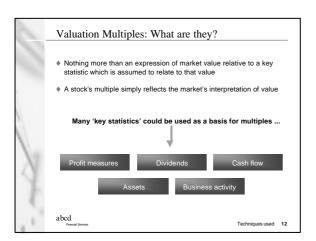


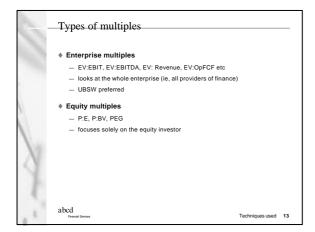


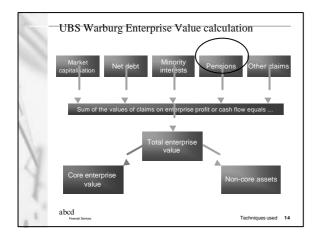












DCF

A company's cash flows are forecast into the future and discounted back using the company's cost of capital in order to obtain an absolute value today

Value = present value of expected future cash flows

$$Value = \frac{CF_1}{(1+r)^1} + \frac{CF_2}{(1+r)^2} + + \frac{CF_n}{(1+r)^n}$$

- r = The investor required return or cost of capital
- CF_n = The expected cash flow available for investors in year n

Techniques used 15

Techniques used 16

Specific areas

17

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encial Services

Free cash flow - standard calculation

EBIT (normal operating profit)

Taxes on normal operating profit

(X)

NOPLAT (normal operating profit less adjusted taxes)

X

Depreciation and amortisation

X

Gross cash flow

X

Capital expenditure

(X)

Change in working capital

Non-cash changes in operating provisions

(X)/X

Enterprise free cash flow

X

Specific areas of concern

Pensions

abcd Francial Services

- Stock options
- ♦ Revenue
- Goodwill (and business combinations)
- Off balance sheet items
- ♦ Financial Instruments
- ♦ Leasing
- ♦ Provisioning
- Depreciation
- Depreciation

♦ Taxation, and more......

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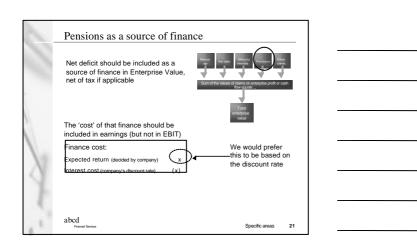
encial Services

-		

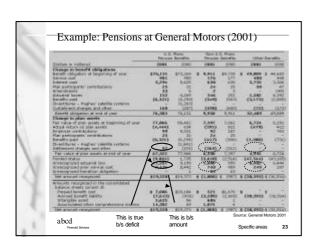
Pensions: DB schemes Very topical at moment as funded schemes show large deficits Accounting very complex, and different countries use different rules UK's FRS 17 probably best existing standard What do analysts do? Need to break out income statement charge and clean up the balance sheet Include net deficit as a source of finance

Defined Benefits - financial statement effects Income statement charge is generally made up as follows: The balance sheet net pension item reflects: Service cost Pension plan assets (at market value) Less Pension obligations (discounted) + Interest cost (unwinding of the discount) = Net surplus / (deficit) · · · · · Expected return on assets +/- unrecognised actuarial gain/loss +/- Recognised actuarial gains/losses (spread forward) +/- unrecognised past service cost +/- other items +/- Recognised past service costs (spread forward*) = Net balance sheet asset / liability +/- Other items = Total pension charge / credit** * May be recognised when vested ** This is normally shown within EBIT but can be split (eg UK FRS 17) abcd Specific areas

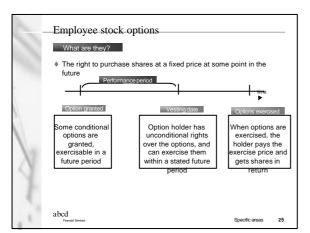
0	Pensions and performance measu	ires		
	(simple) Income Statement			
	Revenue	X Should include	;	
	Cost of sales	(x) only pension	¦	
	Selling, General & Admin costs	(x) [▲] service cost	!	
//	Earnings before Interest and Tax (EBIT)	x/(x) —Should include		
16	Interest	x/(x)◀ pension financing cost*	¦	
	Tax	(x)	: l	
1/4	Earnings x/(x)		;	
Y		*as amended as appropriate		
- (
15	abcd Financial Services	Specific areas 20		

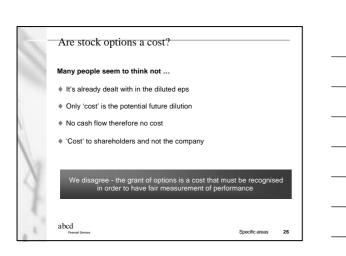


	1	2002			20035	
	Reported 65AF 34	Restated FRS 17	Restated FRS 17 encl.	Reported SSAP 24	Restated FRS 17	Restated FRS 17 esc equityretu
perating profit	221	211	2 equityretarii 211	236	254	equityreta 2
codwil amortisation	- 62	- 62	- 62	-82	- 62	
Scoptional items	-22	-22	-22	0	0	
pint venture income	66	66	66	20	10	
1 et interest	-107	-107	-107	-124	-124	-1
Expected return on pensions assets	-	355	284		272	
lensionsinterestaspense		-316	-316		-321	-3
tre-tax profit	105	135	64	130	9	
exation	- 62	81	-0	- 65	46	,
smings for equity investors	9	******		15	2	
Reported EPS (p)	3.3	4.6	1.5	4.7	3.5	
4 d earnings pre gl18 esceptionss	127	148	26	127	105	
Adjusted EPS (p)	7.9	9.2	6.1	7.9	6.5	
E (adjusted earnings)	12.2x	18.4s	157s	12.2x	147x	22.



Pensions summary • EV: add net deficit, deduct net surplus (less applicable tax) • EBIT: include only service cost • Earnings: include service cost and an element of finance • DCF: treat service cost as a proxy for cash in the long term





A recap on option accounting **United States:** FAS 123 adopts a fair value approach but makes recognition of an expense optional Alternative is to recognise intrinsic value only under rules of APB 25 but this is usually zero ♦ FV disclosures are required even if intrinsic value used for charge Other countries: ♦ Little regulation - at best recognition of intrinsic value but generally few disclosures

♦ IASB (and UK will follow) are planning to require mandatory

Option accounting is controversial

Several very difficult questions

expensing by year end

abcd

- ♦ Is there a cost?
- ♦ Should this be measured at fair value or intrinsic value?
- ♦ Is an pricing model such as Black-Scholes the best approach to measuring the options expense? Is it reliable?
- When should the cost be measured grant date or vesting date?
- How should subsequent changes in option value be dealt with?
- Does the diluted eps capture the full impact of options on the company and shareholders?

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Specific areas

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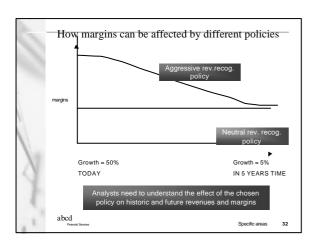
Specific areas

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Option costs are material Impact of recognising options costs on US company profits ... Chart 1: Reduction in earnings due to FAS 123 proforma stock option adjustr 2001 options % of 2000 earnings 25.0% 20.0% 2001 options % of 2001 UBSV 15.0% 5.0% 0.0% Aggregate EAS 123 earnings effect Source: UBS Warburg abcd

Option summary • EV: fair value of existing options treated as a source of finance • EBIT: option costs should be included at fair value, spread over vesting period • Earnings: as per EBIT • EPS: need to include both the expense in earnings and the dilution in the number of shares (not a 'double whammy') • DCF: treat earnings charge as a proxy for cash in the long term

Revenue Recognition Main risk: too much revenue too soon is reported Issues: • timing of revenues — are revenues being recognised too early? — are sales around year end being smoothed? — is contracted income being recognised up front? — what are the policies of other companies in sector? • amount of revenues — did the company make all the recognised sales? (risk and reward concept) — are sales returns being netted off sales or included as an expense? — what happens to incentives? abcd



Goodwill: does it confuse financial markets? ING to Record Loss for 2002 Under U.S. Accounting Rules Fast weeks after it godes 4 a 64.3 billion (\$4.57 billion) profe for 2012, Datch inswer 2013 Group BV shocked. markets by raying that the result had turned into a 49.6 billion liver when the company reported under U.S. accounting rules But the company's stock, after initial weakness, railed Monday in Ameterdam and New York. The several is the latest example of a Buropean company that has moved into the red as a result of differences between European and U.S. accounting systems. Other examples have included Span's Telefisians SA and France Sharer in DNO, use of Europe's top. 30 financial institution in terms of acreet, 84.5.2% initially to 611, 10 in Acuterdam, after the company reported the loss under U.S. rains. But the rock later bounced back to close at 412.65, up 1.7%, as insection evalued the loss was related to divergent accounting standards, rather than a deterioration is operations or any questionable activity. Source: Wall Street Journal, 18 March 03 abcd Specific areas 33 Goodwill ♦ Does not arise in pooling situations Assets and liabilities of acquired company (subsidiary) need to ♦ Cost of acquisition is at fair value Only post-acquisition profits are included ♦ Goodwill is calculated as follows: Cost of investment abcd What is an impairment charge? ♦ An impairment charge brings the reported asset value down to its estimated recoverable amoun ♦ It's like a BIG, one-off depreciation/amortisation charge For example: Asset's book value = £100 Estimated net selling price = £85 Estimated value in use = £90 Lots of creativity potential.... Impairment tests over goodwill have become increasingly common in accounting rules (from mid 90's)

Specific areas

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abcd

Goodwill summary ♦ EV: no amendment ♦ EBIT: should exclude goodwill amortisation and any non-recurring ♦ Earnings: as per EBIT (keep tax effects in) ♦ DCF: remove amortisation/impairment charges as non-cash abcd Specific areas 36 Conclusions: how analysts use corporate information All information provided by companies should be considered when analysing the company Adjustments should be made to reported data and these factored into forecasts Different policies should be addressed ♦ There is no one 'correct' approach to equity valuation $\ \, \mbox{$\blacklozenge$} \,$ A good grasp of accounting is essential - there are no simple short-cuts What is most important are the value drivers ... and how the analysts' interpretation of the qualities of a company differ from the view of the market abcd 37