Chesapeake Bay Watershed

- 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

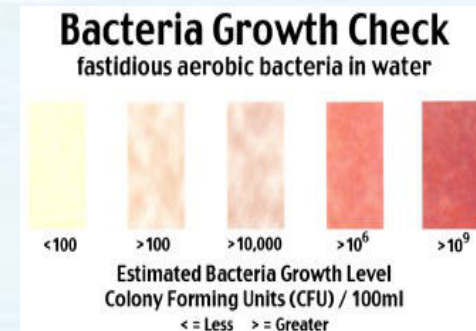# Timely Access to Risk Levels Water, Aquatic Food, Health and Weather

- 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

Bacteria Growth Check
fastidious aerobic bacteria in water

| <100 | >100 | >10,000 | >10^6 | >10^9 |

Estimated Bacteria Growth Level
Colony Forming Units (CFU) / 100ml
< = Less   > = Greater

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 Dr💧p Counts!

Thank you

Carmen M. Skarlupka
CODATA Data at Risk Task Group
sites.google.com/site/dataatrisktg/
carmen.skarlupka@gmail.com
443-370-5263