

Deciding What to Know: Individual Differences in Information-seeking

Affect

 (β_2)

0.5

Cognition

Cognition

Cognitive-

Group

Dominant

Cluster Number

***P < 0.001

Action-

Dominant

Group

0.6

Action, Affect and Cognition drive information-seeking.

Individuals classified into 3 "Information-seeking Types" –

each characterized by a dominant motive when seeking information.

18900 Winning

Till 18800 Model

18300

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Action

Affect-

Dominant

Group •

Action (β_1)

Affect (β_2)

Cognition (β_3)

Aim

How do people decide what they want to know?

- 1. We test the hypothesis that when deciding whether to seek personal information, people estimate the likely influence of information on their Action, Affect and Cognition¹.
- I. Action will information help me make better decisions?
- II. Affect will information induce positive or negative feelings?
- III. Cognition will information help me to comprehend reality?
 We further test:
- 2. Whether people can be characterized into "information-seeking types" based on the relative weights they put on Action, Affect & Cognition when seeking information. If so, are these "information-seeking types" stable over time?
- 3. Whether this classification is related to mental health.

Method

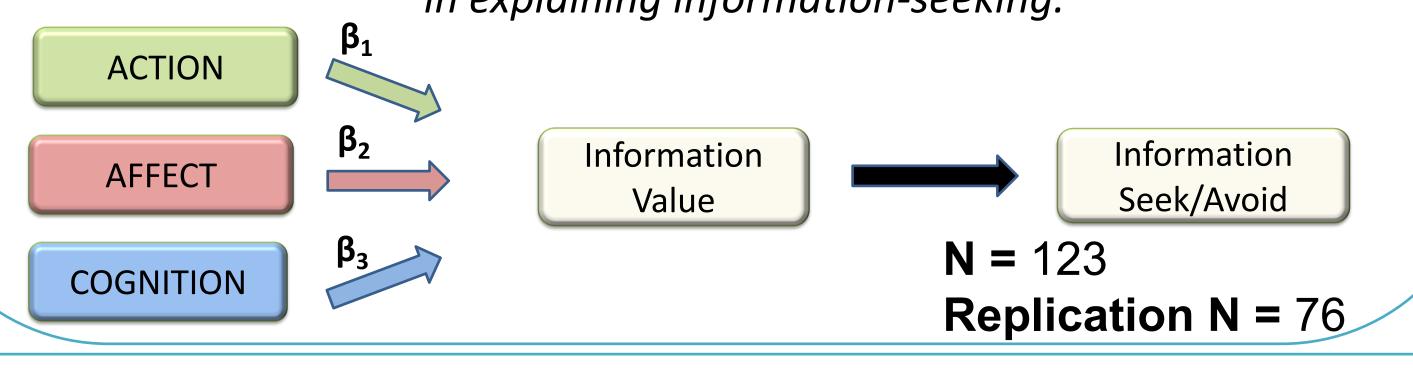
- 1. **Measure of Information-Seeking** (40 Trials)

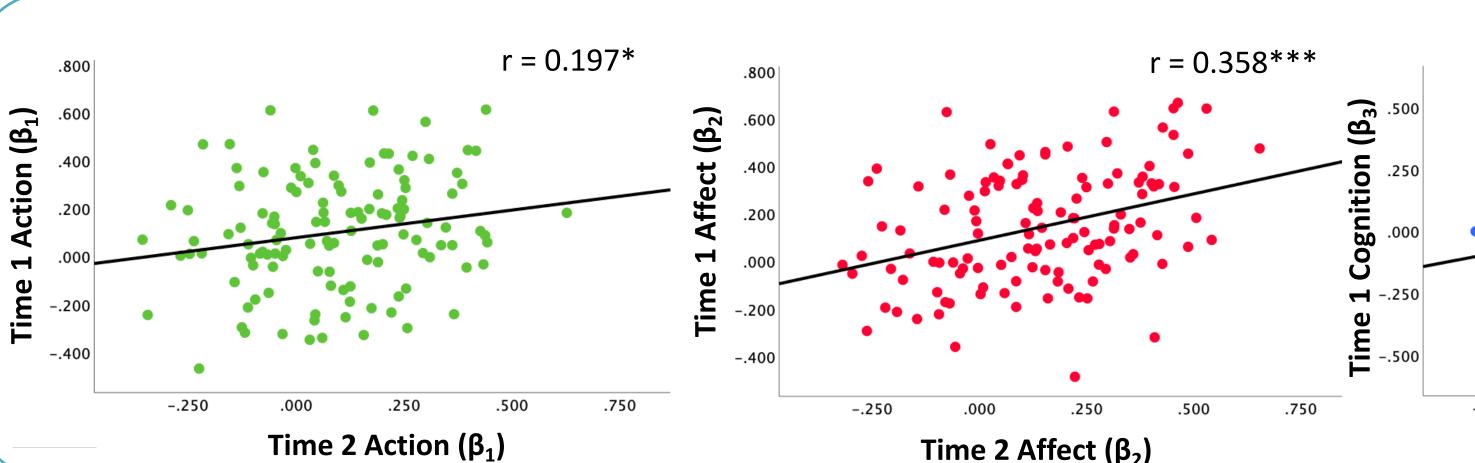
 Do you want to know whether others see you as Mean, Honest...?
- 2. **Measure of Estimated Impact on Action** (40 Trials)

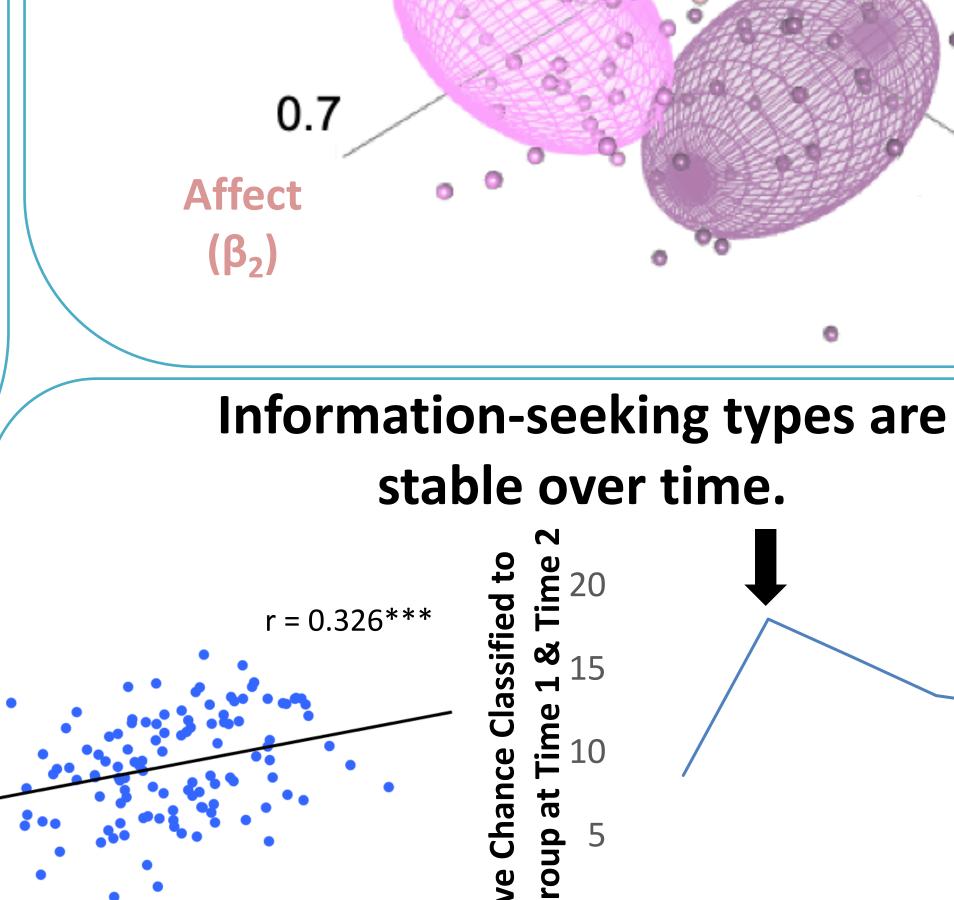
 How USEFUL would it be to know whether others see you as Mean, Honest...?
- 3. Measure of Estimated Impact on Affect (40 Trials)
- (i) How would you FEEL if you knew whether others see you as Mean, Honest...?
- (ii) How would you FEEL if you NEVER knew whether others see you as Mean...?

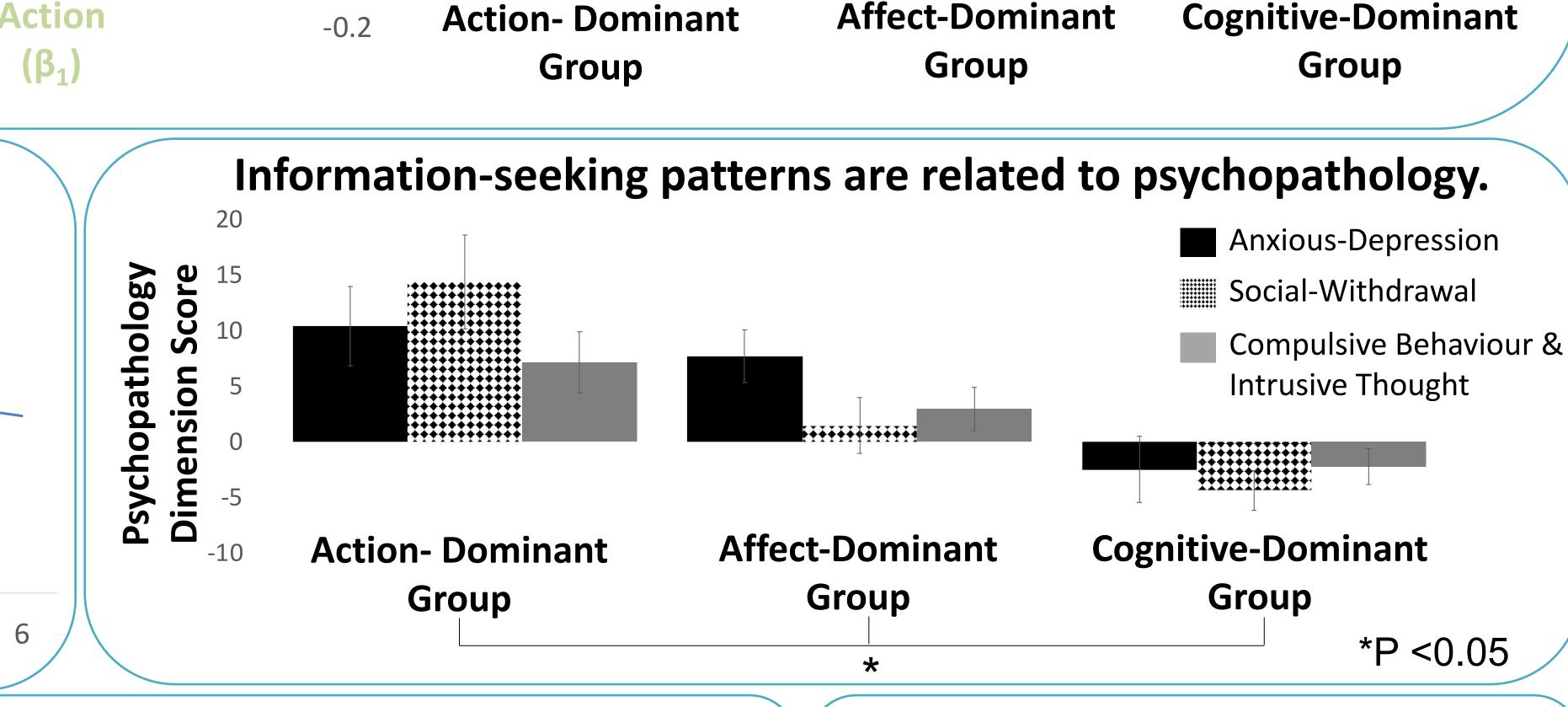
 Affect = difference between the two affect questions.
- 4. Measure of Estimated Impact on Cognition (40 Trials) How OFTEN do you think about Meanness, Honesty...?
- 5. Measure of Psychopathology Symptoms²

We used a linear regression to calculate weights on Action, Affect & Cognition in explaining information-seeking.









Conclusion

Time 2 Cognition (β_3)

- Participants' expectations of how information will influence their Action, Affect and Cognition predicted information-seeking.
- There are 3 types of information seekers: Action-Dominant (predominately seek information that would make them feel good) & Cognitive-Dominant (predominately seek information about stimuli they frequently think about).
- Information-seeking types are stable over time.
- The Cognitive-Dominant Group report less psychopathology symptoms.

References

- Sharot, T. & Sunstein, C. R. How People Decide What They Want To Know. *Nature Human Behaviour* (2020): 1-6
- Gillan, C. M., Kosinski, M., Whelan, R., Phelps, E. A. & Daw, N. D. Characterizing a psychiatric symptom dimension related to deficits in goal directed control. *Elife* (2016)