

Nine Learnings & Some Predictions

for the Air Monitoring Community

Tim Dye



NINE LEARNINGS





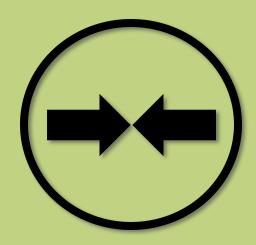
Need monitoring?

Do you really need to monitor?

If you had the ideal data now, what would you do next?



2

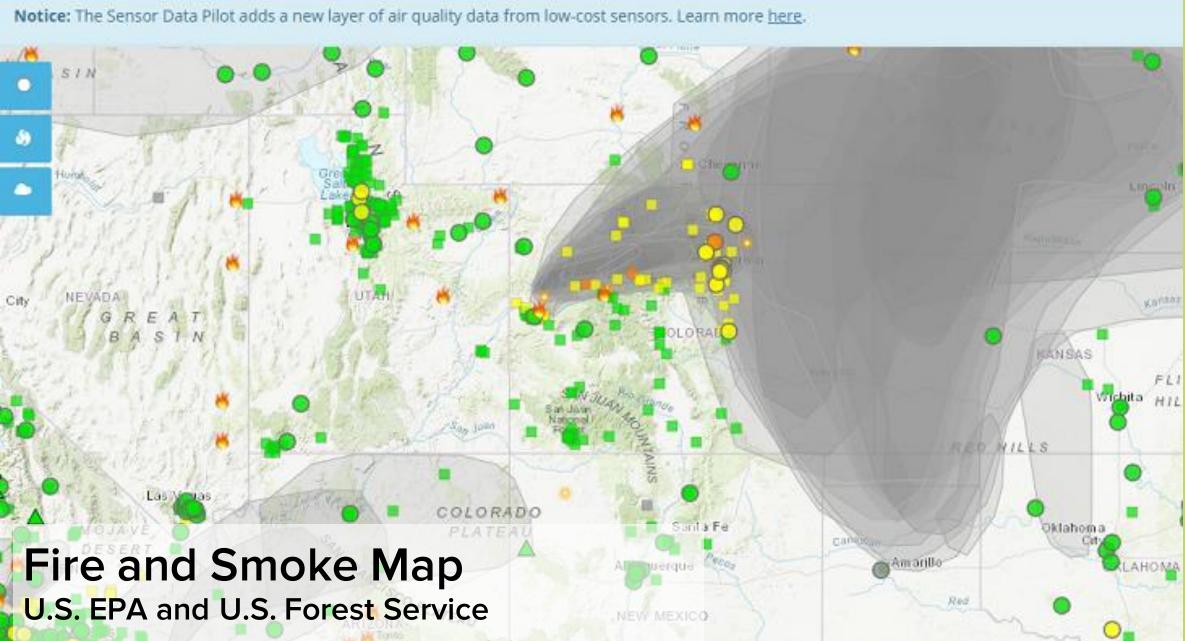


Matchmaking required

In advance, match the device and its performance with the objectives, analysis, and outcomes you're seeking.

required





3



Plan or fail

Plan, plan, and plan.....and don't buy anything without a plan in place.



4



Collocate

Comparing your device to an accepted reference is fundamental to building confidence and trust in your devices, operations, and resulting data. Collocation greatly increases the usefulness of the air monitoring data and opens up more applications.





20/80 Rule

Spend less than 20% of your budget on hardware/software.

Invest more than 80% of your budget on people, training, operations, data analysis, and communications.





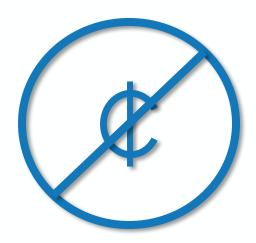


4X Rule

When working with groups new to air quality, plan to spend more time meeting, listening, discussing, and fully understanding. This in-depth capacity is necessary and helps improve the whole project.







"Low-cost" misleads

Too much focus is placed on device cost. The most important questions are: What are your needs? What does it take to get the data needed for action?



Empowering YMCA Communities to Use Data to Increase Awareness and Reduce Exposure Coalition for Clean Air (EPA)





QA Saves

Quality assurance is the bedrock of informed decision-making. The process is meticulous and resource-intensive, yet indispensable. Organizations increasingly recognize that the investment in producing quality data is not just beneficial but crucial.



170 air sensor network in Warsaw, Poland City of Warsaw (Clean Air Fund)





Last Things First

Last Things First. Start a project by thinking about the outcome or actions you want. Then, refine that, get more detailed and specific, and figure out how to achieve that.





SOME PREDICTIONS

The rush to buy air sensors slows.

As more groups understand the air sensors' value (and drawbacks), they opt for better equipment with detailed planning and operational services, resulting in higher-quality data.

Actions favored over monitoring.

The complexity of air monitoring drives more focus on other, non-monitoring ways to achieve objectives.

Governments fully embrace air sensor data.

Improving QA methods and training helps produce better - quality data from air sensors. Government agencies use data in decision-making, enforcement, regulation, and planning—all important for improving long-term air quality.

Swimming in data.

Too much data to handle and costly data management usher in more open-source software solutions that address the costs and create more collaboration with those managing data.

Innovative surprises to come.

New groups and people find interesting ways to use air quality data. At times, these seem way outside the traditional norms of air quality; however, they remind us of what people can achieve.

Thanks

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