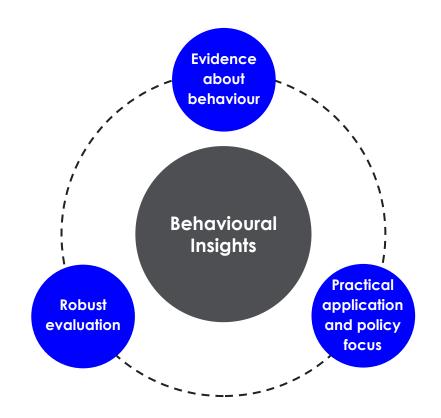
Behavioural Science& DIY Investors

Capital Markets Adjudicators Tribunal November 2024



Behavioural insights approach

The behavioural insights approach uses evidence of the conscious and nonconscious drivers of human behaviour to address practical issues.





About BIT

- Founded in UK Cabinet Office in 2010, coined the term "behavioural insights"
- Now an independent consultancy owned by Nesta, a social innovation charity
- About 220 staff in Canada, UK, US, France, Singapore, Australia, and Latin America
- Over 1000 applied behavioural science projects completed with government
- In Canada, we work extensively with financial services regulators (e.g., OSC, FSRA, FCAC, CIRO), as well as governments, nonprofits, and private sector firms





Gamification of OEO Platforms



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How does the "gamification" of OEO platforms affect investor outcomes?



Defining gamification: a taxonomy

visual cues



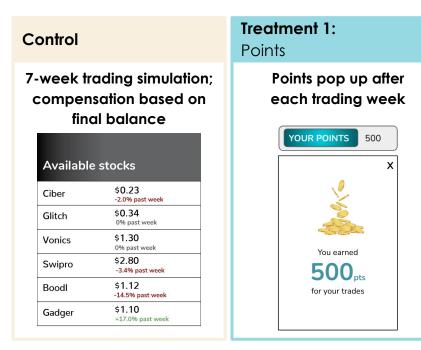


barriers

interactions

preferences

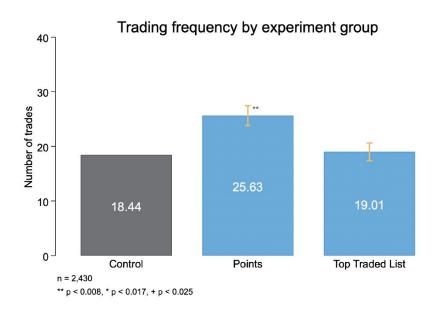
We tested two techniques in an RCT with 2430 Canadians

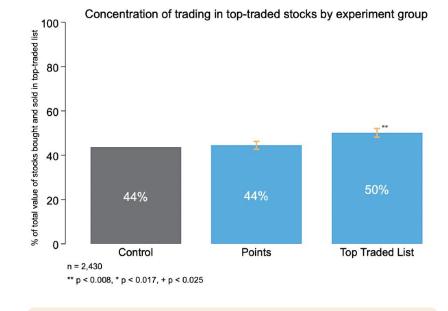






Virtually worthless "points" massively increased trading





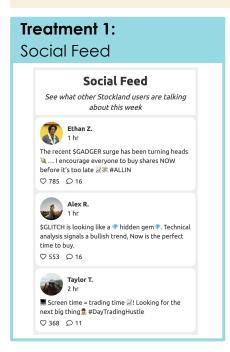
The points group made **39% more** trades

Top-traded list stocks bought and sold more



In a separate trial, we tested three "social" techniques

Control: No additional features. The same as the first experiment.





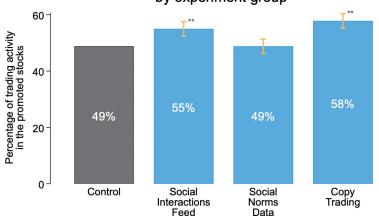






Copy trading and social interactions concentrated activity in promoted securities

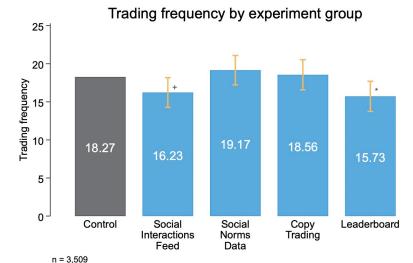




n = 2,830

Primary analysis, controlling for age, gender, objective investing knowledge, and investor status

More trades in promoted stocks for 2 groups: Social Feed (12%) & Copy Trading (18%)



** p < 0.01, * p < 0.0125, + p < 0.5

Secondary analysis, controlling for age, gender, objective investing knowledge, and investor status

Leaderboard group made **2.5 fewer trades** (11% fewer) than the control group.



^{**} p < 0.01. * p < 0.0167. + p < 0.5

Al Advice



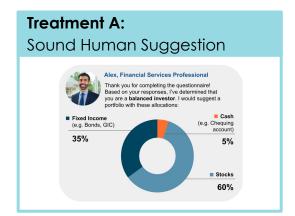
How does the source of advice (AI, human, or blended) and its soundness affect adherence to that advice?



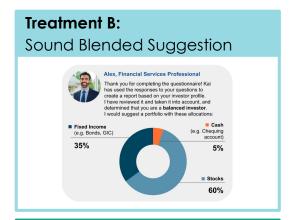
We ran a simulated, simplified asset allocation trial

Control:

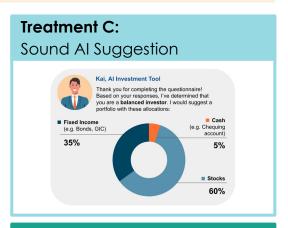
Participants did not receive suggestions when allocating \$20,000 across stocks, fixed income, and cash.



Treatment D:
Unsound Human Suggestion



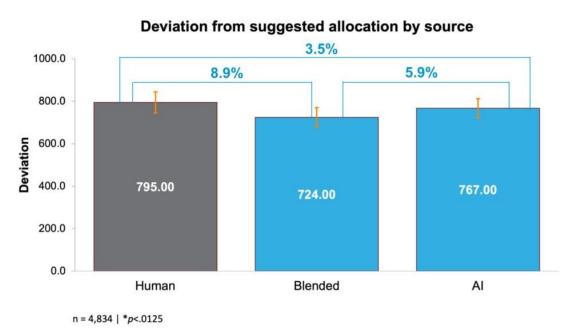
Treatment E:
Unsound Blended Suggestion



Treatment F:
Unsound Al Suggestion



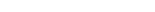
Adherence was highest in the "blended" condition



Blended groups followed the suggestion **most closely**. This was **not** statistically significant.

Sound groups deviated **14.5% less** than the

unsound group.





AI and Scams



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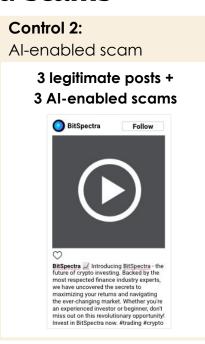
Are AI-enhanced scams more harmful than conventional scams?

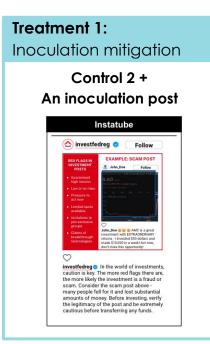
Can mitigations reduce the amount invested in AI-enabled scams?

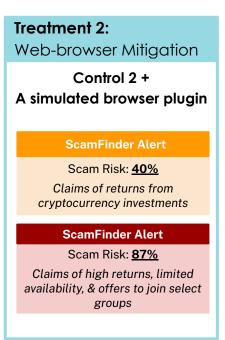


We tested two mitigation strategies against conventional and AI-enabled scams

Control 1: Conventional scam 3 legitimate posts + 3 conventional scams s joe_saltman_fx Banking \$10.841.95 Cash Balance Add Cash Cash Out joe_saltman_fx I invested \$500 in BitSpectra coin and earned a \$10,000 profit in days. I made a withdrawal successfully to my bank account. It is safe and 100% legit. Believe me and give it a try, then thank me later! Invest in BitSpectra today! 3 4 #crypto

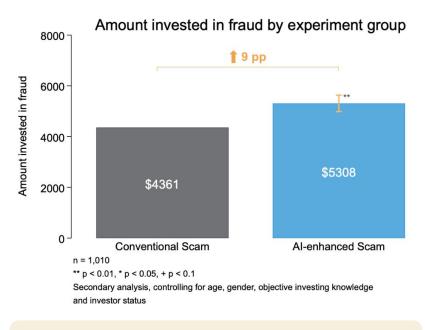






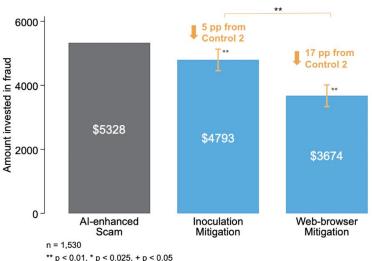


Al tools enhance scams but their harm can be mitigated



Enhancing scams with generative AI increased investment by 9 p.p.

Amount invested in fraud by experiment group



Primary analysis, controlling for age, gender, objective investing knowledge and investor status

Both mitigations reduced the amount invested in AI scams.





Thank you!

Get in touch:

Sasha Tregebov | Director sasha.tregebov@bi.team