Key Issues Under Consideration at the Interstate Technology Regulatory Council: Technology Transfer Challenges and Solutions

MIDWEST ENVIRONMENTAL COMPLIANCE
CONFERENCE

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Advancing Environmental Solutions

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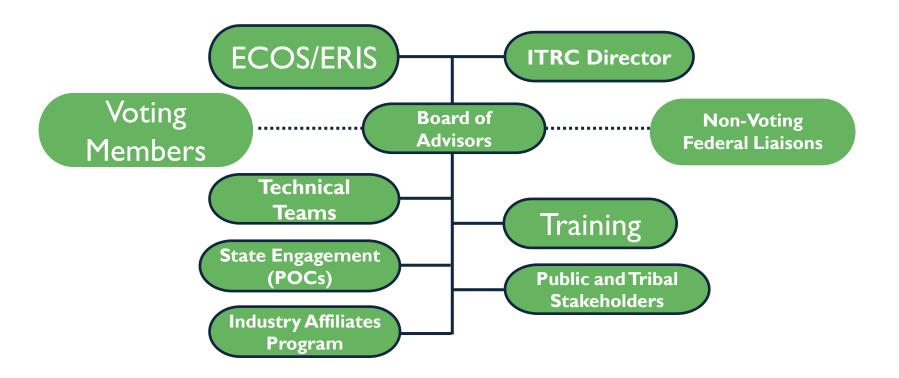


What is the Interstate Technology Regulatory Council?

ITRC is a state-led coalition working to increase regulatory acceptance of innovative environmental technologies and approaches. At 22-years old, ITRC has grown into a national organization representing all 50 states that broadens and deepens technical knowledge, and expedites regulatory decision-making.



ITRC Organization





ITRC Mission

To develop information resources and processes to break down barriers to the use of technically sound innovative solutions for healthy communities, economy, and environment.





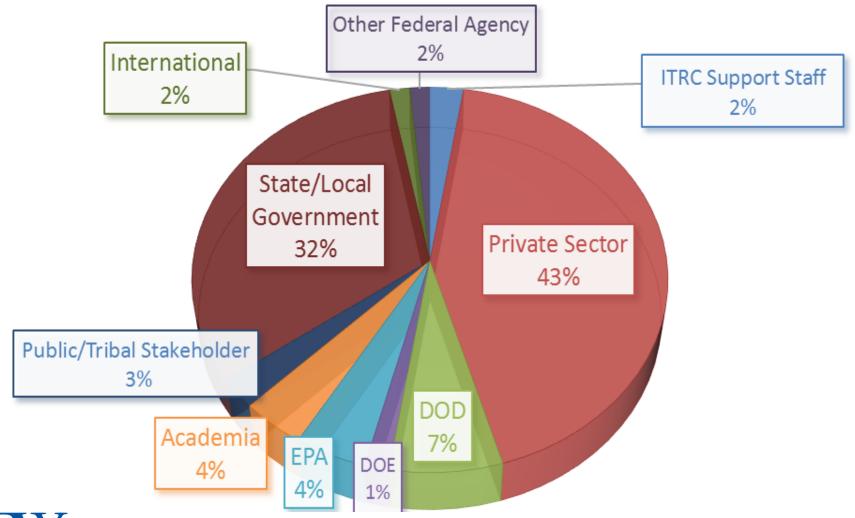
ITRC Values

- Facilitate better decision-making by fostering the acceptance and use of *innovative solutions*
- Develop solutions by working as a state-led organization in partnership with those affected by the guidance we develop
- Produce products that are grounded in technical excellence
- Work with integrity in a culture of collaboration
- Strive for consensus in decision-making and development of products





2017 Membership Composition



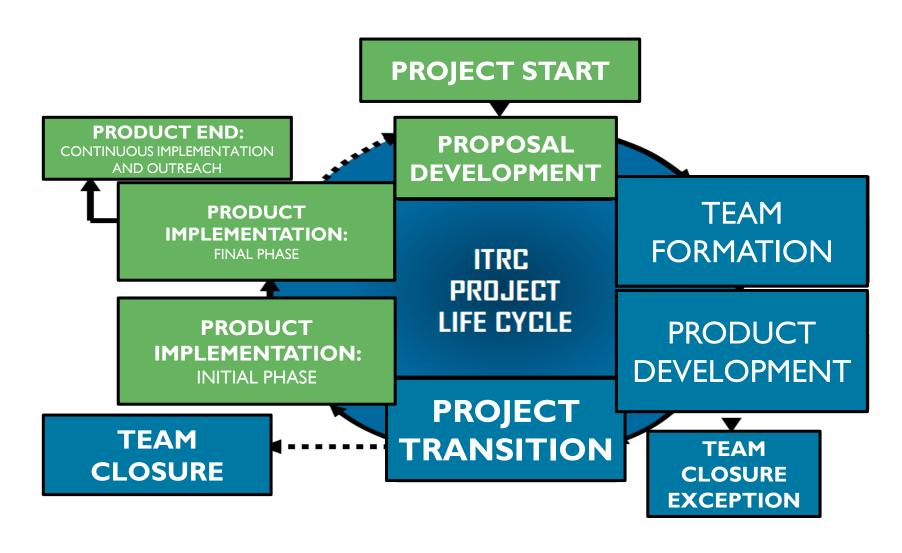


2017 ITRC Technical Teams

- Stormwater BMP Performance Team
- Evaluation of Innovative Methane Detection Technologies
- Bioavailability in Contaminated Soil
- Characterization and Remediation in Fractured Rock
- LNAPL Update
- Quality Considerations for Multiple Aspects of Munitions Response Sites
- Remediation Management of Complex Sites
- TPH Risk Evaluation at Petroleum-Contaminated Sites
- Key Information Needed to Develop Strategies to Address Environmental Releases of Per- and Polyfluoroalkyl Substances (PFASs) NEW









What Does ITRC "Produce"

- Fact Sheets
- Guidance Documents
 - Printed documents (mostly-pre 2014)
 - Internet based documents
 - Websites
 - Web viewable documents
- Training
 - In person training sessions
 - Internet sessions





2016 Major Activities

Release of two documents

- Geostatistics
- Institutional Controls
- Hits to website
 - 11,000 average monthly unique visitors
- Implemented social media
 - Current stats:
 - 164 Twitter followers
 - 113 Facebook followers
 - 917 LinkedIn followers





2017 MAJOR ACTIVITIES

- Anticipated completion of 3 teams and release of team products
 - Complex Sites, Fractured Rock, Bioavailability
- 6 PFAS Factsheets to be released
- New Governance
- New Co-Chairs





2016 Training Activities

10,387 participants in 2016 online training

- 45 online courses
- 13 different topics

Training classes:

- 3 PVI classes in CO, NJ,
 MA 600 attendees
- LNAPL class in GA –
 200 attendees







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Documents: http://www.itrcweb.org/guidance

Membership: http://www.itrcweb.org/Membership/Welcome

Teams: http://www.itrcweb.org/Team

Training Schedule:

http://www.itrcweb.org/Documents/TeamResources_Outreac hMaterials/ITRC-2017-Classes-013017.pdf

Mass Flux:

http://www.itrcweb.org/Guidance/ListDocuments?TopicID=14
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Tech Transfer: A Case Study

ITRC's role in implementing Geophysical Classification for Munitions Response

Geophysical Classification: Buried metal items can be classified in the ground using data collected by geophysical sensors as either:

- Potentially hazardous munitions and excavated as required
- 2) Or non-hazardous metal clutter, debris, or geology that can be left in the ground



Munition



Suspected Munition



Munition Fragment



Debris





Tech Transfer: A Case Study

ITRC's role in implementing Geophysical Classification for Munitions Response

Removal Action Camp Sibert, Alabama, Site 18:

- Advanced geophysical classification sensor data collected using the MetalMapper system
- Sensor data were processed and analyzed to categorize the buried metal items to determine 1) which would require excavation and 2) which could be left in the ground



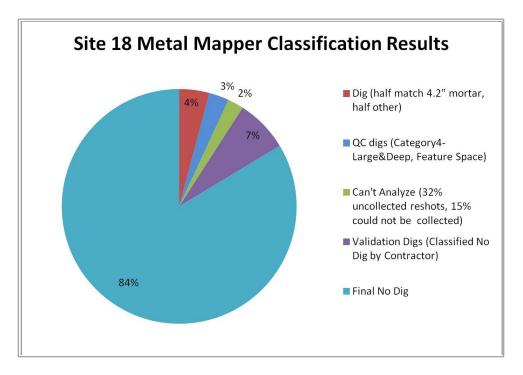


Tech Transfer: A Case Study

ITRC's role in implementing Geophysical Classification for Munitions Response

Benefits:

- Cost Savings: Comparison
 between the classification
 technique and 100% excavation of
 all detected buried items showed
 a cost savings of 48%–55% with
 the classification technique
- Reduced Onsite Schedule and Land Impact: Site is a hunting preserve with fields planted to attract wildlife. Using classification would allow for less excavations for faster completion and less impact on the land





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