

Ecosystem Health Report Cards

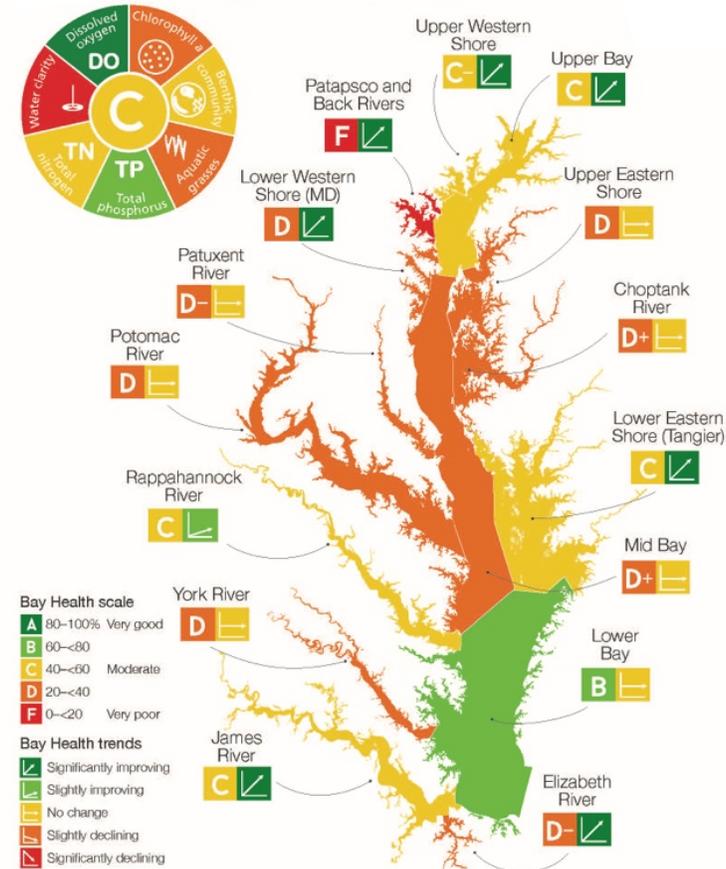
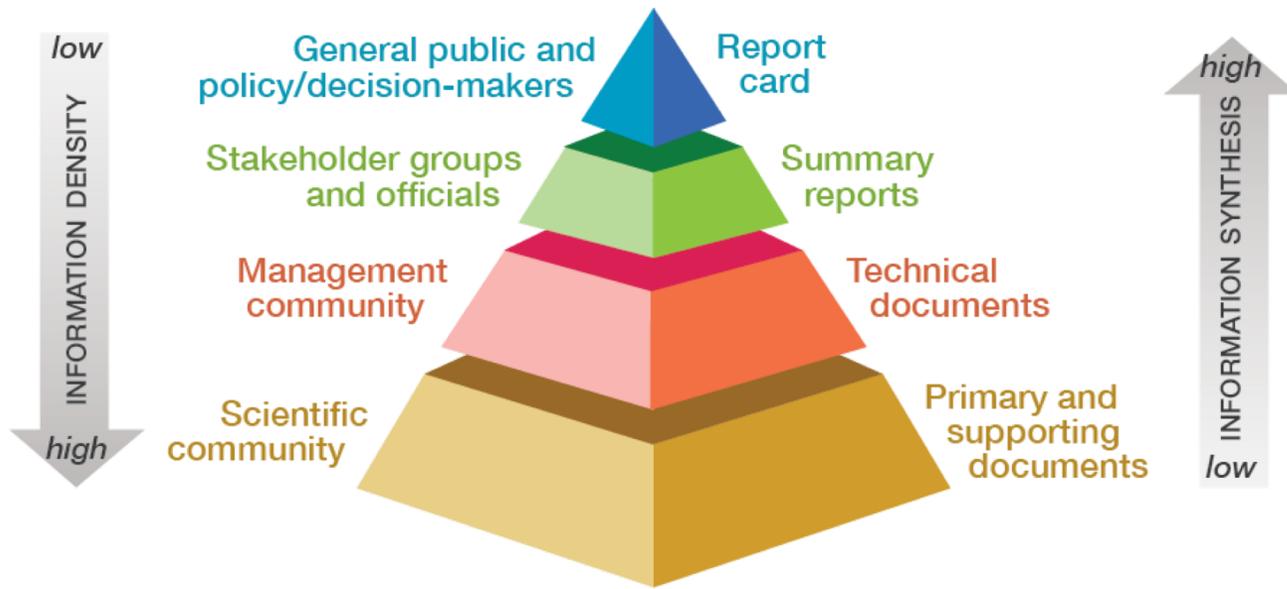
Stakeholder engagement in
environmental decision making

Heath Kelsey
Integration and Application Network
University of Maryland Center for
Environmental Science

OHH Webinar
February 25, 2020

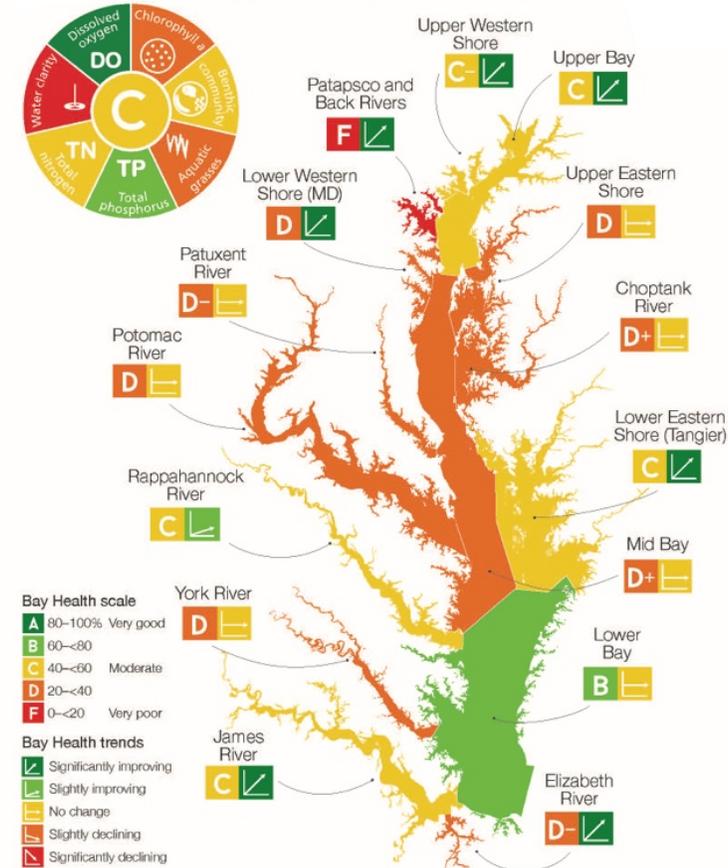
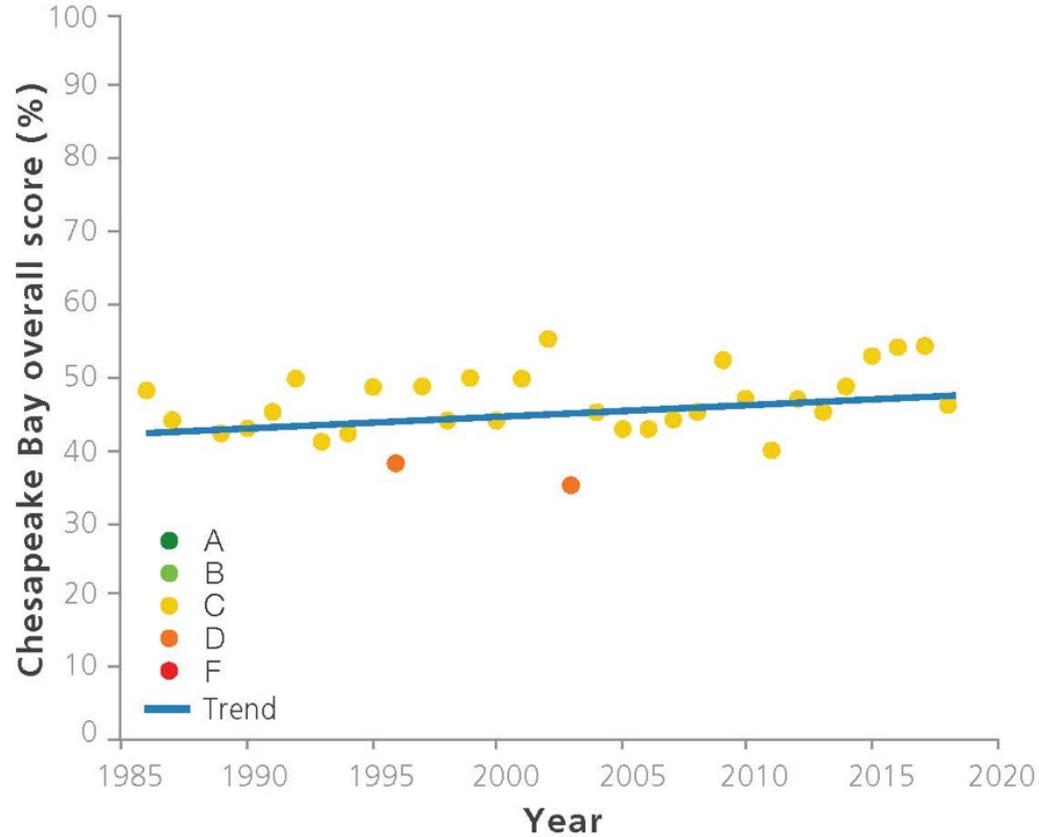


Ecosystem health report cards



Useful for tracking health over time

Chesapeake Bay health scores increasing over time



Have added more societal elements

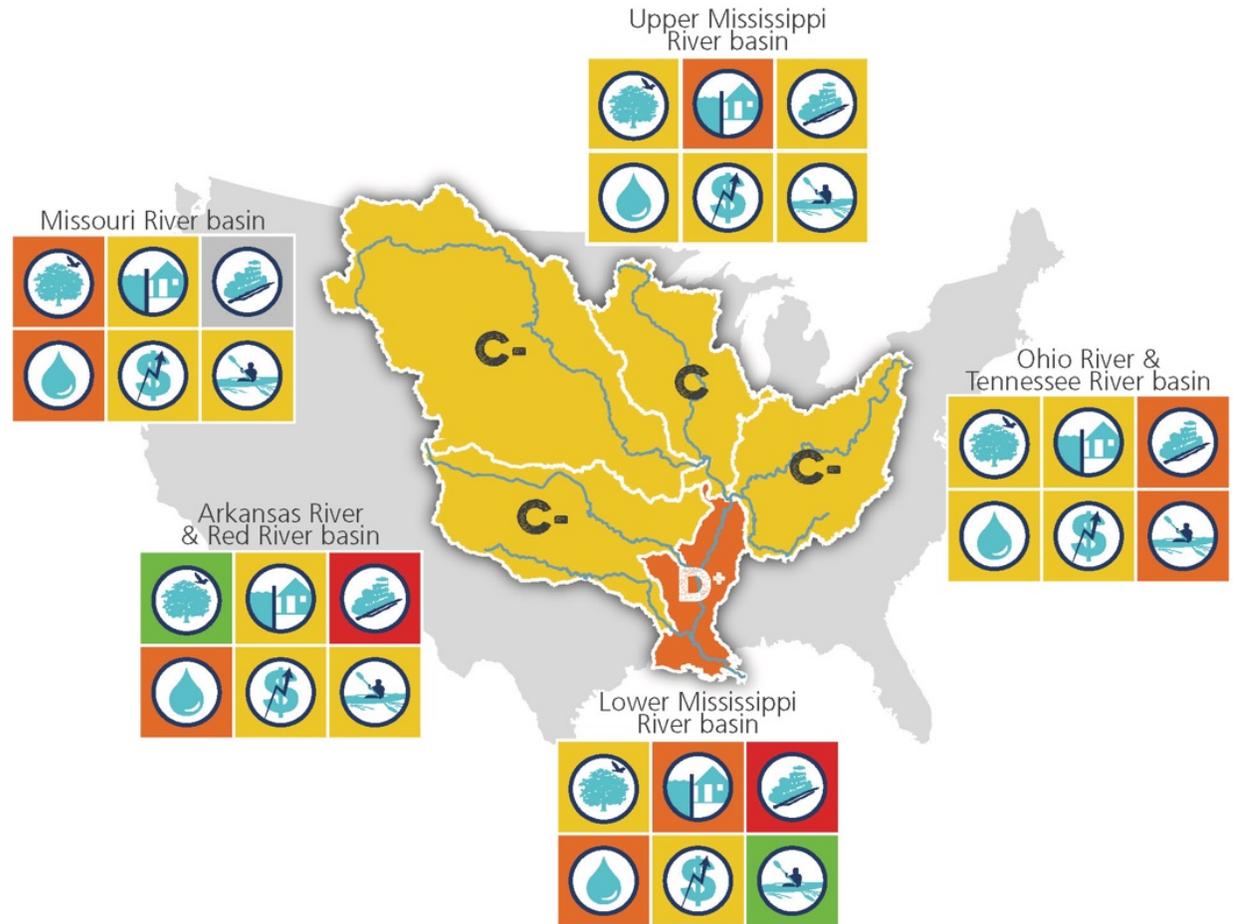
PANEL 1

America's Watershed Initiative Mississippi River Watershed Report Card

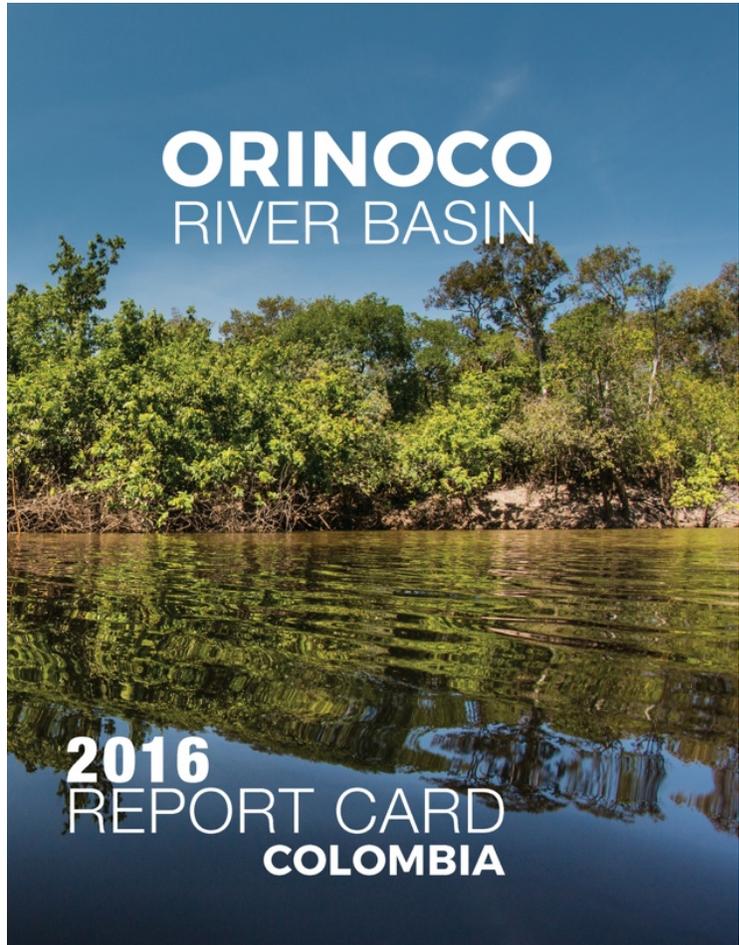
D+

Ecosystems Recreation
Water supply
Economy Transportation
Flood control & risk reduction

Helping people, land and water thrive
America's WATERSHED



Have added more societal elements



The report card process is 5 steps

PHASE I: PLANNING

1 CONCEPTUALIZE

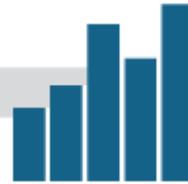


2 CHOOSE INDICATORS



PHASE II: THE REPORT CARD PROCESS

3 DETERMINE THRESHOLDS



4 CALCULATE GRADES



5 COMMUNICATE



PHASE III: RAISE THE GRADE



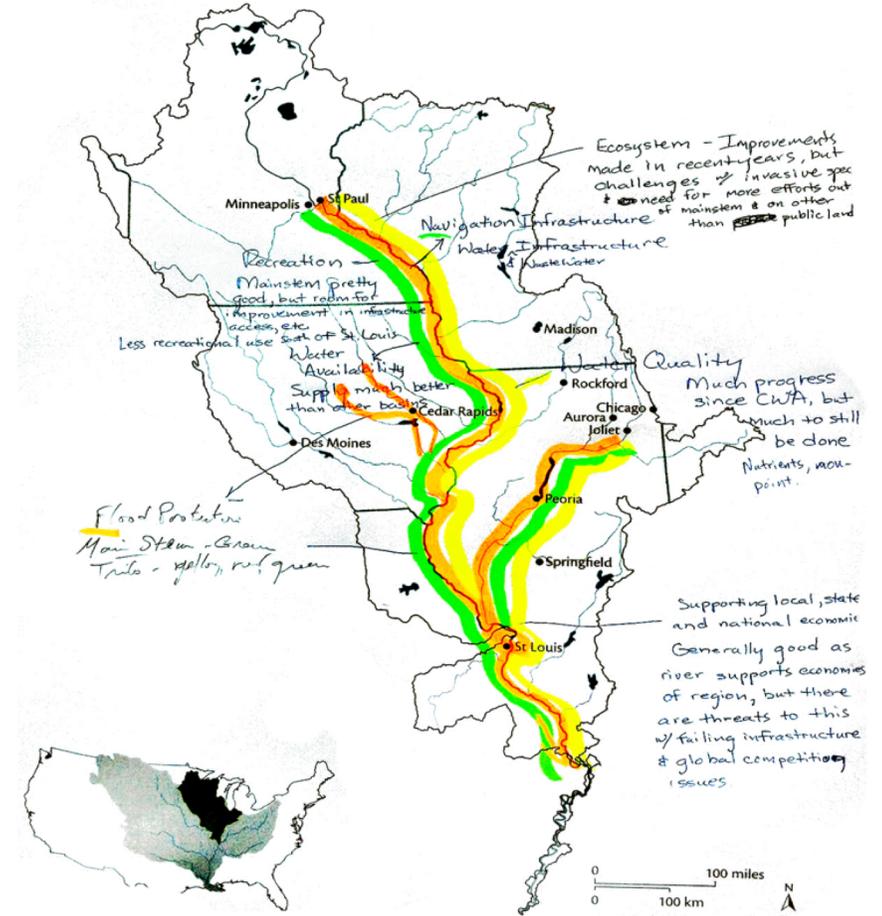
Engaging stakeholders from concept phase



Facilitating 2-way stakeholder communication



Creating new collaborative opportunities



● Existing Report Cards ● Report Cards under-development

Mississippi River
USA



Chesapeake Bay
USA



Long Island Sound
USA



Chilika Lake
India



Upolu
Samoa



Willamette River
Oregon USA



Gulf of Mexico
USA



Orinoco River
Colombia



Kura River Basin
Armenia, Georgia
Azerbaijan



Great Barrier Reef
Australia



Current projects

- Darwin Harbour, Australia
- Kwando River Report Card
- NSF Belmont Project (US, Japan, Philippines, India)
- NOAA Coral Reefs in the Pacific, Atlantic, and Caribbean
- Gulf of Mexico Coral Reefs (Mexico, Cuba, US)
- Upper Rio Grande
- Western Lake Erie Report Card
- Verde River Report Card (released this week!)
- Mississippi River 2020
- Chesapeake Bay Report Card expansion
- MDNR Coastal Adaptation
- Chesapeake Monitoring Cooperative
- NIEHS Oceans and Human Health Center of Excellence