



E-ENTERPRISE
for the environment

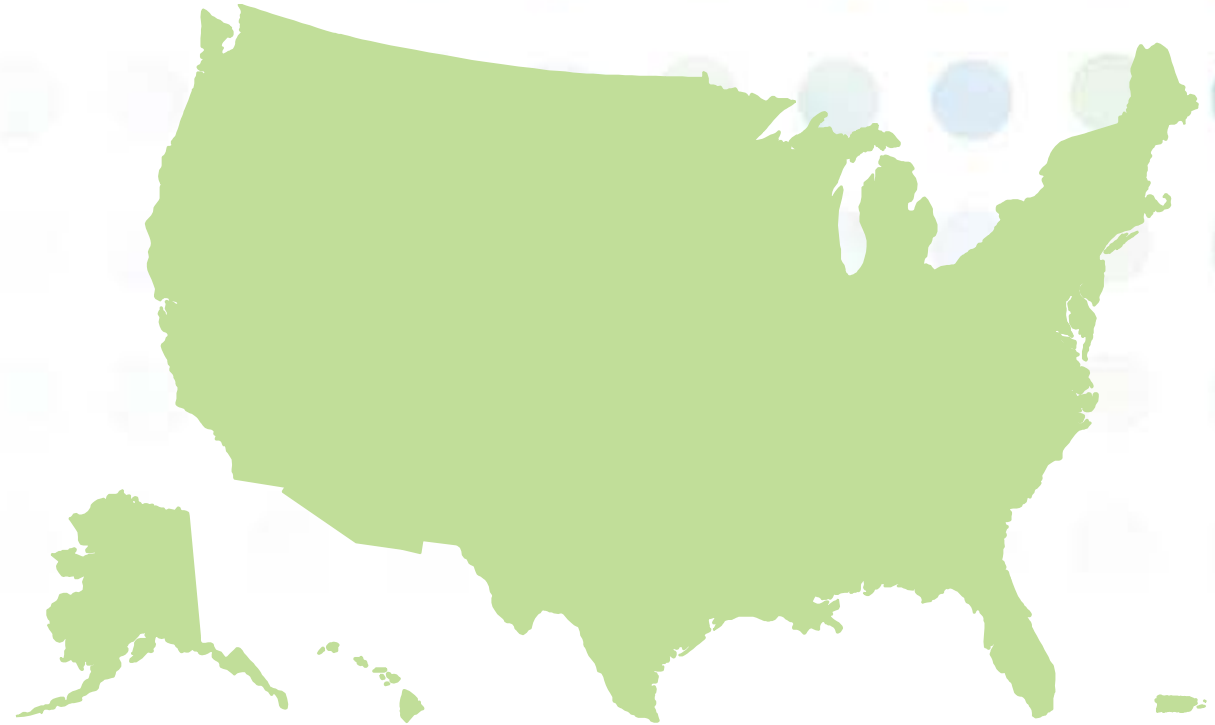
Modernizing the business of environmental protection

Advanced Monitoring Strategy and Implementation Team (AMSI)

2018 National Air Quality Conference

Kelly Poole, Environmental Council of the States (ECOS)

January 2018



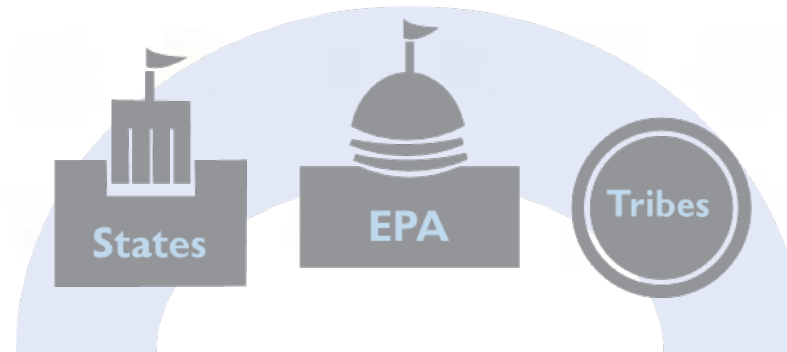
E-Enterprise for the Environment

Shared Governance

Early & Meaningful Engagement

Cooperative Agreements

Flexibility and Workload Trade-offs



Streamlining Processes



- Lean Culture
- Business Process Improvement
- Burden Reduction

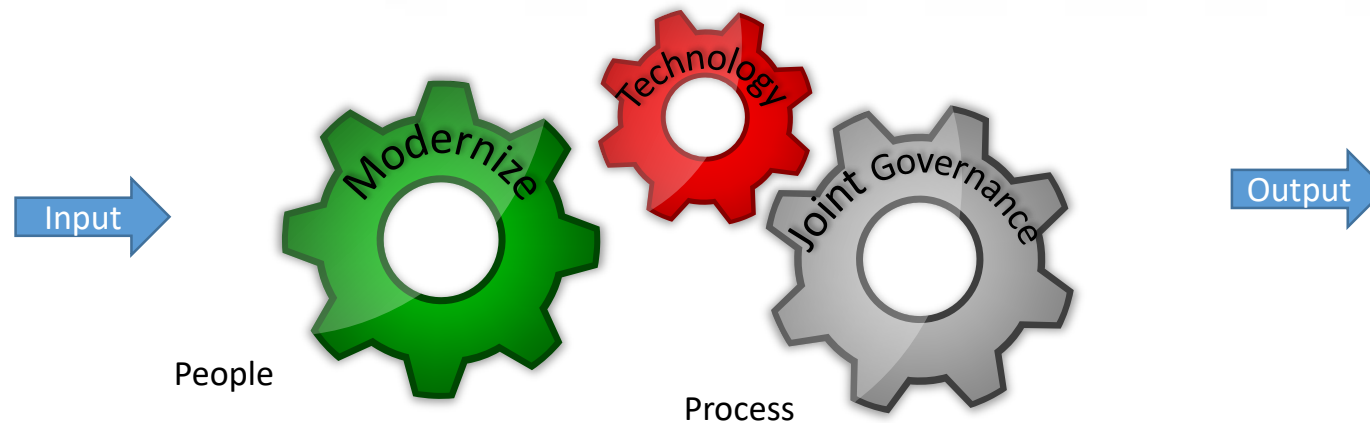
Optimizing Technology



- Advanced Monitoring
- E-Reporting/E-Permitting
- Portal Development
- Shared Services

Characteristics of an E-Enterprise Project

- Streamline and modernize business processes including input from all stakeholders
- Introduce technology where appropriate to maximize efficiency
- Ensure buy-in and adoption of the streamlined process through joint governance

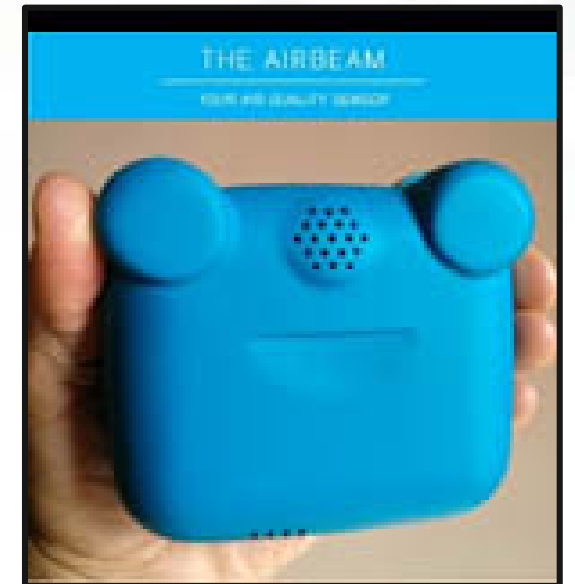


Advanced Monitoring Strategy and Implementation (AMSI)

- Team Co-chairs: Ben Grumbles (MD) & David Hindin (OECA)
- Environmental monitoring technology is rapidly changing - smaller, cheaper, and more portable devices.
- Uncertainty about the quality of the technologies and the data produced.
- The new technology has the potential to radically improve the effectiveness of environmental protection efforts by government agencies and to greatly enhance community participation.

For more information, contact:

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Goal 1: Accelerate the adoption of new technologies by environmental agencies

Goal 2: Strengthen the quality of data and facilitate accuracy and utility of sensor-generated data



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Team 1: Options and Feasibility Analysis for Independent Third Party Certification Program (Goal 2)

Team 2: Establish EPA/State Technology Screening and User Support Network (Goal 1)

Team 3: Guidance on data interpretation will minimize confusion, maximize value of privately-collected data (Goal 2)

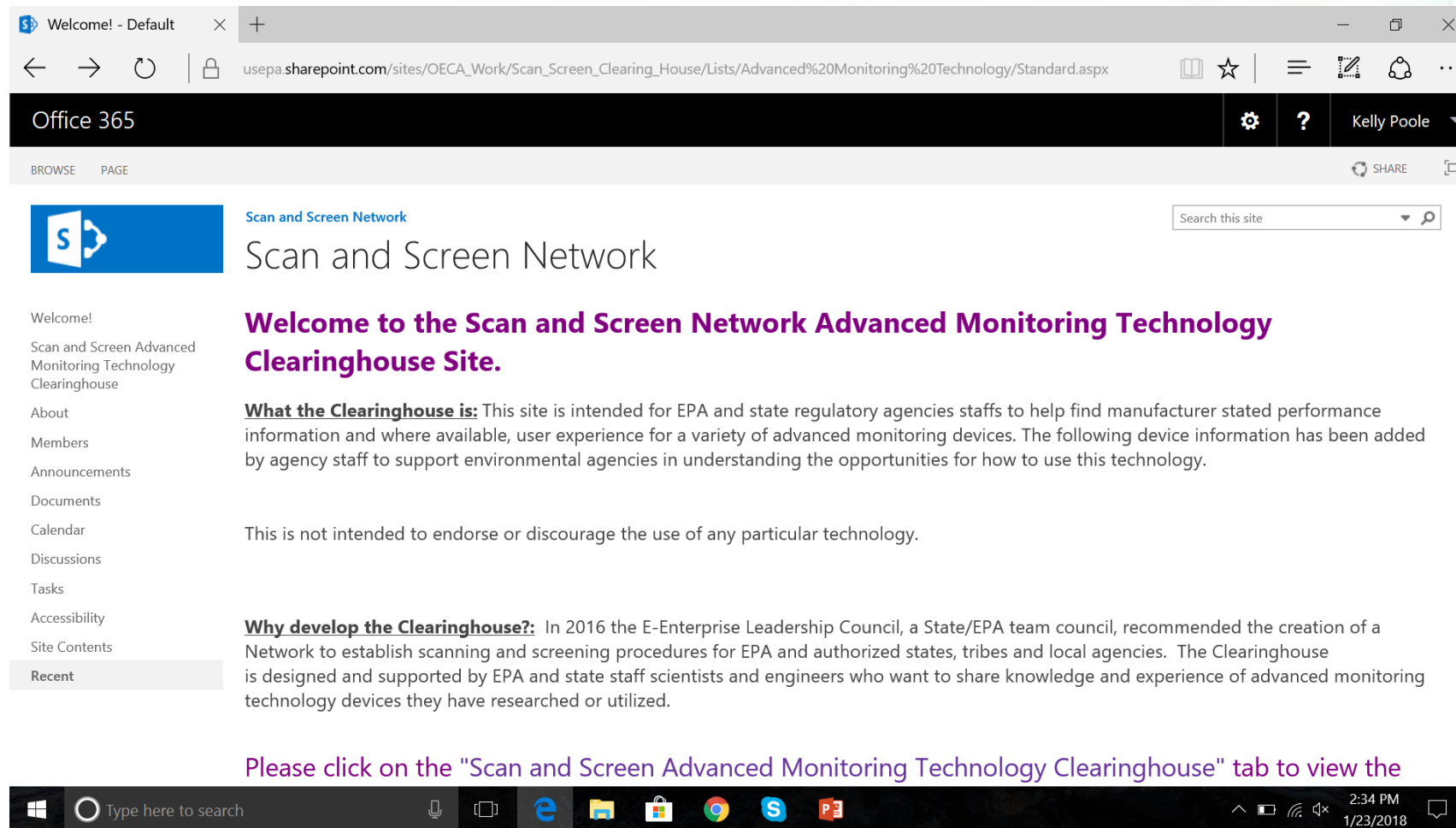
Team 4: Data exchange standards will make data from all sources interchangeable, enhance value of external data collection (Goal 2)

Team 5: Leaning the approval process to speed up adoption of “gold standard” technology for regulatory use (*internal to EPA*) (Goal 1)

Advanced Monitoring Strategy and Implementation (AMSI)

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Team 2: [Scan and Screen Network](#) (Goal 1)



The screenshot shows a web browser window displaying a SharePoint site. The address bar shows the URL: `usepa.sharepoint.com/sites/OECA_Work/Scan_Screen_Clearing_House/Lists/Advanced%20Monitoring%20Technology/Standard.aspx`. The page title is "Scan and Screen Network". The main content area features a purple heading: "Welcome to the Scan and Screen Network Advanced Monitoring Technology Clearinghouse Site." Below this, there are two paragraphs of text. The first paragraph, under the heading "What the Clearinghouse is:", explains the site's purpose for EPA and state regulatory agencies. The second paragraph, under "Why develop the Clearinghouse?:", describes the council's recommendation in 2016. A purple text prompt at the bottom of the page reads: "Please click on the 'Scan and Screen Advanced Monitoring Technology Clearinghouse' tab to view the". The left sidebar contains a navigation menu with items like "Welcome!", "About", "Members", and "Recent". The Windows taskbar at the bottom shows the date as 1/23/2018 and the time as 2:34 PM.

Welcome!

Scan and Screen Advanced Monitoring Technology Clearinghouse

About

Members

Announcements

Documents

Calendar

Discussions

Tasks

Accessibility

Site Contents

Recent

Scan and Screen Network

Welcome to the Scan and Screen Network Advanced Monitoring Technology Clearinghouse Site.

What the Clearinghouse is: This site is intended for EPA and state regulatory agencies staffs to help find manufacturer stated performance information and where available, user experience for a variety of advanced monitoring devices. The following device information has been added by agency staff to support environmental agencies in understanding the opportunities for how to use this technology.

This is not intended to endorse or discourage the use of any particular technology.

Why develop the Clearinghouse?: In 2016 the E-Enterprise Leadership Council, a State/EPA team council, recommended the creation of a Network to establish scanning and screening procedures for EPA and authorized states, tribes and local agencies. The Clearinghouse is designed and supported by EPA and state staff scientists and engineers who want to share knowledge and experience of advanced monitoring technology devices they have researched or utilized.




Please click on the "Scan and Screen Advanced Monitoring Technology Clearinghouse" tab to view the

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Team 2: Scan and Screen Network (Goal 1)

The screenshot shows a SharePoint list titled "Scan and Screen Network" with the following data:

| Sensor Image | Device Name | Media | Parameter(s) | Manufacturer | Cost for One |
|---|---------------------------|-------|--------------|-----------------|--------------|
|  | Aeroqual S500 | Air | Ozone | Aeroqual | \$1,300.00 |
|  | 2B Technologies (POM) | Air | Ozone | 2B Technologies | \$4,500.00 |
|  | Air Quality Egg Version 1 | Air | CO | Air Quality Egg | \$280.00 |

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Additional Resources:

- [Advanced Monitoring Strategy and Implementation Website](#)
- [Scan and Screen Network Advanced Monitoring Clearinghouse](#)
- [Advanced Monitoring Technology: Opportunities and Challenges A Path Forward for EPA, States, and Tribes](#) – *EM*, November 2016
- [Preparing for Personal Air Sensors: State and Local Air Quality Agencies on the Frontlines of Citizen Science](#) – *EM*, November 2017



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Contact Information:

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Thank You