

Western Washington University Western CEDAR

Salish Sea Ecosystem Conference

2014 Salish Sea Ecosystem Conference (Seattle, Wash.)

Apr 30th, 3:30 PM - 5:00 PM

Don't Drip & Drive- Greasing the Skids with Social Science to Prevent Vehicle Leaks

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Don't Drip & Drive: Greasing the Skids with Social Science to Prevent Vehicle Leaks

> Salish Sea Conference April 30, 2014

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STORM

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Futurewise



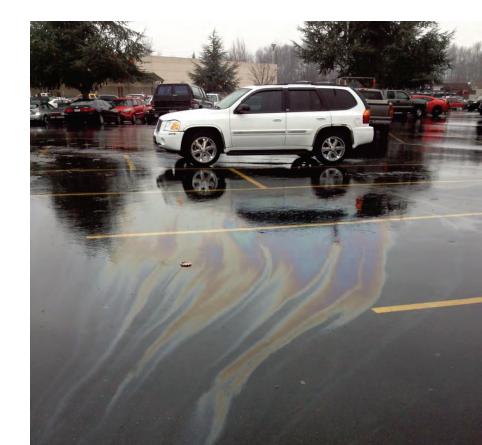
PugetSoundPartnership



The Problem

Petroleum-based oil, grease, transmission, power steering, brake and windshield fluids

significant toxic
 pollutants reaching
 Puget Sound waters
 through stormwater
 runoff





The Problem

Ecology estimates 7 million quarts of motor oil are dripped on roads and parking lots in the Puget Sound basin every year.



Ecology and King County, 2011. Control of Toxic Chemicals in Puget Sound: Assessment of Selected Toxic Chemicals in the Puget Sound Basin, 2007-2011. Washington State Department of Ecology, Olympia, WA and King County Department of Natural Resources, Seattle, WA. Ecology Publication No. 11-03-055. www.ecy.wa.gov/biblio/1103055.html



Our Goal

To decrease the threat from vehicle leak pollution in the stormwater system





Approaches to solving this problem

Behavior changes

- maintain vehicle and fix leaks when found

- Regulatory changes
- Industry changes

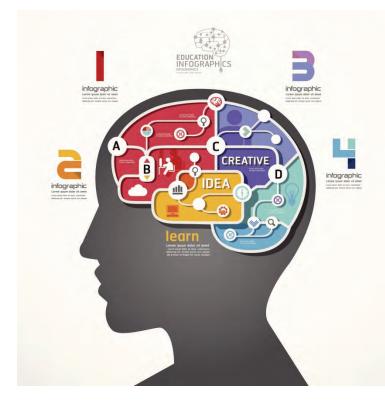




Applicable Findings From Social Science Research

"Sticky" messages are simple, unexpected, concrete, credible, emotional, and tell a story.¹

Use injunctive norms to provide information that the behavior is approved of ²



1. Heath, Chip, Dan Heath. (2008). Made to Stick: Why Some Ideas Survive and Others Die. Random House. New York.

2. Cialdini, R.B., Reno, R.R., & Kallgren, C.A. (1990). "A focus theory of normative conduct: Recycling the concept of norms to reduce littering in public places." Journal of Personality and Social Psychology. 58, 1015-1026.



Applicable Findings From Social Science Research

Overwhelm can result in non-action¹

"Opt-out" programs result in greater participation²



- 1. Iyengar ,Sheena S. and Mark R. Lepper. When Choice is Demotivating: Can One Desire Too Much of a Good Thing? Journal of Personality and Social Psychology, 2000, Vol. 79, No. 6, 995-1006
- 2. Johnson, Eric J. and Goldstein, Daniel G., Defaults and Donation Decisions (December 2004). Transplantation, Vol. 78, No. 12, pp. 1713-1716.



Target Audience

- Vehicle owners 25 years of age or older
- Income of \$40,000 or more
- Vehicle is more than 2 years old
- Know or suspect they have a leak
- "Fix it for me" group
- Likely to fix leak when they know they have one



Targeted Market Research

How does <u>our target audience</u> respond?



Surveys & Focus Groups

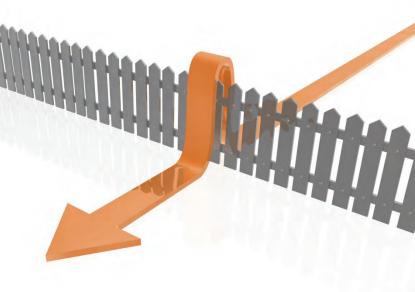
- Barriers
- Motivators
- Marketing Strategies

- Messages



Barriers to Fix Leaks

- Cost
- Lack of knowledge
 - of how vehicle functions
 - what to ask a mechanic
- Fear of being taken advantage of
- Time/hassle
- Forget- not a priority
- Don't believe it's a problem





Motivators to Fix Leaks



Primary

- Reliability
- Safety
 - while driving
 - kids and pets
- Maintain value (when selling car)

Secondary

Protect the environment



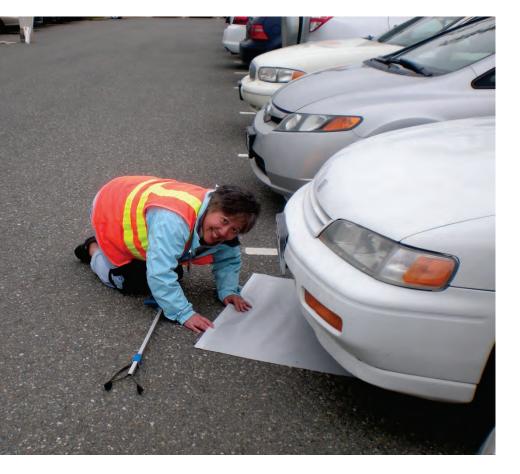
Campaign Elements To Overcome Barriers

1. Raise Awareness

- Cute and "uplifting" brand
- Messaging- address motivators & barriers
- Leak detection blitz events
- 2. Influence Behavior- Get Leaks Fixed
 - Website with tools
 - Repair shop incentives and discounts
 - Test more messages & intervention strategies



Raise Awareness: Vehicle Leak Testing Blitzes



"We'll test your car for leaks and give you the results... unless you opt out"



Influencing Behavior: Website- Addressing Barriers

- Searchable map of participating repair shops
- Consumer aids
 - What to ask a mechanic
 - Tool to identify drip type
 - Diagrams-how vehicles function
 - Consumer rights info
- Information/videos on how leaks impact:
 - Life of vehicle, safety, pets, children & Puget
 Sound's Health



Campaign Phase 2: Which strategies provide the best return on investment?

- Window cling reminder
- Pledge & call backs



- Onsite mechanic at workplace
- For employer to host- mobile mechanic company or mechanic concierge service
- \$100 discount to repair leaks



Influencing Behavior: Testing Intervention Strategies

3-month post-intervention survey

- Evaluate effectiveness of intervention strategies
- Obtain demographics and psychographics
- Provide recommendations for future campaign phases





Take Home Messages

- Campaigns that use social science are more likely to be effective
- Know your target audience's barriers and motivators and develop your campaign to address them
- Integrate research as a part of your campaign to maximize results

Thank you! Any questions?





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