

Learning objectives

- develop a research question and hypotheses with an appropriate research design to address a question related to a business press article/report
- understand the structure and cohesion of the empirical financial accounting research literature
- assess the methodologies employed in the financial accounting literature
- understand how financial accounting research can affect practice/standard setting



Boeing's earnings release

- · Did investors react to earnings information of Boeing?
 - · Why do firms disclose information to external users?
 - · Who are the external users?
 - What type of information is disclosed?
 - · Where can you find this information?
- Why would you expect external users to react to earnings releases?
- Was there any media coverage?
 - · Wall Street Journal article
- What do you think is the role of media and other information intermediaries, such as equity analysts?



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Boeing's earnings release

Boeing Reports Second-Quarter Financial Results, Reaffirms Guidance

- Second-quarter revenues steady at \$17.0 billion
- Net income was \$0.9 billion with EPS of \$1.16 per share, including a previously disclosed charge of \$0.22 per share
- First-half EPS grew 13 percent to \$2.79 per share as revenue grew 2 percent to \$33.0 billion
- Backlog at record \$346 billion
- 2008 and 2009 financial guidance reaffirmed

Table 1. Summary Financial Results (Millions, except per share data)	2nd Quarter			First Half		
	2008	2007	Change	2008	2007	Change
Revenues	\$16,962	517,028	(0%)	\$32,952	\$32,393	2%
Earnings From Operations	\$1,247	\$1,506	(17%)	\$3,046	\$2,815	8%
Operating Margin	7.4%	8.8%	(1.4)Pts	9.2%	8.7%	0.5 Pts
Reported Net Income	\$852	\$1,050	(19%)	\$2,063	\$1,927	7%
Reported Earnings per Share	\$1.16	\$1,35	(14%)	\$2.79	\$2.48	13%
Operating Cash Flow	(\$251)	\$3,634	N.A.	\$1,682	\$4,362	(61%)



Boeing's earnings release

How does the press react to the disclosure?

WSJ July 24, 2008 (published one day after release):

- The company reported net income of \$852 million, or \$1.16 a share, down from \$1.05 billion, or \$1.35 a share, a year earlier.
- Revenue slipped to \$16.96 billion from \$17.03 billion.
- The Chicago aerospace company's earnings were hit hardest by a charge of \$250 million, or 22 cents a share, for delivery delays of an aerial-surveillance plane for Australia's air force.
- The mean forecast by analysts surveyed by Thomson Reuters had been for profit of about \$1.22 a share.



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Boeing's earnings release

Boeing's Net Falls 19% as Clouds Gather

By J. Lynn Lunsford 24 July 2008 The Wall Street Journal

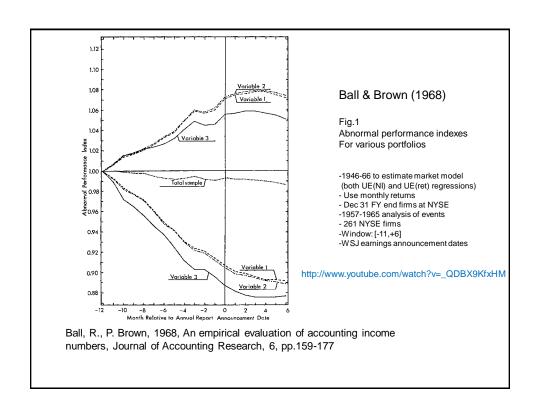
Boeing Co.'s net income fell 19% during the second quarter after a charge on a troubled defense contract coincided with the delivery of a number of commercial jetliners that were sold at bargain prices during the last industry slump.

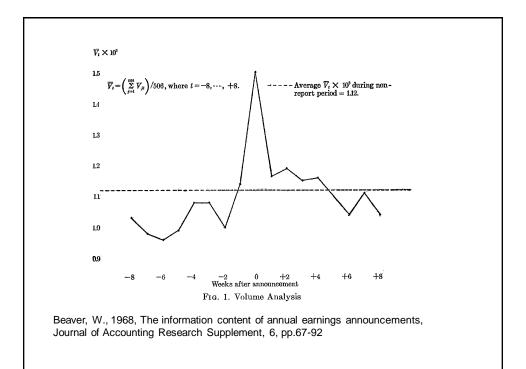
Although the results caught analysts by surprise, Boeing said it still plans to meet its projections for sales and earnings growth for 2008 and 2009, even amid growing concerns that high oil prices could lead to a wave of order cancellations.

The Chicago aerospace company's earnings were hit hardest by a charge of \$250 million, or 22 cents a share, for delivery delays of an aerial-surveillance plane for Australia's air force. The company reported net income of \$852 million, or \$1.16 a share, down from \$1.05 billion, or \$1.35 a share, a year earlier. Revenue slipped to \$16.96 billion from \$17.03 billion. The mean forecast by analysts surveyed by Thomson Reuters had been for profit of about \$1.22 a share.

The biggest surprise came from the company's commercial-airplanes unit, where operating income was down 19%. Boeing said that expenses associated with the Dreamliner program are rising as the company prepares for full-scale production. Boeing also delivered three fewer high-margin 777 widebodies than expected due to parts shortages, and a handful of aggressively priced single-aisle 737s helped dilute the numbers further.



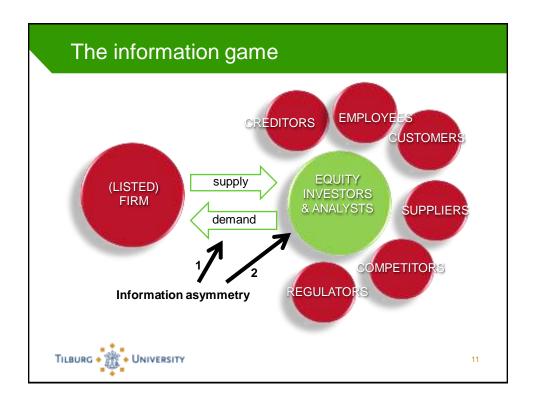


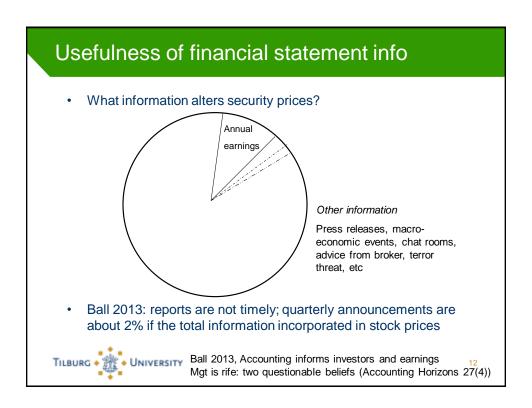


Recent research (informational value)

- Hirshsleifer, Lim & Teoh (Oct 2009) Journal of Finance
 "Driven to distraction: extraneous events and underreaction to earnings news"
 - Limited investor attention causes underreaction to earnings releases (opposite to instantaneous market efficiency)
 - Investor distraction hypothesis: immediate price and volume reaction to earnings news is weaker when a greater number of same-day earnings releases are made by other firms.







Usefulness of financial statement info

BALL 2013 (Accounting Horizons)

- Instead of providing new information, financial statements have other roles that result in their social value:
 - Confirmation: the role of audited financial statements in confirming and disciplining the more timely private information disclosures of managers
 - · Complementary role: Enhancing credibility of mgt disclosures
 - Contracting role: compensation, debt, supply, licensing, royalties

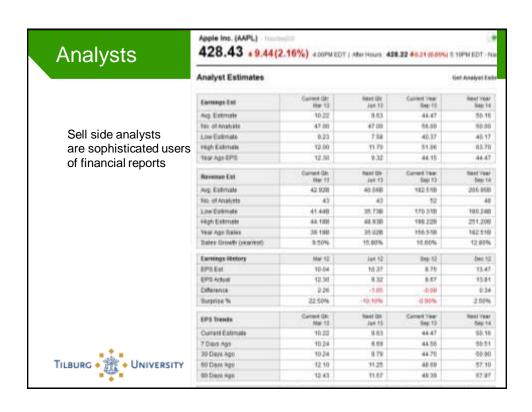
Economic value - examples:

minimizing fraud, alerting firms (resource allocation)



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Analysts and information processing







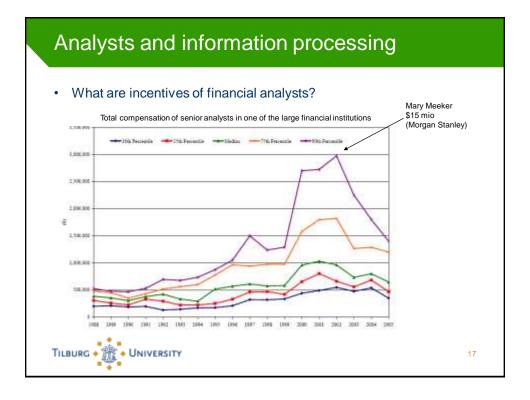


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Analysts and information processing

- What do financial analysts (FA) do?
 - · They are sophisticated users of financial reports
 - · Demand for FA
 - Small investors
 - Institutional investors (mutual funds, pension funds)
 - Investment banks
 - · Information produced by FA
 - · EPS forecasts
 - · Business strategy analysis
 - Valuation and buy/hold/sell recommendation





Analysts and information processing

- · What are performance metrics?
 - 1. Firm/sector performance determines size of bonus pool
 - 2. Input metrics
 - Analyst experience
 - Homegrown versus externally hired
 - Trading activity for covered stocks
 - 3. Process metrics
 - Number of earnings forecasts made during a year
 - Number of initiations
 - Number of phone calls
 - 4. Output metrics
 - Investment banking business generated from firms FA covers
 - Stock recommendation performance
 - Earnings forecast accuracy
- Traders seem to appreciate FA's access to management, and responsiveness to feedback (see Institutional Investor annual poll among traders and sales force)

Groysberg, Healy & Maber, "What drives sell-side analyst compensation at high status investment banks" Journal of Accounting Research, vol.49 n.4, Sep 2011, pp.969-1000



Understanding the research context / trends

EXAMPLE: Understanding investor information needs / TRENDS

Center for Accounting Research and Education

Impact of emerging information technology on capital markets

http://business.nd.edu/Center_For_Accounting_Research_and_Education/Conferences/CARE_Conferences/2013_CARE_Conference/

MORNING KEYNOTE (April 5, 2013)

Investing in a World of Technological Change

Barry Hurewitz

Chief Operating Officer, Managing Director for Research, Morgan Stanley

How is technology affecting investor needs, and what is the current and future role of **information intermediaries**



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Understanding the research context / trends

EXAMPLE: Understanding investor needs

- What is the future role of research performed by brokerage firms?
- Two elements (according to Barry Hurewitz):
 - Technology
 - 2. Regulation
- Technology: PAST two decades
 - Automation, eg electronic share trading
 - Informating, eg Bloomberg, DowJones, Factset
 - Client experience, eg, email, mobile devices, web docs (vs PDF)



Understanding the research context / trends

EXAMPLE: Understanding investor needs

- Technology: DISRUPTIVE CHANGES
 - Big data, eg weblogs, satelite info, twitter, facebook
 Best Buy Apple (search robots to estimate value of the deal)
 predictive ability
 - 2. Social networks (similar to Encyclopedia Brittanica and Wikipedia)
 - What do consumers trust?
 - How do people share information
 - 3. The cloud
- Competition among brokerages
 - Analytical capabilities (not person specific): data & methods
 - Japan 1750: it is not about the technology, but about the way you use it



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Financial accounting research - framework E.g. Single market program in EU to stimulate cross-border competition, 1. Economic forces labor, capital and product exchange E.g. economic cycles lobbying 2. Private forces 3. Political forces legal system/enforcement demand for reporting government/ taxes stakeholder/stockholder oriented standard setters/ standards banks management · supervisory board **Financial Reporting** · labor unions Quality suppliers · financial analysts shareholders Footnote disclosure · auditors Accounting recognition etc quality: balance sheet quality and income statement TILBURG + 誕生 UNIVERSITY

Interaction private and political forces

- How do private forces react to 'bad accounting rules'?
 - 1. More frauds
 - 2. Private initiatives to provide alternative information
 - S&P 'core earnings' (exclude gains from pension activities, impairment of GW, settlements from litigation,...)
 - Banks adjust GAAP-based F/S of borrowers to obtain more conservative net assets/ earnings (Beatty, Weber & Yu JAE 2008)
 - 3. Lobbying against the bad standards
 - 4. Set up system to exploit rules
 - Excessive stock options (no expensing before IFRS2, FAS123R)



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Quality of financial reporting

- What are indicators of reporting quality?
 - 1. Earnings management (measurement)
 - 2. Selective disclosure (disclosure quality)
- Earnings management is one indicator of reporting quality
 - High quality reporting should limit earnings management
 - Patterns of earnings management
 - Taking a bath
 - Income minimization
 - Income smoothing
- Selective disclosure: poor or no footnote disclosure



Reporting quality - earnings management

Burgstahler & Dichev (1997)

"Earnings management to avoid earnings decreases and losses"

- Anecdotal evidence

"I must emphasize that all of our strategic actions are guided by and measured against this goal of delivering consistently high increases in earnings over the long term" Tenneco's 1994 Report

"Increasing earnings per share was our most important objective this year" Bank of America's CEO Richard Rosenberg 1994

- Strong incentives to avoid reporting
 - Losses
 - Earnings decreases
- Ball (2013): incorrect belief and critical about earning management literature



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Impact of academic accounting research

> 1300 articles between 1975-2014 in top journals: Journal of Accounting Research, Accounting Review, Journal of Accounting and Economics

- 1. Improve our understanding of the accounting environment
 - Exec compensation and motivation of manager
 - Firm value and its relation to earnings
 - Ftc.
- Accounting research affects practice
 - Accounting education research as fundament of education of future professions
 - Audit risk assessment (quality of corporate governance, understanding earnings management incentives, etc.)
 - · Compensation contract design
 - Hedge funds: exploiting temporary mispricing of accounting information (eg. Default risk in IPOs, Sloan's accrual anomaly)
 - Credit risk assessment
 - Investment banks financial analysts: Earnings quality (e.g. ModelWare project of Morgan Stanley started by Trevor Harris)
 - Accounting-based valuation: Ohlson's residual income model
 - Standard setters: need to know how informationally efficient market is



Conclusion – my beliefs

- · Empirical financial accounting research is exciting
- Multidisciplinary (finance, economics, psychology...)
- Understand institutional context study relevant topics
 - · Talk to practicioners
 - Read business press, discussion pieces, etc.
- Impact: fellow academics, students, practice/standard setting
- Great job opportunities for good accounting researchers



