Incentive Designs with Uncertainty: Keeping the Hope Alive

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Short Abstract

Uncertainty is increasingly leveraged in marketing programs to enhance consumer

engagement, but its optimal use in effort-payoff conversion remains unclear. This research

investigates two approaches: uncertainty introduced between effort and score (1st-degree

uncertainty) and uncertainty introduced between score and payoff (2nd-degree uncertainty).

Across six real-effort, real-pay experiments (total N = 1,472), we demonstrate that 2nd-

degree uncertainty consistently drives greater effort investment. Participants exerted more

sustained effort in a tedious task when the payoff conversion rate remained uncertain until the

end, compared to when uncertainty was resolved earlier in the process. We ruled out

alternative explanations such as medium maximization and magical thinking. Our findings

suggest that the motivational power of 2nd-degree uncertainty may stem from the hope of

achieving an optimal outcome, offering actionable insights for designing incentives that

maximize consumer engagement.

Keywords: Uncertainty, Hope, Incentive design

Track: Consumer behavior