Sharing the Data

USING ONLINE MAPS TO PROVIDE RAPID FEEDBACK ON RECENT WATER QUALITY, COLLABORATE WITH PARTNERS, AND INCITE CHANGE BY EDUCATING THE PUBLIC

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Key points:

1. Improve agency effectiveness
2. Improve Public awareness
Overview

I. Our project
II. Demonstrate online map
III. How we did it
IV. Mobile data app
V. Results
VI. Lessons & thoughts

BACKGROUND

• High average rainfall
• Agriculture
• Recreation
• Salmon
• Rural residential
• Shellfish
BACKGROUND

- Fecal Coliform Bacteria a primary concern

BACKGROUND

Dominant bacteria sources:
- Human, livestock, dogs, recreation, wildlife
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BACKGROUND

Increasing bacteria loads and pressure to resolve issues.
Monitoring

7+ separate organizations = need for strong coordination
Too many different formats... This isn't working!

Field staff need to understand an avalanche of data quickly.
And the public has an even harder time...
Need to improve:

1. Agency effectiveness
   - coordination
   - field staff productivity
   - analysis, reporting
   - data management

2. Public awareness
   - convenient access
   - Landscape context of sample results
   - room to expand

Online Map Demonstration
Fecal coliform bacteria results app
Fecal coliform bacteria results app

**Narrative description of the map!**

**Tools for users**
Fecal coliform bacteria results app
Creating and maintaining the online map

A Geographic Information Systems Solution

ONLINE GIS PLATFORM

MOBILE APPLICATION

ArcGIS Online

Collector for ArcGIS
Collect and update data in the field
Unique
To each agency

ArcGIS Online
Mobile data collection

*Automated upload*

- Agencies control their own process & data
- QA/QC check
- Pushed to online public map & field staff mobile devices

New sample results added to database
ArcGIS Online

Online Results Map

Mobile App

Convenient
Easily understood
Increases accountability

Improving Public Awareness
Improving Agency Effectiveness

Increases productivity
Better decisions ‘on the fly’
Better collaboration

Mobile Data Access

Roadside View

iPad view via Collector app
Feedback

- One-stop-shop
- Field observations
- Historical data
- Sampling event summary

Lessons Learned

- Startup time is worth the investment
- Expect occasional glitches
- Tool transfer to other areas of non-point work
- GIS skills are valuable!

Harvest at community oyster farm
Questions?

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