

# STAC Integrated Monitoring Workshop



April 12<sup>th</sup> to 13<sup>th</sup>, 2016

# DAY ONE

- **Day 1, Session 1 – Common Understanding Phase**

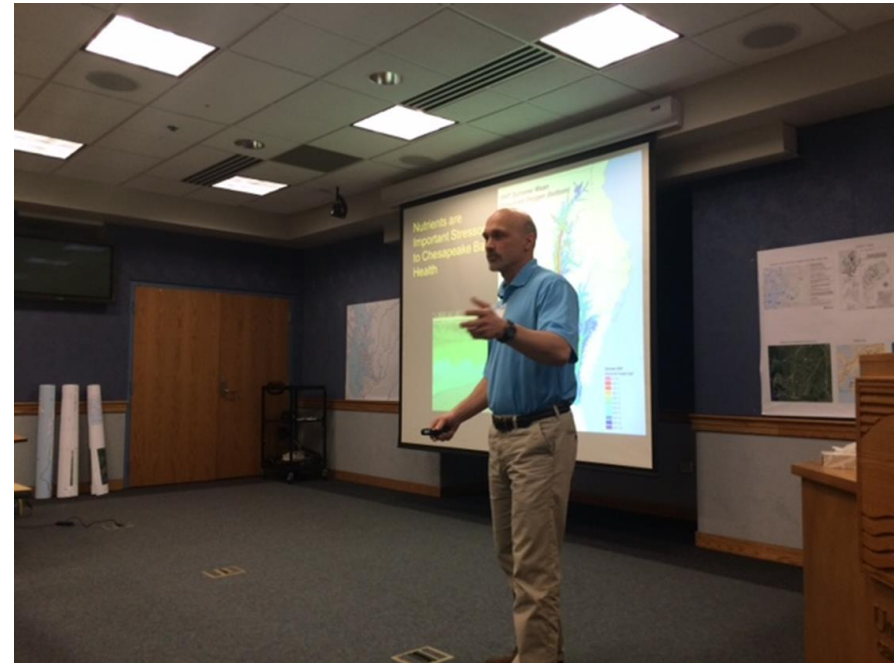
***Overview of Existing Monitoring Networks in the Choptank River Basin related to select Chesapeake Bay Agreement outcomes.  
(Moderator: Peter Tango)***

# Tom Fisher: Water quality and agriculture (UMCES)



BMPs on Farmlands in the Upper Watershed

# Scott Stranko: Bugs and fish (DNR)



More is needed besides the BIBI to determine stream health.

## Ken & JJ: SAV (VIMS)



## Bruce Vogt: Oyster restoration (NOAA)

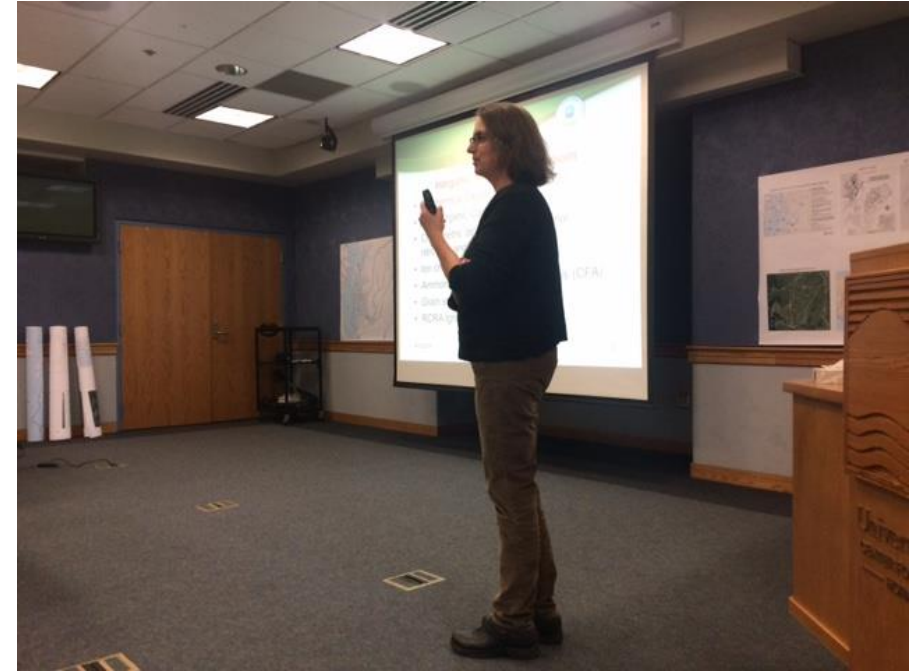




# Charlie Poukish & Matt Stover: PCBs and Hg (MDE)



# Jennie Gundersen: Fort Meade EPA Lab Capabilities



# Day One

- Day 1, Session 2 – Participatory Challenge Phase: Barriers to Integration Exercise.

***Session 2: Barriers to integration of these networks and initial solutions to overcome barriers. Prioritize and discuss the types of barriers to enhance monitoring integration (Moderator Bill Dennison)***

# Ice Breaker: Conceptionary Activity

## Main Barriers to Monitoring and Integration

### Voting for Barriers

#### **Objectives not aligned (19)**

System inertia (9)

#### **Communication gap (19)**

Different protocols (2)

Vested interests (2)

Variable data quality (7)

Instrumentation (0)

Lack of rewards (5)

#### **\$ (20)**

Variable end uses (5)




Guess the Keywords

# Conceptionary

**Conceptionary** Barriers to developing integrated monitoring programs

**Concept:** Difficulty in obtaining reliable and equitable funding

**Keywords:** inflationary costs  
unbalanced funding  
sporadic funding

  
Chesapeake Bay Program  
Science. Restoration. Partnership.  
[ian.umces.edu](http://ian.umces.edu)






# Conceptionary

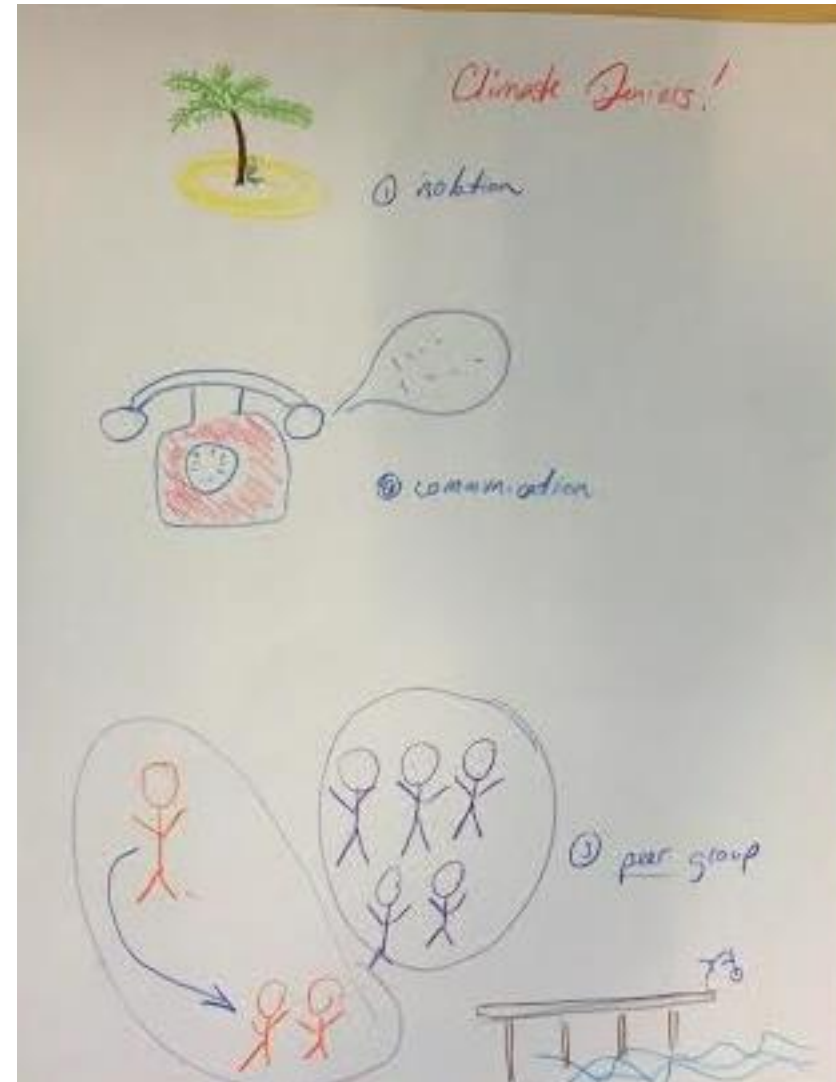
**Conceptionary** Barriers to developing integrated monitoring programs

**Concept:** Lack of communication between monitoring groups

**Keywords:** isolation  
communication  
peer groups

  
Chesapeake Bay Program  
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# Conceptionary

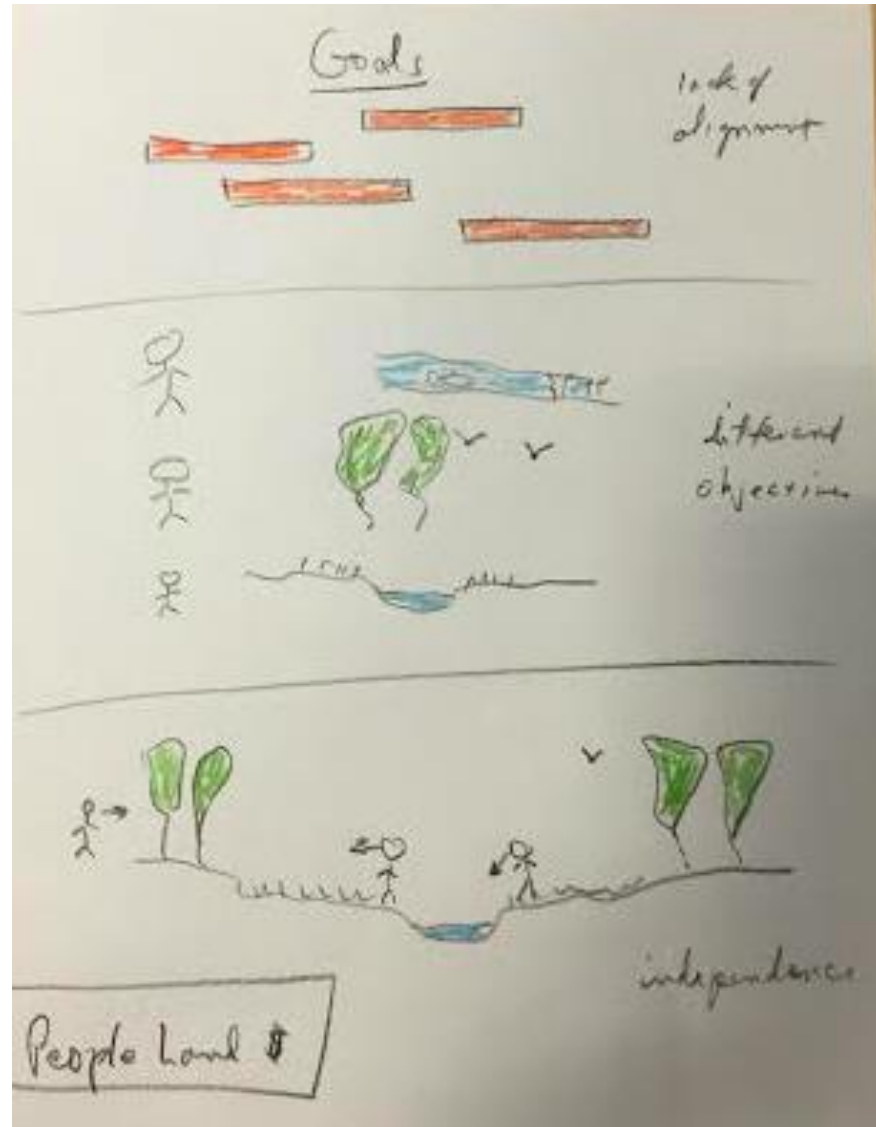
**Conceptionary**

Barriers to developing integrated monitoring programs

**Concept:** Monitoring objectives not aligned between groups

**Keywords:** alignment  
objectives  
independence

  
Chesapeake Bay Program  
Science. Restoration. Partnership.  
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# Brainstorming how to overcome barriers

ming lack of communication between monitoring groups

Multiple Databases

Barriers: Laziness

Lack of funding

Lack of resources → Finding willing partners  
→ need to make priorities

Lack of trust  
→ different goals & objectives  
→ different guidelines

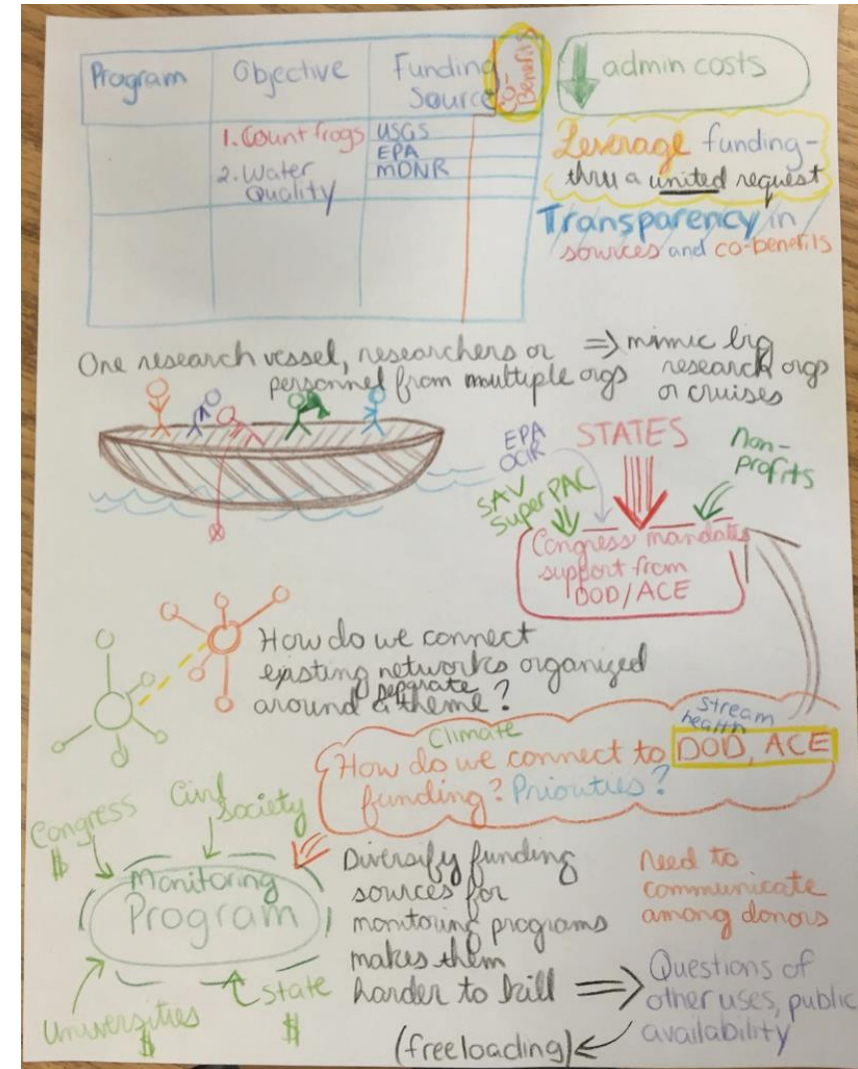
No clear message

Solutions: Get rid of red tape?

One dedicated group to oversee all data collection groups

One stop database

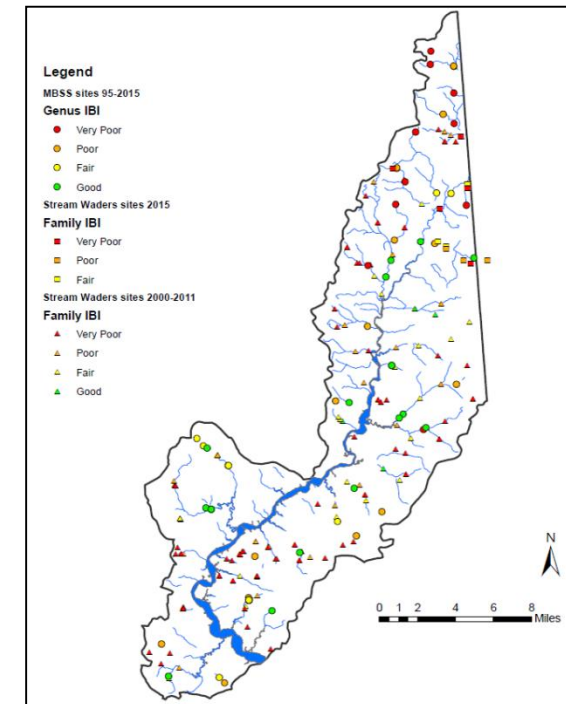
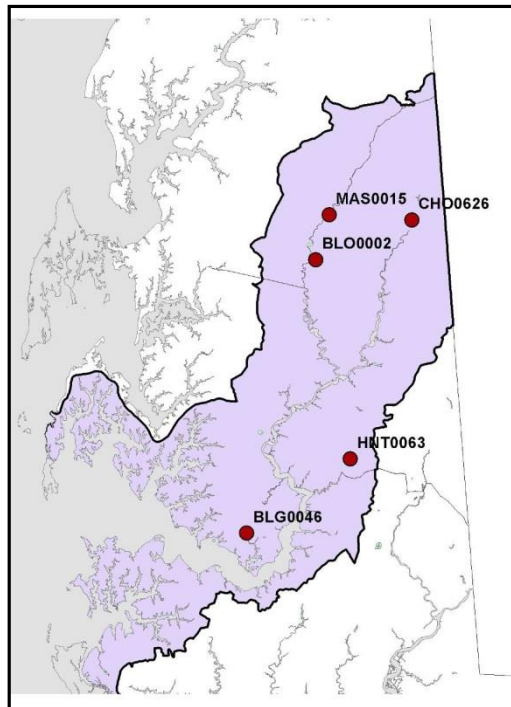
Inventory of watersheds group



# DAY TWO

- Day 2, Session 3 – Participatory Action-Solution Phase

## ***Session 3: Opportunities and Solutions to Better Integrating Networks (Moderators: Peter Tango and Mindy Ehrich).***





# Mapping and Discussions Group Exercise







# Some Recommendations and Suggestions to Pursue Alignment and Integration Across Outcomes

- Use SAV aerial survey for wetland and shoreline delineation
- Improve fish data availability
- Collecting new fish data in underrepresented habitats
- DATABASE of all data
- Ecological studies with the oyster restoration, linking to WQ
- SAV survey in previously unsurveyed areas. Needed in the upper Choptank R.
- Work with Citizen Science groups that have highly developed monitoring programs
- Incorporate MDE shellfish monitoring data
- Further connect tidal and non-tidal/upland monitoring needs, resources and objectives
- Coordinate groups that are sampling at (or nearly at) the same site
- Integrate upper watershed water quality and biological mapping
- Highlight BMP successes
- Consider additional parameters at the long term monitoring sites (TBD)

# Outcomes of Workshop

- Great discussion and networking
- Follow-up needed to work with ALL participating partners in the Choptank area to fully understand the network to get to a more detailed level of integration
- Citizen Monitoring will be a great link –Midshore RiverKeeper Conservancy has numerous stations that could be collaborated upon