

The dumpsters in Anaktuvuk Pass are painted with slogans that reflect community values. Paxson Woelber / CC BY SA 3.0

Community-Based Social Marketing for Tribal Environmental Professionals



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The dump in Igiugig before and after a waste backhaul operation. Alaska Department of Environmental Conservation

Welcome

- Community-Based Social
 Marketing (CBSM) Overview
- Tribal Perspectives
- Q&A





What Is Community Based Social Marketing (CBSM)?

- CBSM is a concentrated effort to change or start a behavior in a group of people by creating motivation and helping them to overcome specific barriers.
- A CBSM program has 5 steps:

1. Select audience and behaviors to promote.

2. Identify barriers to and benefits of behavior.

3. Design a behavior change strategy.

4. Pilot the strategy within target community.

5. Evaluate impacts of strategy.





Where does CBSM come from?

- Dr. Doug McKenzie-Mohr is the founder of CBSM, former Professor of Psychology, and author of three CBSM books.
- His work incorporates scientific knowledge into design and delivery of community programs to change behavior, specifically around sustainability and environment.
- CBSM draws from psychology research that shows efforts are most effective when they involve direct engagement with people at the community level.

www.cbsm.com





Where does CBSM come from?

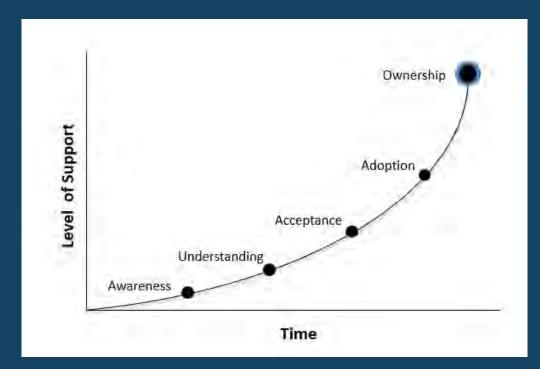
 Research has shown that just using outreach (like advertisements or flyers) to encourage a change in behavior isn't enough.

A Dutch study showed that providing homeowners with info about energy

conservation did not reduce energy use.

 Outreach is a CBSM tool! It just isn't the entire thing.

- Outreach can create <u>awareness and</u> <u>understanding</u>.
- Without CBSM, it rarely leads to measurable or sustained action.







How is CBSM different than outreach and communication?

Behavior change outreach:

- Preventing forest fires
- Wearing seatbelts

What could make these CBSM:

- A focused pilot around campfire safety at one National Park
- A concentrated outreach effort in one school district to increase use of seatbelts by parents carpooling









CBSM – Campfire Safety Example – Audience, Barriers, Benefits

- Behavior: Do not leave a campfire or camping stove lit and unattended.
- Audience: Individuals and families (with kids!) staying at Campground X.
- Barriers:
 - Internal: Needing to take kids to the bathroom or gift shop; getting sleepy and just forgetting; wanting it to be easy to restart the fire later
 - External: Don't have a container to get water; language barrier to read instructions
- Benefits:
 - Internal: My kid will get a Smokey the Bear sticker if we comply; I won't get a fine
 - External: I'm protecting fellow campers; I'm protecting the environment

This will require a lot of research!



CBSM – Campfire Safety Example – Strategies and Techniques

Barriers	Example Strategy Tools
Structural / External Barriers – "Can't	<u>Convenience</u> – place a bucket at campsites with a
collect the water to put the fire out"	reminder and instructions attached
<u>Lack of Motivation</u> – "If I leave it	<u>Incentives</u> – implement a fine, OR a reward – if a
unattended no one will do anything"	ranger sees a responsible family, they can give the
	kids a Smokey the Bear badge
Forget to Act – "I got sleepy and just	<u>Prompts</u> – place a sticker on the mirror of the
forgot to put it out"	campground bathroom they may see at night
<u>Lack of Social Pressure</u> – "No one else	Commitments, Social Norms – have families sign a
here cares"	pledge to be fire safe when they check in and
	leave a certificate on the dashboards of their car
Lack of Knowledge – "I didn't know	Communication – put notices on bulletin boards
there were fires around here"	and a sign when entering the campground





CBSM – Piloting before a Program

- CBSM asks you start with a pilot, or test run, of a plan before you commit to a Tribe-wide or long-term strategy. You:
 - ✓ Can work out bugs or issues.
 - ✓ Won't waste funds or resources on an investment that doesn't work.
 - ✓ Can adjust your approach as needed.
 - ✓ Should feel confident when you expand to a full program, because you did the legwork and now have a plan that can create change!
- Dr. Mckenzie-Mohr says, "you should plan on there being problems" even if a pilot 'fails', you learn a lot and can improve.
- Only when a pilot shows <u>measurable</u> evidence of behavior change, should you expand to broad implementation.

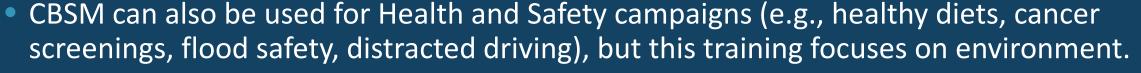




What behaviors does CBSM target?

- CBSM.com features resources and case studies about all kinds of CBSM projects especially Sustainability projects!
 - Pesticide Use
 - Managing Invasive / Native Plants
 - Energy Efficiency
 - Carpooling / Mass Transit
 - Composting
 - Recycling / Reusing
 - Water Efficiency / Landscape Watering

Success on any of these issues requires some kind of human behavior!







Should you use CBSM?

- If you:
 - ✓ Have an environmental or sustainability problem,
 - ✓ Know that solving this problem requires people in the community to act,
 - ✓ Haven't yet done outreach, or did outreach that was ineffective,
 - √ Want to make sure you are confident in the way to solve the problem before investing too much in money or resources, and
 - ✓ Have passionate people that will work hard on this effort...
- You should try CBSM!





Recap – A 5-Step Approach

1. Select audience and behaviors to promote.

2. Identify barriers to and benefits of behavior.

3. Design a behavior change strategy.

4. Pilot the strategy within target community.

5. Evaluate impacts of strategy.





Recap – What Is (and Isn't) CBSM?

What CBSM Is:

- Encourages behavior change
- Focuses on overcoming barriers to a certain behavior
- Identifies motivations and enhances benefits of a behavior
- Targeted to specific audiences
- Starts with small pilot programs and evaluation to assess effectiveness

What CBSM Is NOT:

- Just advertising or outreach
- Only an information campaign (remember: information alone doesn't change behaviors!)
- An immediate solution
- Only based in economics
- Primarily attempting to change attitudes or increase knowledge

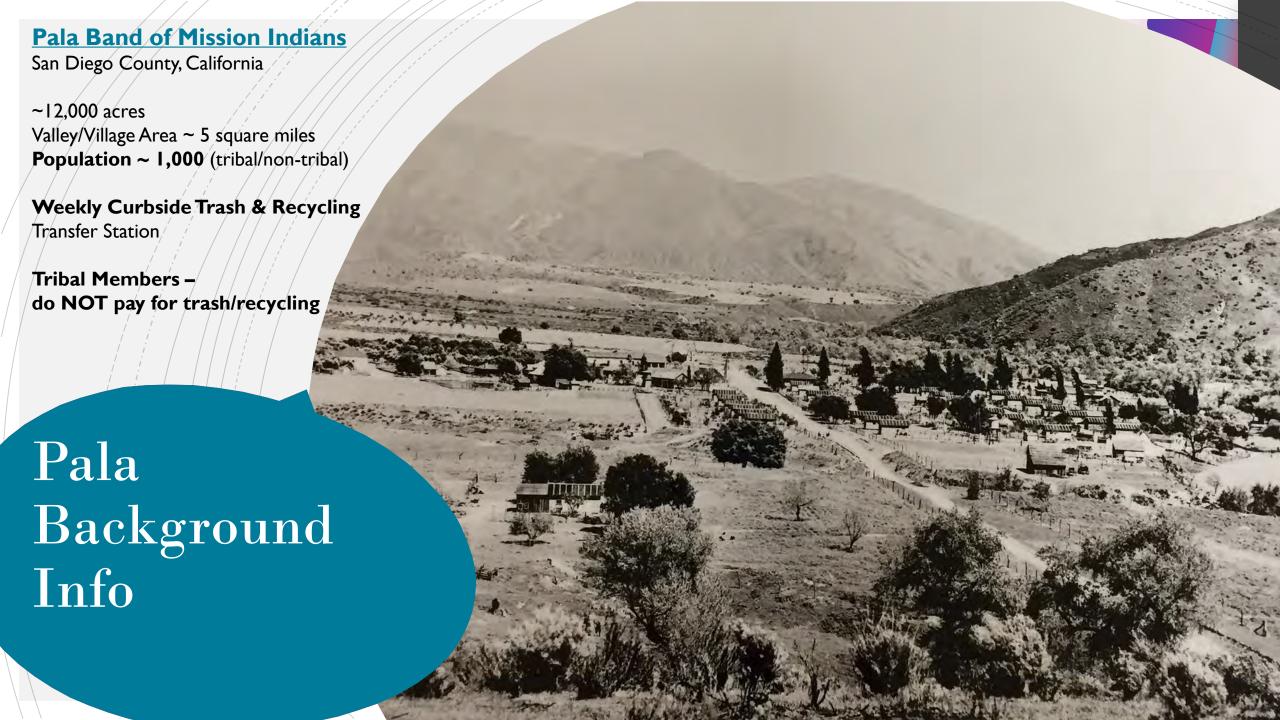




Pala's CBSM Adventures

How we used social marketing to improve our recycling program and beyond...







Pala's First Steps

Pala partnered with the USEPA & Booz Allen Hamilton to improve our curbside recycling efforts using the CBSM tool – *Community Based Social Marketing*.





Pala's Curbside Trash & Recycling Pick-Up:

- **Free** for tribal members (cost for non-tribal)
- Pick-up is once/week
 - Trash brought to nearby vendor I/week
 - <u>Costs</u> = fuel, disposal, salary/equipment
 - Recycling is brought to our transfer station & sorted
 - CRV (\$ goes to tribe), cardboard, non-CRV
 - Approximately 450 homes participate in trash
- Approximately **120 homes recycle**

2018 Recycling Pilot

Some Barriers:

Low participation in curbside recycling

- Non-tribal members often do not curbside recycle
 - Bring CRV to transfer station, to get paid

Contamination of recyclables in curbside

- Trash is often mixed in with blue recycling bins
- Blue bins used entirely for trash

Lack of tracking/data in tribe

- Only #'s tracked are cost / transfer station income
- Total program costs were not being tracked

Select Behavior Change (Goal)

- Increase # homes using blue bins
- Increase amount of recycling in bins
- Cleaner recycling stream
- · Reduce amount of trash to landfill

ID Barriers

- Confusion over what is allowed in recycling bins
- Lack of blue recycling bins
- Reality vs. Perception
- Most non-tribal residents recycled at home

ID Benefits

- Outreach campaign
- Incentivize participation
- Extra \$\$ earned would go back to our tribal youth garden

Start Pilot

- ID Lessons Learned
- Track all data, early & often
- Scale Up & Next Steps

















IF EVERY MEMBER OF PALA DID IT



- 670,140

EARN MONEY \$35,000

RECYCLE TODAY AND PAY IT FORWARD!

E BOXES, PLASTIC, PAPER, GLASS, AND CANS THAT SHOULD ALSO BE RECYCLED











Pala's Results

- Created outreach specific to our tribe
- Increased curbside recycling
- Raised money for the youth garden

NEXT STEPS...

- Rolled it into an HHW Pilot
- Built new logo/brand Planet Pala



Outreach & More Outreach & Even More Outreach

We should have done more outreach.....more often, more in person/meetings, & in more ways/delivery methods....

Takeaways....

Accurate tracking is ESSENTIAL to measuring success [before, during, & afterwards]

Before = we only tracked recycling at the transfer station

- Tracked = CRV Recycling / income & miscellaneous waste streams
- Not Tracked = Non-CRV & curbside recycling (at all!)

During = we tracked weight of curbside recycling

After = we track all of it

- Curbside quantity
- Non-CRV & CRV at transfer station

Need for 'Outside the Box' Ideas ...when your community doesn't pay for trash/recycling

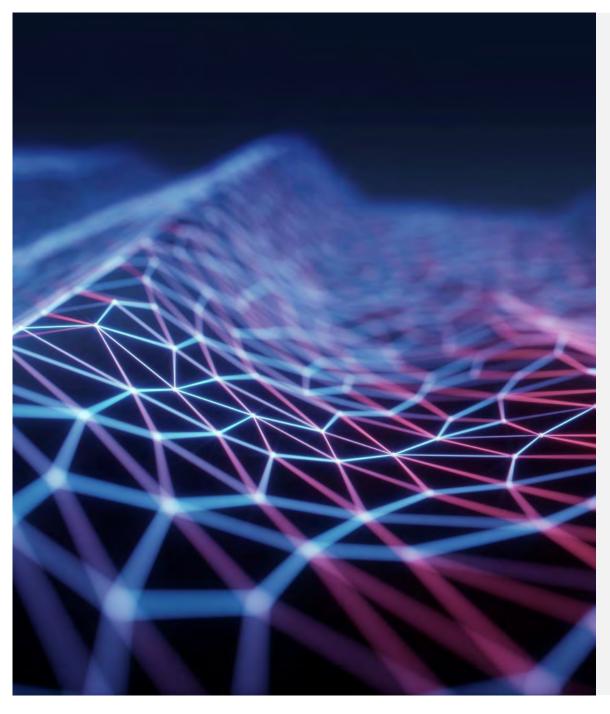
Similar to water conservation....

It can be difficult to spark change when it doesn't hit peoples' wallets.

Going forward, we need to:

- look more closely at the barriers within our community
- target those more specifically, per subcommunities.





HHW Curbside Pilot

Using the existing recycling info...

- Used EXISTING curbside info
- Used NEW outreach techniques
- GOAL increase household hazardous waste collection on the reservation
- PILOT try out curbside HHW collection

SUCCESS!!



Recycling Pilot









HOUSEHOLD HAZARDOUS

& UNIVERSAL WASTE CURBSIDE COLLECTION

HHW Items are products that can catch fire, react, or explode under certain circumstances or that are corrosive or toxic

There are 4 categories of UW materials:

- batteries
- nesticides
- · mercury containing equipment
- · lamps (light bulbs)

We will be starting curbside household hazardous waste collection in the new year! We will be delivering special bins for you to place your hazardous materials in for regular pickups. More information will be provided before we start this curbside pickup project!





Examples of HHW:

- Motor Oil / Filters Scrap Metal
- **Pool Chemicals** Nail Polish
- Drain Cl

Examples of UW:







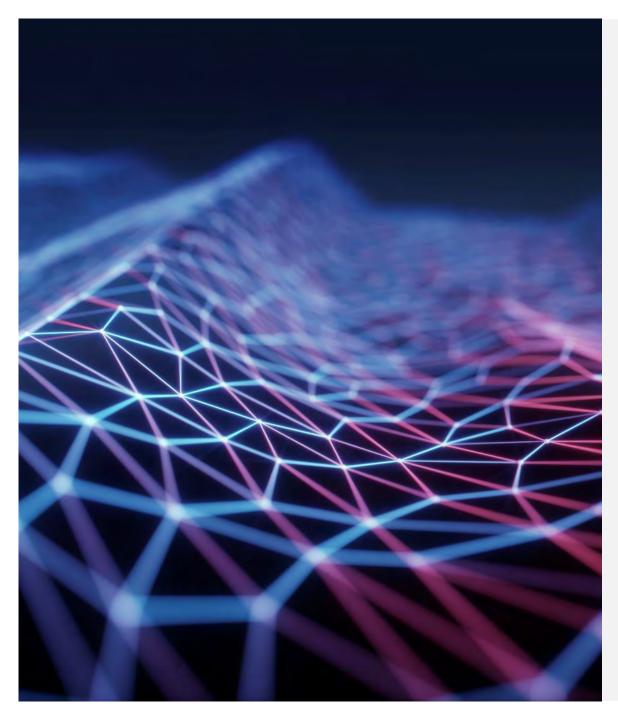


Pilot Programs

HHW Curbside Pilot







Planet Pala Brand

Learning about our community helped us build a brand

- Asked OURSELVES what did we want our department to be known for
- Asked our COMMUNITY— what natural resources do they value
- BRAND = shows what we're trying to protect here at Pala when we our community to make a behavior change

Start with ideas, elements, colors that are important to your community.



Mission Style Basket



Chokla/ Gregory Mountain



Bob T. Cat



4X'EM

When developing a new brand/ logo...

- Combine environmental & cultural themes
 - Keep it simple, attractive, & meaningful
- Use symbols that mean something to your community
 - Clan name (eg: coyote & wildcat)
- Use the language (if appropriate)
 - Tukve'esh (sky); pal (water); temal (land); 'etax'em (people)









For More Info...

Contact Pala Environmental Department

http://ped.palatribe.com/



Thank You

Alexis Wallick

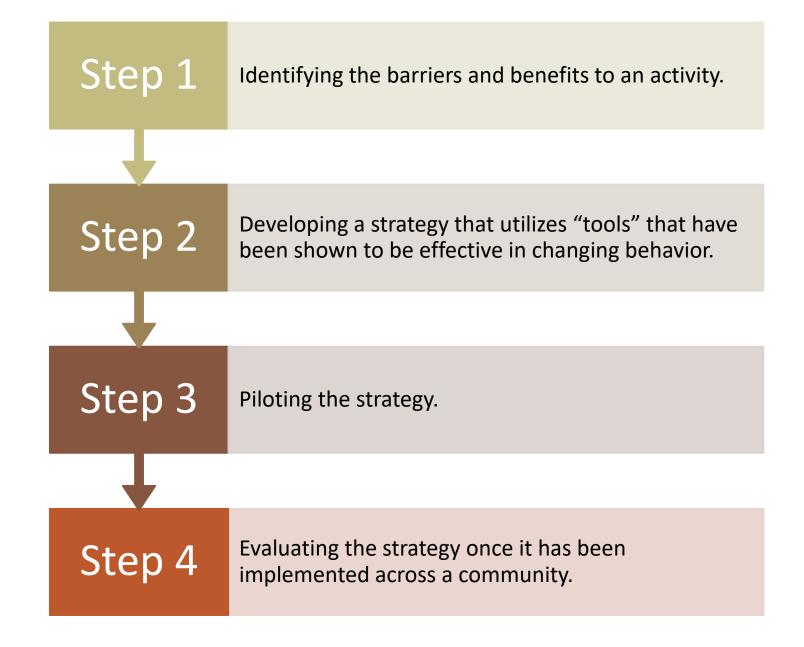
awallick@palatribe.com

Heidi Brow



COMMUNITY-BASED SOCIAL MARKETING (CBSM) PROJECT – PROMOTING SUSTAINABLE BEHAVIORS AT THE FOND DU LAC TRIBAL COMMUNITY COLLEGE

What is CBSM?



Why do this project?

Barriers & Frustrations

Why don't we recycle?

- We didn't know!
- Behavior did not match college values
- Mixed support from administration

What is preventing you from doing it?

- Needed baseline information
- Needed feedback from faculty, staff, and students

The Recycling Pilot Project Background

As a Tribal College, our mission encompasses the vision of sustainability as we seek to become more conscientious stewards of resources while promoting the language, culture, and history of the Anishinaabeg.

The Fond du Lac Tribal and Community College, staff, and students all came together to improve recycling across the campus.

Steps:

- Focus Group held to select priorities and targeted behavior
- Researched projects
- Conducted a waste characterization pre-project
- Developed pre-questionnaire
- Analyzed questionnaire results and developed pilot project
- Implemented Pilot Project
- Conducted Post-Pilot Questionnaire and waste characterization

Targeted Behavior

Recycling on campus and in dorms

Target Audience

Students

The Pilot Project - The Plan



Pre-pilot questionnaire: don't assume you know what your audience thinks and feels



Pre-pilot waste characterization to evaluate – the baseline



Implement pilot based on research



Post pilot questionnaire to measure behavior change



Post pilot waste characterizations



Disseminating the pilot through social diffusion – the next steps

Pre-Pilot Waste Characterization Results

- Recyclables found in trash consisted of mostly aluminum cans, plastic bottles, and paper
- The commons area and classrooms /offices had the highest percentage of recyclables in trash.
- Classroom and office trash consisted of over 46 % recyclables in the trash.
- Behavior/observation data collected through student volunteers in the commons areas.

Table 1
Waste Characterization Results at FDLTCC (May 2014)

Location	Number of Bags	Weight of Recycling (lbs)	Weight of Trash (lbs)	Total Weight (lbs) ¹	Percentage of Recycling in Trash
Conference/Event	4	11.2	32.6	46.6	24%
Bathroom/Offices	1	0.0	6	7.4	0%
Upstairs	1	0.8	5.2	7.2	11%
Law Enforcement/Upstairs	1	11.2	31.2	42.4	26%
Commons	4	5.6	18.4	27.0	20%
Lil Thunder Daycare	3	2.0	94.2	95.4	2%
Offices	1	2.8	6	11	25%
Faculty	1	2.4	4.8	7.4	32%
Art Room	1	3.4	12.4	16.2	21%
Arrowhead Room	1	0.4	13.4	16.2	2%
Auditorium	1	0.4	7.0	8.0	5%
Maintenance/Offices	2	0.8	12.0	31.4 ²	3%
Bathroom	1	0.0	12.8	13.4	0%
Commons/Lab	1	2.2	12.6	16.0	14%
Classroom/Offices	1	15.4	16.4	33.8	46%
Offices/Commons	1	5.8	12.4	19.2	30%
TOTAL	25	64.0	297.4	398.6	

Notes:

Step 1: Identifying Barriers and Benefits

- Pre-pilot on-line questionnaire sent out to 420 students enrolled on campus
- •17% of students completed questionnaire
- Drawing for a bookstore gift certificate for incentive to complete the questionnaire
- Pre-pilot waste characterization

Pre-Pilot Questionnaire: Establishing a Baseline

Student demographic information

Identify level of understanding of the benefits from recycling

Identify barriers to recycling on campus

Identify methods and practices to increase recycling, such as behavior changes, bin placement, and signage

Identify methods of student communication that achieve highest retention and impact

Barriers and Benefits to Change

Barriers: Reduces probability of engaging in desired behavior

What happens to recyclables?

Are there enough recycling bins?

Are the recycling bins located correctly?

Do you understand what to recycle?



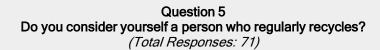
Benefits: Increases the probability of engaging in desired behavior

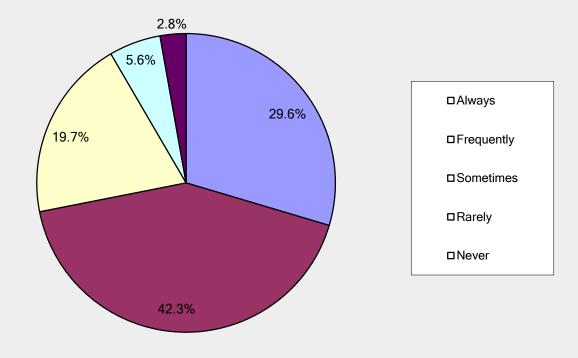
Why recycle? Are students aware of the benefits of recycling?

How can recycling be encouraged?

Awareness Level and Behavior Frequency

- Are you a recycler? Over 70% felt they always or frequently recycle
- How easy/difficult is it to recycle on campus?
- What is currently being recycled and how often?





Results showed....

- Students want to recycle and think it is important for protecting the environment.
- Most felt easy to recycle on campus and how to recycle.
- This awareness and desire did not translate into recycling most materials on a regular basis.
- Aluminum cans and plastic bottles are always recycled only 50% of the time and paper less than 10%.
- Open-ended questions indicated students want convenience additional bins located in specific areas with easy to understand signage.





Not enough bins around campus and none in dorms

People just do not think to recycle

Too busy to find a recycling bin

Bin openings make it difficult

Preferred signage and bins were identified

Pre-Questionnaire Results

Step 2: Develop strategy shown to be effective in changing behavior.

- Increase recycling bins and improve locations
- Pilot a visually appealing, bilingual recycling bin
- Pilot new bilingual signage and posters that are culturally sensitive and easy to understand
- Expanded outreach at staff and student orientation
- Student workers in charge of collecting recyclables

Increase Recycling Bins and Improve Locations







BINS LOCATED NEAR TRASH CANS



BINS ADDED TO OFFICE AREAS, COMMONS, AND CONFERENCE ROOMS

Pilot a visually appealing recycling bin





Pilot new signage and posters





Communication: Removing Barriers and Giving Perspective

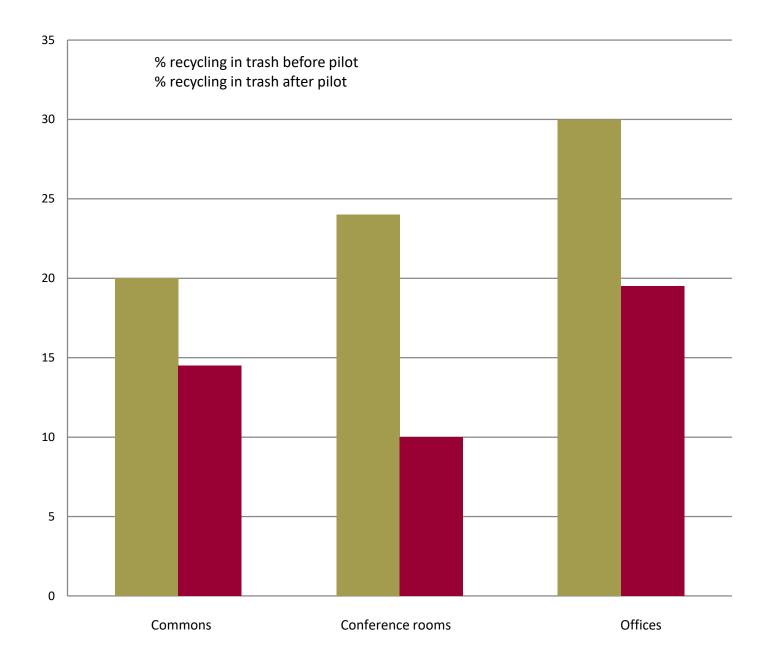
Bottle filling stations make it easy to fill water bottles.

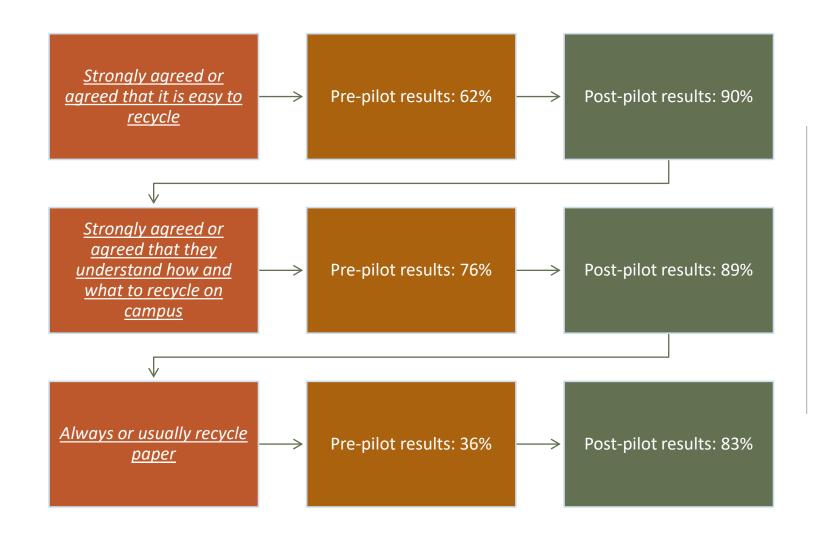
Bottle filling stations have a tally at the upper right that counts the number of bottles filled.



Pilot Project Results – Did Recycling Rates Improve?

After only 2 months of the pilot program, there was a significant decrease in the amount of recyclables found in the college's trash.





Post-Pilot Questionnaire Results

Lessons Learned



On going process! In a college setting you are evolving messaging every year



Buy in from administration and FACILITIES is crucial



Empower everyone to take ownership



Relying on students for recycling has benefits and problems



Dream big! Zero Waste!



Additional Resources

- Video Sustainability and Beyond: The Fond du Lac Story: https://www.youtube.com/watch?v=sd-ajqYhrd4
- Tribal CBSM Training Guide and Recycling Toolkit Fond du Lac Band of Lake Superior Chippewa /EPA Region 5: https://www.epa.gov/tribal-lands/tribal-community-based-social-marketing-training-guide
- Presentation General Outreach Tips and Tricks for Environmental Programs

 Heidi Brow and Alexis Wallick, Pala Band of Mission Indians, 2020 Tribal
 Lands and Environment Forum:
 https://mediaspace.nau.edu/media/0 4k8vhr2c





THANK YOU!

Angel Ip
ip.angel@epa.gov

To contact your Region's EPA Tribal Waste program contacts:

https://www.epa.gov/triballands/forms/contact-us-abouttribal-waste-management



