

Chapter 11

Leveraging Neuromarketing Technologies to Enhance Agile Marketing Strategies: A Study on Consumer Behavior Insights and Real-Time Adaptation

Shashank Mittal

O.P. Jindal Global University, India

Ashutosh Pandey

 <https://orcid.org/0000-0002-8255-8459>

FORE School of Management, New Delhi, India

Ajay Chandel

 <https://orcid.org/0000-0002-4585-6406>

Lovely Professional University, India

Ta Huy Hung

 <https://orcid.org/0009-0008-6835-3036>

Vietnam National University, Hanoi, Vietnam

ABSTRACT

This chapter explores the intersection of neuromarketing and agile marketing,

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emphasizing how leveraging neuromarketing technologies can enhance agile marketing strategies. By integrating insights from neuromarketing, which studies consumer brain responses and behaviors, with the flexible, real-time approach of agile marketing, brands can achieve more personalized and effective campaigns. The chapter discusses key trends, including the role of Artificial Intelligence (AI), hyper-personalization, and real-time data analytics, as well as emerging technologies like Virtual Reality (VR) and Augmented Reality (AR). It also addresses challenges such as data privacy and the need for ethical practices. By examining these elements, the chapter provides a comprehensive overview of how combining neuromarketing and agile methodologies can drive innovation and improve consumer engagement in modern marketing.

INTRODUCTION

In a dynamic market, where consumer behavior changes almost daily, businesses have no choice but to be very fast in adopting the same if they have to remain afloat and thrive. Traditionally, most marketing concepts employed had long-term strategies that seldom changed. In a world driven by instant gratification and rapid technology changes, such approaches are no longer viable. Companies have more recently turned toward agile marketing as a strategy that emphasizes flexibility, speed, and responsiveness. Agile Marketing, with a base much in agile software development, is focused on small, incremental steps toward business goals such that one can quickly turn in response to new information or a change in the market. But agility is not enough; businesses need to understand the intricacies of consumer behaviour if they are going to make decisions that are informed and effective. This is where the revolutionary field of neuromarketing comes in, with very strong tools to decipher the subconscious drivers of consumer behavior (Brenninkmeijer et al., 2019).

The most straightforward description of neuromarketing would be that it is a discipline that merges the insights of neuroscience with the principles of marketing. It makes use of sophisticated technologies like EEG, fMRI, and eye-tracking for monitoring and analyzing brain responses to marketing stimuli. These technologies help marketers to better understand what is going on in the minds of customers, revealing emotional and cognitive subliminal reactions to advertising, products, and brand messages. Neuromarketing uses point-blank and unbiased measurement techniques of real consumer subliminal feelings and thoughts instead of the self-reported data obtained through classical research methods, which would naturally be prone to bias or misinterpretation. Knowing and understanding the brain in this regard is worth gold to marketers looking to create campaigns that are on a more personal level (Frederick, 2022).

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