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Health Behaviour, Promotion and Disease Prevention Social cognition models:

Intentions as a predictor of behaviour, cognition precedes behaviour, decision making planned and rational.

Low predictive validity planned and actional. Dual process models: unplanned behaviour (Many & Dolon, 2009)

★ How do these behaviours occur?

Behavioural economics: irrational choices and 'nudging' (Their & Sc X Why does nudging work? Post hoc meta-regression of behaviour change interventions: effective

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Embodied Cognitive Science and Affordances

Challenges to mainstream cognitive psychology:

- Traditional cognitive science and representationalist social cognition models dualistic and self-fulfilling.
- Perception and action are inseparable, should be understood in terms of situated action (Contall, 1984).

ibson's ecological psychology (1979):

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- Affordances: directly perceived action potentials, represent meaning
- Inherently relational, located at the relation of objects within the environment and the dispositional characteristics of an individual names, 2009.

 Individuals act upon canonical (first-order) meanings of an affordance.
- Based upon context and individual's history of experiencing the culturally normative uses of the object in similar contexts.



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Assessing Affordances for Action

 Can contemporary ideas about affordances and embodied cognitive science explain risky alcohol consumption in context?

Challenges for Theory:

Moving beyond the limitations of mainstream psychological theory and health behaviour models to provide a testable theory of affordances and perception-action hypotheses

Challenges for Methods:

- Observing and assessing relational affordances which cannot be independently observed.
 - Investigating complex social and health risk behaviours: typically simple perception-action relations i.e. grasping, climbing stairs or catching a ball



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Stage 1: Assessing Affordances - Independent Observer r effective is the affordance concept for assessing the functi istics of licensed premises where alcohol is consumed? Method: A non-participant observational study in seven different UK licensed premises. Systematical and evaluative approach of affordances by an independent observer. Qualitative data analysis: established a coding and categorisation framework for affordances, functional taxonomy and visual maps Findings: Illustrated a range of potential affordances for promot inhibiting alcohol consumption, related to the environmental organisation and opportunities for action provided by others. Kimberley Hill, Oxford Broa

Stage 2i: Alcohol-Related Affordances - First-Person Perspective Aim: Understanding the individual subjectivity that exists between yadults and their drinking environments. Method: Photo-elicitation interview, analysed using Interp. Phenomenological Analysis (Smith, Jarman & Osborn, 1999). Twelve individuals with a broad range of drinking behavior 50 photographs from 7 different licensed premises. Asked to comment on the different opportunities for drinking behaviour that were present and those that were not. ndings: Confirmed Stage 1 alcohol-related affordances, provided sight into individual subjectivities, or meaning certain features had for tations: Indirect measure of subjectivity, viewed visi esentations of unfamiliar premises, described behaveriences in similar environments, group viewpoints? Kimberley Hill, Oxford Brookes University

Stage 2ii: Alcohol Subjectivities and Q-Methodology - Group Perspective

- Stage 1 and Stage 2: varied concourse of alcohol-related affordances.
- Quali-quantological assessment of subjectivity.
- 40 participants ranked 60 statements along a symmetrical grid, based on perceptions of their drinking behaviours in relation to their drinking environments.
- A preliminary analysis of these rankings and post-sort interviews uncovered four factors, or group patterns of subjectivity.

Eisher's sum of squares: statements for a ba		
Affordance (Factors: N = 10)	Rehaviour (Levels: N = 2)	
	Effect	No Effect
Access-ability	(ac) N = 3; 1, 3, 5	(bc) N = 3; 2, 4, 6
Communicate-with-ability	(ad) N = 2;	(bd) N = 3;
	7, 9,11	8,10,12
Consume-ability	(an) N = 2:	(be) N = 2:
	13.15.17	14.16.18
Grasp-ability	(af) N = 2:	00 N = 3:
	1921.23	20.22.24
Listen-to-ability/ Dance-to-	(art N = 2:	(br) N = 3:
ability	25,27,29	26,28,30
Play-ability	(ah) N = 2;	(bb) N = 3;
	21,22,25	32,34,36
Put-on-ability	(ai) N = 2;	(bi) N + 2;
	37,39,41	38,40,42
Sit-on-ability	(a) N = 2;	(b)) N = 2;
	43.45.47	44.46.48
View-ability	(ak) N = 2;	(bk) N = 1;

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Implications and Future Work Three different methods, each with limitations, provide a triangulation of results for assessing affordances for action. Further scientific research could elaborate and test the affordance theory for a range of health risk behaviours (i.e. smoking, unhealthy eating, gambling etc.)

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References

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