PXD **Persuasive Interaction Design**

BACKGROUND

Persuasive Interaction Design is the process of creating persuasive technology, or "technology that is designed to change attitudes or behaviors of users through persuasion and social influence, but not through coercion."¹ In other words, it is the use of psychology in design to influence behavior.

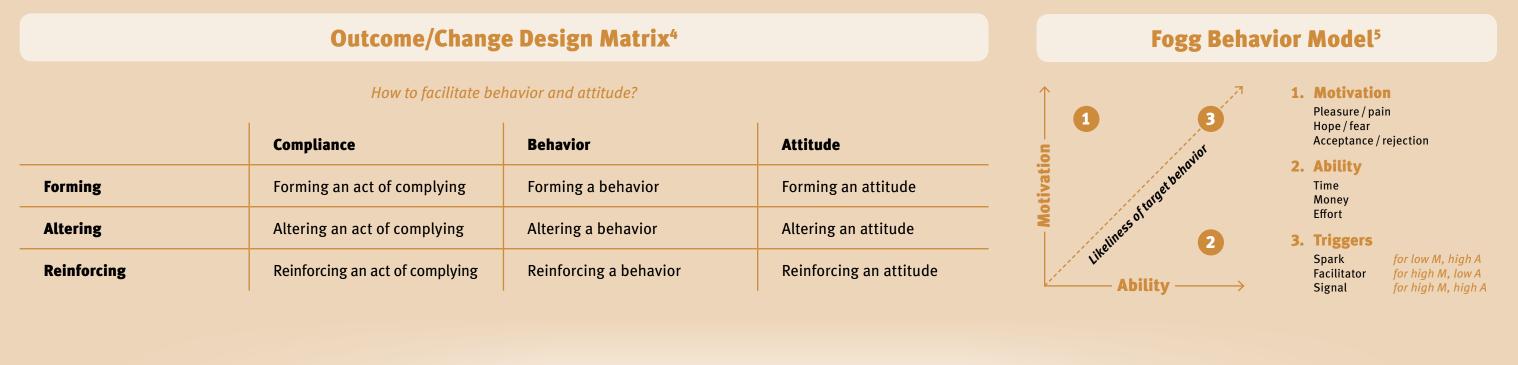
Over the last two decades, one can clearly observe a trend towards deeper meanings and impacts within the broader field of user experience.²

Usability Testing	Ŷ	Measuring Behavior
User Research	ACT —	Understanding Behavior
Interaction Design	IMPAC	Enabling Behavior
Persuasive Design		Influencing Behavior

This poster should help practitioners to get a better grasp of what is going on in their discipline if not help them to figure out what is still missing in order to develop better design practices.

ANALYZE & STRATEGIZE

BEHAVIOR MODELS



MOTIVATION

• • • • • • • • •		•••••••••••••••••••••••••••••••••••••••	••••••	•••••••••••••••••••••••••••••••••••••••	•••••	• • • • • • • • • • • • • • • • • • • •		••••••
Environments		Self Dete	Self Determination Theory ⁶		The Self Determination Continuum ⁸			
Consider that motivation can happen on distinct levels.		"Control leads to complia	"Control leads to compliance, autonomy leads to engagement."7			Regulation	Causality locus	
A	Global	General environment Auton		The desire to be self-directed		Amotivation	None	Impersonal
D		General environment	Autonomy	The desire to be self-directed	i i	Extrinsic motivation	External	External
	Contextual Sphere of humar		Competence	The urge to get better		Ģ	Introjected	Somewhat externa
		Sphere of human activity	(Challenge & mastery)			Ģ	Identified	Somewhat interna
						Ŷ	Integrated	Internal
Ч)	Situational	Specific activity at a particular time	Relatedness	Sense of larger purpose, connectivity		Intrinsic motivation	Intrinsic	Internal

FRAMEWORKS

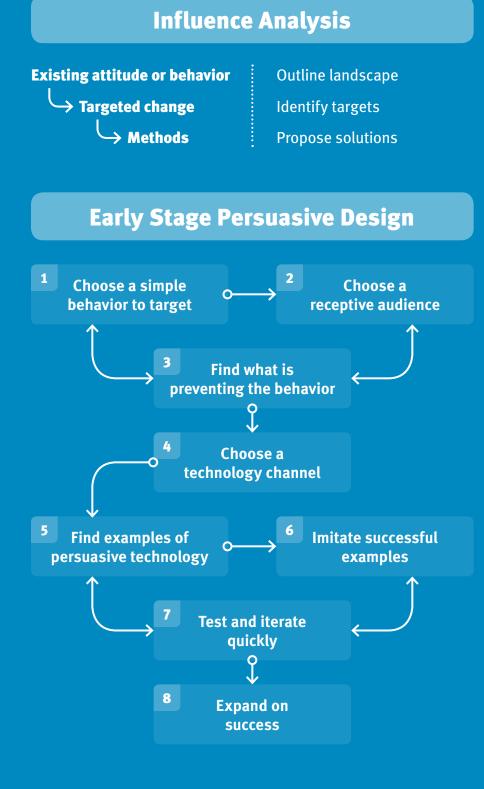
PERSUADE

TRADITIONAL PERSUASION METHODS

Six Areas of Influence		Credibility	Aristotle's Rhetoric
Reciprocation	People feel obliged to return favours. Even if gifts are unwanted, it will influ- ence the recipient to reciprocate.	Credibility is a perceived quality that has two dimens trustworthiness and expertise.	tions: Ethos Decorum Establish credibility/trust Practical wisdom
ommitment & Consistency	People desire and value consistency in their own and others behavior. Requests can be made that uphold initial commitments.	Perceived TrustworthinessBe fair and without bias Set back own interest Project similarity	Logos Deduction Induction
Social Proof	People consider friends or similar personalities when making decisions, particularly noticeable in situations of uncertainty or ambiguity.	 Perceived Project knowledge Project experience Project competence 	Convey consistency/logic Concession Framing Logical fallacies Bad Proof
Liking	People are more likely to agree with people they like. Factors that can influence others can be physical, psychological, language-based, or based on social dynamics or roles.	Perceived Crodibility Presumed credibility Surface credibility Reputed credibility	Pathos Sympathy Belief
Authority	People tend to automatically respond to commands from authority, even if their instincts suggest the commands shouldn't be followed.	• Earned credibility	Backfiring Persuasive emotion
Scarcity People tend to want things as they become less available. Items are also given a higher value when they become scarce.		<i>Matters whilst</i> instructing or advising users, reporting measurements, providing inforn analysis, reporting on work performed, reporting about own state, running rendering virtual environments	

CAPTOLOGY STRATEGIES

			•••••••••••••••••••••••••••••••••••••••	
Captology ¹	The Functional Triad ¹		Persuasive Systems Design Technique	
Leverage endogenous factors:	Tool • Reduction		Primary Task	Tailoring
Persistency	Increases capabilities • Tunneling	Persuasion strategies differ depending on the role being		Tunneling Reduction
Allowance of anonymity	Tailoring	played by the computer. Computers can act as a tool, medium, social actor, or a		Self-monitoring Simulation
Processing power	Suggestion	combinations thereof.		Personalization
Multimodality	Self-monitoring			Rehearsal
Scalability	Surveillance		HCI Dialogue	Praise



CAUTION

Ethical Considerations

Social Media

The Social Media

Value Spectrum

Categories

With power comes responsibility. It cannot be understated how important it is to consider if and when it is okay to change or influence someone's behavior. At this point, it seems as if the UX community is still searching for a shared ethical framework though. Consequently, we can only ask practitioners to act and design wisely.

Unfortunately, this happens during a time when large corporations are already practicing persuasion to sell candy, cigarettes, fast food and other questionable items.

Stephen Anderson from UX Magazine writes that if he's asked when is it okay (or not okay) to influence someone's behavior that his simple response is: don't take on projects that you wouldn't personally use yourself or recommend to your friends and family.³

IIT Institute of Design

This map was developed by **Boris Geissler** at the IIT Institute of Design, supervised by professor **Tom MacTavish** in the Spring of 2013. © 2013 IIT Institute of Design.

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ScalabilityUbiquity	•	Surveillance Conditioning	TOOL	HCI Dialogue	Praise Rewards Reminders Suggestion
<i>Persuade on two levels:</i>1. Macrosuasion2. Microsuasion	Medium • Provides experiences •	Simulated causes and effects Simulated environments Simulated objects	MEDIUM	System Credibility	Liking Similarity Social Role Surface credibility Authority
Be aware of exogenous side effects.	Social Actor • Creates relationships	Embodied agents Five types of social cues (handle w 1. Physical			Trustworthiness Expertise Real world feel 3rd party endorsement Verifiability
		 Psychological Language Social dynamics Social roles 	Principle of praise Principle of reciprocity	Social Influence	Social learning Social comparison Social facilitation Normative influence Recognition Cooperation Competition

SOCIAL ENCOURAGEMENT

