

Theory of Reasoned Action and Planned Behavior

TRA/TPB and HBM

- Both focus on rational, cognitive decision-making processes
- TRA/TPB adds the social context to the basic ideas of the HBM

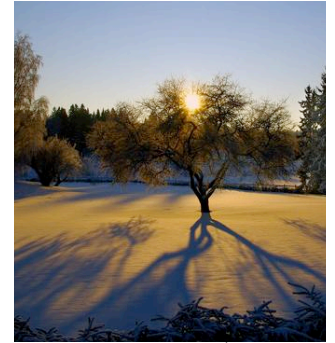
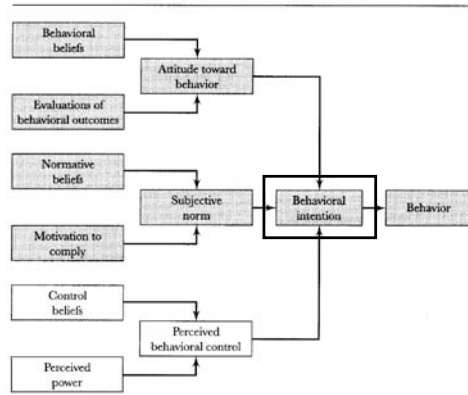


FIGURE 4.1. THEORY OF REASONED ACTION AND THEORY OF PLANNED BEHAVIOR.

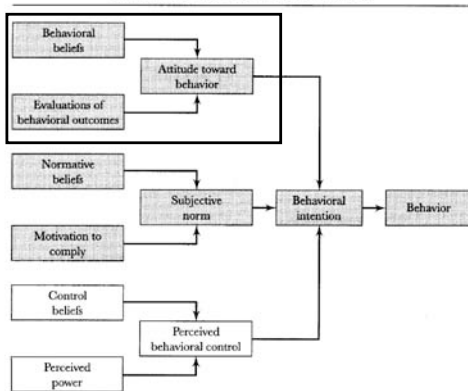


Note: Upper shaded section shows the Theory of Reasoned Action; the entire figure shows the Theory of Planned Behavior.

TRA: Constructs

- Behavioral Intention
 - Perceived (subjective) likelihood of performing the behavior
 - The *most important* determinant of a person's behavior
 - Behavioral Intention = Attitude + Subjective Norm

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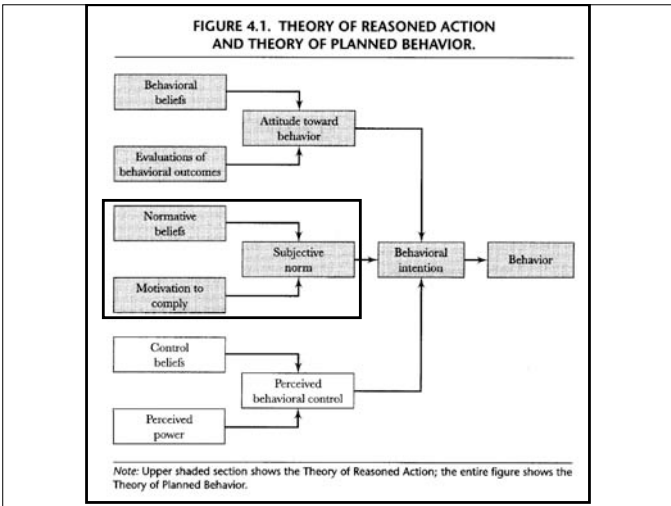


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TRA: Constructs

Attitude = Belief + Evaluation

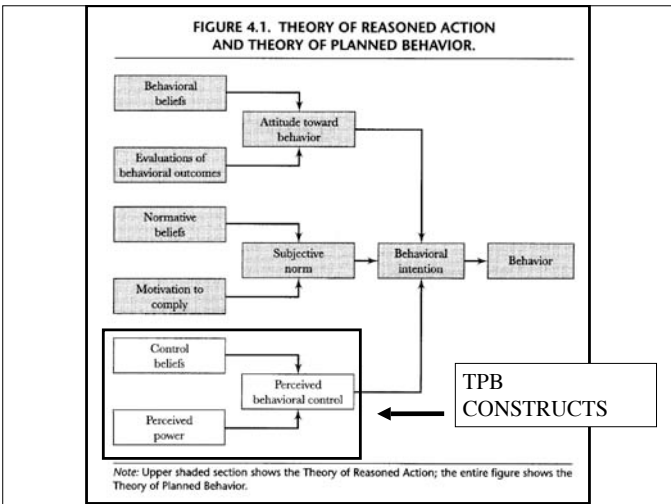
- Attitude: What are the possible outcomes, how good or bad are they, and how likely are they to occur?
- Behavioral Belief: A belief about what will happen if he or she performs the target behavior
- Evaluation: Is this expected outcome good or bad?



TRA: Constructs

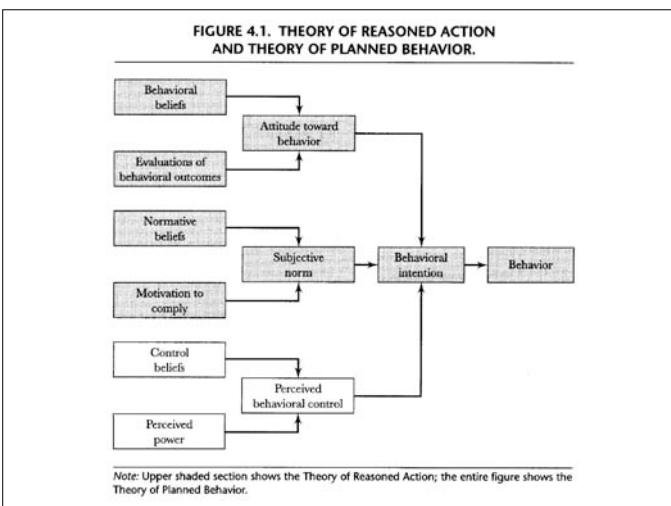
Subjective Norm = Normative Belief + Motivation to Comply

- **Normative Belief:** belief about whether each referent (person) approves or disapproves of the behavior
- **Motivation to Comply:** Motivation to do what each referent (person) thinks is okay



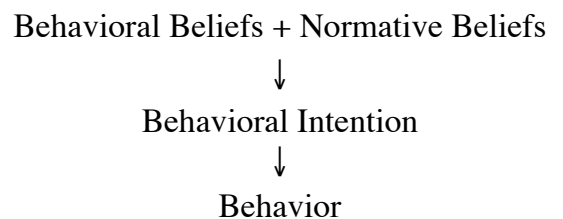
TRA + TPB: Constructs

- **Perceived Behavioral Control = Control Belief + Perceived Power**
 - Overall measure of perceived control over the behavior
 - **Control Belief:** Perceived likelihood of the occurrence of each facilitating or constraining condition
 - **Perceived Power:** Perceived effect of each condition in making doing the behavior hard or easy



TRA Assumptions

- Causal chain of events leading to a given behavior:



TPB Chain of Reason

- IF Jane has a positive attitude toward getting a mammogram....
- IF either her friends think it's a good idea OR she doesn't really care what they think...
- AND if she thinks she can get off work and get a ride and afford the mammogram,
- THEN the likelihood that she'll do it is high
 - Edberg 2007 p. 40

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TRA Assumptions

- Individuals are rational actors
 - They process information and are motivated to act on it
 - There are underlying reasons for motivation and behavior

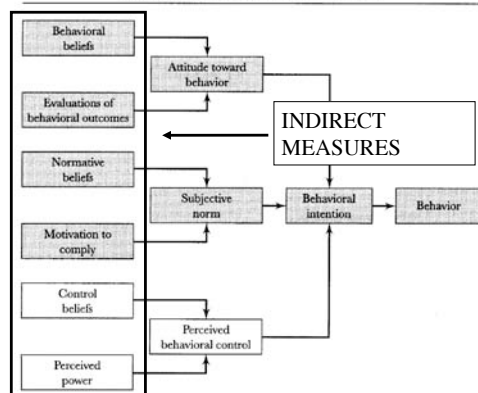
TRA Techniques

- Start with qualitative research
- This can be focus groups, interviews, and/or questionnaires (see textbook)
- This ensures that behavioral, normative, and control beliefs are relevant to the population

TRA Techniques

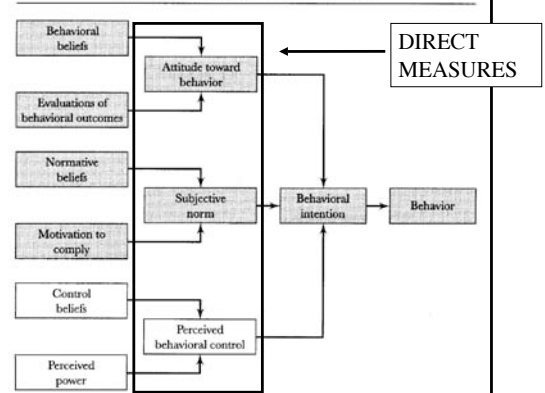
- Questionnaires
 - 5 to 7 point scales
 - Behavioral beliefs range from unlikely to likely to perform
 - Evaluations of outcome range from good to bad
 - Double negatives are avoided by adjusting sign at each end of the ranges

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TRA Techniques

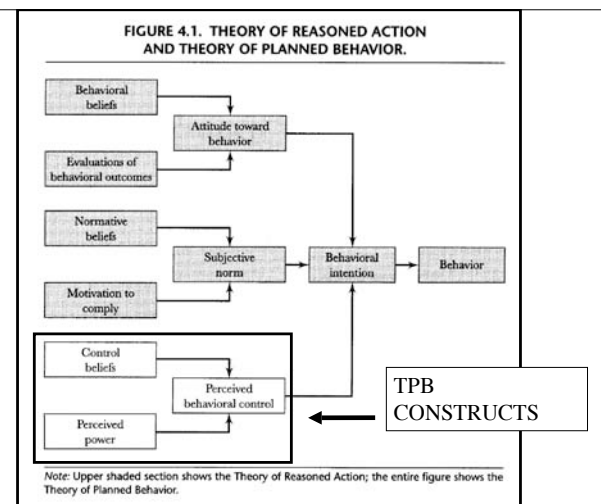
- Direct measures
 - Usually more strongly associated with intention and behavior than indirect measures
 - They help validate the indirect measures
- Indirect measures (expectancy + value)
 - Provide more specific information about what's motivating a person to behave a certain way

TRA Techniques

- Prospective Study Design
 - First assess attitudes, norms and intention
 - Then, at a later date, measure behavior
- Multiple Regression Analysis
 - Allows consideration of the relative strength of each construct in determining intention and behavior

Theory of Planned Behavior

- The pathway from intention to behavior is mediated by the extent to which the behavior is *under volitional control*
- HIGH VC: TRA is a good predictor of behavior
- REDUCED VC: Less predictive



Theory of Planned Behavior

- New Construct: Perceived Behavioral Control
 - Adds to the effort a person will apply to a behavior
 - An independent variable that determines behavior as Attitude and Subjective Norm remain constant

Theory of Planned Behavior

- Perceived Behavioral Control: Components
 - Control Beliefs
 - Presence or absence of facilitators and barriers
 - Perceived Power
 - Of each factor to help or hinder the behavior

Theory of Planned Behavior

Perceived Behavioral Control

vs.

Self-Efficacy

- SE addresses individual's judgments of efficacy in doing behavior *in the face of barriers*
- PBC is concerned with characteristics of an individual *or the environment* that *help or hinder* performance of the behavior

TRA/TPB Applications

- Condom Use (textbook)
 - Seattle Study: 4 at-risk groups
 - 2 interviews 3 months apart
 - Measured all constructs as well as behavior
 - Intention:Behavior correlation was .55
 - Focus of study: what leads to the intention?

TRA/TPB Applications

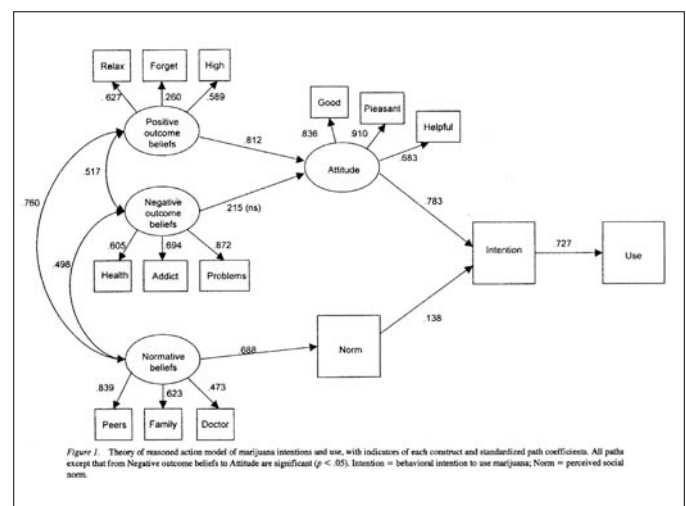
- Seattle Condom Study (textbook)
 - Ethnic differences in relative importance of constructs leading to behavior
 - Partner norm was more important than subjective norms

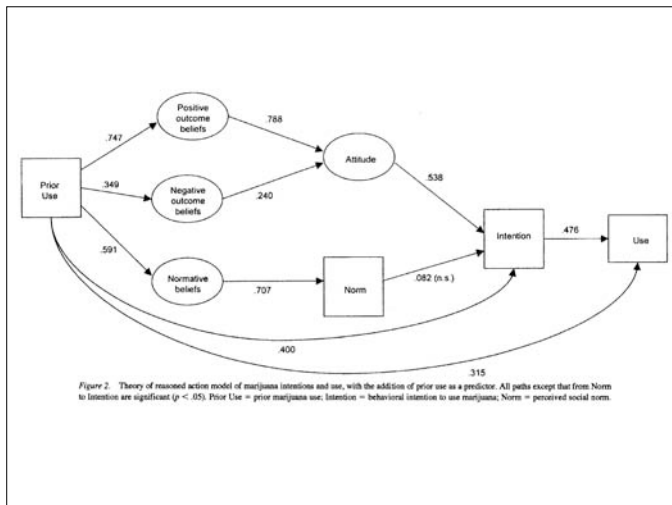
TRA/TPB Applications

- Seattle Marijuana Study
- Morrison, Golder, Keller, & Gillmore
 - 2002, *Psychology of Addictive Behaviors* 16, 212-224
- Measured TRA constructs to predict marijuana use in pregnant teenage girls
- Goal: consider a wide range of consequences of smoking behavior beyond negative health effects
 - Interpersonal
 - Hedonistic

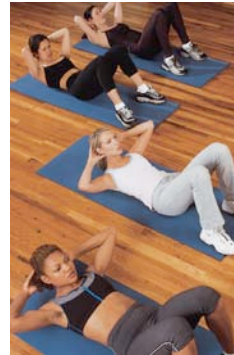
TRA/TPB Applications

- Seattle Marijuana Study
- Added the concept of prior behavior as a possible determinant of future behavior
- N = 170 unmarried pregnant adolescents
- Followed for up to 48 months postpartum
- Questionnaires given in 90-minute interviews





TPB Application



- Armitage, 2005
- Maintenance of exercise program in 12-week study of adults belonging to a gym
- Perceived Behavioral Control (PBC) strongly predicted intentions and behavior
- Successful prior performance enhanced PBC

TRA/TPB Strengths

- Provides clear guidance for qualitative research
- Has successfully predicted a variety of health behaviors
- Questionnaire research gives specific guidance for designing interventions
- Model has flexibility

TRA/TPB Strengths

- Accounts for a wide range of behavior consequences, beyond the health-related
 - Interpersonal
 - Hedonistic
- Specifically takes social influence into consideration

TRA/TPB Weaknesses

- Attitude is a unidimensional construct
 - Good vs... Bad
- But many attitudes are multidimensional
 - Affective
 - Cognitive
 - Conative: the aspect of mental processes or behavior directed toward action or change
 - Impulse, desire, volition, striving

TRA/TPB Weaknesses

- Doesn't take prior behavior into consideration
 - Morrison et al., 2002
 - This explains significant variance in prediction of intentions and behavior
- Attitudes sometimes work directly on behavior, without the intentional step
 - “knee-jerk reactions”

References

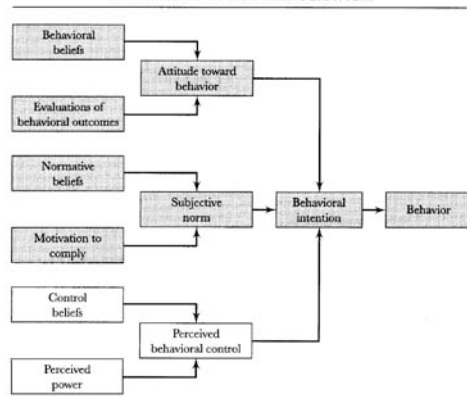
- Morrison, D. M., Golder, S., Keller, T. E., & Gillmore, M. R. (2002). The theory of reasoned action as a model of marijuana use: Tests of implicit assumptions and applicability to high-risk young women. *Psychology of Addictive Behaviors, 16*, 212-224.
- Armitage, C. J. (2005). Can the Theory of Planned Behavior predict the maintenance of physical activity? *Health Psychology, 24*, 235-245.

Theory Mapping

- Apply TPB to your behavioral change project
- Begin with blank diagram of the theory...

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FIGURE 4.1. THEORY OF REASONED ACTION AND THEORY OF PLANNED BEHAVIOR.



Note: Upper shaded section shows the Theory of Reasoned Action; the entire figure shows the Theory of Planned Behavior.

- What will happen if you perform your desired health behavior? List 3 or 4 things
- For each one, write down whether this is good or bad, and how much from 1-5, 3 being neutral
- For “bad,” use negative numbers
- For “good,” use positive numbers
- Add up the numbers for a score on attitude towards the behavior

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- Make a list of 3 to 5 people in your life with whom you have a lot of contact
- For each person, write down whether they will approve or disapprove of your proposed health behavior
- For each person, score 1-5, 3 being neutral, how important this person’s opinion is to you
- Give each score a polarity depending on the person’s approval or disapproval & sum the values for subjective norm score

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- Make a list of things in your life that will facilitate or constrain your desired behavior
- Rate each thing on the amount of power it has over whether or not you will accomplish your desired behavior using 1-5 scale
- Use negative numbers for constraining factors and positive numbers for facilitating factors
- Add them together to get your perceived behavioral control score

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Intention Score

- Add the three numbers together to get your intention score
- Is it negative?
- Is it positive?
- File this away for later to assess TBP's ability to predict your behavior...

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