International Journal of Research in Marketing 33 (2016) 236–239

Contents lists available at ScienceDirect

Intern. J. of Research in Marketing

journal homepage: www.elsevier.com/locate/ijresmar

Replication

Revisiting firm-created word of mouth: High-value versus low-value seed selection

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ARTICLE INFO

Article history:
First received on April 28, 2015 and was under review for 5½ months
Available online 19 January 2016

Replication Editor: Eric T. Bradlow

Keywords:
Product seeding
Word-of-mouth marketing
Replication

ABSTRACT

A field test similar to Godes and Mayzlin's (2009) conceptually replicates the sales effect of word-of-mouth campaigns and empirically confirms Haenlein and Libai's (2013) findings that seeds with high value to the brand are preferred among noncustomers of the product because they show the largest effect on incremental sales. Seeds with low value to the brand, as in Godes and Mayzlin's study, may be preferred if marketers are limited to work with product customers only. Additionally, those peers that are unaware of the campaign product, but have bought the brand in the past are mainly responsible for incremental sales.

1. Introduction

Godes and Mayzlin (2009; henceforward G&M09) first identified the positive, incremental sales effect of firm-created word-of-mouth (WOM) campaigns or "seeding programs" (Haenlein & Libai, 2013; henceforward H&L13). In such campaigns, volunteer seeds receive product information and samples, then recommend the campaign product to their many peers (Berger & Schwartz, 2011). Selecting seeds is a critical strategy; using network assortativity concepts (Aral, 2011), G&M09 suggest selecting unaware noncustomers or less valuable customers of the campaign product—both called non-loyal consumers—as seeds, because they are more likely to know equally unaware and untapped peers. In a field test, G&M09 find a weakly significant incremental sales effect only for the WOM activity of non-loyal seeds. This idea is supported by Kumar, Petersen, and Leone (2007, 2010) who find that targeting customers with low referral value leads to higher incremental profits. In contrast, H&L13 suggest selecting seeds with high prior customer value to the brand, because more valuable seeds know more valuable peers. They confirm this notion in an agent-based simulation.

Faced with two seemingly conflicting seed selection strategies, we seek to conceptually replicate the G&M09 field test and re-investigate the incremental sales effect of a WOM campaign with seeds of higher or lower value to the brand. We use actual WOM campaign data and run a comparable sales regression model. The results may partly resolve the seemingly conflicting recommendations of G&M09 and H&L13. Their recommendations conflict, we argue, because these authors study different stages of the campaign product life cycle, with different availability of certain seed types.

Both G&M09 and H&L13 select seeds to reach peers unaware of the campaign product in order to generate incremental sales. But H&L13 consider a product innovation, so no seed is aware of or consumes the campaign product. Optimal seeding targets valuable consumers—necessarily based on prior brand consumption history—because these seeds likely know more valuable peers.

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http://dx.doi.org/10.1016/j.ijresmar.2016.01.002
0167-8116/

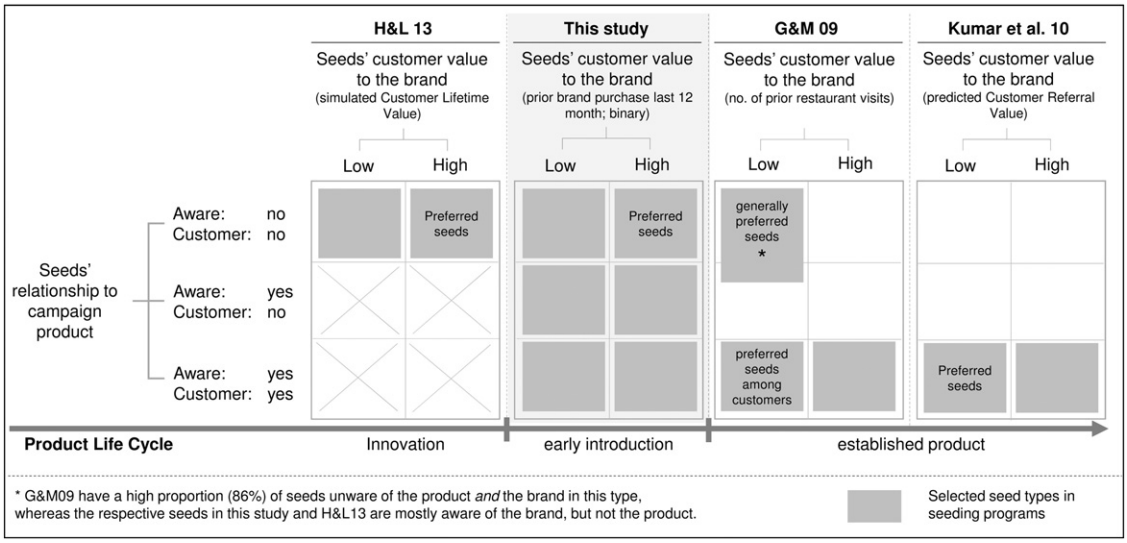

Fig. 1. Studied seed types in related literature.

Instead, G&M09 consider an established product with low awareness of product and brand. Similar to Kumar et al. (2007, 2010), they can select existing product customers, with higher or lower value to the brand—called loyal and less loyal customers. They assume that loyal customers have spread WOM previously, so peers are already aware of the product and have either adopted or not. Consequently, they favor selecting less loyal customers as seeds. Alternatively, G&M09 can draw from a group of product noncustomers (mostly unaware of product and brand), whom they consider comparable to less loyal customers. Integrating these considerations, Fig. 1 shows that seeds can be unaware noncustomers, aware noncustomers, or customers of the campaign product, while also differing in their prior customer value towards the brand. The current study extends the research stream to these six seed types. Furthermore, this study validates the network assortativity-based arguments of H&L13 and G&M09 by including data from WOM-receiving peers.

2. Field test design and models

Our WOM campaign selected 15,000 seeds from a WOM agency panel. It ran for eight weeks in a European market with no other marketing activity in parallel (see Table 1 for study settings and the respective settings in G&M09). The campaign featured a new soft drink by a well-known brand.[2] The recently introduced soft drink was available before the campaign but still low in product awareness, similar to G&M09. A key difference, however, is the high brand awareness in our study. While the unaware noncustomers in G&M09 include many seeds completely unaware of the product and brand, our respective seeds are mostly aware of the brand.

To determine seed type in our study, seeds stated whether they knew the campaign product (aware/unaware), and whether they bought this product before the campaign (customer/noncustomer). Furthermore, they stated whether they bought the brand in the last year (yes/no: high/low value customer), which is a different and weaker proxy measure of customer value compared to the Customer Lifetime Value simulated in H&L13, and also compared to the restaurant visits measured in G&M09.

Thus, our study differs from G&M09 regarding product category, product life cycle stage, brand awareness, and measures of customer value. It is, in the broadest sense, a conceptual replication.

We counted and aggregated WOM reports by seed type, week, and region to generate WOM activity variables for the model. The weeks and regions correspond to the 8 weeks and 11 sub-regions of sales data. Seeds could share survey cards among their peers (Carl, McGlinn, & Oles, 2007). We considered all peer survey counts as a measure of received WOM. By aggregating across self-reported peer type, week, and region, we generated the received WOM variables.

Similar to G&M09, our model structure is:

$$Sales_{it} = \sum_{c \in C} \omega_{it}^{c} \cdot WOM_{it}^{c} + \sum_{i=1}^{11} \mu_i + \sum_{t=1}^{8} \tau_t + \varepsilon_{it},$$

where $Sales_{it}$ is unit sales in region i in week t; WOM_{it}^{c} represents the WOM counts (seed or peer) in region i in week t, with c indicating the respective condition of the six seed/peer types; and μ_i accounts for differences between regions, τ_t for week effects, and ε_{it} is the normally distributed error term.

[2] At the request of the WOM agency and brand, we do not reveal specific names or precise revenues.