This presentation premiered at WaterSmart Innovations

watersmartinnovations.com



Really, what factors promote behaviors to conserve water?

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Presentation Overview

- District Background
- Study background
- Study Results
- Application

WASHINGTON COUNTY WATER CONSERVANCY DISTRICT



Area's Overview

WASHINGTON COUNTY





Overview of Study

3 Theory of Planned Identify what affects **Personal Behavior** behavioral intentions in Behavior mingled with VS Bandura **Environmental Behavior** conserving water in Southern Utah residents PRACTICE THEORY

Environmental Behaviors

- Difficult to change
- Benefits not seen immediate
 - motivation waned
- Less predictable and difficult to maintain
- Few conserve to preserve
- Social norms help engage



Why is this important?



 Regulations hard sell and still need behavioral compliance



 Technologies still require some behavioral engagement

Understanding...

- Bring together water-efficient technologies with conservation measures and align with water efficient behavior for long term results in water use reduction
- Awareness does not always lead to action.
- Find the correlation between knowledge and variables that significantly influence action.
- Provide components for strategic messaging which focuses on the influencing factor.

5 Variables Measured

1	2	3	4	5
ATTITUDE on water	Perceptions of ABILITY to conserve	Belief in community's ability to conserve	SOCIAL belief of conserving water	Behavioral Intentions
Independent	Independent	Independent	Independent	Dependent

Self efficacy

 Personal belief of ability to perform task



Collective efficacy Social Normative

- Must feel their sacrifice is met along with the community's ability of change
- Must see the community working together



- Behaviors adopted when perceived others participating
- Behavior valued
- Acceptable behaviors



Research Questions

Which factor best predicts behavioral intention?

The role does each factor play in creating a message?

Hypotheses

H1 An optimistic **ATTITUDE** about water conservation will positively affect behavioral intention to conserve water.

H2 A belief that SOCIAL **NORMATIVE** uses water efficiently will positively affect behavior to conserve water.

H3 SELF **EFFICACY** about water conserving behaviors will positively affect behavioral intent to conserve water.

H4 **COLLECTIVE EFFICACY** about water conservation will positively affect behavioral intent to conservation.

Approach

Quantitative

Survey identify how each variable affects behavioral intention

Qualitative Focus group roles each factor played in a strategic communication

plan

Drum roll, please...and the Factor is...

Percentage of Behavioral Intentions Influenced by the following Factor



Stepwise regression

Model	R	(Adjusted R Square	Beta	t	Р
Self- efficacy	.501		.249	.446	9.91	.000
Attitude	.266		.262	.134	2.97	.003

• The model compared all variables and found these two as significantly predictable when interacting with each other.

Forming Self-efficacy

Completed and practiced task by self

Observation Vicariously participate in task

Persuasion by a well-respected person to perform task

Non-stress

Persuasion

Experience

Not perceived as a stressful task





Develop strategic messages with:





Summary

- Self efficacy plays significantly in predicting behavioral intentions to use water efficiently.
- Forming self-efficacy
 - Experience
 - Observation
 - Persuasion by a respected individual
 - Non-stressor

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