



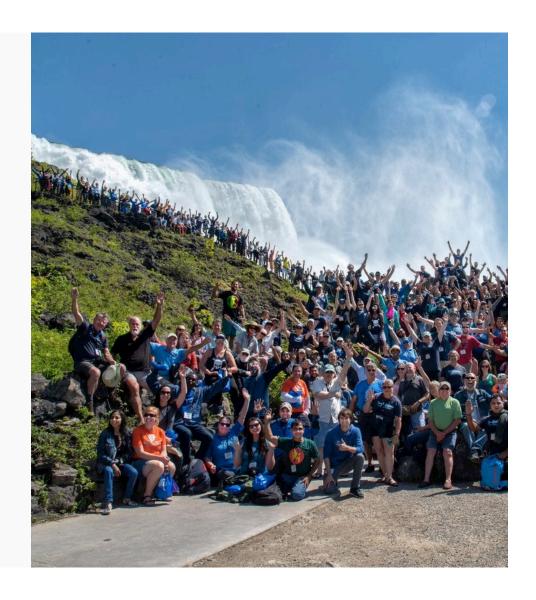
Citizens Advisory Committee | 2.21.19

Creating the Code for Change

O 1 Organizational Overview

A brief walkthrough of our history and programs

"Our Technology is a bridge to making environmental issues resonate with thousands inside and and outside the choir"







John Dawes

Executive Director and Founder

Chesapeake Commons



Brendan McIntyre
Lead Software Engineer and Founder
Chesapeake Commons



Erin Hofmann
Strategy and Application Lead
Chesapeake Commons

Creating the Code for Change

Water Reporter Unifying volunteer monitoring programs across the nation

Bloodlines of our nation



3.5 million miles of streams across the U.S.



1 in 3

of us get drinking water from streams affected by the Clean Water Rule



357

thousand miles of streams are public water systems

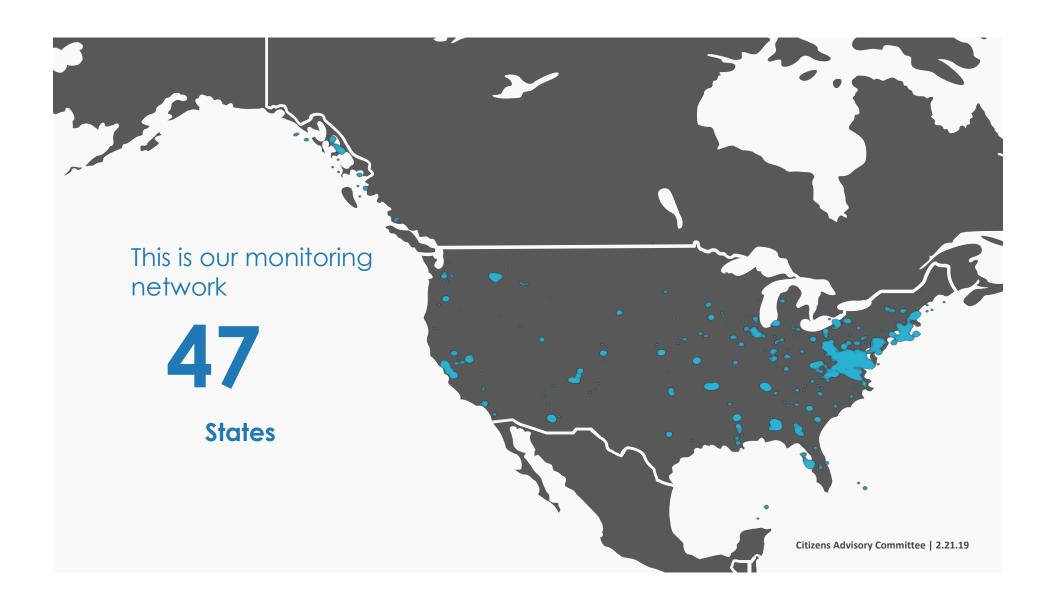


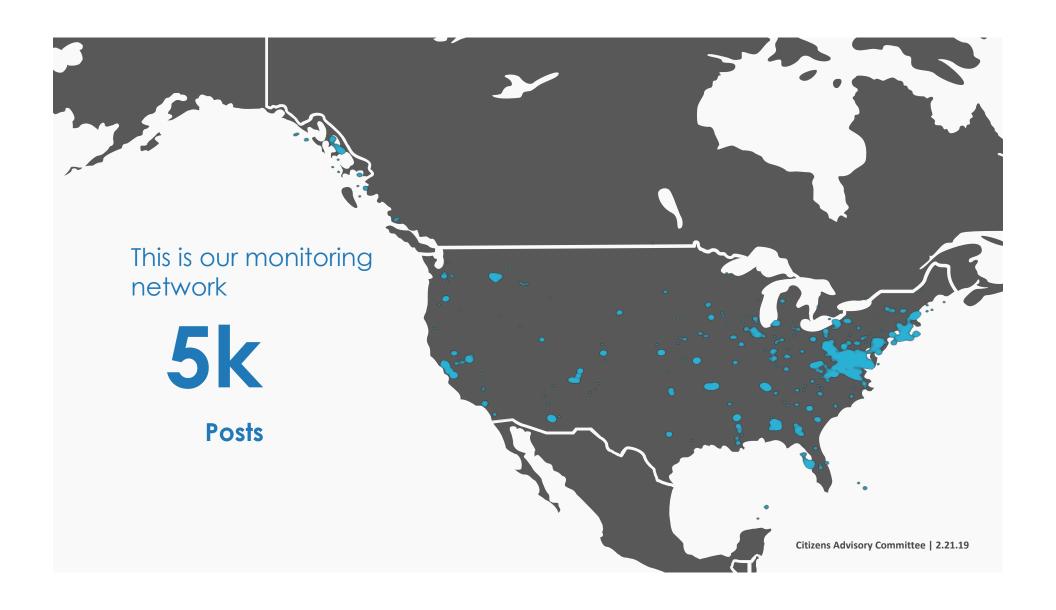
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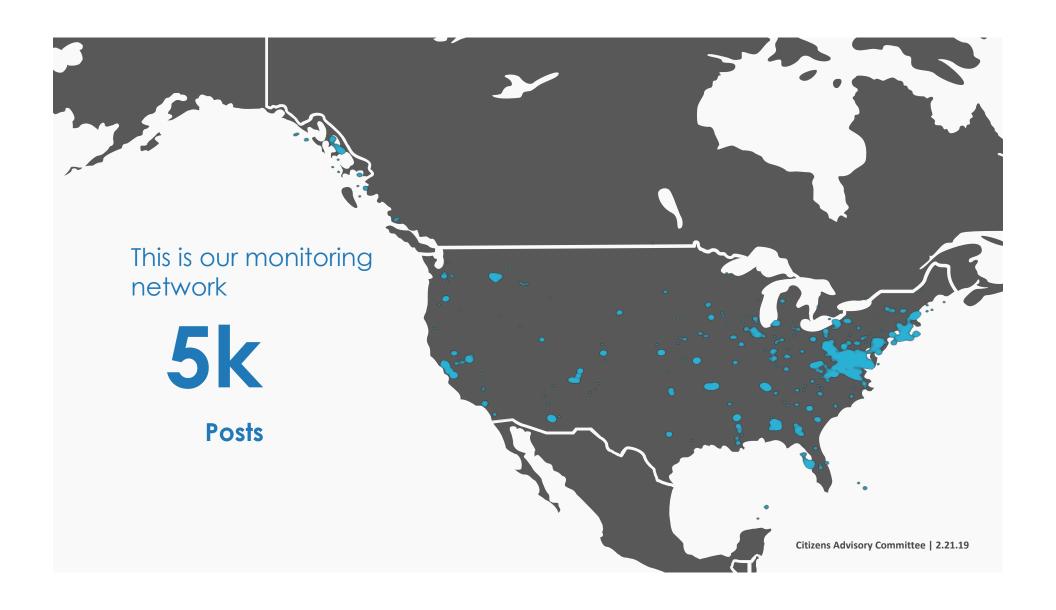
percent of stream miles only flow seasonally after storms



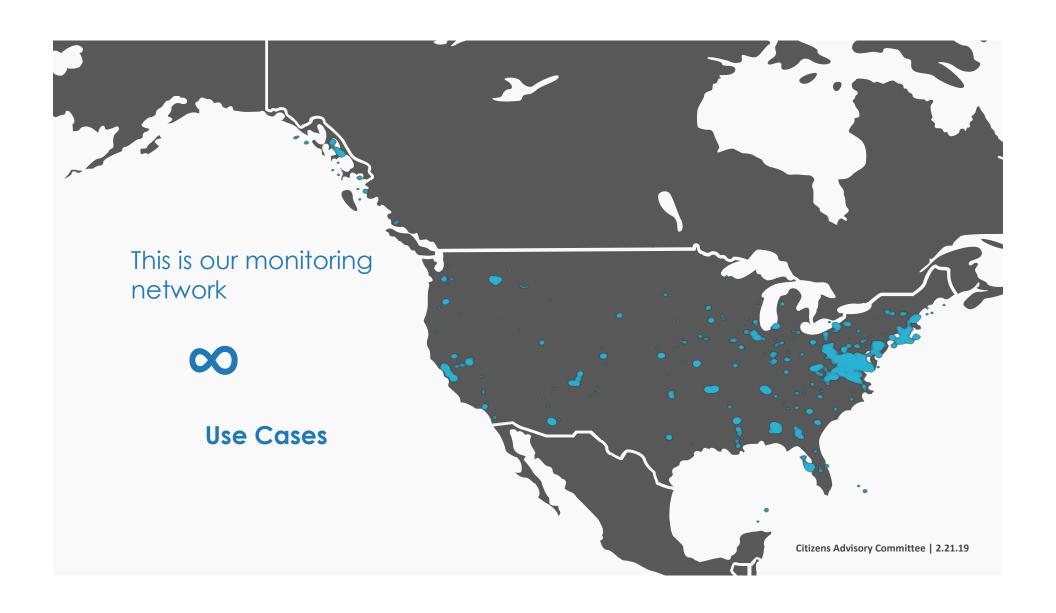












Water Clarity = Good





Water Clarity = Nope!





POTOMAC RIVERKEEPER' NETWORK

Locals on the Monocacy River document their monitoring efforts to use in a future court case against illicit discharge.

PRKN Training

Taking action

Beach Cleanups



Monitoring for benthic



Monitoring for bacteria







Documenting plastics



Education and outreach



Documenting a restoration project

Broad use cases and support





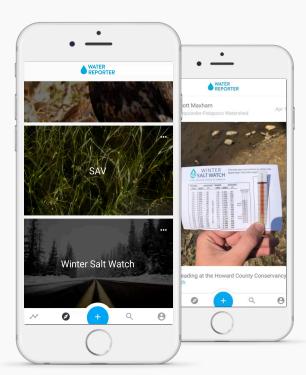
Tracking the impact of HABs and using citizen collected data to inform local media outlets and government.

Campaigns on Water Reporter

#03

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Baltimore Chestertow Odenton Annapolis owie Chesapeake Beach Chesapeake Beach Seaford Georgetown Seaford

THE COMMONS



54 volunteers, 154 sites, six months. Every year. Tracking MTAC with Water Reporter Data Sources



Data Sources



Maps



Monitoring Data

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50 volunteers, 88 sites, six months.

Every year. Tracking Water Quality
Index with Water Reporter Data
Sources



Monitoring Data



Data Sources



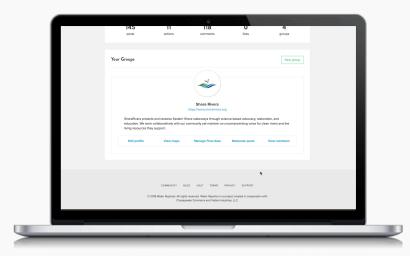
Maps

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Water Reporter Data Sources

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Creating the Code for Change

FieldDoc Redefining how we verify water quality improvement



"A thing is right when it tends to preserve the integrity, the stability, and beauty of the biotic community. It is wrong when it tends otherwise."

-Aldo Leopold

"No matter how intently one studies the hundred little dramas of the woods and meadows, one can never learn all the salient facts about any one of them."

-Aldo Leopold









Documenting Restoration is Difficult

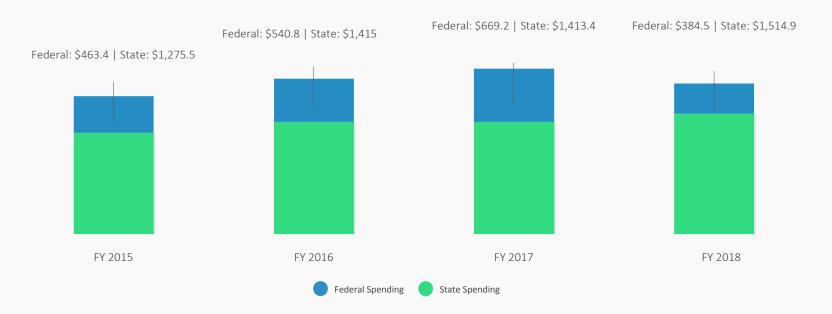
(BUT WORTH IT!)







Bay Restoration Spending



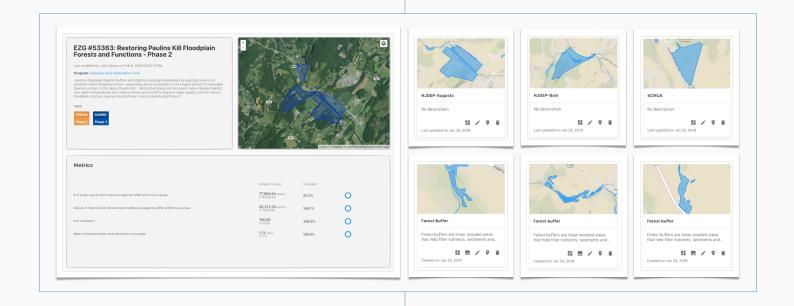
Over \$7,500 MM in Bay restoration spending and we...

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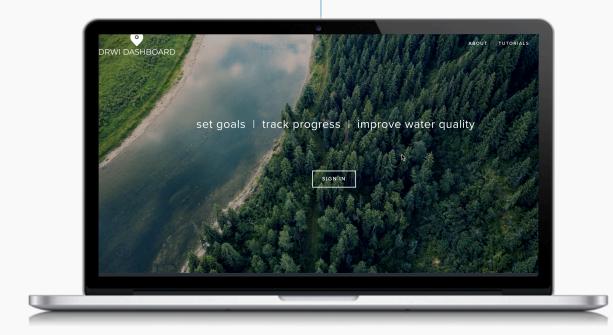


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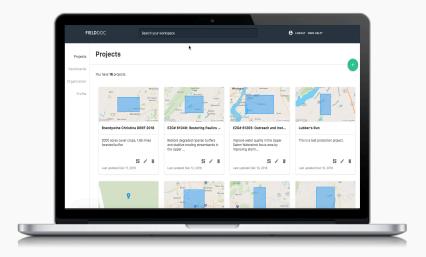


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Tracking Restoration with FieldDoc

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FieldDoc will support in-field data collection for restoration practitioners

Live Demo



Expanding the We

Foundation Partners

Expanding the We

Technical Partners



Creating the Code for Change

O4 Building for the Future

Where we are headed in 2019



We are developing two products that support two complimentary workflows.

Birch Run-Birchrun Hills Farm (1)

Last modified by John Dawes on Dec 7, 2018 3:04:42 PM

Project: EZG# 61133: Providing Technical Assistance for Small Agricultural Operations in the French Creek Watershed (PA)

Area: 4.55 acres

No description



Metrics

0.75 of 5.00 lbs/yr

Nitrogen

8.00 of 7.00 lbs/yr

Phosphorus

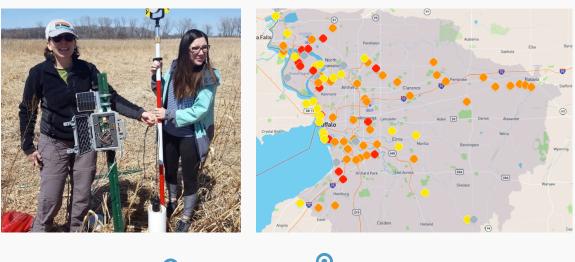
5.00 of 8.00 tons/yr

Documenting restoration projects



We are developing two products that support two vital workflows.

Proving impact on water quality





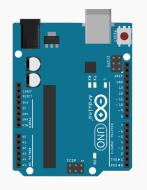














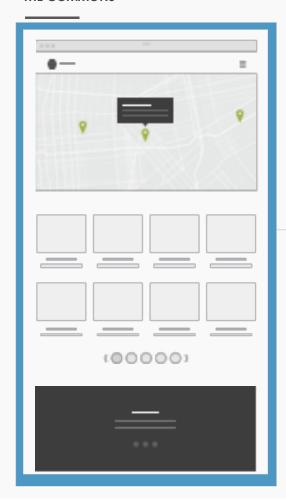
Combine education and outreach with all products and Common initiatives

Simple, Interoperable, and Pervasive



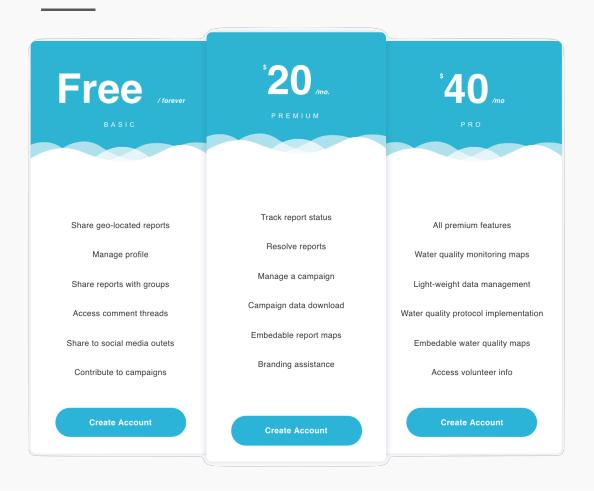
Modern software supporting these efforts should be built to enhance specific use cases, have a clear value proposition, and be accessible anywhere there is a network connection







Support deeper levels of configurability among products



Diversify Revenue

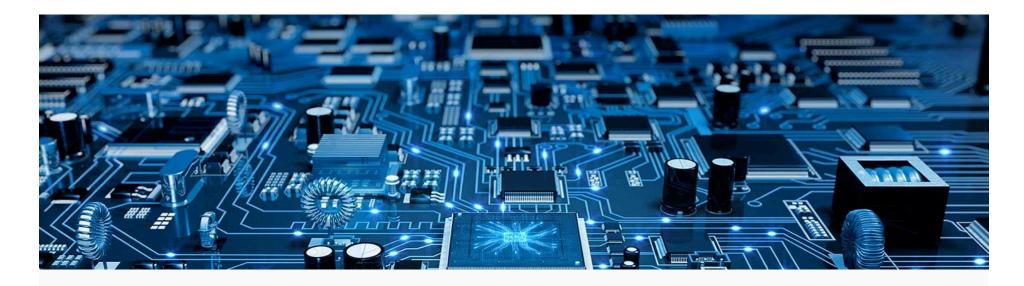
Ensure software produces clear value to users and the Commons

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Sensor Integration

Increasing the quantity and quality of our monitoring network.





Empower our users to share data with federal data stores





Thank-You!



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@ourcommoncode