USING VIRTUAL REALITY TO REDUCE CHOICE **UNCERTAINTY IN DISCRETE CHOICE EXPERIMENTS**

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BACKGROUND

In choice experiments (CE) and stated preference (SP) studies in general, choice uncertainty has been a major criticism. Due to the often abstracted environments in which traditional CE's like text- or video-based surveys are conducted, respondents might find it **difficult to imagine** how their choices would affect them in real life. Uncertainty about the non-market good will increase valuation variability and may cause problems for the estimation of the willingness-to-pay (WTP).

RESEARCH HYPOTHESES





Compared to video-based surveys, respondents feel more certain about their choices in a virtual reality (VR) experiment





METHODOLOGY





significantly increased compared to text-based surveys

CONCLUSION

In choice experiments, using virtual reality as a survey mode significantly increases choice certainty in comparison to traditional text-based surveys



By using VR, respondents' self-reported certainty did not significantly increase compared to video-based surveys

This result is particularly useful towards researchers and companies who seek to elicit respondent or customer preferences towards a non-market good through choice experiments



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