

# ITRC Implementing Advanced Site Characterization Tools (ASCT) Team

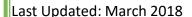
#### **ITRC Team Leaders:**

Ed Winner, Kentucky Division of Waste Management Alex Wardle, Virginia Department of Environmental Quality

26th National Tanks Conference & Exposition

Louisville, Kentucky September 12, 2018

www.itrcweb.org







## What is ITRC?

ITRC is a state-led coalition working to advance the use of innovative environmental technologies and approaches. ITRC's work translates good science into better decision making.









### What ITRC Does



Form

teams

Select projects





Conduct training and outreach

Since 1995:

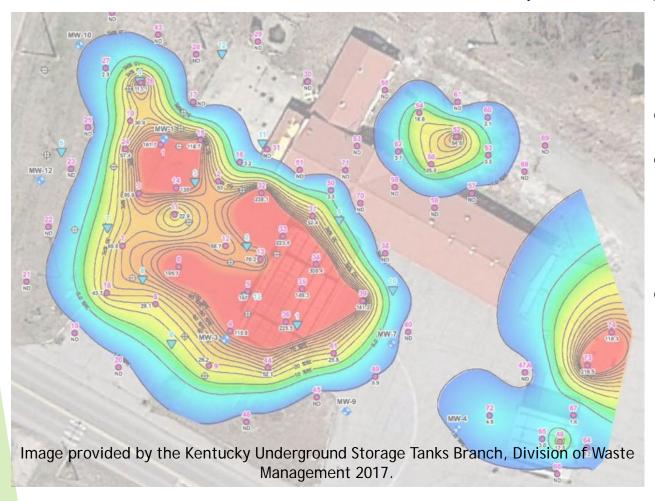
124 documents (including guidance documents, fact sheets, and case studies); 84 training topics and 859 classes







## Implementing the Use of Advanced Site Characterization Tools (ASCTs)



- A practical guide
- Support resource efficient implementation
- Provide useful examples







#### **Advanced Site Characterization Tools**



Surface Geophysics Downhole Geophysics

Direct Sensing Remote Sensing









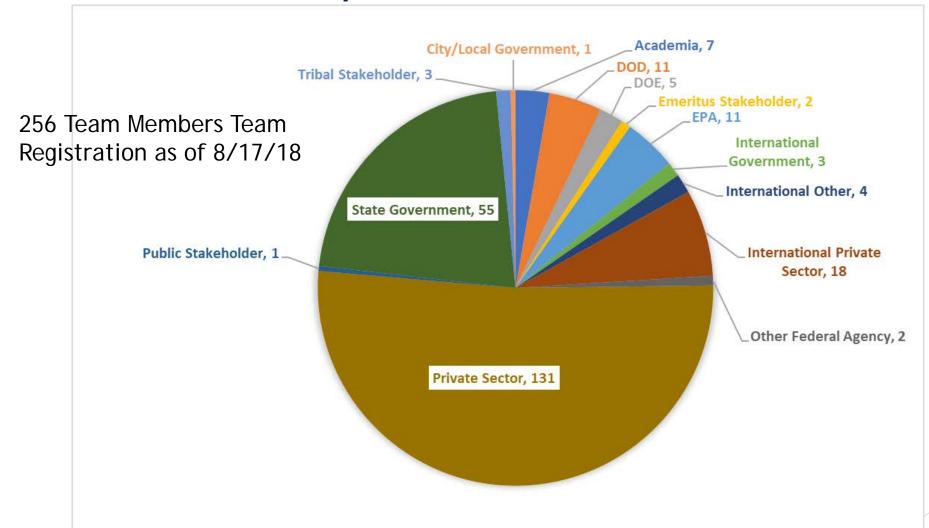
Images provided by the Kentucky Underground Storage Tanks Branch, Division of Waste Management 2017.







### **ASCT Team Composition**



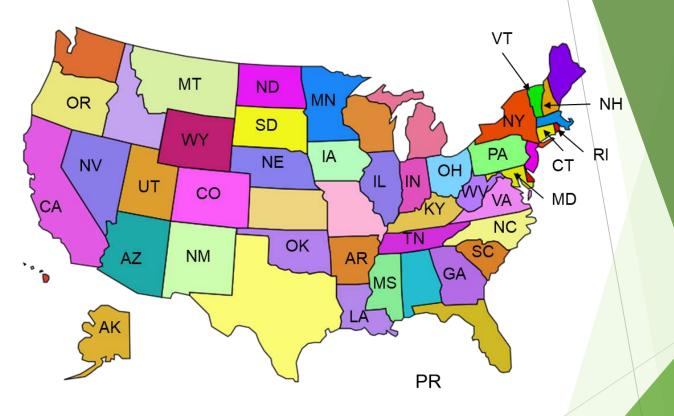






## ITRC ASCT State Survey to Understand State Experience

- 19 questions about experience with ASCTs
- 53 responses from 38 states plus USEPA



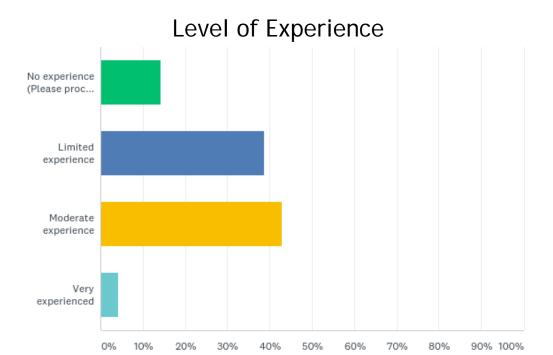
USEPA - Caribbean

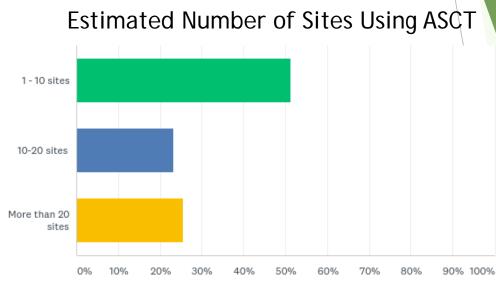






### Results from the State Survey







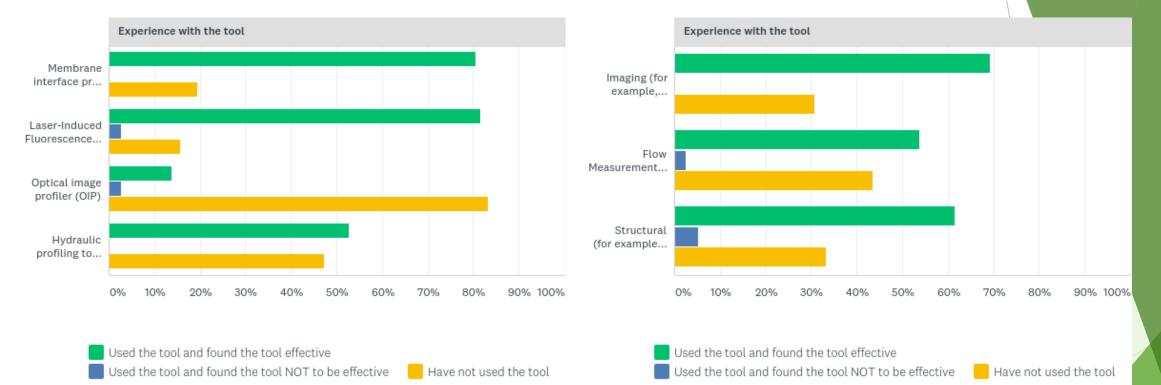




### Results from the State Survey

**Direct Sensing** 

#### Downhole Geophysics

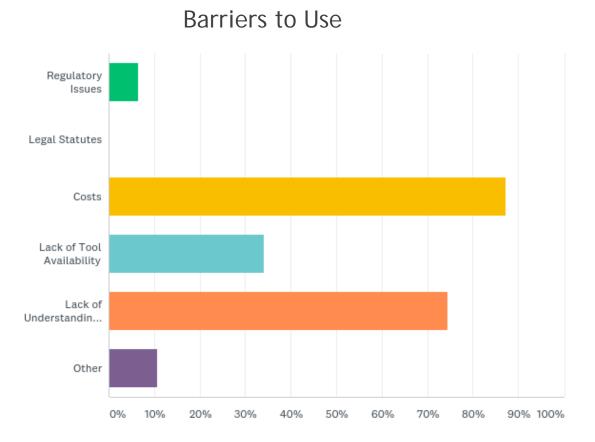




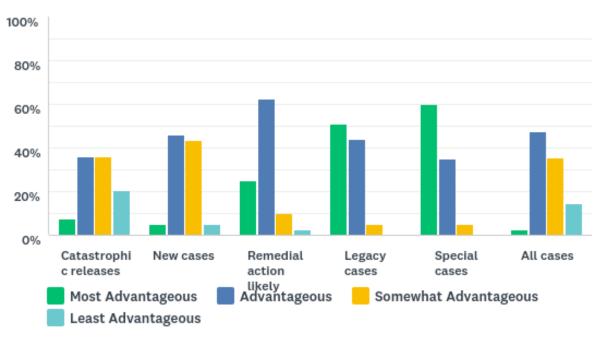




## Results from the State Survey



When to Use









## ASCT Team Writing Subgroups for Document Development



#### Surface Geophysics

Jennifer Jevnisek, MN Todd Kafka, Geosyntec

## Downhole Geophysics

Andrew Fuller, NH Brian Sandburg, GHD

#### Direct Sensing

Todd Mullins, KY
Jim Finegan, Kleinfelder

## Remote Sensing

John Mefford, WA







## Technical and Regulatory Guidance Document

The guidance document will be web-based

#### Purpose

- What is the tool?
- Why would you use it?
- When should it be used?
  - ► Tools that support one another
- How to get it or them on your site
- What to expect
- How to interpret the results

#### Objectives

- Prepare a request for proposals
- Review a proposal for completeness
- Understand a report received from a contractor
- Know whether information received is a quality, reliable product







#### Guidance Document Outline

#### **Document Outline**

- Introduction
- Technology Overview
- Direct Sensing
- Geophysics
  - Downhole Geophysics
  - Surface Geophysics
- Remote Sensing
- Stakeholders Perspective
- Regulatory Context
- Case Studies
- References
- Additional Information

#### Tool Section Topics

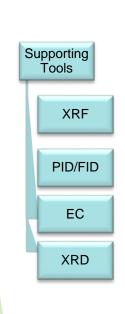
- Introduction
- Site Preparation
- Tools
  - Short Description
  - Advantages and Limitations
    - Technical and Non-Technical
  - Quality Control
  - Data
    - Collection Design
    - Interpretation and Presentation
  - Costs
  - Case Studies
- References

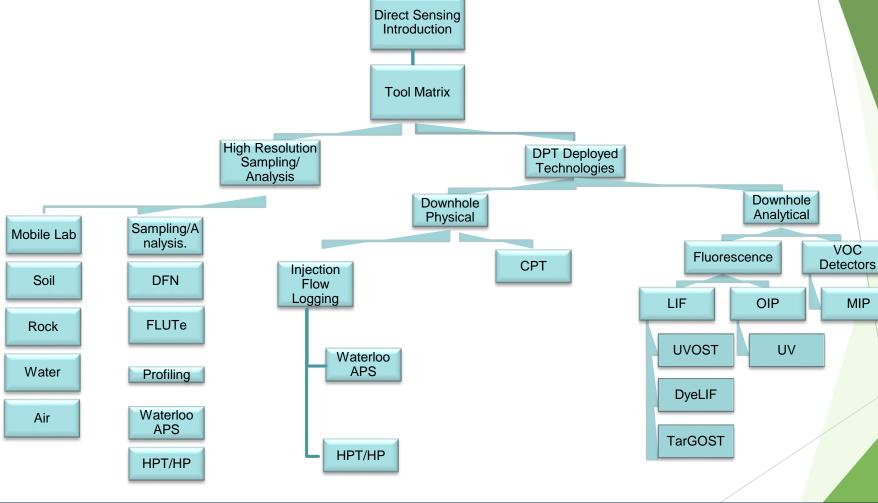






Example Chapter Content- Direct Sensing Tools



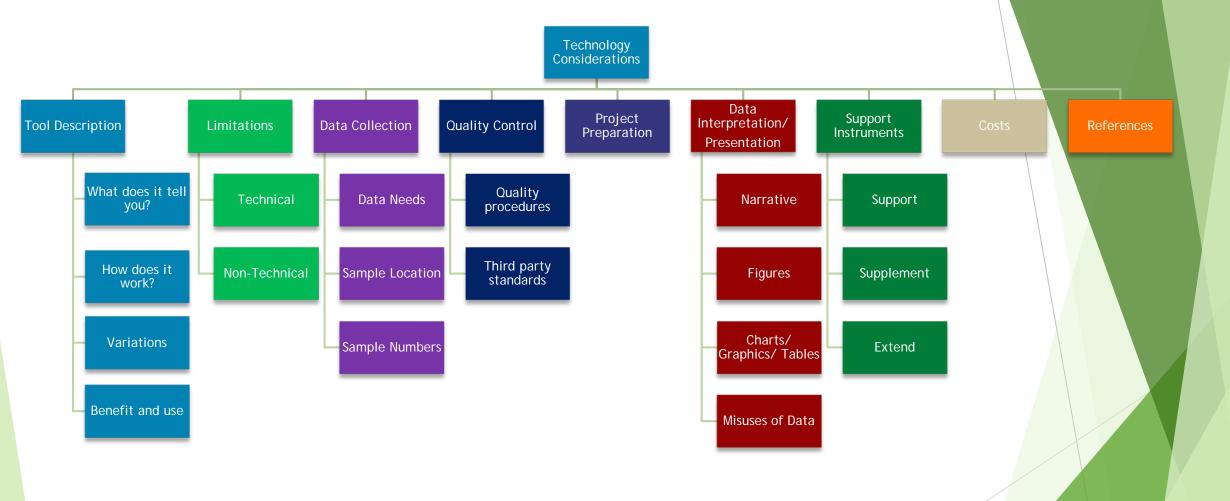








## Example Chapter Outline: Direct Sensing









#### Team Schedule

- First draft for team review September 2018
- Second team draft document December 2018
- ► ITRC external review of document April May 2019
- Internet-based Training (IBT) development Mid-2019
- Web-based document and IBT complete End-2019







## Thank you!

#### **ASCT Team leaders:**

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### Stay updated on ITRC's activities:















