

# Superfund Innovative Technology Evaluation Program Monitoring and Measurement Technology Project



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## Goal

To promote the acceptance and use of field monitoring and measurement technologies

## Purpose

Contained within the Superfund Amendments and Reauthorization Act (SARA) of 1986, the SITE Strategy and Program Plan, and the 1990 SITE Audit Report are the following principles. This program shall:

- Foster the development of faster, better, and/or less expensive monitoring, measurement, characterization, and remediation technologies
- Achieve acceptance of these technologies through demonstration
- Provide objective performance and operating cost data
- Maintain a near-term focus

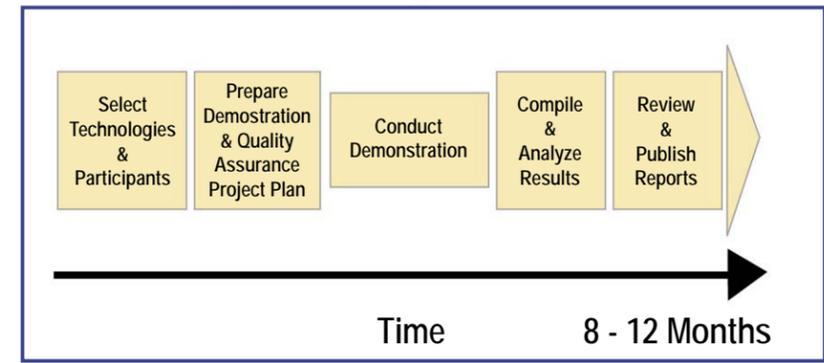
## Objectives

- To encourage the development of new technologies
- To provide a framework to conduct meaningful demonstrations
- To provide a sound scientific basis for evaluating technologies
- To collect credible and reliable performance and cost information
- To reduce the time it takes to get new technologies into routine use
- To support the use of "verified" technologies
- To facilitate acceptance by users

## Process

- Identify the needs of the user community through stakeholder involvement: Program Offices, Regions, States, other Federal Agencies and the private sector
- Determine technology maturity and developer interest
- Invite interested developers to a technical conference
- Review technologies and select qualified developers to participate in the demonstration
- Prepare the demonstration and Quality Assurance Project Plan
- Conduct the field demonstration
- Verify and compare results with reference data
- Prepare an Innovative Technology Verification Report (ITVR) for each technology
- Conduct a peer and administrative review of the reports
- Complete, publish, and distribute the reports

## Timeline for Verification Process



## Benefits of a Technology Verification Program

- Provides a framework to conduct meaningful and cost-effective field demonstrations
- Promotes the identification and development of new technologies
- Provides objective performance and operating cost data
- Publishes reports that are consistent in quality and detail
- Encourages developers to participate in a well defined, nationally recognized program

## Benefits to Users

- Identifies new field analytical and sampling technologies
- Provides a source of credible performance data
- Collects results under typical field conditions
- Allows access to technical information and support

## Benefits to Technology Developers

- Promotes greater visibility from participation in a national program
- Provides a verification statement and technical report
- Provides objective and independent verification testing
- Promotes technology acceptance and recognition
- Identifies each participant in an active national outreach effort