

Comprehensive income

- **In UK, FRS3 has two performance statements**
 - profit and loss
 - statement of total recognised gains and losses (STRGL)
 - profit for the year (just one line)
 - items recorded in reserves
- **Comprehensive Income (CI) combines the two statements, profit and loss and STRGL, in to one**
- **UK, FRED22 (Dec 2000)**
- **the different sections are**
 - operating
 - continuing operations
 - acquisitions
 - discontinued
 - financing and treasury
 - other gains and losses
- **ASB and IASB joint project for 2003**
 - matrix format

- **matrix format**

	Items other than re-measurements	Re-measurements
Business – operating	(1)	(4)
Business – finance income	(2)	(5)
Financing	(3)	(6)

- **horizontal split to show**

- operations separate from financial
- business separate from financing

- **vertical split to show**

- historical cost
- adjustments from HC to fair value

- **problem (perhaps) is that one transaction might be separated out in to different boxes**

- HC depreciation (1), extra depreciation if asset revalued (4)
- Expected return on pension assets (2), difference between expected-actual return (5)
- IASB suggest that normal stock write down (1), and abnormal write downs (4)

Views of AAA Standards Committee (Accounting Horizons, Sept 2000)

- **single statement preferable to many**
 - Maines & McDaniel, Accounting Review, 2000
 - Hirst and Hopkins, Journal of Accounting Research, 1998
- **assumes that prediction is helped by type of item**
 - main point: stock returns seem to differentiate between items of difference persistence
 - but persistence doesn't always link with type of item
- **why separate out operations and financial?**
 - no evidence that it's needed for equity valuation
- **Dhaliwal, Subramanyam and Trezevant, Journal of Accounting and Economics, Jan 1999**
 - Comp Income gives no improvement in predicting future cash flow

Dhaliwal, Subramanyam and Trezevant, Journal of Accounting and Economics, Jan 1999

- **Comp Income gives no improvement in predicting future cash flow**
 - **regression tests**
 - $R = a + b.NI + u$
 - $R = a + b.Comp_{broad} + u$
 - $R = a + b.Comp_{narrow} + u$
- where
- R = annual stock return
 - NI = profit
 - $Comp_{broad}$ = NI + broad range of dirty surplus items
 - $Comp_{narrow}$ = NI + narrow range of dirty surplus items
 - gain/loss on marketable securities
 - FX adjustments
 - extra pension costs from prior years

all items contemporaneous

- **Table 2:**

Regression: $R = a + b.Y + u$

b for Y=	b for Y=	b for Y=	R²
NI	Comp_{broad}	Comp_{narrow}	
.66			3.81%
	.59		3.51%
		.68	4.20%

Regression: $R = a + b.Y + u$

b for Y=	b for Y=	b for Y=	R²
Comp Securities	Comp FX	Comp Pensions	
.68			4.22%
	.66		3.81%
		.66	3.79%

- **gains/losses on securities add the value to NI**

- for companies with large comprehensive income adjustments (top decile)
- from Table 4:

Regression: $R = a + b.Y + u$

R^2 for Y= Comp Securities	R^2 for Y= Comp FX	R^2 for Y= Comp Pensions
19.49%	4.70%	3.64%
(8.96%)	(4.76%)	(3.64%)

- () is R^2 for NI for the sample being investigated

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- similar results to whole sample

- **Cashflow_{t+1}, NI_{t+1} on LHS**
 - dependent on
 - $a + b.NI + u$
 - $a + b.Comp_{broad} + u$
 - $a + b.Comp_{narrow} + u$

	R² (%)	R² (%)
	CF_{t+1}	NI_{t+1}
NI	16.54	30.69
Comp_{broad}	11.43	22.35
Comp_{narrow}	13.04	27.06

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- **comprehensive income is not an improvement on NI**
 - **however, CI is also about partitioning NI in to its components**
 - not just about additions to NI

- **it's also about format**
- **but why should format matter unless the information is useful?**
- **good question, but might be *some* companies for which CI is useful**
- **but the items in STRGL are already in reservesnote**
- **so why need a special statement?**

- **the format of information matters**
 - contrast with naïve EMH position, in which format is irrelevant
 - disclosure is what matters

 - modern EMH position allows departures from full impounding if processing costs are high enough
 - but then, what does this form of EMH predict about the impounding of information?
 - what constitutes a rejection of EMH?

Maines & McDaniel, Accounting Review, April 2000

- **impact of CI format on non-professional investors (NPI)**
- **experiment with 95 MBA students, about US standards**
- **SFAS 130, Reporting of comprehensive income, issued 1997**
- **it allows 2 formats**
 - statement of changes in stockholders' equity (130EQ)
 - will include capital changes
 - eg dividends
 - eg new equity capital raised
 - income statement format (130IS)
 - similar to STRGL
 - profit or loss as one line
 - non P&L gains and losses
 - 2 examples from Maines

- **Prior work: Hirst and Hopkins (JAR, 1998) examine analysts**
 - analysts fail to acquire the non P&L gains/losses when in 130EQ format
 - makes sense, since analysts use a directed search strategy, and therefore miss the information
- **NPI (and less experienced analysts) acquire information differently**
 - NPI read financial statements from cover to cover, ie in the order presented
 - therefore, NPI will acknowledge the information, but *may* underweight it in their decisions
- **Maines & McDaniel use insurance company**
- **two versions of accounts**
 - low volatility and high volatility of non P&L gains & losses
- **two formats**
 - 130EQ and 130IS

- **MBA students asked to**
 - assess volatility of non P&L gains/losses
 - on a scale of 1(low risk) to 14 (high risk)

Average perceived volatility of non P&L gains/losses (from Table 2)

	Low volatility sample	High volatility sample	't' for difference
130EQ	7.74	9.25	1.51
130IS	6.13	9.36	3.23

- **in both formats, differences in volatility are recognised (only just for 130EQ)**
- **lower vol assessed better with 130IS (6.13 vs. 7.74) but**
- **130IS(high-low) not significantly different from 130EQ (high-low)**
- **seems some evidence of poor assessment with 130EQ, but M&M argue not**

- **MBA students asked to**
 - assess the risk of investing in the stock
 - on a scale of 1(low risk) to 14 (high risk)

Average of stock risk judgements (from Table 4)

	Low volatility sample	High volatility sample	't' for difference
130EQ	7.00	7.88	0.88
130IS	5.00	7.93	2.93

- **risk judgement affected by 130EQ**
 - can't really tell the difference between low and high volatility, even though they have the information

- **Regression test of risk assessment (from Table 4)**
- **Risk assessment = a + b. (Perceived volatility)**

	b (t stat)	R²
130EQ	0.17 (1.03)	0.00
130IS	0.36 (2.49)	0.15

- **risk assessments for 130EQ are unrelated to perceived volatility**
 - because the volatility is under weighted
- **risk assessments for 130IS are significantly related to perceived volatility**