

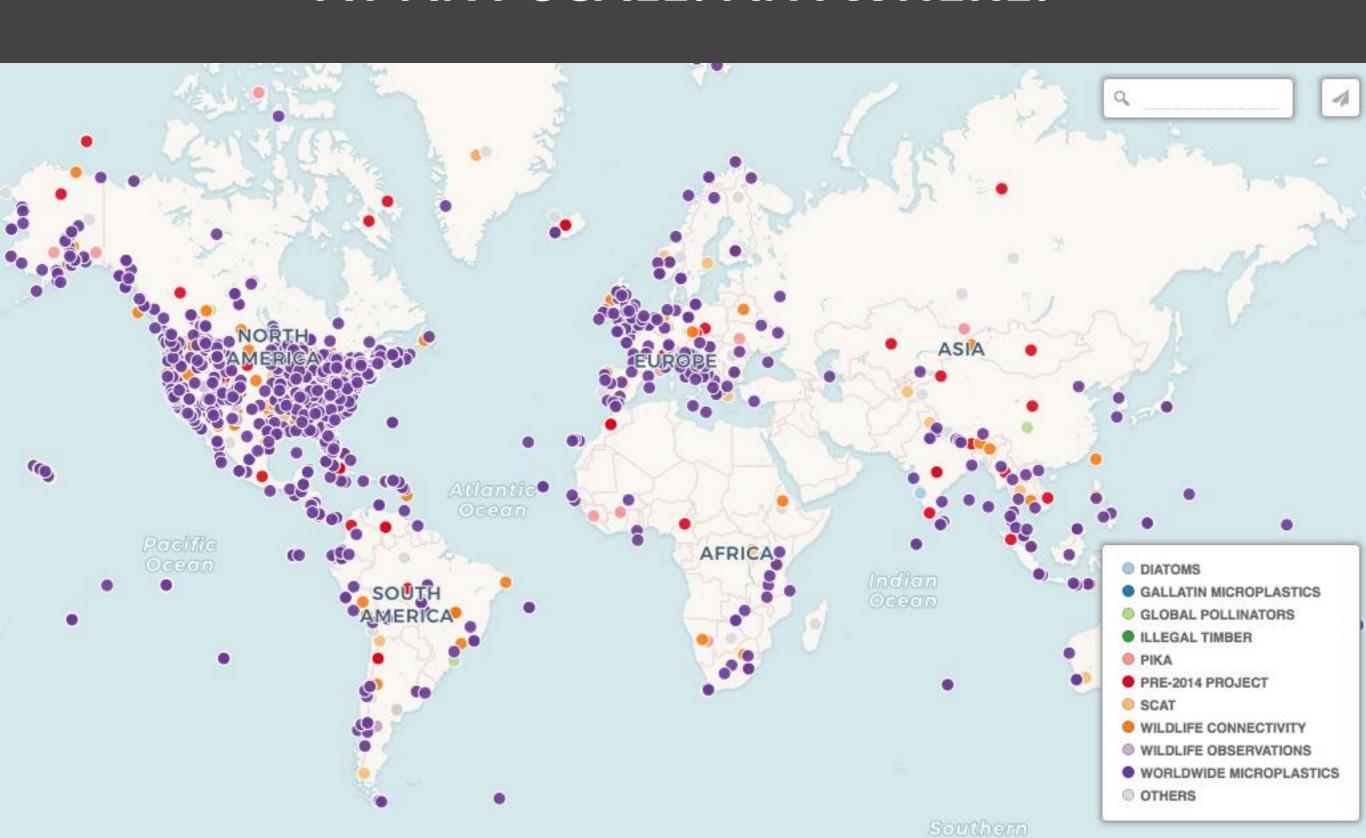
# VOLUNTEER-COLLECTED WATER QUALITY DATA IN SUPPORT OF DECISION MAKING



## What can be accomplished with data collected by volunteers?



### SCIENTIFICALLY VIABLE DATA AT ANY SCALE. ANYWHERE.





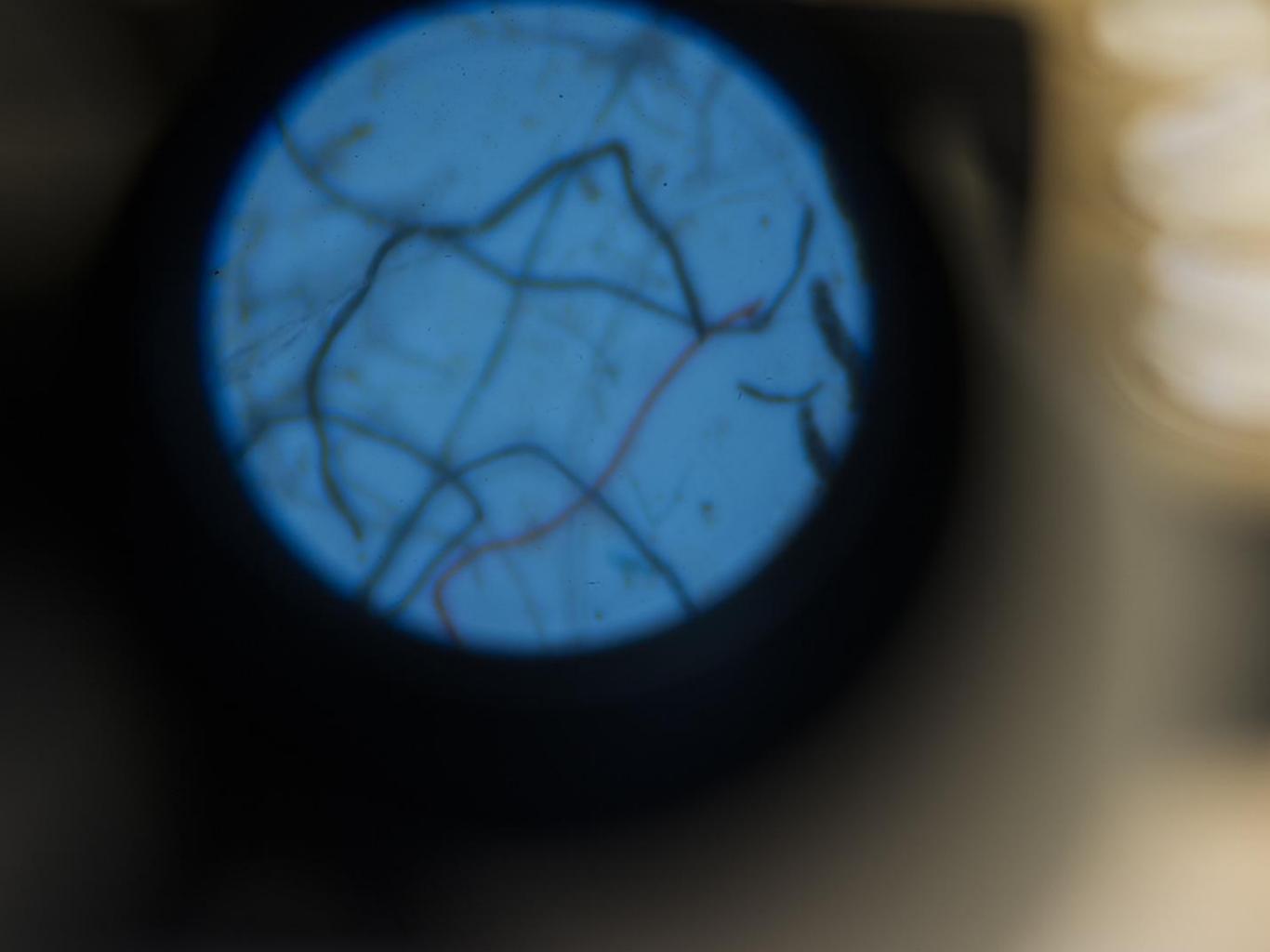
### Projects That Fit Our Model

- Environmental or human health issue
- Solution depends on access to data
- Clear pathway to tangible outcomes
- Need for the skills of the outdoor community

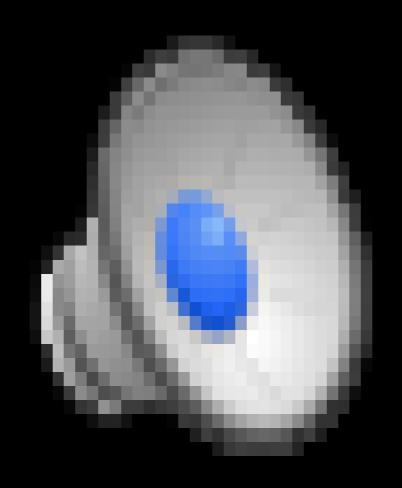




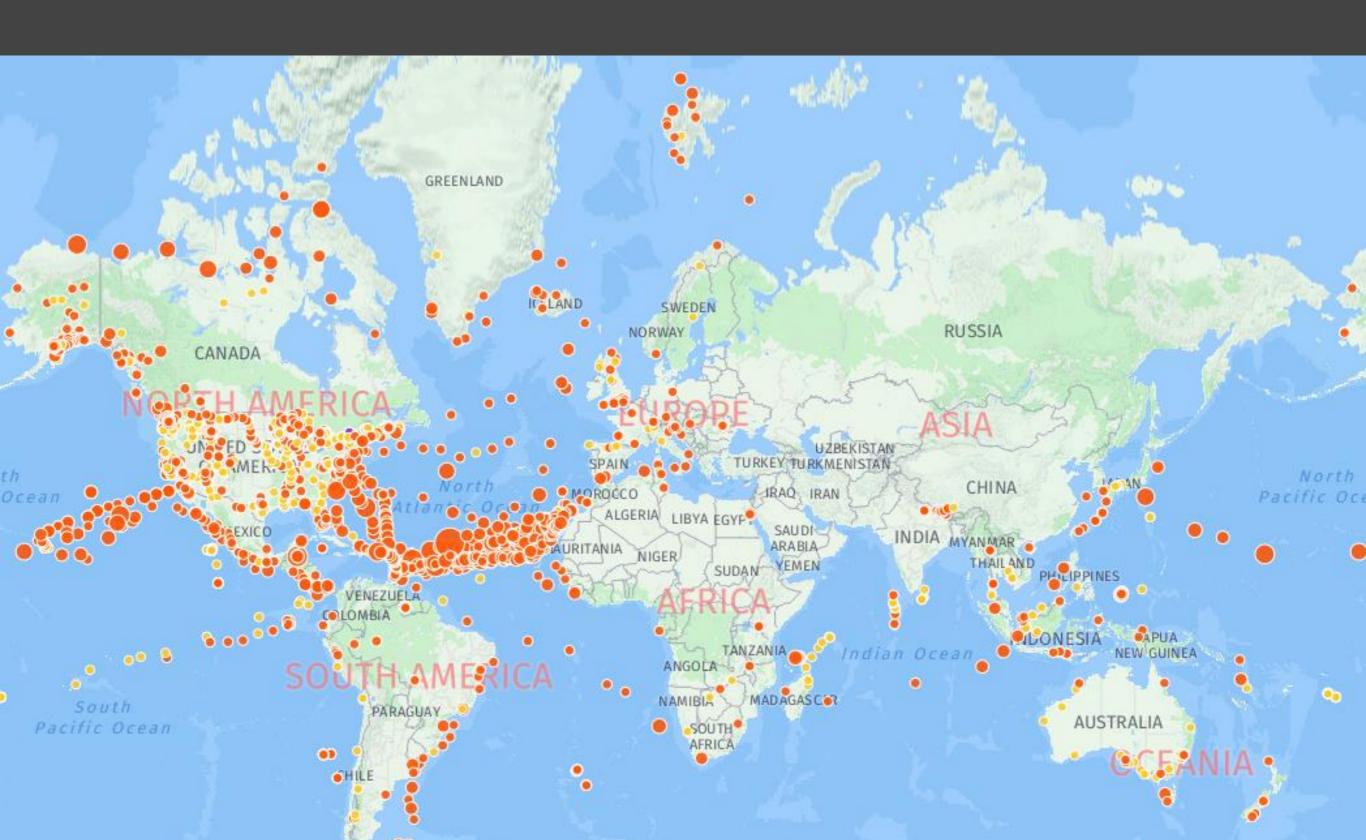








#### Global Microplastics Initiative

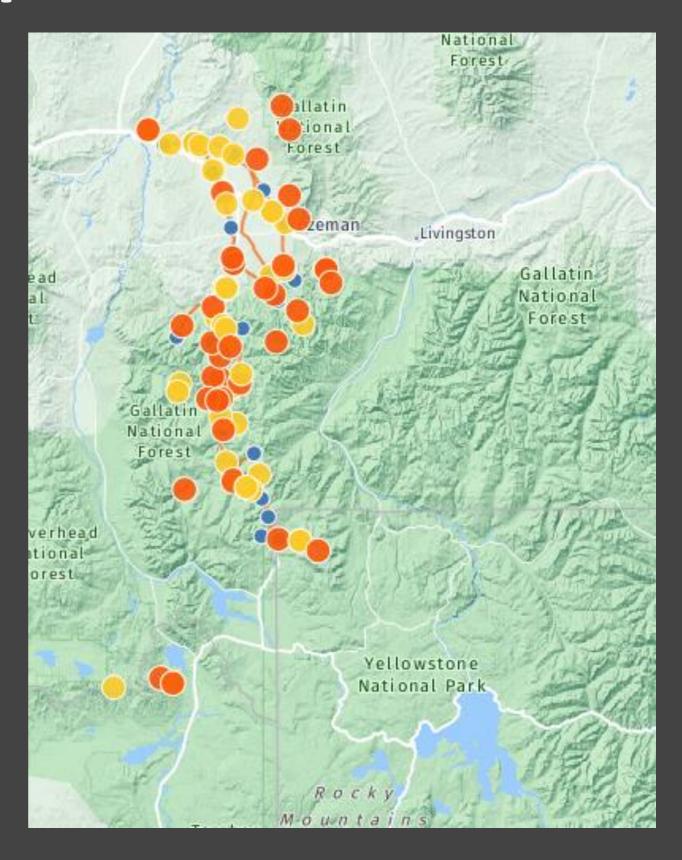


#### Freshwater Microplastics Dataset



#### Gallatin Microplastics Initiative

- 72 field sites
- Sampled 4 times/year
- 2 consecutive years
- 117 volunteers
- Final dataset includes774 samples



## What has been accomplished so far?

#### Microplastics Project Outcomes

- The first maximum contamination limits by the EPA
- Data supported the creation of world's largest Marine
   Protected Area
- Reduction or elimination of single-use plastics
- Additional volunteer action



#### Our Wild & Scenic Rivers System



#### **Explore Opportunity With Partners**



- What data gaps exist on these river sections?
- What role does water quality data play in decision-making and who is responsible?

 Is there a clear need for Adventure Scientists' volunteer network?

#### What will be the outcomes of this project?

Clean Water Act

Local river management and planning

Improved conservation

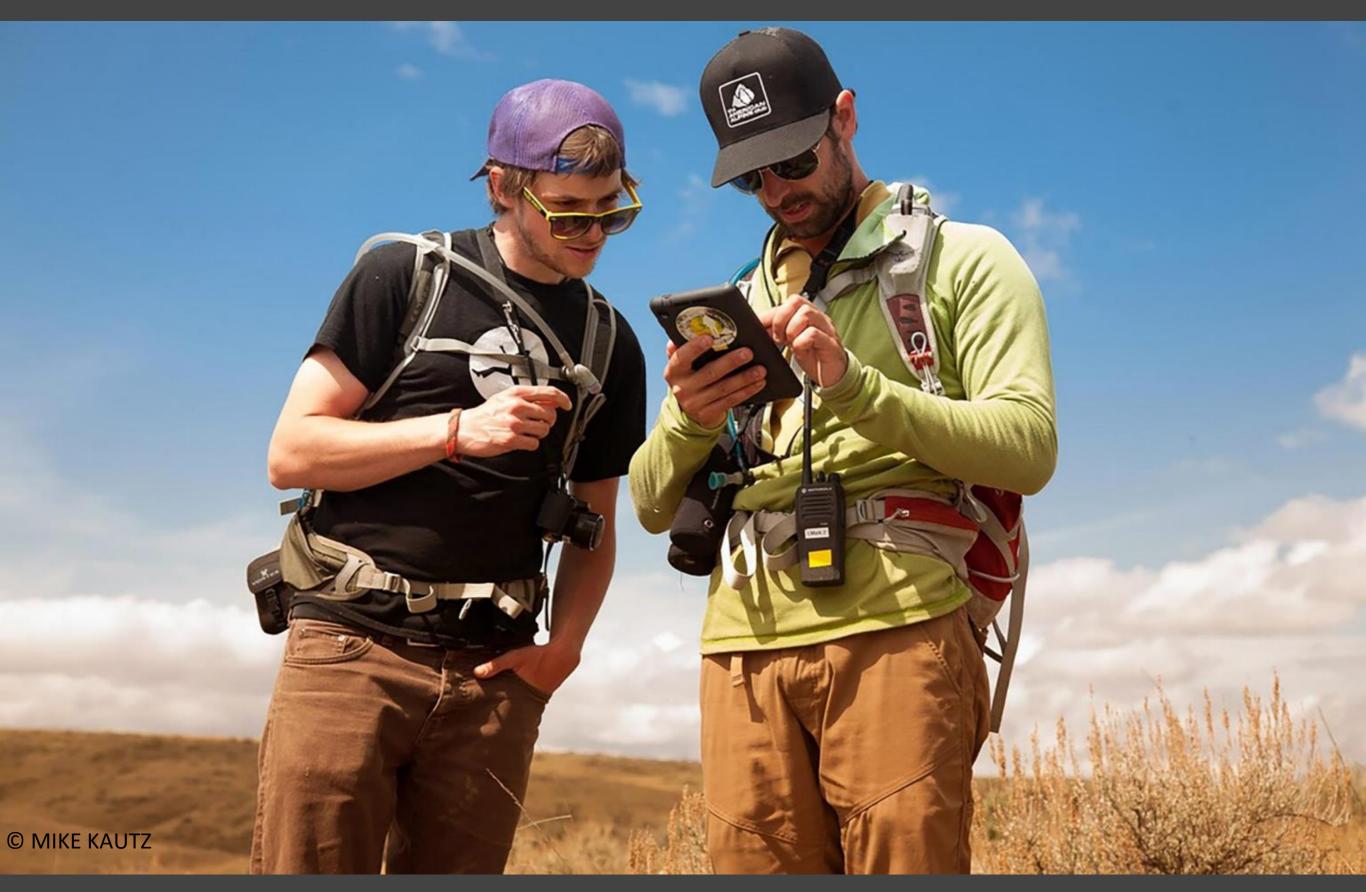
State and federal agencies' decision-making

Invasive species management

Fisheries health



#### **Collaboration and Discovery**



#### Partnership Takeaways

1. Patience & persistence

2. Clear objectives & questions

3. Creativity & optimism



#### DATA. YOU NEED IT. WE GET IT.

WHAT CAN WE HELP YOU ACHIEVE?







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