

Advanced Monitoring Technology Scan and Screen Network for Environmental Agency Staffs

The Advanced Monitoring Technology Scan and Screen Network consists of state and EPA staff scientists and engineers sharing information in the newly developed Scan and Screen Network Clearinghouse about available advanced monitoring devices and their performance.

Network members **scan** the landscape of advanced monitoring technology and identify monitoring devices both new to the market and of significant interest to the agencies for screening.

The Network **screens**¹ those monitoring devices by reviewing and analyzing the vendor's information and/or identify other individuals in government or elsewhere who have used or tested the devices.

Results: The scan/screen findings will be stored in the Clearinghouse and made available to state, local, tribal, and federal staff of agencies with authorized/delegated programs.

The **Role** of Network members is to:

- Perform a scan of devices that measure particular parameters and identify devices to screen
- Gather manufacturer-generated information and/or co-regulators' experiences on devices
- Populate the Clearinghouse
- Conduct outreach to raise awareness of the Clearinghouse
- Answer questions from environmental agencies about devices that have been screened or about which the Network members have familiarity
- Conduct field evaluation tests for a small set of devices that appear promising to meet important program needs if resources allow, or identify ideas to leverage other resources.

If you are interested in participating in the Network as a user, contributor, or would like to hear about updates to the site during scheduled meetings, please visit the [SharePoint site](#)² to request access, or contact:

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Background

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, states, tribes and local agencies with delegated programs. This Scan and Screen Network is designed to provide information for professionals working in environmental agencies. The focus is primarily on advanced monitoring

¹ Screen means gathering and evaluating manufacturer's performance information and information from field tests conducted by environmental program staff or others.

²[https://usepa.sharepoint.com/sites/OECA Work/Scan Screen Clearing House/Lists/Advanced%20Monitoring%20Technology/Standard.aspx](https://usepa.sharepoint.com/sites/OECA%20Work/Scan%20Screen%20Clearing%20House/Lists/Advanced%20Monitoring%20Technology/Standard.aspx)

equipment that has not (yet) been formally approved under federal regulations as an approved method. The Clearinghouse contains screening of technology for commercially available sensors currently with a focus on monitoring nutrients in water and PM 2.5 in air. As of November 1, 2017, the Clearinghouse contains more than 200 water monitoring devices and more than 30 air sensors. The Scan and Screen Network continues to expand its scanning and screening efforts to capture a broader array of water and air pollutant advanced monitoring technology.

Other Network members you can contact:

- **Kelly Poole**, Environmental Council of States, 202-266-4920
- **Joann Rice**, U.S. EPA Office of Air, 919-541-3372
- **Fran Kremer**, U.S. EPA Office of Research and Development, 513-569-7346
- **Adriana Felix-Salgado**, U.S. EPA Office of Water, 202-564-6070
- **Esteban Herrera**, U.S. EPA Region 6, 214-665-7213
- **Jairo Castillo**, U.S. EPA Region 4 Science and Ecosystem Support Division, 706-355-8621
- **Leslie Cronkhite**, U.S. EPA Office of Enforcement and Compliance Assurance, 202-564-3878

A Network Pilot Workgroup helped develop the Scan and Screen Network Clearinghouse and operating procedures. Participating agencies include:

- Kentucky Department of Environmental Protection
- New Jersey Department of Environmental Protection
- Texas Commission on Environmental Quality
- Virginia Department of Environmental Quality
- California Air Resources Board (CARB)
- California South Coast Air Quality Management District (SCAQMD)
- U.S. EPA Office of Research and Development
- U.S. EPA Office of Water
- U.S. EPA Region 1
- U.S. EPA Region 2
- U.S. EPA Region 4
- U.S. EPA Region 4 Science and Ecosystem Support Division

For more information on advanced monitoring projects underway, see the E-Enterprise website link and the article "Advanced Monitoring Technology: Opportunities and Challenges:"

<https://e-enterprisefortheenvironment.net/our-projects/advanced-monitoring-projects/advanced-monitoring/>

<https://www.epa.gov/sites/production/files/2016-11/documents/article-adv-mon-technology.pdf>