Smarter Government — the Data, the Map, & the Method

University of Virginia
Data Science for the Public
Good Forum
Distinguished Speaker Series

Governor Martin O'Malley

Democrat
Maryland 2007–2015

The ability to model, measure, and map our built and our natural environment — in real-time — in ways all can see...

The ability to manage dynamic systems—regardless of scale—in order to achieve better results for individual people.

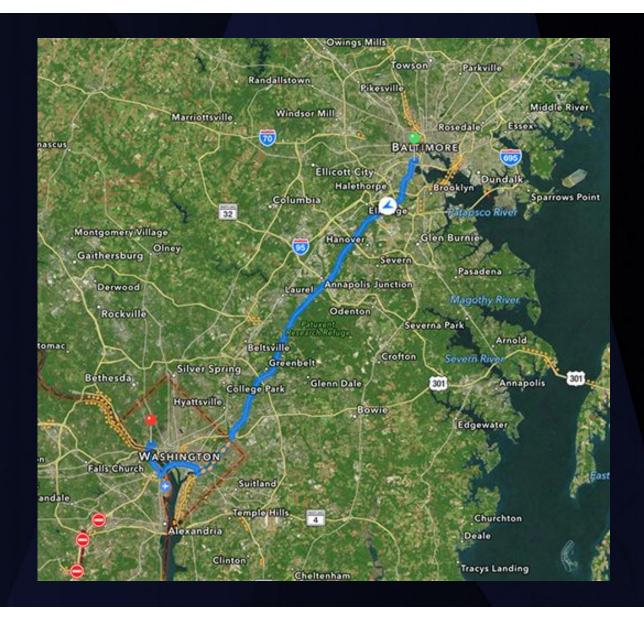
In this new way of governing,... collaboration is the new competition.



"It is from the numberless diverse acts of courage and belief that human history is shaped. Each time a man stands up for others, or strikes out against injustice, he sends forth a tiny ripple of hope."

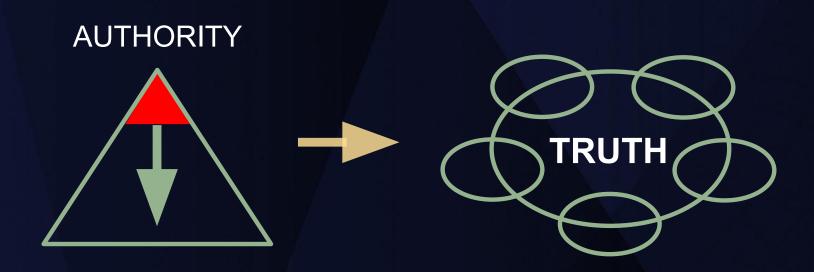
Robert Kennedy

Belief Space and the Internet of Things





The Changing Nature of Leadership Transforming organizations



Shared Understanding



 If the Mayor really wants to know, we can find out. But we'll have to pull all of our people off their other jobs. And it will take weeks.

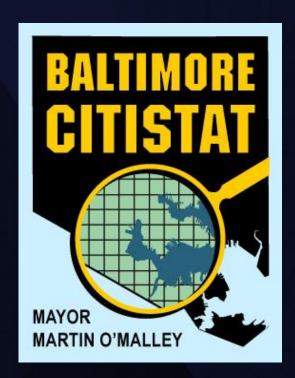
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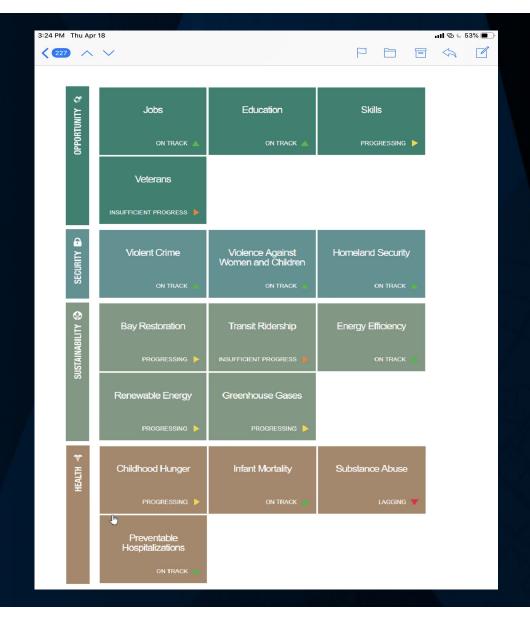
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- I hope everyone forgets about this question before next year's annual budget hearing...

CitiStat Tenets

- Accurate and timely intelligence shared by all
- Rapid deployment of resources
- Effective tactics and strategies
- Relentless follow-up and assessment



Strategic
Goals with
Public
Deadlines





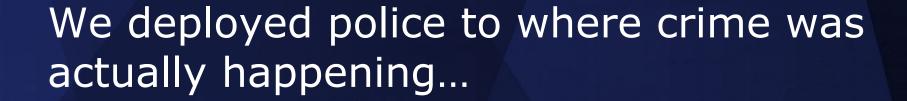
Public Facing Dashboards

But, here's the thing,...

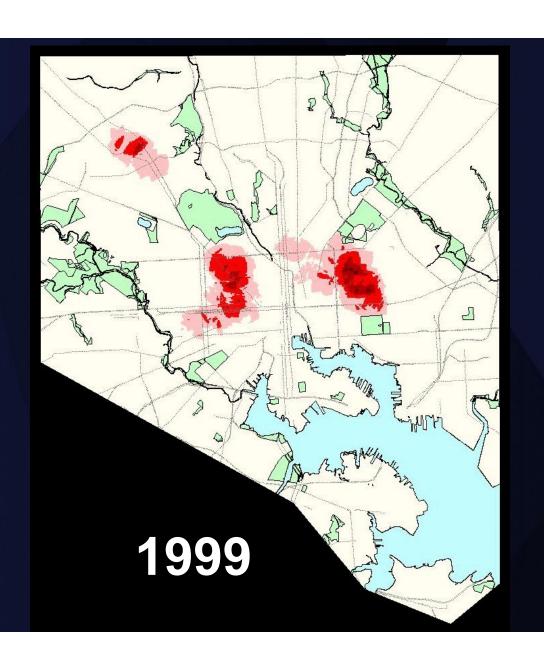
None of this works unless the leader insists — and drives — a repeating cadence of collaboration and follow-up.

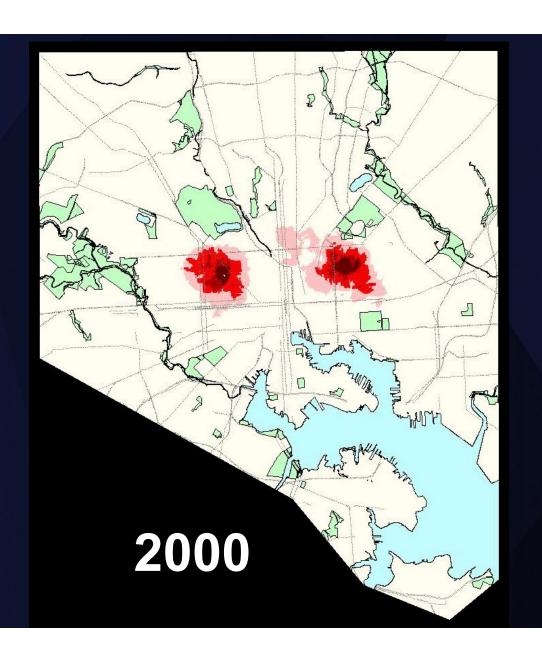


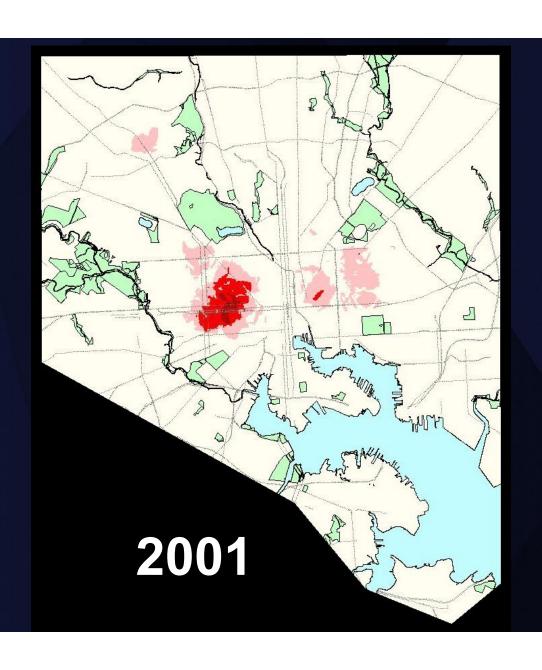
Improving Public Safety

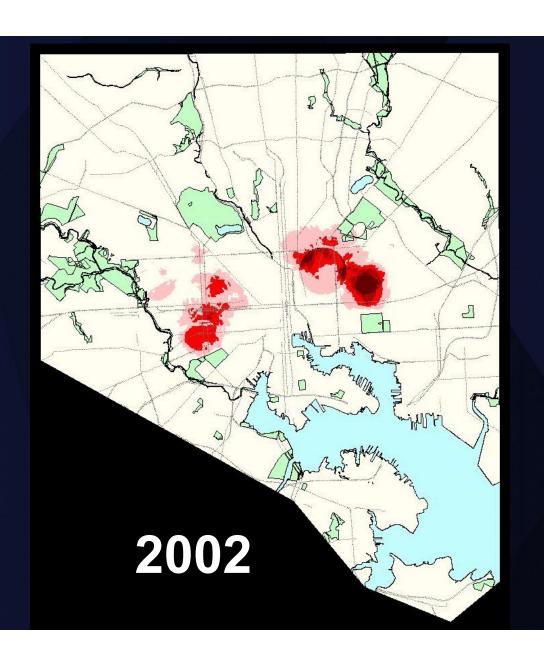


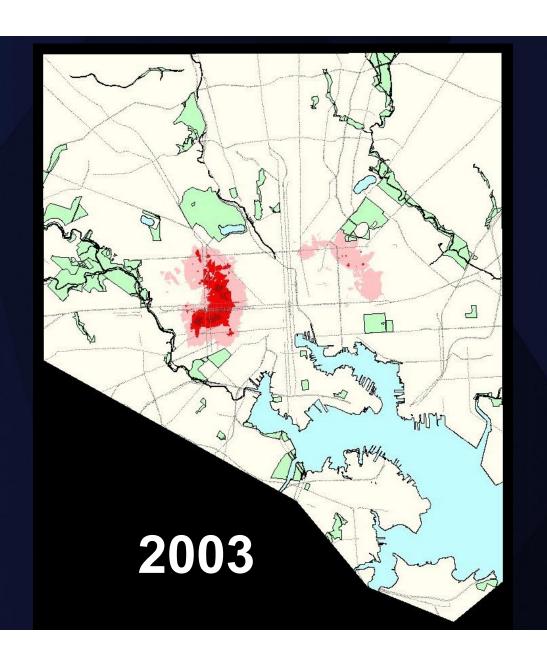


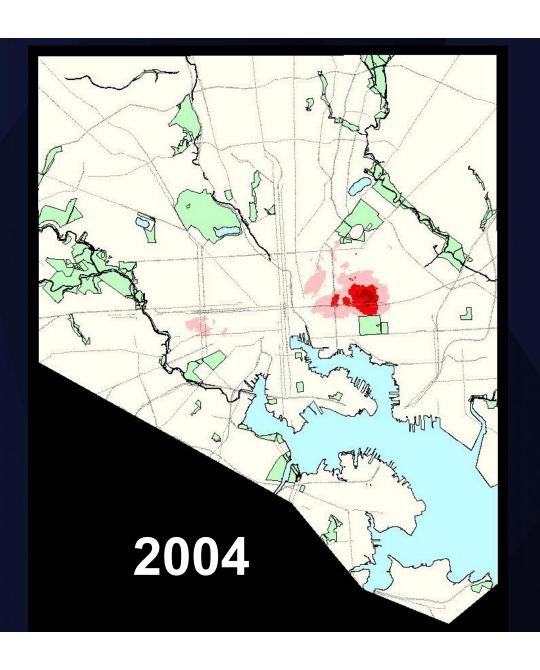


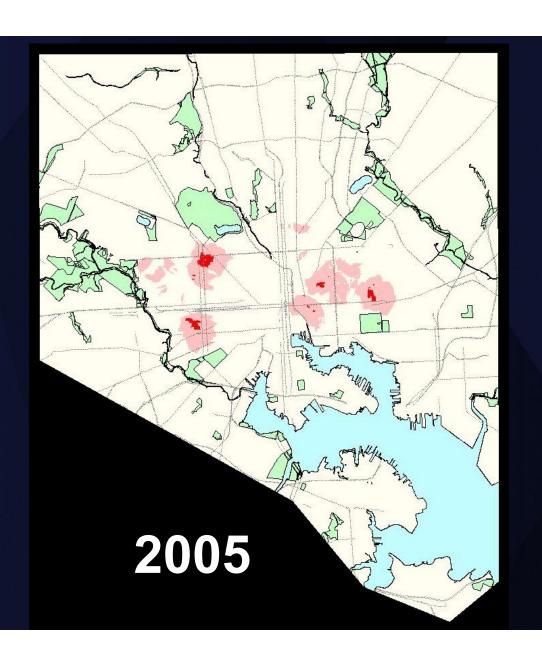


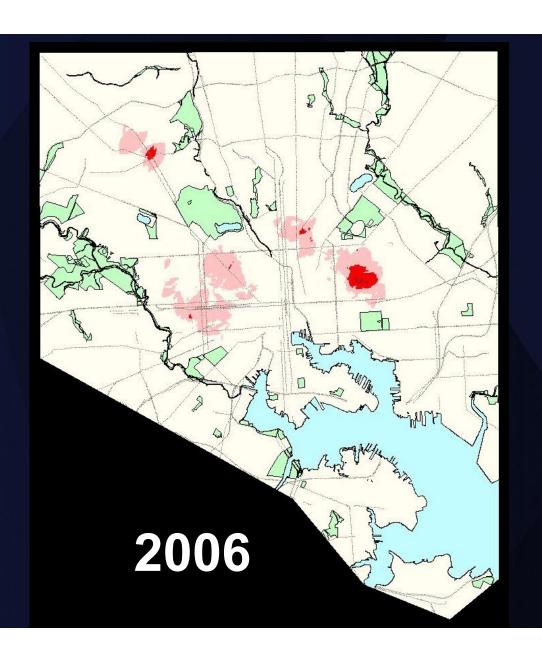


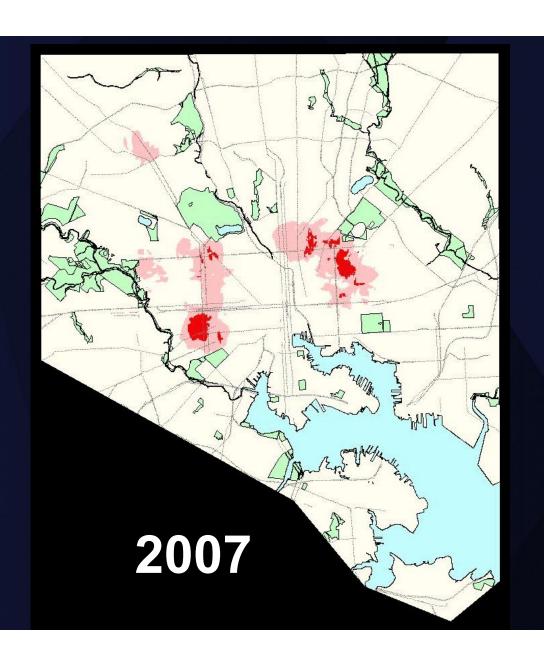




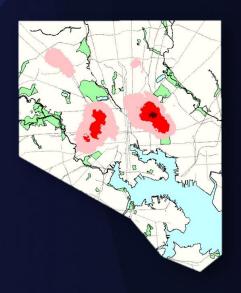




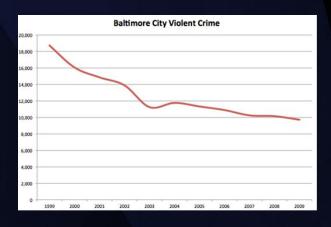




Managing by politics and excuses.... ...giving way to managing for better results







Results: From 2000 – 2009
Baltimore Achieved the Biggest Reduction in Part One Crime of any Major City in America



Data-driven Decision Making

LAPD's data-driven crime fighting evolution

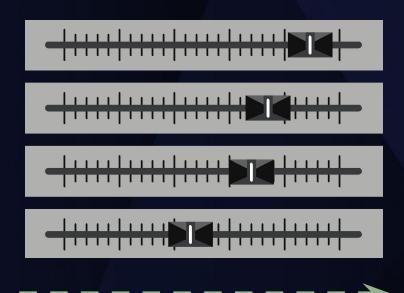
Stove-piped

Intuition based

Query based

Map-Making

2012



Shared by All

Evidence based

Alert based

Analytics

2017

Repairing Roads and Bridges

Minnesota's I-35w Bridge Collapse Evening Rush Hour August 1, 2007



A New Way of Governing is Emerging

Focused on results; driven by "what works?"



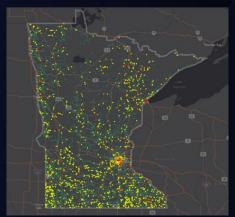
All Bridges

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All Bridges



Bridge Conditions

A New Way of Governing is Emerging

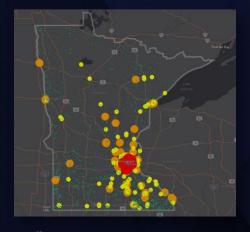
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All Bridges



Bridge Conditions



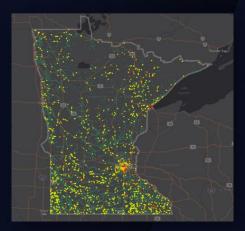
Traffic Volume

A New Way of Governing is Emerging

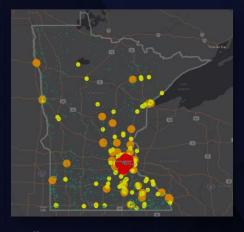
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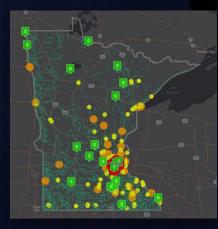
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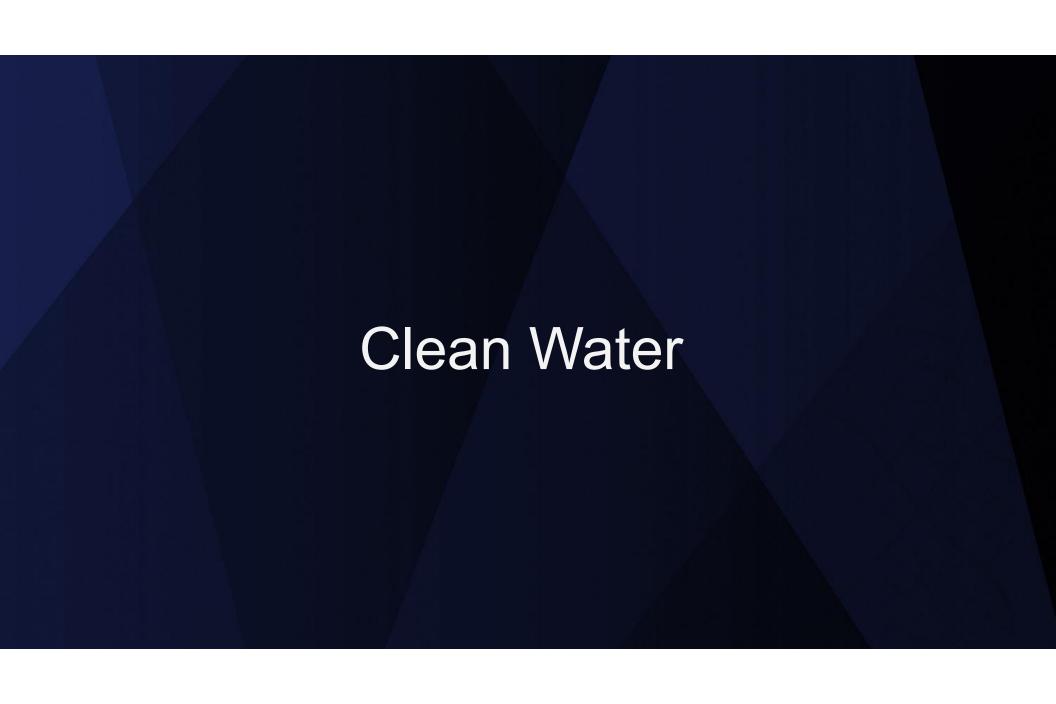
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Traffic Volume

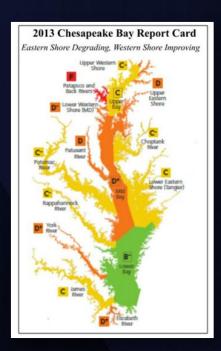


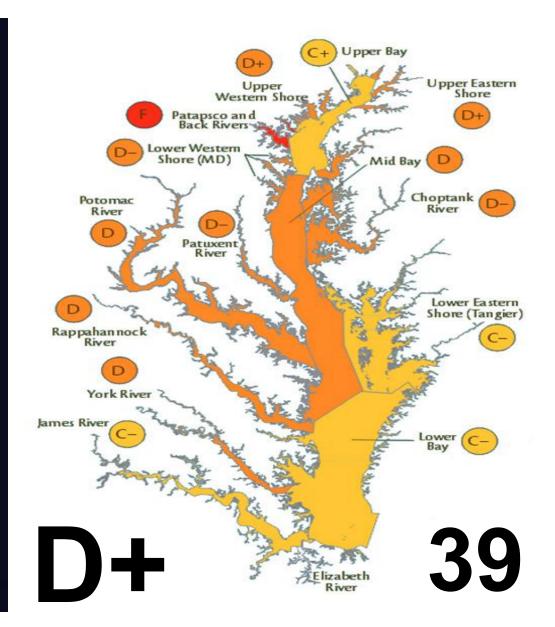
Bridge Investments

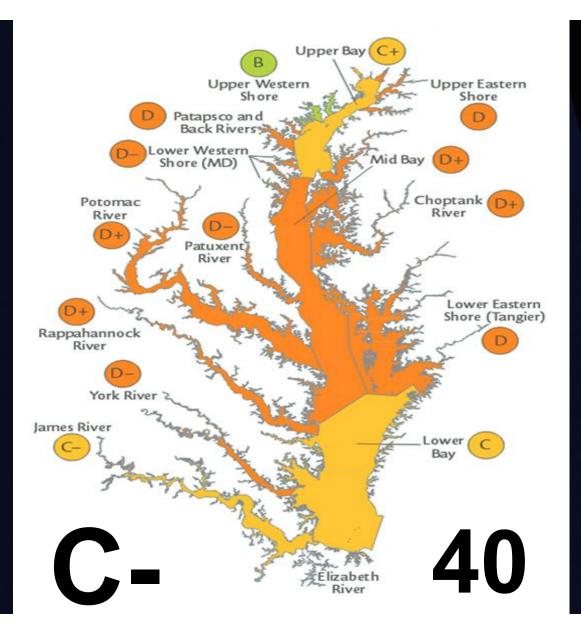


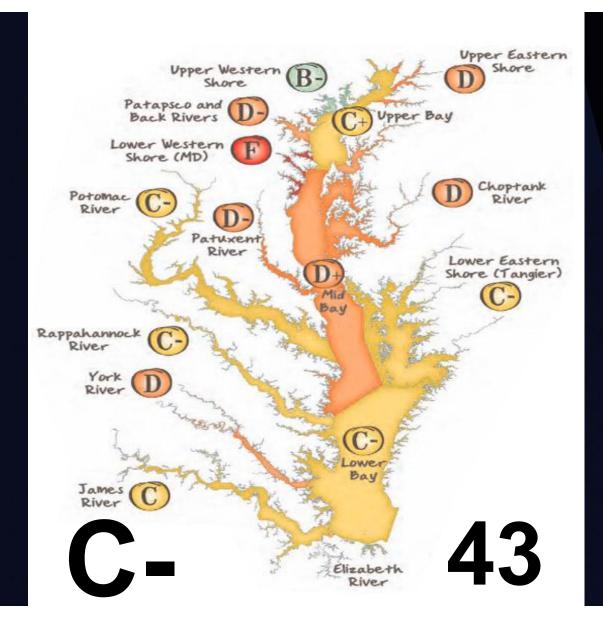
Predictive Analytics Restoring the health of the bay

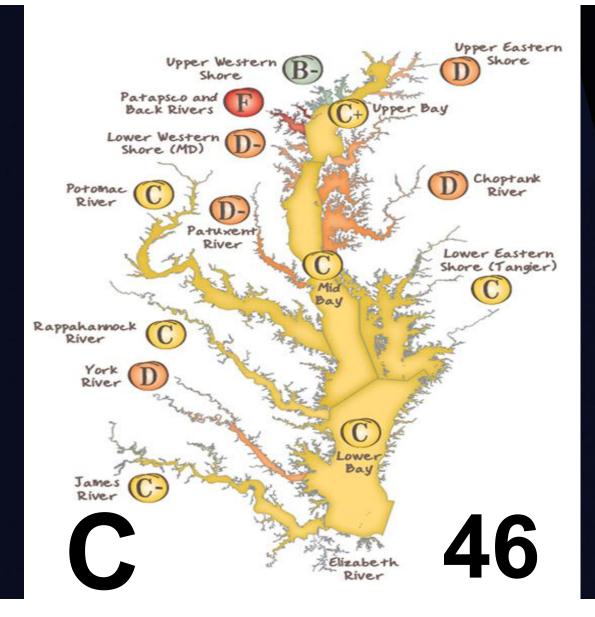


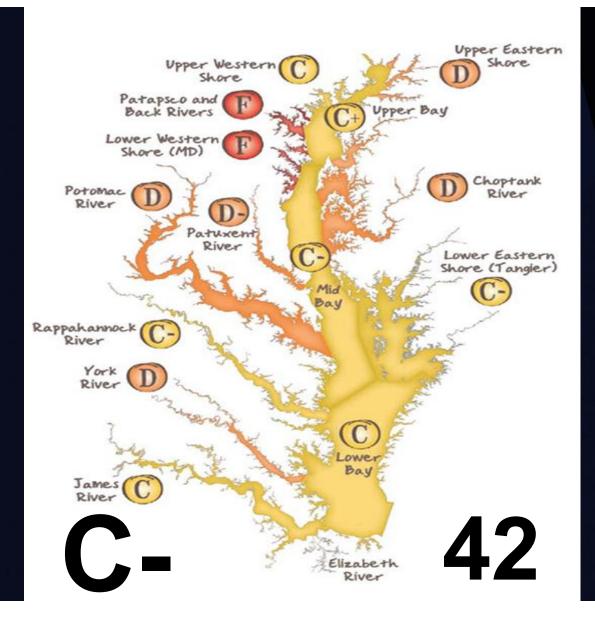


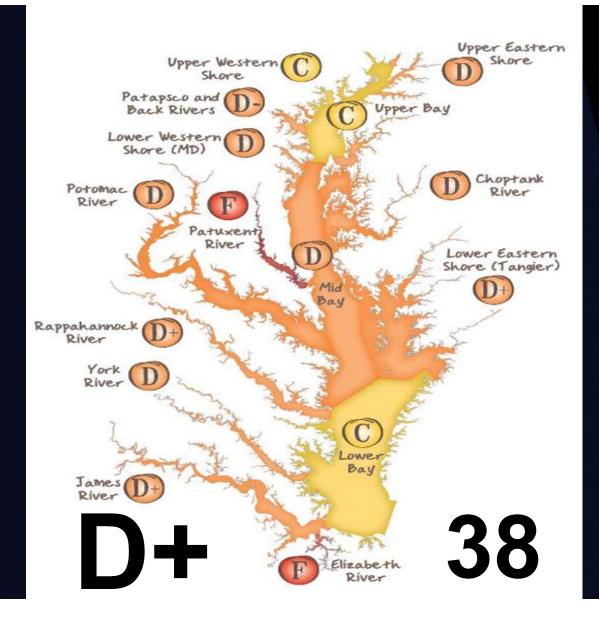


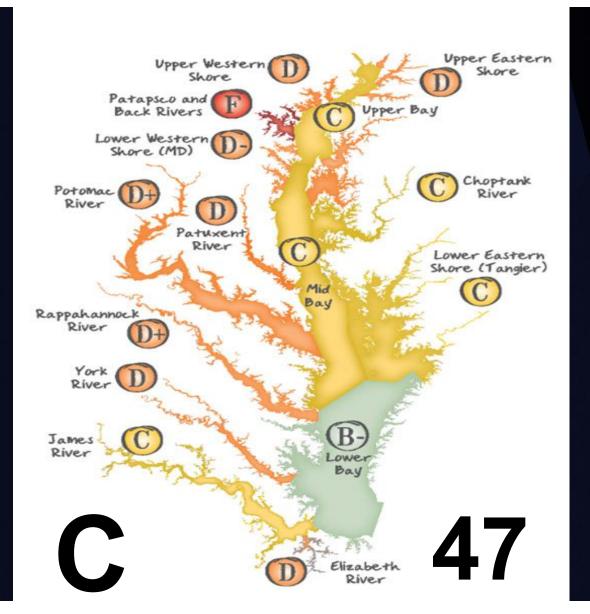


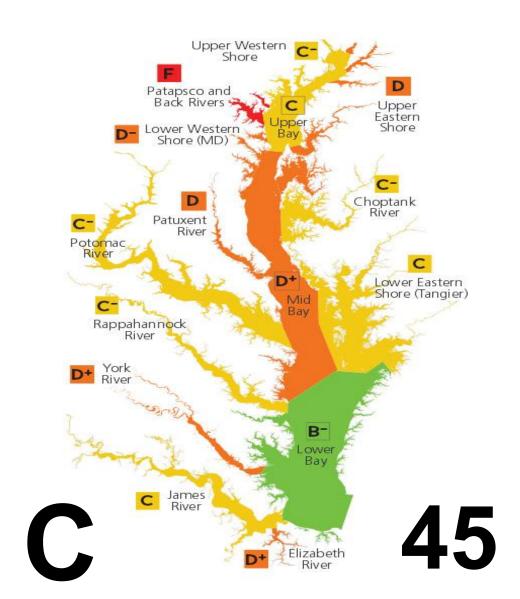


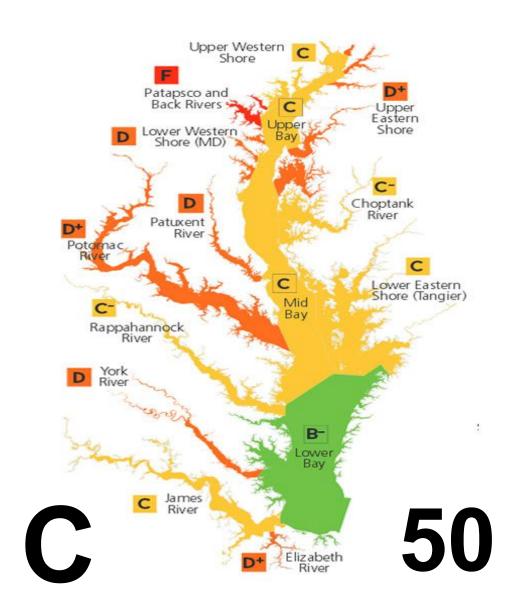


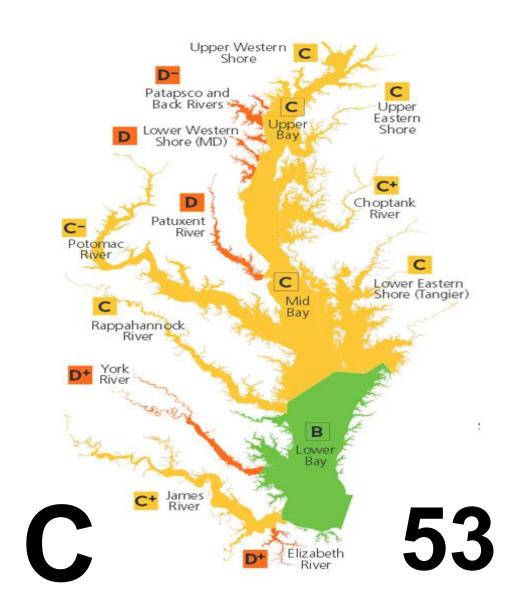


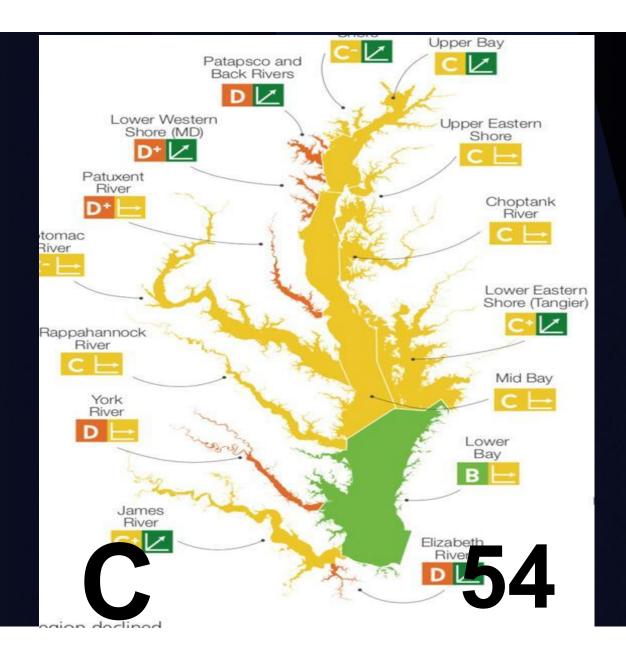


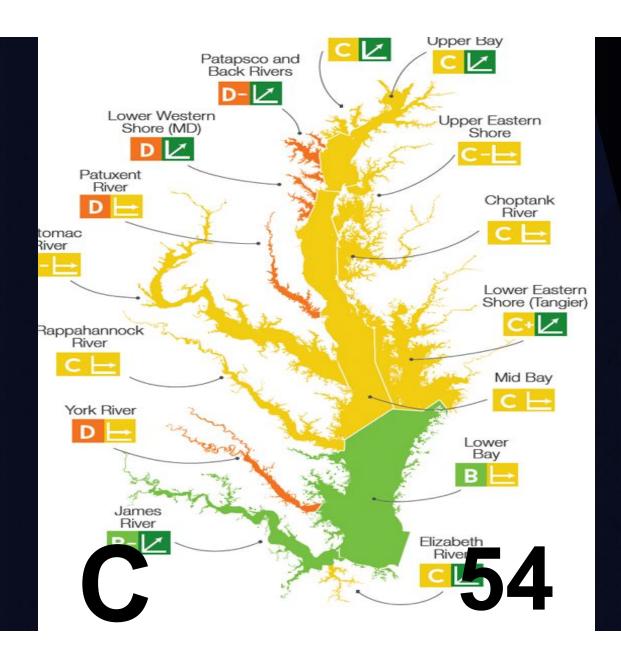


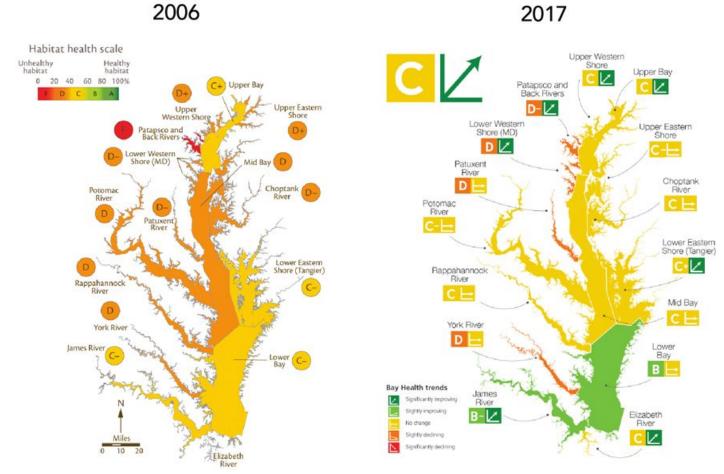












Chesapeake Bay health shows a significantly improving trend despite many pressures on the Bay and its watershed. From 2006 to 2017, the overall average grade improved from a D+ to a C. For more information, visit <u>chesapeakebay</u>. <u>ecoreportcard.org</u>.

So,...

Embrace a radical commitment to openness and transparency.

Measure Performance to lift up your leaders.

Have the courage to set Public Goals with Deadlines.

Start, and don't stop.

