
MASB

Academic Presentation

Capitalizing Advertising Spending

Shuba Srinivasan
Boston University
Member of the MASB
August 2015
Chicago



Marketing Accountability Standards Board
of the Marketing Accountability Foundation

Capitalizing Advertising Spending

Authors:

- Edward Riedl
- Emanuel Bayer
- Bernd Skiera
- Shuba Srinivasan

Motivation

Objective of financial reporting

- Provision of financial information useful for decision making (FASB 2010)
- Correct mapping of firm's economics into its reported financials
 - A mismatch, coupled with potential managerial incentives, may lead to sub-optimal reporting and operating decisions

Current financial reporting treats most advertising spending as an expense vs. capitalization as an investment

Two reasons (FASB accounting standard 720-35)

- the benefit period is presumed to be short
- both the periods of receiving future economic benefits, and the amount of benefits, cannot be measured objectively

Problem Statement

- However, there is heterogeneity in advertising spending
 - Short-term versus long-term impact
 - Media (e.g., TV, radio, digital)
 - Customers targeted and products advertised
- Problem: A mismatch between the economics of (some) advertising and the homogenous financial reporting treatment
- Why address this debate now?
 - Evolution of accounting standards (e.g., more fair value reporting)
 - Evolution of measurement of advertising response (more and better data, better predictive analytics)

Research Questions

- 1) What are the conditions for capitalizing advertising spending?
- 2) What recent developments in advertising spending could better fulfill these conditions?
- 3) What are the consequences of capitalized advertising spending?
- 4) What are the stakeholder implications (i.e., for firms, investors, and regulators)?

Expense versus Capitalization

- **Per FASB (Financial Accounting Standards Board):**

- **Expense:** Advertising spending appears only as an expense on the firm's income statement; there is no asset on the balance sheet.

“Outflows or other using up of assets or incurrence of liabilities (or a combination of both) from delivering or producing goods, rendering services, or carrying out other activities that constitute the entity's ongoing major or central operations.”
(FASB 2010)

- **Capitalization:** should occur if the spending creates an “asset,” defined as:

“Probable future economic benefits obtained or controlled by a particular entity as a result of past transactions or events.”
(FASB 2010)

Expense versus Capitalization: Numerical Example

Assumptions:

- Advertising spending

- year 0 (and before):	\$ 0
- year 1:	\$100
- year 2:	\$ 0
■ Profit in both years <u>before</u> advertising spending:	\$180

- Advertising impacts sales equally across two years

Expense:

- Income statement
 - Advertising spending:
 - Year 1: -\$100
 - Year 2: -\$0
 - Profit:
 - Year 1: $\$180 - \$100 = \$80$
 - Year 2: $\$180 - \$0 = \$180$
- Balance sheet
 - \$0 for asset advertising spending

Capitalization:

- Income statement
 - Advertising spending:
 - Year 1: -\$50
 - Year 2: -\$50
 - Profit:
 - Year 1: $\$180 - \$50 = \$130$
 - Year 2: $\$180 - \$50 = \$130$
- Balance sheet
 - Year 1: \$50 for asset advertising spending
Equity increases by \$50
 - Year 2: \$0 for asset advertising spending

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- Capitalization leads to asset on the balance sheet, expensing does not
 - Capitalization allocates advertising spending over time, expensing does not

Mapping Asset Definition to Advertising Constructs

Direct-Response Advertising

Accounting

Marketing

- | | | |
|------------------------------------|--------|---|
| • Probable future economic benefit | —————→ | • Long-term effect: firm can precisely identify the future cash flows associated with the particular advertising spending |
| | | • Accountability |
| • Controlled by entity | —————→ | • <i>Conversion</i> : firm will receive benefits associated with sales from advertising |
| • Result of past transactions | —————→ | • <i>Attribution</i> : results from a past transaction (as the advertising has taken place) |



Mapping Advertising Spending into Financial Reporting Treatment

<div>Benefit Horizon</div> <div>Accountability</div>	No Long-Term Benefit (e.g., non-contractual products)	Long-Term Benefit (e.g., contractual products)
Low Accountability (e.g., TV, print, radio, outdoor advertising)		
High Accountability (e.g., direct mail, e-mail marketing, Google advertising, affiliate marketing, direct-response advertising like field sales force and telesales)		

Mapping Advertising Spending into Financial Reporting Treatment

<div>Benefit Horizon</div> <div>Accountability</div>	No Long-Term Benefit (e.g., non-contractual products)	Long-Term Benefit (e.g., contractual products)
Low Accountability (e.g., TV, print, radio, outdoor advertising)	(1) Untraceable Short-Term Impact EXPENSE	(2) Untraceable Long-Term Impact EXPENSE
High Accountability (e.g., direct mail, e-mail marketing, Google advertising, affiliate marketing, direct-response advertising like field sales force and telesales)	(3) Traceable Short-Term Impact EXPENSE	

Mapping Advertising Spending into Financial Reporting Treatment

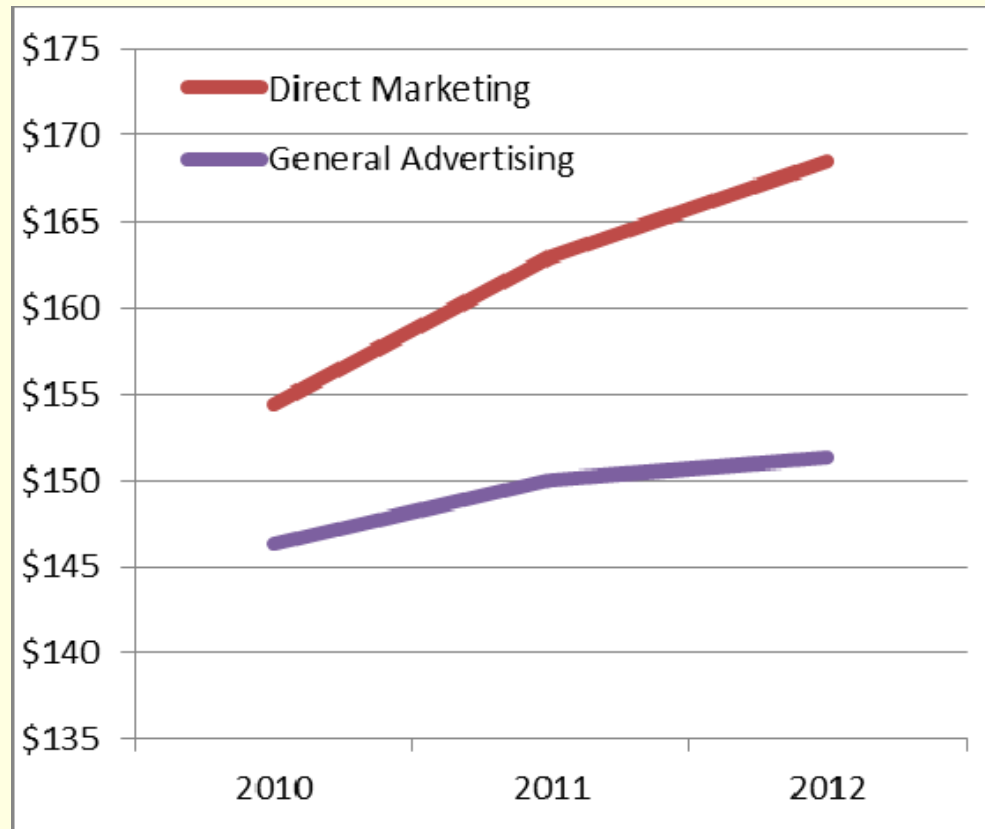
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High Accountability (e.g., direct mail, e-mail marketing, Google advertising, affiliate marketing, direct-response advertising like field sales force and telesales)	(3) Traceable Short-Term Impact EXPENSE	(4) Traceable Long-Term Impact <u>CAPITALIZE</u>

Key Insights

- Two primary dimensions to assess if any type of advertising is appropriate for capitalization
 - Long-term effect
 - Accountability
 - Conversion
 - Attribution
- Advertising spending at the intersection of long-term effect and accountability appears to satisfy capitalization requirements

Share of Direct Marketing Increasing

- Direct marketing accounts for > 50% of total US advertising spending
- Trend: increasing share of DRA through 2016 (DMA 2014)



Descriptive / Empirical Analysis

■ Aims of Empirical Study

- Firm Perspective: disclosure behavior over time
- Capital Market Perspective: Value relevance of advertising spending over time
- Implications of Pro Forma Capitalization (vs. expensing) on volatility of profitability ratios

■ Caveat:

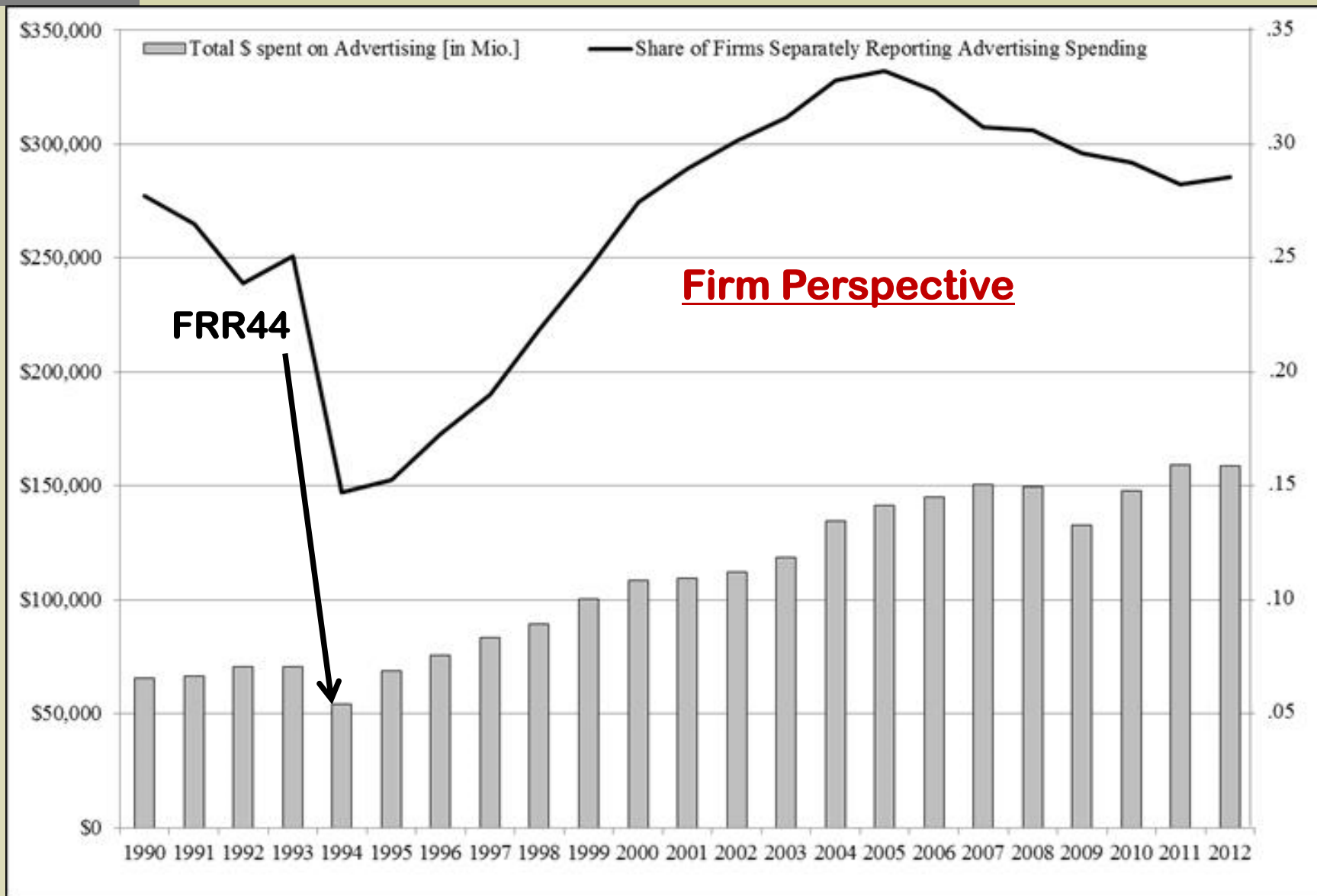
- What we want: spending by type of advertising for all firms
- What we have: spending on aggregate advertising for some firms

■ Data Set:

Panel data, US firms, 1990–2013

- 14 years, average $N = 8,875$ firms per year
- 21,774 firms in total

% Firms Separately Reporting Advertising and Total Advertising Spend (\$)



Equity Market Valuation of Advertising Spending Over Time

Capital Market Perspective

■ Step 1:

$$\text{Return}_i = \alpha + \beta_1 \times \text{Net Income}_i^{\text{before Advertising Spending}} + \beta_2 \times \text{Advertising Spending}_i + \varepsilon_i.$$

■ Step 2:

- Regress the series of annual β_2 estimates onto a time trend variable
- Coefficient on time trend: 0.108 (SE = 0.042, significant at the 1% level)
- Average value of β_2 across the sample years is 1.614

■ Inference:

- Stock returns and advertising spending association increases by 6.70% (0.108/1.614) per year over 1990–2013
- Suggests equity market perceives advertising to have increasingly (on average) longer-term effects upon firms' overall valuation

Expensing vs. Capitalization Scenarios

Implications of Pro Forma Capitalization (vs. expensing) for volatility of profitability ratios?

Expensing		Capitalization			
Years	Base Case	Scenario 1	Scenario 2	Scenario 3	Scenario 4
	(1)	(2)	(3)	(4)	(5)
$t = 1$	100.00%	50.00%	50.00%	50.00%	50.00%
$t = 2$		25.00%	16.66%	12.50%	10.00%
$t = 3$		25.00%	16.66%	12.50%	10.00%
$t = 4$			16.66%	12.50%	10.00%
$t = 5$				12.50%	10.00%
$t = 6$					10.00%

- Allocation of advertising spending across years
- Allocation is related to magnitude and timing of cash flows

Effect of Capitalization of Advertising Spending on Volatility of Profitability Ratios

- Median volatility decreases substantially if advertising spending gets capitalized
- Percentage decrease in volatility lies between 18% and 36%

	Median SD_ROA	Median SD_ROE	Median SD_ROIC	Number of Firms (M)
Base Case	0.057	0.113	0.125	2,311
Scenario 1 (3 year amortization)	0.047	0.091	0.091	
Decrease in Median SD	-18.20%***	-19.43%***	-27.38%***	
Base Case	0.056	0.111	0.121	2,111
Scenario 2 (4 year amortization)	0.043	0.086	0.085	
Decrease in Median SD	-22.55%***	-21.84%***	-29.75%***	
Base Case	0.054	0.106	0.117	1,961
Scenario 3 (5 year amortization)	0.039	0.080	0.078	
Decrease in Median SD	-27.44%***	-24.27%***	-33.63%***	
Base Case	0.053	0.102	0.113	1,828
Scenario 4 (6 year amortization)	0.034	0.076	0.072	
Decrease in Median SD	-34.70%***	-25.49%***	-36.00%***	

Summary of Key Findings

■ Firm Disclosure Behavior

- % separately reporting advertising spending increased from 1994 on
- But: heterogeneity across sectors

■ Value Relevance of Advertising Spending Over Time

- Association (stock returns and advertising spending) increases by 6.70% per year
- Suggests equity market perceives advertising to have increasingly longer-term average effects upon firms' overall valuation

■ Effect of Pro Forma Capitalization (vs. expensing) on volatility of profitability ratios

- Capitalization (vs. expensing) results in lower volatility of profitability ratios

Recommendations

■ Firms

- Likelihood of fulfilling requirements for capitalization has increased
- Should increase voluntary disclosure on nature of advertising spending
- Consider how the current homogenous expensing requirement may affect (suboptimally) internal decisions

■ Investors and Creditors

- Understand limits of current financial reporting for advertising
- Recognize heterogeneity of advertising spending

■ Regulators

- Current reporting treatment fails to recognize (i) heterogeneity in advertising and (ii) advances in advertising data analysis
- We provide a framework to help re-assess reporting for advertising and evaluate any type of advertising

Conclusion

- We argue there is a mismatch between economics of advertising and reporting of advertising spending
 - Advertising spending is heterogeneous
 - Financial reporting treatment is homogenous (expensing)
- We provide a framework to assess all advertising spending
 - Accountability (conversion & attribution), and
 - Long-term effect

We argue recent advances in advertising (data availability, predictive analytics) suggest increased likelihood of meeting capitalization criteria

- Advertising at intersection of accountability/long-term effects
- Note: increasing trend of advertising meeting this criteria

Capitalization of certain advertising spending would

- Increase transparency about a firm's economic situation
- Better align benefit and cost of advertising spending

Thank you for your attention!



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