Mid-Atlantic Healthy Ocean Ecosystem Action 4: Marine Debris Mid-Atlantic Regional Planning Body Meeting update June 20, 2017

MID-ATLANTIC REGIONAL

OCEAN ACTION PLAN

Develop regionally appropriate Marine Debris reduction strategy

- Build on existing efforts
 - Ensure strategy is appropriate to the region and is socially, politically and economically feasible to implement
 - Develop strategies which may include source reduction, cleanups, public outreach, education, and social marketing campaigns

Steps to accomplish action

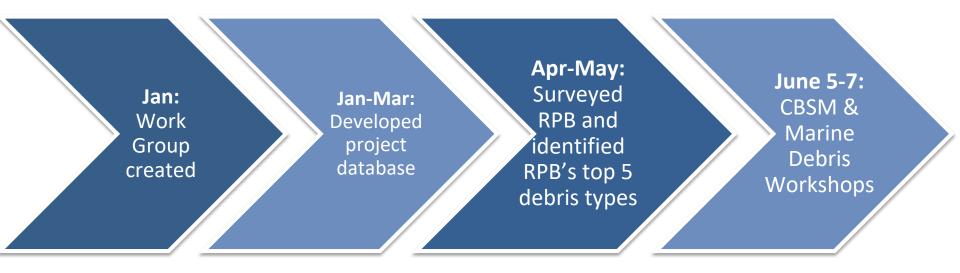


 Identify existing efforts and prioritize options for a marine debris type to target for reduction



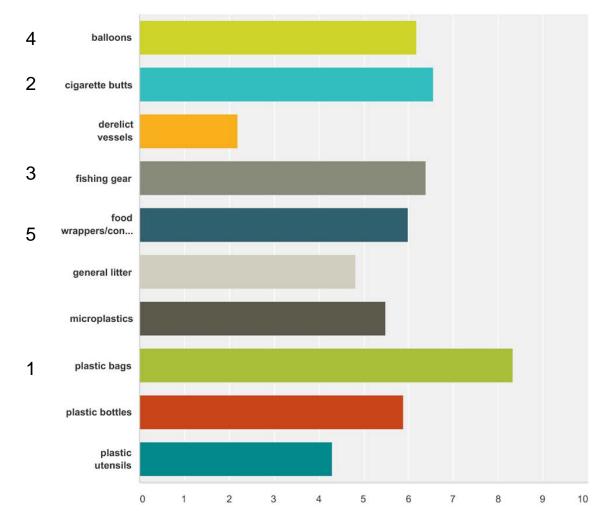
- 2. Present options for selecting a marine debris type to the public and RPB
- 3. Implement selected strategies with the engagement of responsible parties

Timeline of Past Activities (January - June 2017)



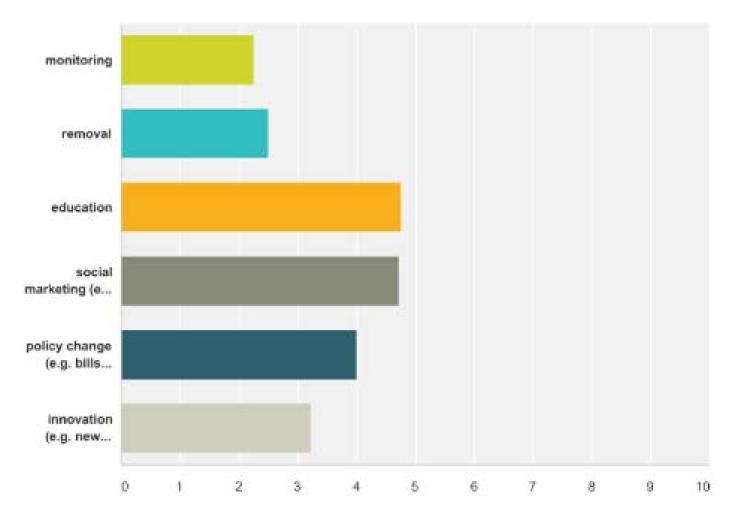
Results of RPB Survey

Most Important and Feasible Marine Debris Type for Mid-A RPB Focus



Results of RPB Survey

Most Important and Feasible Project Approach



Most Harmful Marine Debris



Community-Based Social Marketing (CBSM)





Concepts:

- Foster sustainable *behavior change*
- Proven more effective than traditional, information intensive education
- Speaks directly to the barriers and benefits an individual experiences when changing behaviors

Community-Based Social Marketing (CBSM)





Steps:

a.Select specific behavior to change

b.Identify barriers & benefits (research)

a.Develop strategies using i.commitments/pledges ii.social norms iii.social diffusion iv.prompts, etc. v.effective messages vi.incentives vii.convenience

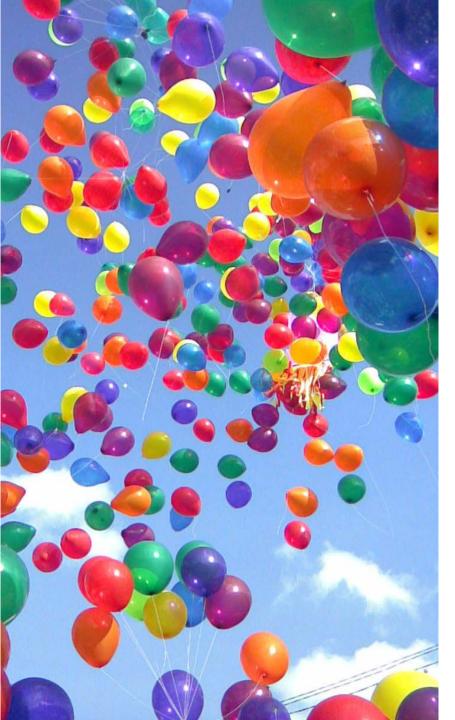
b.Conduct a pilot to test effectiveness c.Implement broadly & evaluate

June 7 Workshop Results

27 Attendees:

Assessed several marine debris types

Ranked ideas and determined the top 3



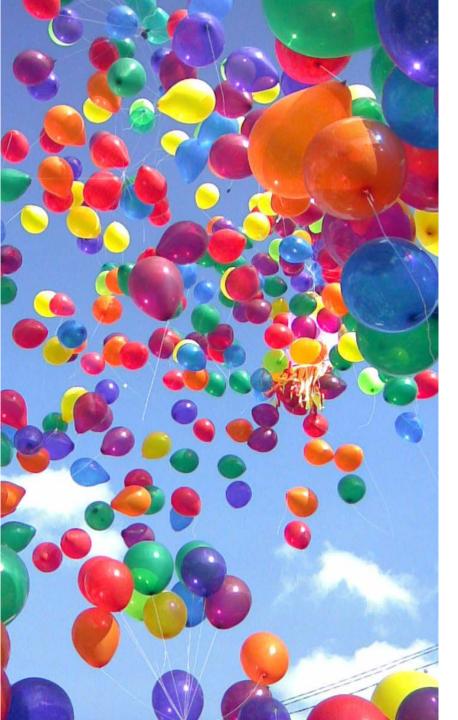
1. Balloons

Threats:

- West to east airshed route carries balloons to the Atlantic
- Ingestion
- Entanglement

Recommended Approach:

- Community Based Social Marketing to reduce balloon releases
 - Build on existing VA pilot study by conducting baseline research on barriers and benefits in the other Mid-A states
 - Map chain of behavior
 - Identify end-state behavior
 - Identify benefits and barriers
 - Social diffusion



1. Balloons

Pros

- Initial literature search, specific behaviors, and barriers and benefits research already completed in one state - not starting from scratch
- Balloon ingestion noted as severe threat by Mid-Atlantic aquaria involved in animal rescues and strandings
- Releasing balloons is not a behavior or habit carried out by many people so should be feasible to reach the audience

Cons

 Not yet perceived as a serious problem



2. Plastic Bags

Threats:

- Ingestion
- Multiple ways bags can reach the ocean
- Aesthetic impact

Recommended Approach:

- Community-Based Social Marketing
 - First identify pathways for plastic bags getting to the ocean (e.g., storm drains, garbage trucks, careless individuals, etc.)
 - Determine which behaviors contribute the most bags or focus on behavior change to forego plastic bags
 - Map the chain of behavior
 - Identify behavior
 - Use prompts/pledges if problem is simply forgetting to use a cloth bag
- Some programs already in place, but additional CBSM effort could pave way for policy change
- Target audience could be huge
- RPB support for background research needed



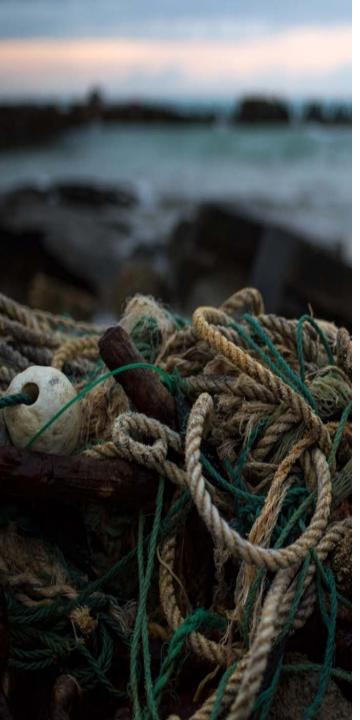
2. Plastic Bags

Pros:

- High threat according to Ocean Conservancy
- Huge numbers of plastic bags
- Many programs already in place but unknown whether any use a CBSM approach

Cons:

- May be a more difficult behavior to change
- Many local efforts are in place and are effective
- Need to conduct initial steps of CBSM (lit search, benefits & barriers, chain of behavior) to understand how bags are being released into the environment and/or what barriers exist to the desired behavior change



3. Derelict Fishing Gear

Threats:

- Ingestion
- Entanglement
- Ghost fishing gear continues to catch and kill animals

Recommended Approach

- Focus on pots more data available compared to nets
- Focus on recreational crab potters more easily targeted and more opportunities for CBSM
- Develop a CBSM program highlighting economic losses



3. Derelict Fishing Gear

Pros:

- #1 most deadly marine debris according to OC;
- Very "marine-based" type of debris and may be most appropriate for the RPB to address working with the MAFMC
- Some work on ghost pots has been done that potentially could be expanded with a CBSM approach
- Demographics engaged in rec crab potting may be clearer target

Cons:

- May also be appropriate as an action within the OAP's Commercial & Recreational Fishing actions - may be other venues to address the problem
- Behaviors could be difficult to change



Cigarette Butts

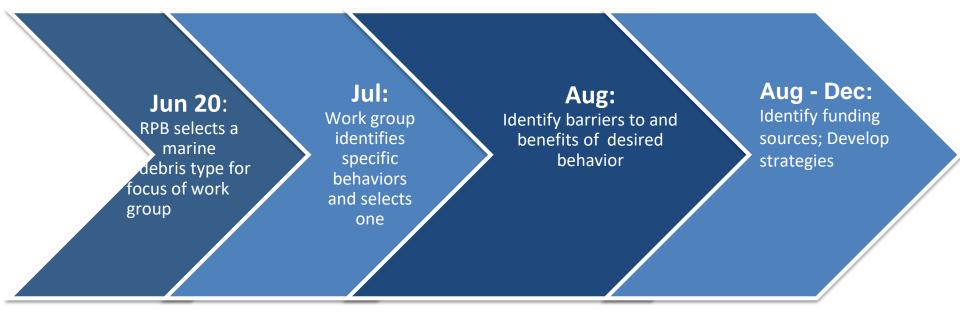
- Important debris types but ranked lower during June 7 workshop
- Littering cigarette butts is extremely difficult behavior to change - Keep America Beautiful has spent millions already and has a program and grant funding available
- Potential project with Shinnecock Nation could be pursued given their ability to sell cigarettes to a large audience but difficult to implement on regional scale.



Single-use Plastic Food and Beverage Items

- In aggregate, these items are common and harmful types of marine debris.
- Since CBSM recommends identifying specific and "non-divisible" actions, workshop participants determined that this category was too broad.
- There might be interest in concentrating on aspects of this category: for example, replacing single-use plastic straws with paper straws or reusable, washable metal straws.

Timeline of Upcoming Activities (June - December 2017)



Questions?