DataBay: Innovation Challenge
Chesapeake Bay Watershed

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Master Watershed Steward
Chesapeake Bay Watershed
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- DC, DE, MD, VA, PA, NY
- Shoreline 11,684 miles
- Area 4,480 square miles
Safe Water
Drink, Swim, Fish, Recreate

- Increase public awareness
- Restore water quality
- Smart applications – push notification
- Open access – 24 repositories
Timely Access to Risk Levels
Water, Aquatic Food, Health and Weather

- Is my water safe to drink?
- Is it safe to swim at this beach?
- Is it safe to eat the fish/shellfish I caught?
- Is it going to rain/flood today?
Metadata Requirements

- Precipitation
- Fish and Shellfish Toxicology
- Drinking Water Quality
- Riverine/Estuary Water Quality
- Flooding/Sea-level Rise
- GIS
Organic Matters - Non-Digital

- Bacteria - Test Strips
- Turbidity - Secchi Disc
- Toxicity - Fish Tissue
- Toxins - Algae Bloom
- E. Coli - Sewage Overflow
Digitally Imaging of Non-Digital Data

- Increase accuracy
- Provide 3rd or 4th Dimension to data – GIS, Date/Time Stamp
- Cost Benefit – Storage and Accessibility
EPA Standards and Risk Levels

- Federal - NOAA National Weather Service, NOAA Fisheries, USGS, FGDC
- State – DNR, Environment
- County – Health Department
- Corporations – Independent Testing Labs
- Universities – Scientists, Researchers and Students
- Nonprofits – Advocates, Stewards, Citizen Scientists
- You
Data Curators
Got Data?

Every Drop Counts!

Thank you

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