
Long-Term Impact of Advertising Phase I

Measurement and Findings

March 2008
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Overview

- **Response metrics**
- **Definition of the long run**
- **How long-run effects build up**
- **Empirical findings**

Response Metrics

- Attitudinal, e.g. awareness, preference
 - High inertia, slow moving
- Transactional, e.g. sales, market share
 - Low inertia, fast moving
- Financial flow, e.g. revenue, profits
- Financial stock, e.g. customer equity, brand equity, stock price
- MASB's focus is on financial metrics

Short and Long-Run Impact

- Short run : immediate effects, distributed lag effects
= temporary lift (followed by mean reversion)
- Long run: persistent impact (no mean reversion)
= permanent lift
- Not tied to specific time subscripts
- These lifts occur at the level of response, but also at the level of advertising spending
- Resulting in four strategic scenarios

Long-run scenarios

	Temporary Lift	Permanent Lift
Temporary spending (campaign)	Business as usual	Hysteresis
Sustained spending (policy)	Escalation	Evolving business

(Dekimpe & Hanssens 1999)

How long-run effects build up: six components

Long-run impact component I

- 1) **immediate response** is as discussed in the MASB TV advertising document. It must be measured *above and beyond* base sales, with either experimental or econometric techniques.
 - temporary lift
 - focus of most advertising research
 - is *essential for the creation of long-run impact*

Long-run impact component II

- **2) carry-over effects reflect delayed buyer response, especially in durable-goods markets. It is often determined either with distributed-lag models, or with intermediate performance metrics (e.g. leads in business-to-business markets).**
 - Result in time-shifting of impact (“dust settling”)
 - Not fundamentally different from short-run effect
 - Immediate + carryover = total temporary lift

Long-run impact component III

- **3) purchase reinforcement refers to repeat-buying as a result of the initial, advertising-induced purchase. It is equivalent to “customer retention” in relationship businesses. Can also build word-of-mouth.**
 - Builds long-run potential
 - Without purchase reinforcement, long-run effect cannot materialize

Long-run impact component IV

- **4) feedback effect is the impact of the initial sales lift on subsequent advertising spending. For example, is the advertising limited to a single campaign, or does it become “policy” as a result of its initial success?**
 - also helps builds the long-run effect
 - however, can result in escalation if response effect wanes

Long-run impact component V

- **5) decision rules refer to the impact of advertising spending on the other parts of the brand's marketing mix. For example, reductions in trade promotions to offset the ad spend, increases in sales calls or retail price to capitalize on positive consumer response to advertising.**
 - Together, they shape the firm's overall marketing strategy
 - Inertia in decision making is part of this
 - Opportunity to create synergy

Long-run impact component VI

- **6) competitive reaction with advertising (which can be share-stealing or category-expanding) and other competitive marketing tactics. The intensity of these reactions can determine the ultimate level of marketing rivalry in an industry**
 - The predominant form of reaction is NO reaction
 - If reaction, often category-enhancing in new markets, share-stealing in established markets

Conclusion on long-run build-up

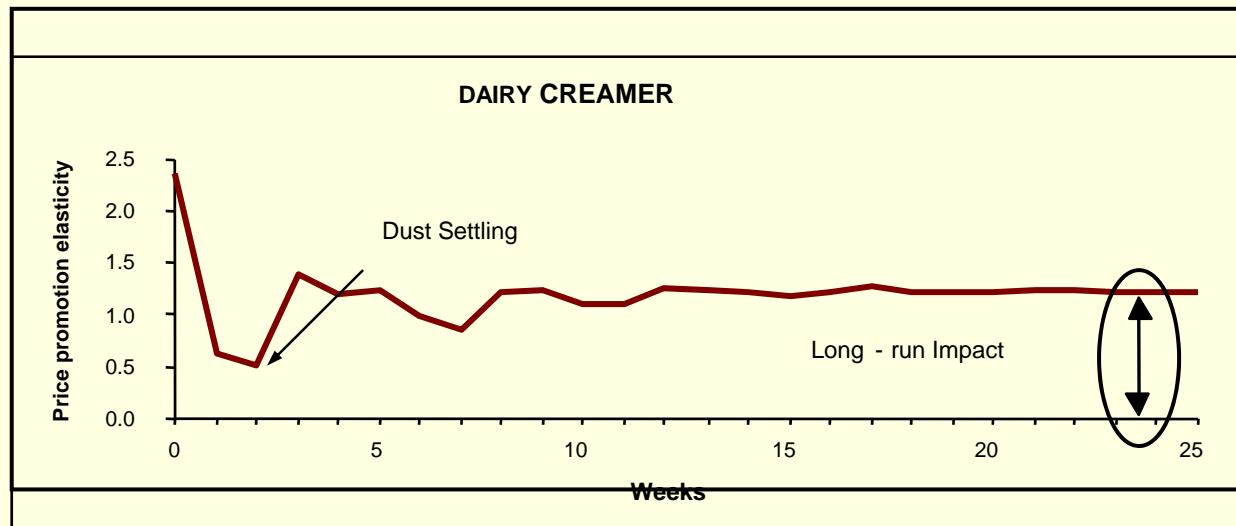
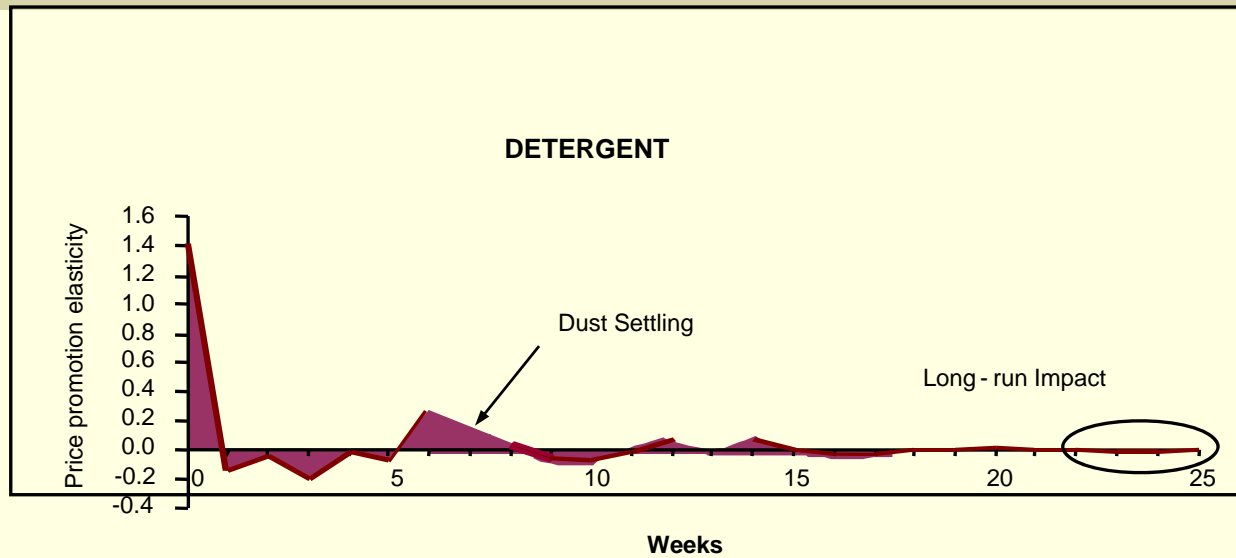
- The “long run” develops as a result of the relative strength of these six components
- Simple example: sustained, effective advertising without competitive reaction is likely to have a stronger long-term impact
- Methods exist for disentangling the effect components
- Several “non-advertising” forces determine the long-run impact of advertising

Empirical Findings: Single Advertising Actions ("campaigns")

Long-term effects: single marketing actions

- **Examples: ad campaigns, sponsorships, promotions etc...**
- **Compare performance before and after over time, after the “dust has settled”**
- **Question: does performance eventually return to pre-action levels ?**
 - **Yes: temporary effects (can be distributed over time)**
 - **No: permanent effects (true long-term)**
- **Good data + modern time-series econometrics provide good answers. Marketing experiments can supplement when data are lacking.**

Dynamics of Single Marketing Effects



Key learnings: single-action impact

- **Return-to-the-mean is the rule, permanent effects are the exception.**
- **Permanent impacts occur almost exclusively in emerging, evolving markets**

Long-term advertising impact

- Most common: smooth decay to mean reversion
- Short-term effect depends mainly on business conditions (e.g. pre-existing awareness, new products)
- Average short-term elasticities: 0.10
 - up to 0.3 for new products
 - 0.05 or less for established products
- Long-term advertising effect = 2 * short-term effect
 - Customers learn quickly, forget slowly
 - Economic effects duration: a few months

Can single marketing actions ever have permanent effects? (hysteresis)

Yes, when customers are still learning, and when marketing support coincides with a temporary competitive product advantage

Occurs rarely in practice

Empirical Findings: Advertising Policies (sustained spending)

Guiding principles

- As most ad campaigns have a temporary impact, long-term effects generally require sustained advertising spending
- This becomes evident when “share of voice” is a significant driver of business performance
- Reduction of short-term consumer response can result in unprofitable spending escalation
- Continuous monitoring of short-term impact is therefore important

Relative importance of six components

- Long-run effect up to five times stronger and longer-lasting than short-term consumer response
- Difference is driven mainly by strategic company actions, *not* by competitor response
 - Support by other marketing-mix variables
 - Inertia

(Pauwels 2004)

Long-term impact of policy shifts

- Defined as a *structural break* in spending pattern (“doing things differently”)
- Important, but harder to measure, fewer case studies
- Lessons from a strategic marketing shift: P&G
- Most policy shifts are gradual or evolutionary

P&G “Value Pricing” strategy

- Two years of *sustained* shift to fewer promotions and more advertising in 24 categories, featuring 118 brands
- On average, P&G market share was down 16%
- But net profit increased by over \$ 1 billion !
- Transfer of promotion savings to advertising (\$260 million) was not essential
- Is the shareholder better off ?

(Ailawadi, Lehmann & Neslin 2001)

Empirical Findings: Shareholder Value

What about the ultimate long-run metric, stock price ?

- Is the only available database on the future (expectations space)
- Surprisingly long-term oriented
 - Investors see through earnings management games
 - Reward innovators, punish sales promoters
- Advertising is found to have a small but positive impact on stock returns (Joshi & Hanssens 2007)

What's Next?

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- ?
- ?

Some References

- K.Ailawadi, D.Lehmann & S.Neslin, "Market Response to a Major Policy Change in the Marketing Mix: Learning from P&G's Value Pricing Strategy," *Journal of Marketing*, January 2001.
- M.Dekimpe and D.Hanssens, "Sustained Spending and Persistent Response: A New Look at Long-Term Marketing Profitability," *Journal of Marketing Research*, November 1999.
- M. Dekimpe and D.Hanssens, "Models for the Financial Performance Effects of Marketing," in *Handbook of Marketing Decision Models*, B. Wierenga (Ed.), Springer Science, forthcoming, 2008.
- T. Doganoglu & D. Klapper, "Goodwill and Dynamic Advertising Strategies," *Quantitative Marketing & Economics*, 4, 2006.
- S. Gupta, "Impact of Sales Promotions on When, What and How Much to Buy," *Journal of Marketing Research*, November 1988.
- D.Hanssens, L.Parsons and R.Schultz. *Market Response Models: Econometric and Time Series Analysis*, 2nd Edition, Kluwer, 2001.
- D.Hanssens & M. Ouyang, "Hysteresis in Market Response: When is Marketing Spending an Investment?" *Review of Marketing Science*, 419, 2002.

- A. Joshi & D. Hanssens, “Advertising Spending and Stock Return.” UCLA Marketing Studies Center Working Paper, Revised, December 2007.
- K. Pauwels, “How Dynamic Consumer Response, Competitor Response, Company Support, and Company Inertia Shape Long-Term Marketing Effectiveness,” *Marketing Science*, Fall 2004.
- K.Pauwels, D.Hanssens & S.Siddarth, “The Long-Term Effects of Price Promotions on Category Incidence, Brand Choice and Purchase Quantity,” *Journal of Marketing Research*, November 2002.
- K.Pauwels & D.Hanssens, “Performance Regimes and Marketing Policy Shifts,” *Marketing Science*, May-June 2007.
- Tellis, G. & T. Ambler. *The Sage Handbook of Advertising*. Sage Publications, 2007.



Thank-you!



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