## THE VALUE OF PUBLISHED DATA

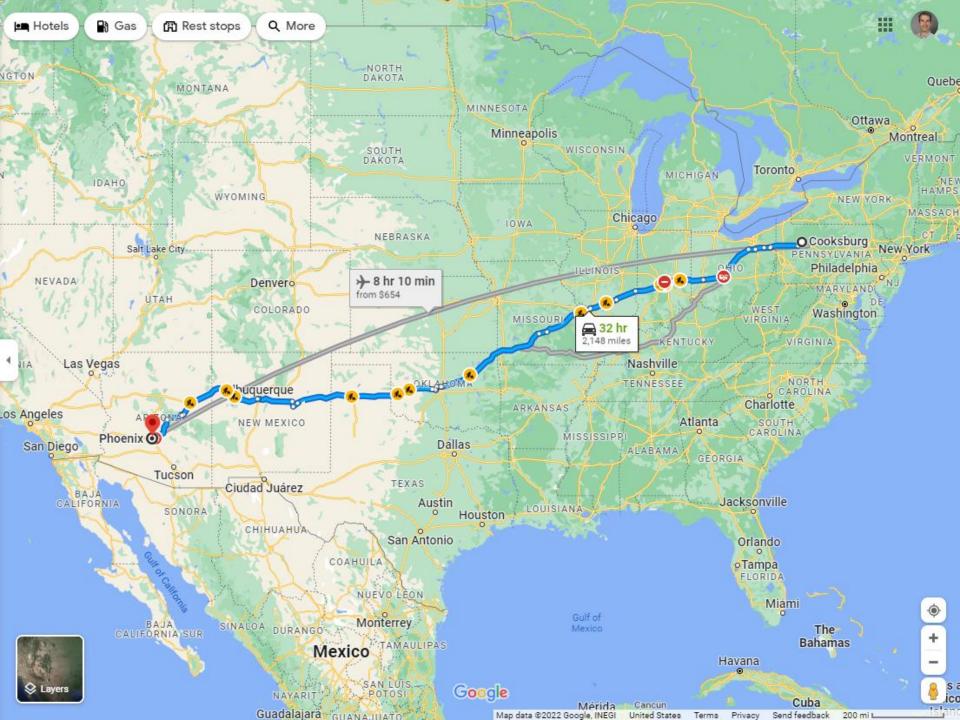
May 31, 2022

Jason D. Jones Monitoring & Assessment Coordinator







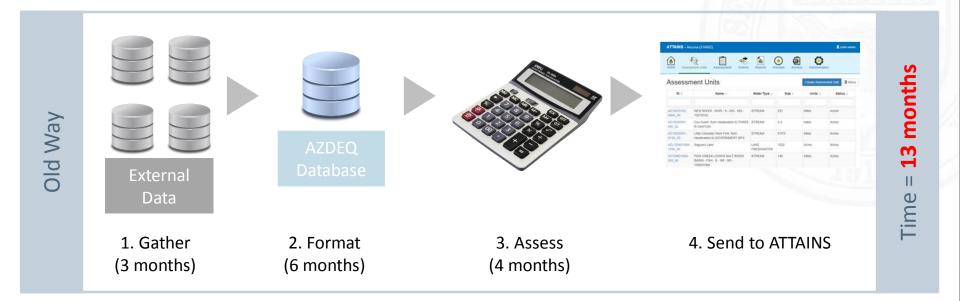


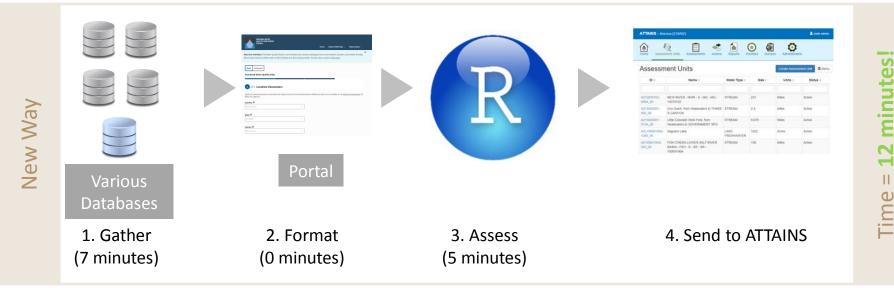
# "What water quality data is there for the Verde River?"

# Part 1 The Value of the Water Quality Portal

## Assessments From Months to Minutes







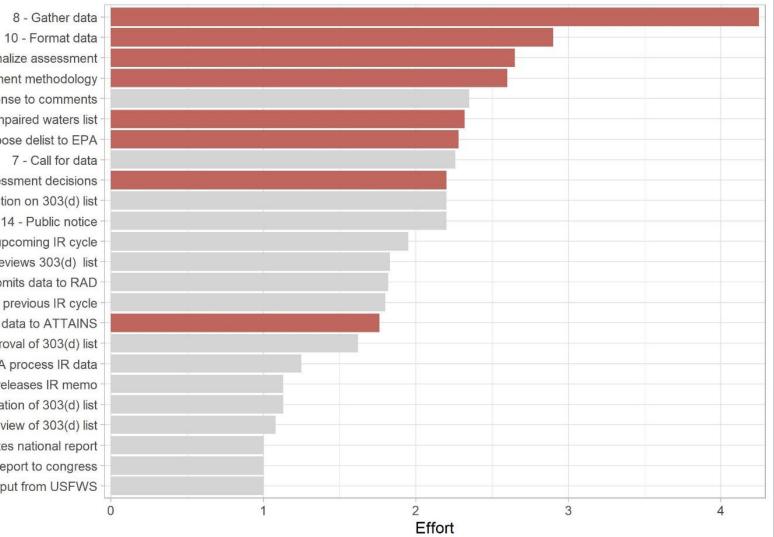
### States Who Submitted Their 2020 Assessment On Time



Source: 2020 ECOS Fall Meeting



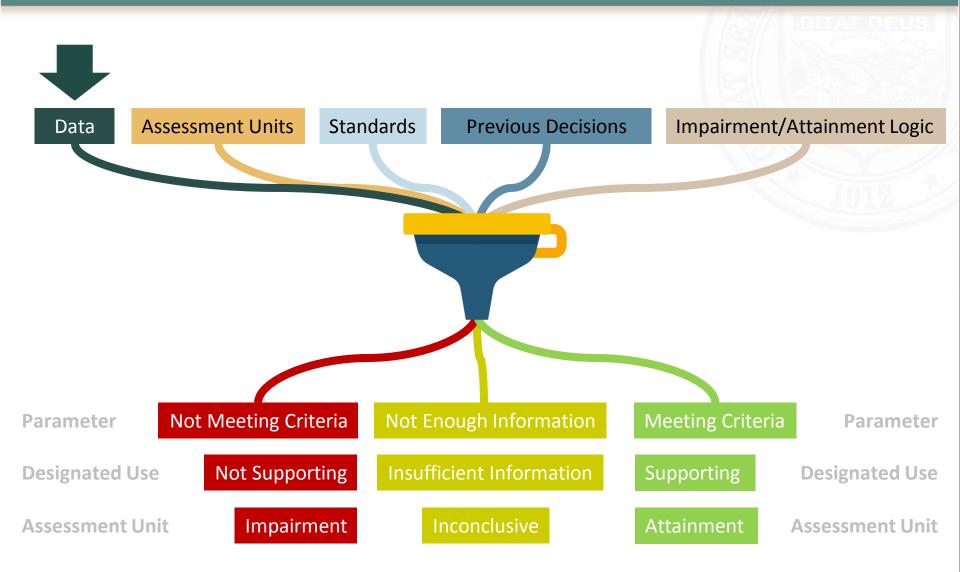
### **Technical** vs. Administrative



18 - Create and finalize assessment 6 - Update assessment methodology 16 - Response to comments 11 - Prepare draft impaired waters list 9 - Propose delist to EPA 21 - State sends EPA assessment decisions 20 - EPA Action on 303(d) list 14 - Public notice 5 - EPA and state discuss upcoming IR cycle 12 - EPA reviews 303(d) list 24 - State submits data to RAD 4 - State discussion on previous IR cycle 23 - State submits data to ATTAINS 17 - Commission approval of 303(d) list 22 - EPA process IR data 3 - EPA releases IR memo 19 - Tribal consultation of 303(d) list 13 - State tribal review of 303(d) list 26 - OMB finalizes national report 25 - EPA prepares national report to congress 15 - EPA seeks input from USFWS

Source: https://www.epa.gov/sites/default/files/2015-10/documents/final\_retrospective\_review\_report.pdf







#### Arizona's 2024 Water Quality Assessment Dashboard

Dashboard - Impain

Impairments - Decisions

Datagaps 🥠 Source Code

#### Select Waterbody

14070006-1130, 15010001-00' -

#### Select Active Datagap

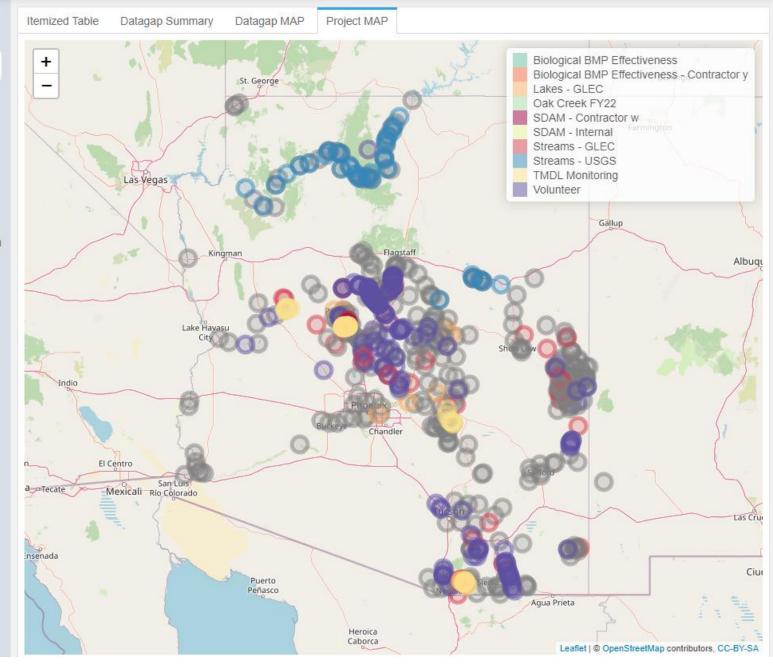
- Active Datagap
- Active Other Purpose
- Inactive Datagap

The 'Datagaps' Page is broken down into three sections.

- Itemized Datagaps Shows all inconclusive assessment information at the use level.
- Datagap Summary Shows what parameters are needed to make a decision.
- Map Shows where each datagap is located.

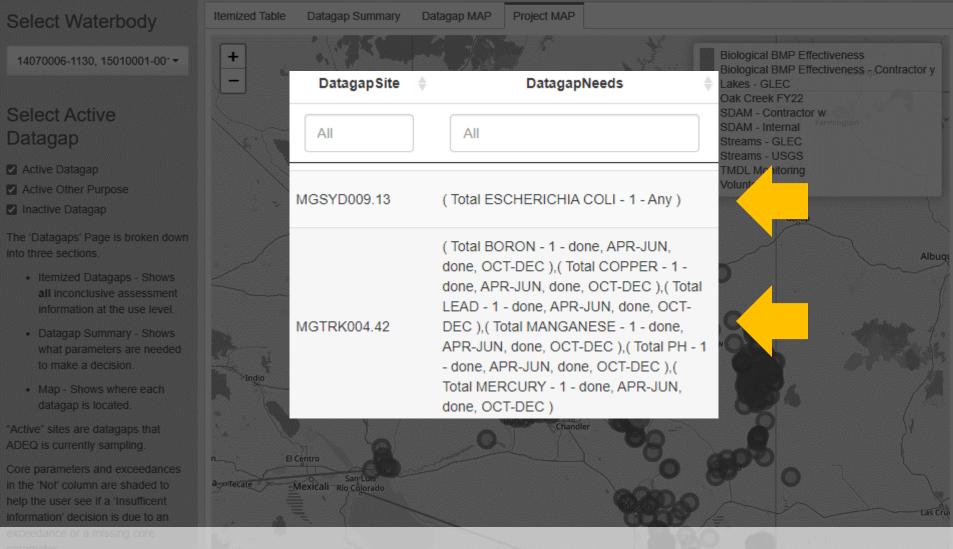
"Active" sites are datagaps that ADEQ is currently sampling.

Core parameters and exceedances in the 'Not' column are shaded to help the user see if a 'Insufficent information' decision is due to an exceedance or a missing core parameter.





Source Cod



Explore Arizona's Assessment Dashboard at https://azdeq.shinyapps.io/assessment\_dashboard\_2024\_Prod



- Gathering and formatting data takes minutes not months
  - One Full Time Employee / 2000 hrs/yr
- No manual public data requests (500 hrs/yr)
- Timely submission of the CWA assessment
- Dashboard saved \$400,000 in lab costs.
- Reduced inconclusives by over 100 waters!











- In terms of time and money the portal saves Arizona
  - 2,500 hours per year!
  - \$200,000 per year!





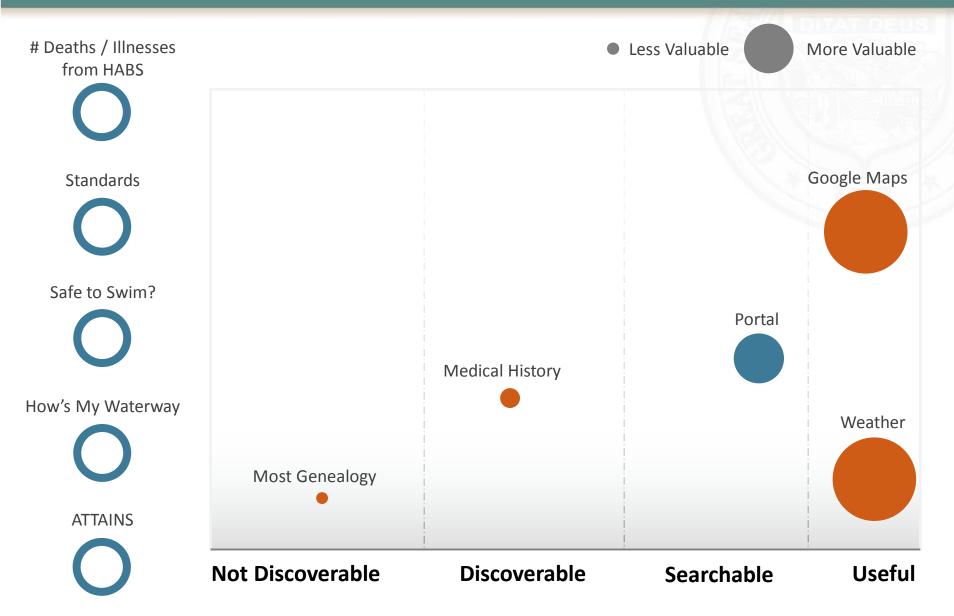




# Part 2 Maximizing Value of the Rest of the CWA

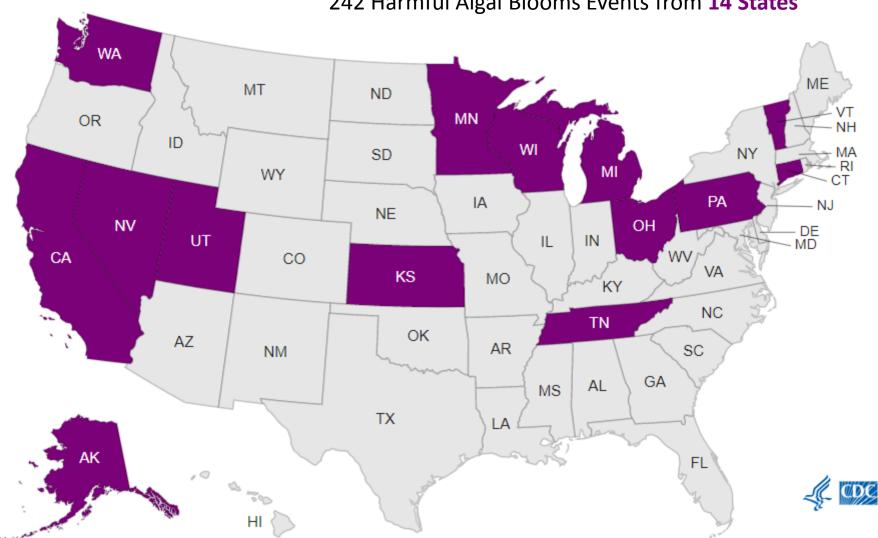
## Value Gradient





## 2019 Reported HABS and Illnesses

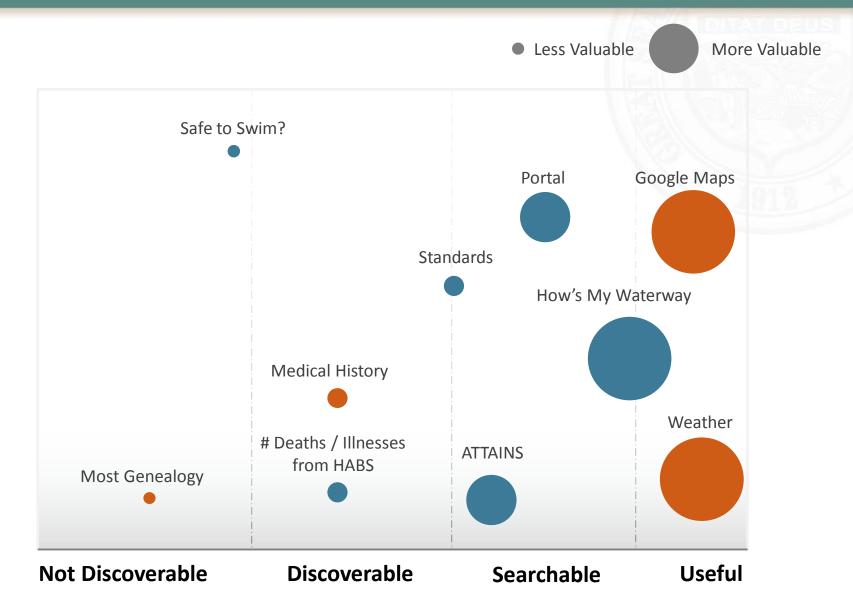




242 Harmful Algal Blooms Events from 14 States

Source: https://www.cdc.gov/habs/data/2019-ohhabs-data-summary.html





## Jason Jones jdj@azdeq.gov

### Arizona' Assessment Dashboard

https://azdeq.shinyapps.io/assessment\_dashboard\_2024\_Prod/