

#### Identifying transdiagnostic socio-cognitive profiles across 4 clinical populations

Alix Bigot, Philippe de Timary, Camille Amadieu, Sophie Leclercq, Thierry H. Pham, Xavier Saloppé, Luca Tiberi, Jean-Louis Nandrino, Jean-Charles Peeters, Henryk Bukowski

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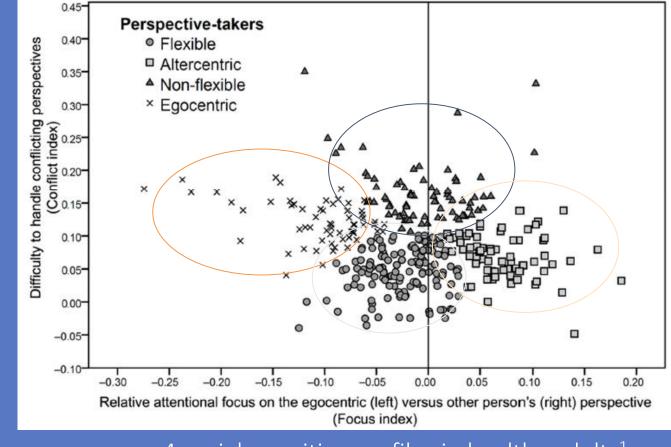
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# Identifying transdiagnostic socio-cognitive profiles across 4 clinical populations

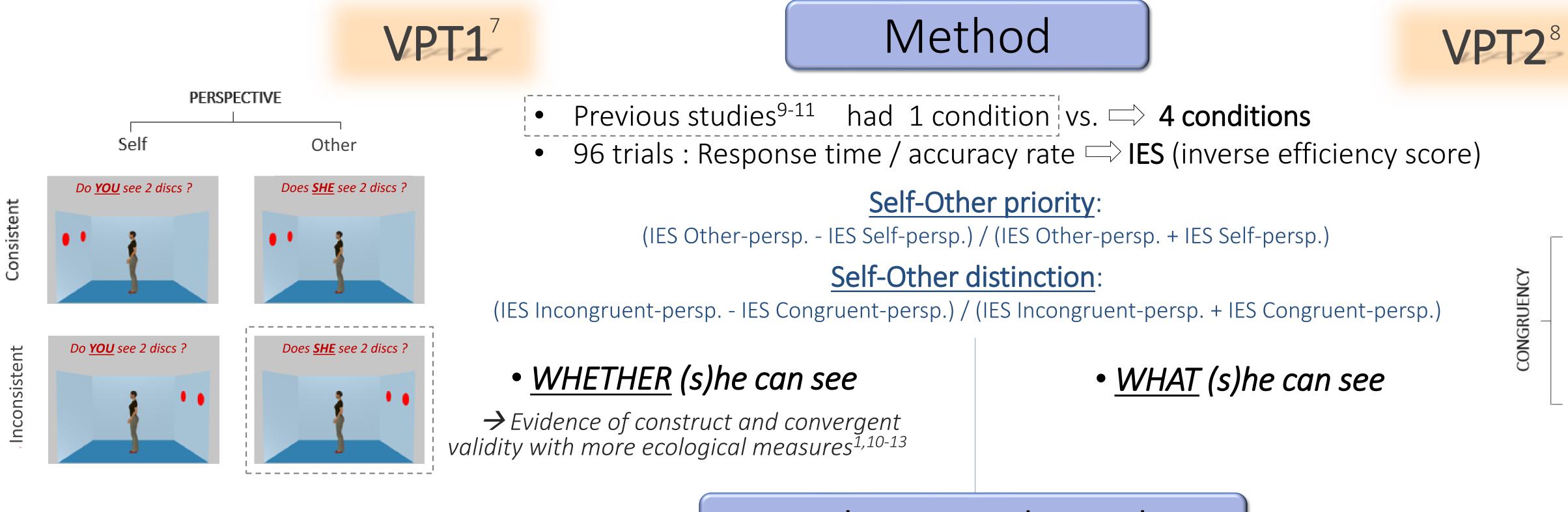
#### Bigot, A.\*, De Timary, P., Amadieu, C., Leclercq, S., Pham, T., Saloppé, X., Tiberi, L., Nandrino, JL., Peeters, JC., Bukowski, H. (2022) UCLouvain IPSY StoNS Université de Lille

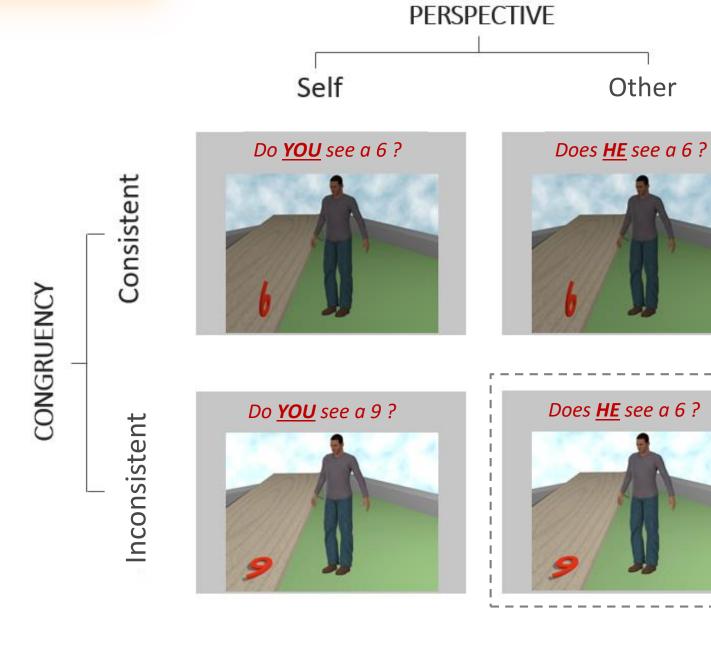
## Introduction

- Distinct profiles of *perspective-takers* found in healthy participants<sup>1,2</sup>.
- Socio-cognitive impairments and interpersonal difficulties are frequently observed in various mental disorders<sup>4-5</sup>.
- o But inconsistent findings: possibly due to overreliance on single-score and self-report measures, and unaccounted heterogeneity within populations sharing the same diagnosis  $\implies$  Multidimensional and transdiagnostic assessment of social cognition<sup>1,6</sup>.
- We examined socio-cognitive performance across **two dimensions**<sup>6</sup> posited to underpin mentalizing skills across all populations
  - Self-Other Priority: the tendency to *focus* more (or attentionally prioritize) on one perspective compared to the other.
  - Self-Other Distinction: the ability to handle conflicting perspectives and inhibit the interference.



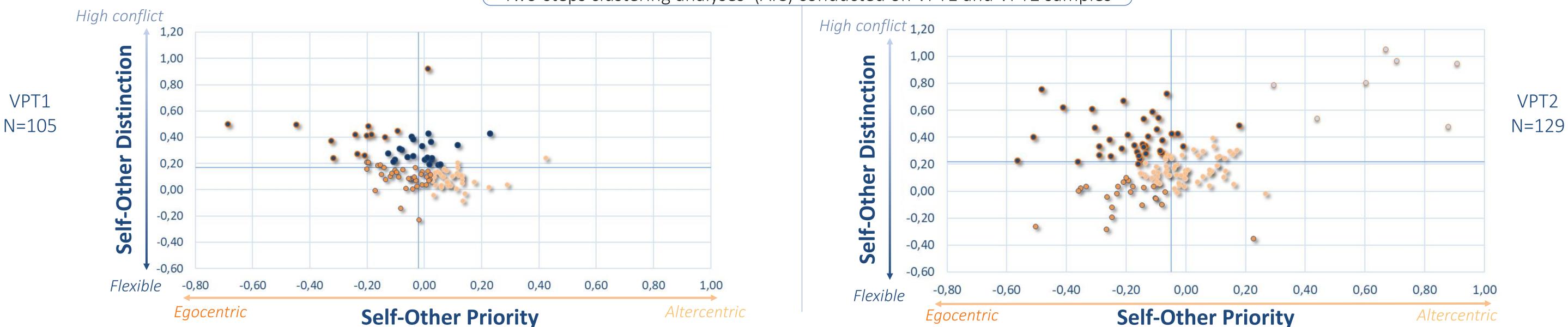
4 social-cognitive profiles in healthy adults<sup>1</sup>

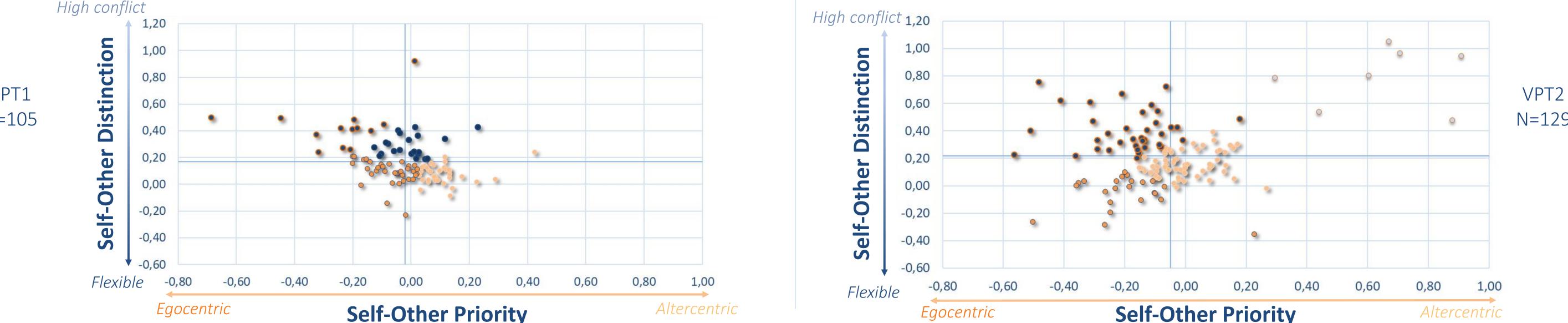




## Analyses and results

Two-steps clustering analyses (AIC) conducted on VPT1 and VPT2 samples





CONGRUENCY

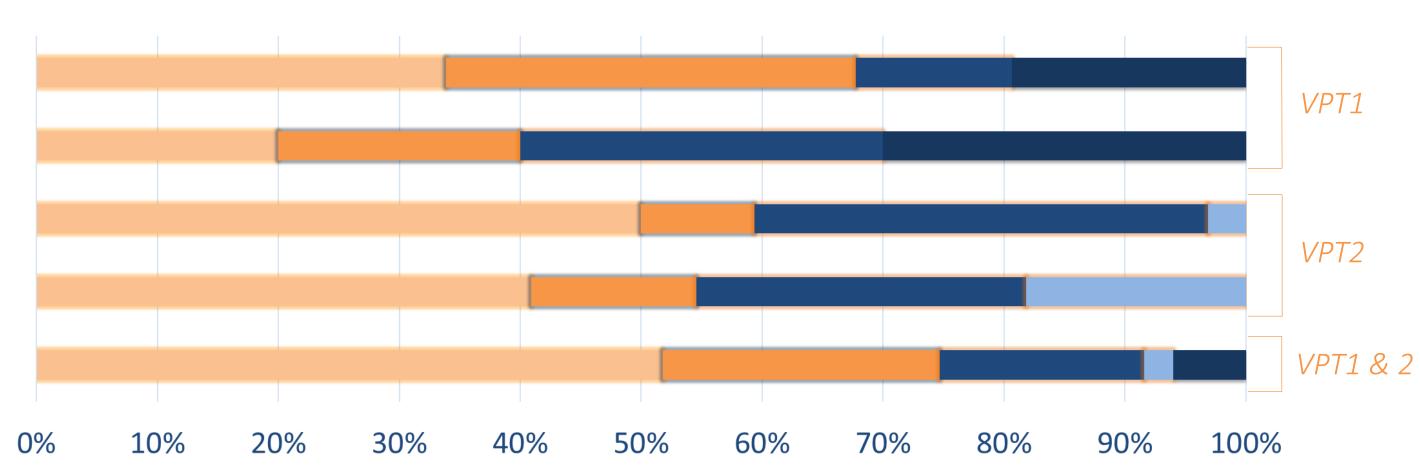
\*alix.bigot@uclouvain.be

### **Transdiagnostic socio-cognitive profiles:**

Conflicted and egocentric

Flexible and altercentric

Alcohol use disorder (N=62) Psychotic disorder (N=10) Restrictive anorexia (N=32) Antisocial personality (N=22) Control (N=83)



## 3 main results:

Conflicted

High individual differences along both dimensions 

Conflicted and altercentric

- 3 similar clusters across VPT1 and VPT2
- Heterogeneity of profiles within same-diagnosis populations

(1) Distinct transdiagnostic socio-cognitive profiles identified via 2-dimensional assessment : Self-Other Priority and Self-Other Distinction.

(2) Replicates and extends previous studies conducted on healthy students in cognitive and affective  $PT^{1,2}$ .

Flexible and egocentric

(3) Heterogeneity of profiles despite same diagnosis across 4 clinical populations (alcohol use disorder, psychotic disorder, restrictive anorexia, antisocial personality).

Discussion

(4) Three socio-cognitive profiles irrespective of PT task (flexible and altercentric, flexible and egocentric, conflicted and egocentric)

 $\rightarrow$  common basic processes/profiles underlying individual differences.

(5) Subtypes of 'mentalizing deficit' (instead of present/absent) : Excessively egocentric, excessively altercentric, conflicted, or a combination of deficits...

#### Perspectives and limitations

- (1) Rehabilitation / personalized training programs adapted to specific socio-cognitive profile.
- (2) Foundation for transdiagnostic collaboration.
- (3) Extension to other populations (collaborations welcomed O )
- (4) New PT tool with 8 sub-dimensions in development.
- (1) PRELIMINARY DATA  $\rightarrow$  small sample sizes
- $\rightarrow$  unrepresentative samples (for now).
- (2) Unmatched controls, no covariates currently included (demographics, questionnaires, ...).
- (3) Assessment via distinct tasks for distinct populations.

(4) Cluster partitions variation (parameters and indexes), as reported in previous study<sup>1,5</sup>.

References