

Chapter 11

Measuring the Effectiveness of Neurosensory Marketing Strategies

Renu Bala

Chaudhary Devi Lal University, India

Reena Malik

Chitkara University, India

ABSTRACT

NEUROSENSORY MARKETING

Neurosensory marketing, an emerging field at the intersection of neuroscience and marketing, aims to decode the complex relationships between sensory stimuli and consumer behavior. It involves studying how sensory experiences—sight, sound, smell, taste, and touch—influence perceptions, emotions, and purchasing decisions (*Sharma et al., 2023*). This innovative approach provides a deeper understanding of the unconscious processes driving consumer preferences, enabling brands to create more engaging and effective marketing strategies. The foundation of neurosensory marketing lies in the recognition that human senses significantly shape our experiences and decisions. Each sensory input has the potential to evoke emotional responses and associations that can profoundly impact consumer behavior. Visual stimuli, for example, are powerful influencers. Colors, shapes, and designs can trigger specific emotions and perceptions. For instance, the color red is often associated

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with excitement and urgency, making it a popular choice for clearance sales and promotions (*Schneider and Woolgar, 2015*). Similarly, aesthetically pleasing packaging can enhance perceived product quality and attractiveness. Auditory stimuli also play a crucial role in consumer experiences. Background music in stores, jingles in advertisements, and specific sounds cues can create an emotional ambiance that influences shopping behavior. Research has shown that music tempo can affect the pace at which consumers browse and shop. Slow music tends to encourage leisurely shopping, while fast-paced music can lead to quicker decision-making and increased turnover in retail environments (*Schneider and Woolgar, 2012*).

Olfactory stimuli, or scents, are particularly potent in evoking memories and emotional responses. A pleasant fragrance can enhance the overall shopping experience, increase dwell time, and positively influence purchase decisions (*Sawrov, 2023*). Scent branding, where specific fragrances are associated with a brand, is a growing trend. For example, many luxury hotels use signature scents to create a distinctive and memorable atmosphere for their guests. Tactile stimuli, or the sense of touch, are equally important. The texture, weight, and temperature of a product can influence consumers' perceptions of quality and value. Allowing customers to physically interact with products can increase their confidence in their purchase decisions. This is particularly relevant in the era of e-commerce, where tactile experiences are limited (*Ramanjaneyalu, 2021*). Brands are exploring ways to replicate these sensory experiences online, such as through detailed product descriptions, high-quality images, and virtual try-ons.

Taste, though less commonly exploited in marketing due to its direct association with food and beverages, is also a powerful sensory input. Sampling campaigns, where consumers can taste a product before purchasing, are a direct application of neurosensory marketing in the food industry. The technological advancements in neuroscience have significantly bolstered the capabilities of neurosensory marketing (*Prakash et al., 2021*). Tools like eye-tracking, electroencephalography (EEG), and functional magnetic resonance imaging (fMRI) allow researchers to observe and measure consumers' neurological and physiological responses to various stimuli. These technologies provide insights into how sensory inputs are processed in the brain, revealing the pathways through which they influence emotions and decisions. Eye-tracking technology, for instance, helps in understanding which elements of a product or advertisement capture attention. EEG and fMRI can measure brain activity in response to sensory stimuli, providing a deeper understanding of emotional and cognitive reactions (*Qutb et al., 2024*). These insights enable marketers to design more precise and impactful sensory experiences. The benefits of neurosensory marketing are multifaceted. By appealing directly to consumers' senses and emotions, brands can create more memorable and engaging experiences (Bhardwaj, Kaushik, & Arora (2024); Taneja, Shukla & Arora (2024); Malik, Malhan & Arora (2024).

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