

Earnings Management

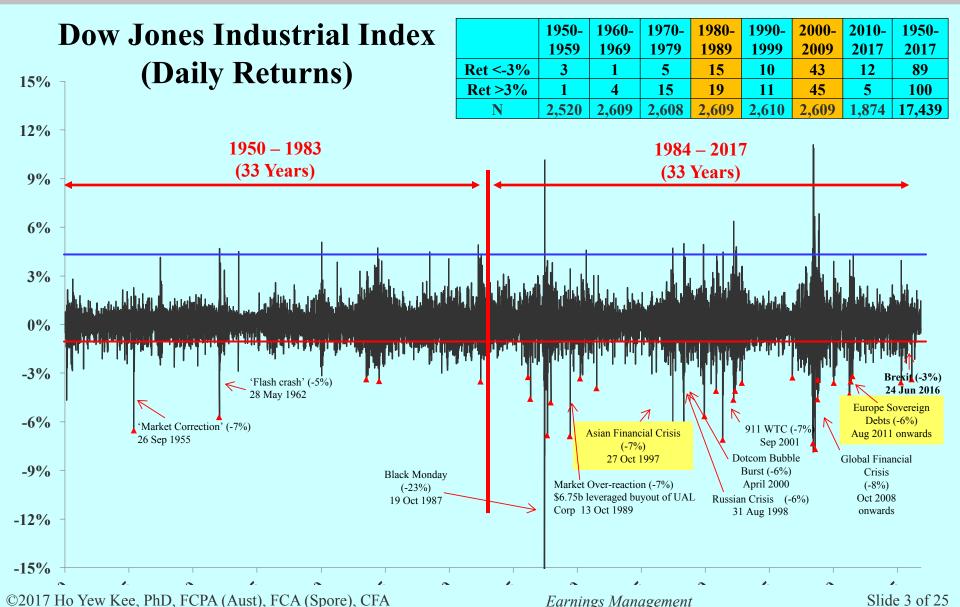




Objectives

- To understand the impact of earnings on an efficient market.
- To understand the basic motivation behind earnings management
- To understand that earnings management is predicated upon the recognition of revenue and expenses.







Why is Earning so Important?



Shareholders

Needs information to know whether management is doing their job. Shareholders are remote from the daily operations of the business and need to rely on performance measurements.

Accountability to Shareholders for the work done

Earnings Measurement

Assessment of Management's performance

Management

Daily management of the operations and need to account to Shareholders for their performance.



Mechanisms to Deal with the Agency Problem

Design the compensation package such that it will induce the desired level of effort.

Monitor and measure the effort such that the managers will perform to expectation.

Max Salary, Effort [Θ(Salary) – Ψ(Effort m)]

Existence of External Labor Market Takeover Market that eliminates inefficient and shirking management.



Robust Performance Measurement System

Design the compensation package such that it will induce the desired level of effort.

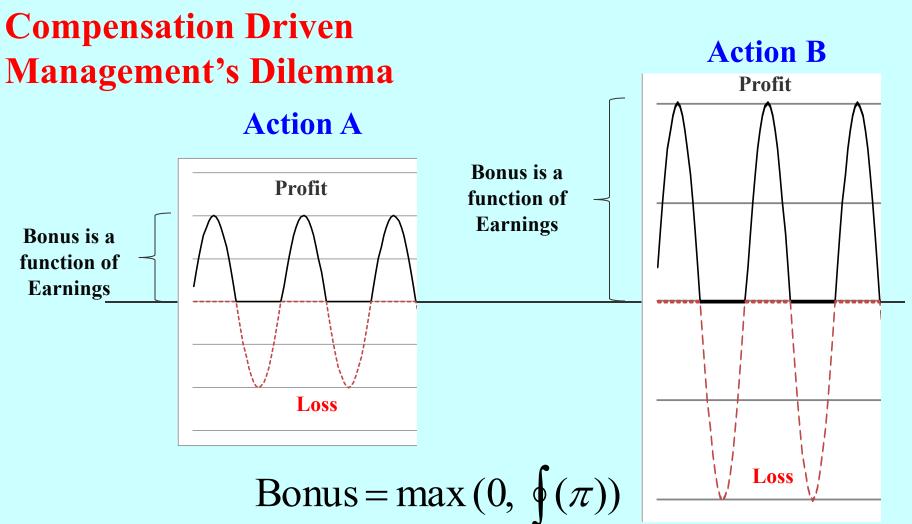
Monitor and measure the effort such that the managers will perform to expectation.

Compensation = f^+ (measurable, objective and definable outcomes)

Quantitative: Earnings, Share Prices, Market Share, Sales Growth

Qualitative: Reputation, Desired Community Traits





What is the optimal action of the management?



Top Ten CEOs' Compensation in US for 2015

No	CEO Name	Company	Compensation (US\$)
1	Joe Kiani	Masimo Corp	\$119,222,614
2	Timothy P. Walbert	Horizon Pharma Plc	\$93,379,077
3	Mark D. McLaughlin	Palo Alto Networks	\$66,606,716
4	Leslie Moonves	CBS Corp	\$56,773,822
5	Philippe P. Dauman	Viacom	\$54,154,312
6	Mark V. Hurd	Oracle Corp	\$53,245,128
7	Robert A. Iger	Walt Disney Co	\$44,913,614
8	Howard M. Lorber	Vector Group Ltd	\$42,541,730
9	Marc Benioff	Salesforce Com	\$39,907,534
10	Omar Ishrak	Medtronic	\$39,460,266

http://archive.aflcio.org/corporatewatch/paywatch/



What is Earnings Quality?

Reliability of the earnings number for the purpose of evaluation of the performance of the firm.

Revenue - Expenses = Earnings



Why Bother with Earnings Quality?

- Valuation.
- Management's attitude.
- Quality of the accounting information system.
- Risk and financial management assessment.

$$\sum_{t=1}^{T} \frac{NI_{t}}{(1+r)^{t}} = \sum_{t=1}^{T} \frac{C_{t}}{(1+r)^{t}}$$
Basic valuation formula

Basic

formula



Determinants of Earnings Quality

- Integrity and quality of management.
- Sound corporate governance (check & balance).
 - Audit committee
 - Remuneration committee
- Quality of internal control.
- Independent audit.
- Knowledgeable and unbiased analysts and financial press.
- State of securities law (severity of punishment for fraud)
- State of the Economy



Disciplinary Role of the Market for Listed Companies



- EPS target
- Recommendation
- Price target
- Growth forecast





Reuter's Analysts' Report on Toshiba

Consensus Recommendations (March 2016)

1-5 Linear Scale	Current	1 Month Ago	2 Month Ago	3 Month Ago
(1) BUY	0	0	0	0
(2) OUTPERFORM	2	2	2	3
(3) HOLD	6	6	7	7
(4) UNDERPERFORM	7	7	5	5
(5) SELL	1	1	1	1
Mean Rating	3.44	3.44	3.33	3.25

Analysts Recommendations and Revisions (Mar 2016)

	Last Week		Last 4 Weeks	
No. of Revisions	Up	Down	Up	Down
Quarter Ending Jun-16	0	0	0	0
Quarter Ending Sep-16	0	0	0	1
Year Ending Mar-16	0	1	0	8
Year Ending Mar-17	0	1	0	9

Consensus Recommendations (March 2017)

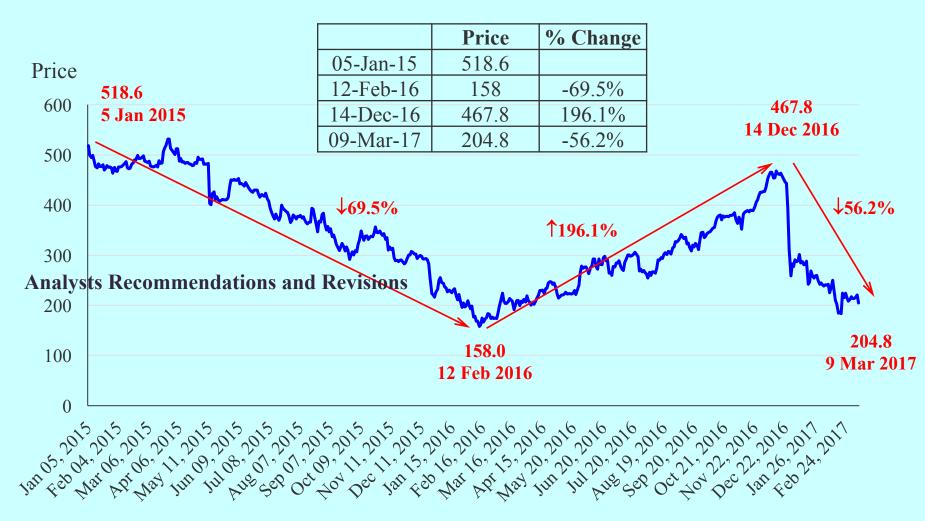
1-5 Linear Scale	Current	1 Month Ago	2 Month Ago	3 Month Ago
(1) BUY	0	0	1	1
(2) OUTPERFORM	4	5	6	7
(3) HOLD	4	5	4	3
(4) UNDERPERFORM	3	3	2	2
(5) SELL	2	1	1	1
Mean Rating	3.23	3.00	2,71	2.64

Analysts Recommendations and Revisions (Mar 2017)

	Last Week		Last 4 Weeks	
No. of Revisions	Up	Down	Up	Down
Quarter Ending Jun-17	0	1	0	1
Quarter Ending Sep-17	0	1	0	1
Year Ending Mar-17	0	1	3	1
Year Ending Mar-18	0	2	1	3

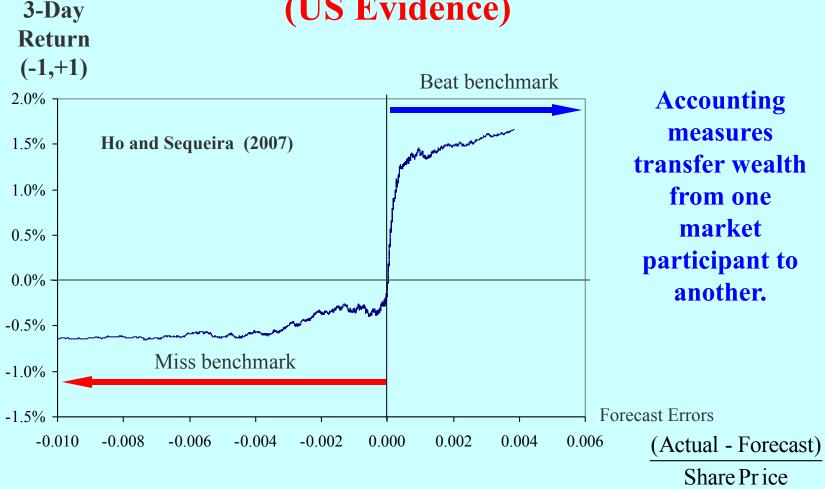


Share Prices of Toshiba



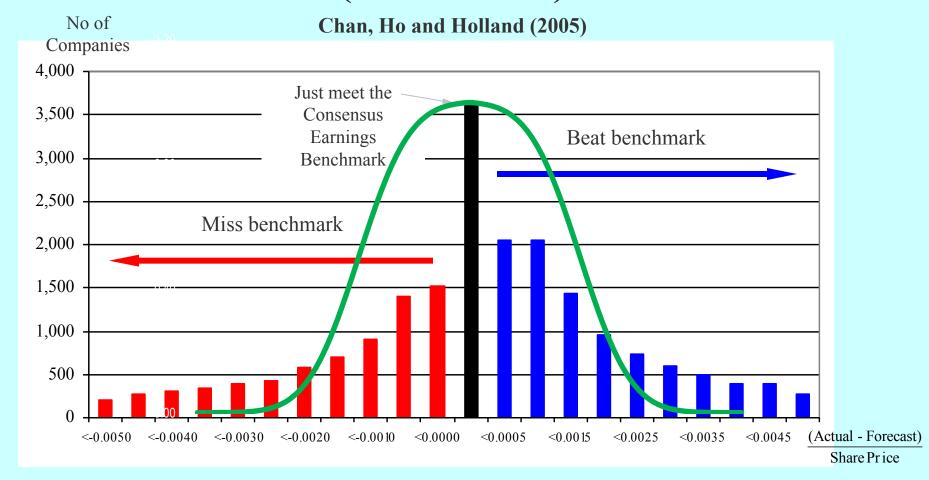


Earnings and Share Price Relationship (US Evidence)



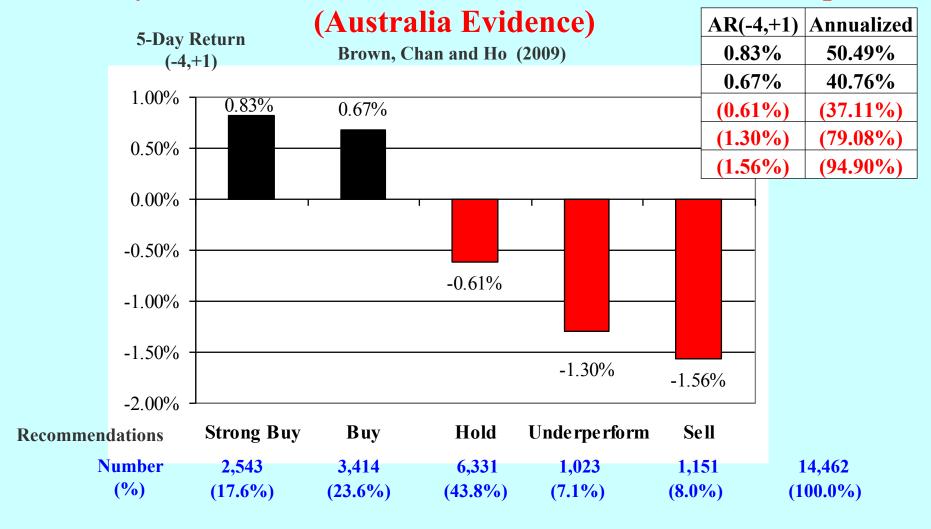


Firms Beating Consensus Earnings Benchmark (US Evidence)





Analyst Recommendations and Share Price Relationship





Earnings is an outcome

Therefore Earnings Management is carried out through the recognition of Revenue and Expenses.



Recognition of Revenue

Earned Concept – Completion of the earning process

Realizability Concept – Assurance of payments

Recognition of Expenses

Match expenses through time.

Match expenses through usage.

Earnings is an outcome

Revenue

Expenses

Earnings



Opportunities for Earnings Management

- New and sophisticated transactions
- New technologies and system
- Poor internal controls
- Lack of vigilance and due diligence
- Power distance in management
- Subjective decision making and judgement



Revenue Recognition Challenges

- Sale of vouchers
- Sales of Spa packages
- Sales of airline tickets with frequent flyer mileage
- Sale of phone cards
- Sale of highly subsidized hand phones



Expenses Recognition Challenges

- Impairment charge
- Depreciation estimates
- Inventory write-off
- R&D expenses
- Unrealised fair value gains



Importance of Impairment

If a company has not taken on the full extent of impairment, its asset book value will be over-valued and its P/B ratio (lower than its peers) will not be representative of its market valuation.

The ROA will be lower, implying the company is deriving less profit from the asset.



Importance of Impairment

Assets should be valued by the net present value of their projected cash flow contributions.

When an asset carries book values that are above the NPV of their cash flows, in accounting terms, the company is considered to have over-paid for the asset.



Conclusion

- **Earnings Quality is extremely important for an efficient market.**
- Significant amount of game playing in the earnings reporting, ie. window dressing and soft number.
- The mechanics of earnings management is through revenue and expenses recognition.