

# May 2005 FRTR PBM Briefing



## Performance Based Management The Interstate Technology Regulatory Council Experience

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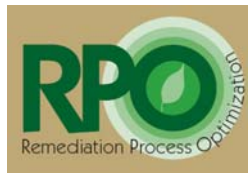


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- ▶ Introduction to the ITRC
- ▶ Performance Based Management
- ▶ Remediation Process Optimization



# Purpose of ITRC

## Regulatory Acceptance for New Solutions

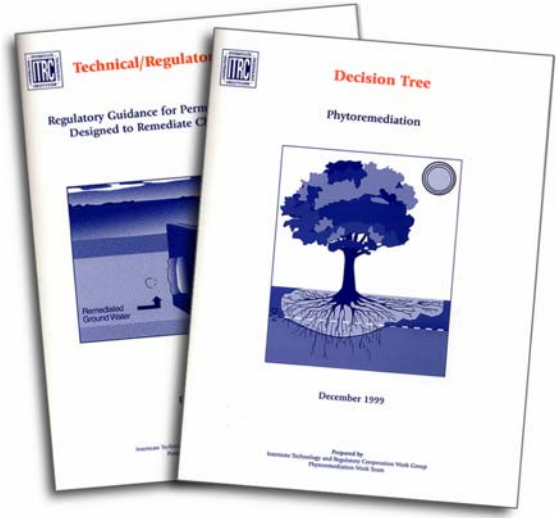


ITRC is a state-led, national coalition of regulators and others working to

- ▶ Improve state permitting processes and
- ▶ Speed implementation of new environmental technologies

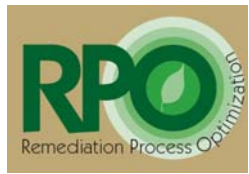


# ITRC is a Proven Model



**Mutual priorities lead to partnered solutions & consensus-based tools.**

- ➔ Regulatory and Technical Guidelines
- ➔ Technology Overviews
- ➔ Case Studies
- ➔ Peer Exchange / Network
- ➔ Technology Advocates
- ➔ Classroom Training Courses
- ➔ Internet-Based Training Courses



# Participants



- Industry representatives
- Academia
- Public stakeholders
- Federal agencies

- Host organization



Environmental Council of the States

- State organizations



Western Governors' Association



Southern States Energy Board



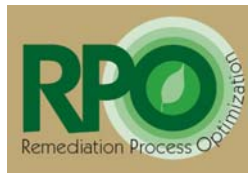
U.S. Department of Energy



U.S. Environmental Protection Agency



U.S. Department of Defense



# Board of Directors & Management



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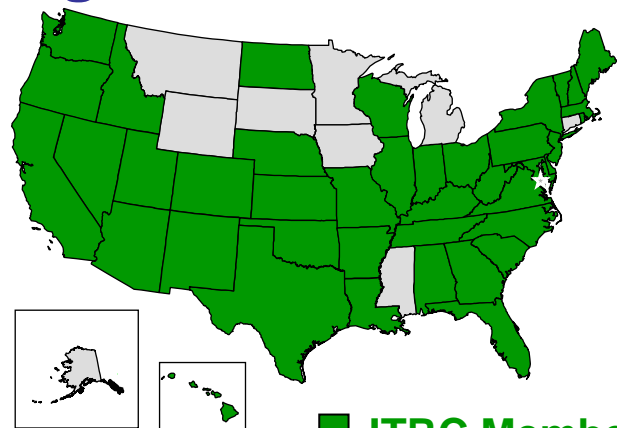


# State Engagement Program

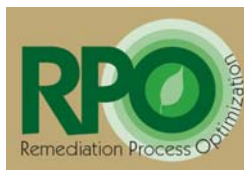


## Network of 44 Points of Contacts

- ▶ Ensures ITRC documents are available, understood, and used
- ▶ Promotes multistate concurrence of technical and regulatory guidelines
- ▶ Coordinates Internet-based training
- ▶ Documents ITRC's successes
- ▶ Promotes regulatory innovation
- ▶ Promotes peer exchange



■ ITRC Member State



# 2005 ITRC Teams (14)



- ▶ Remediation Process Optimization
- ▶ Diffusion Sampler Technology
- ▶ Radionuclides – Cleanup and Characterization
- ▶ Alternative Landfill Technologies
- ▶ Unexploded Ordnance (UXO)
- ▶ Sampling, Characterization, and Monitoring
- ▶ MTBE and other Fuel Oxygenates Brownfields
- ▶ Mitigation Wetlands
- ▶ Risk Assessment Resources
- ▶ Bioremediation of DNAPLs
- ▶ Ecological Enhancements
- ▶ Vapor Intrusion
- ▶ Enhanced Attenuation: Chlorinated Organics
- ▶ Perchlorate





# Benefits

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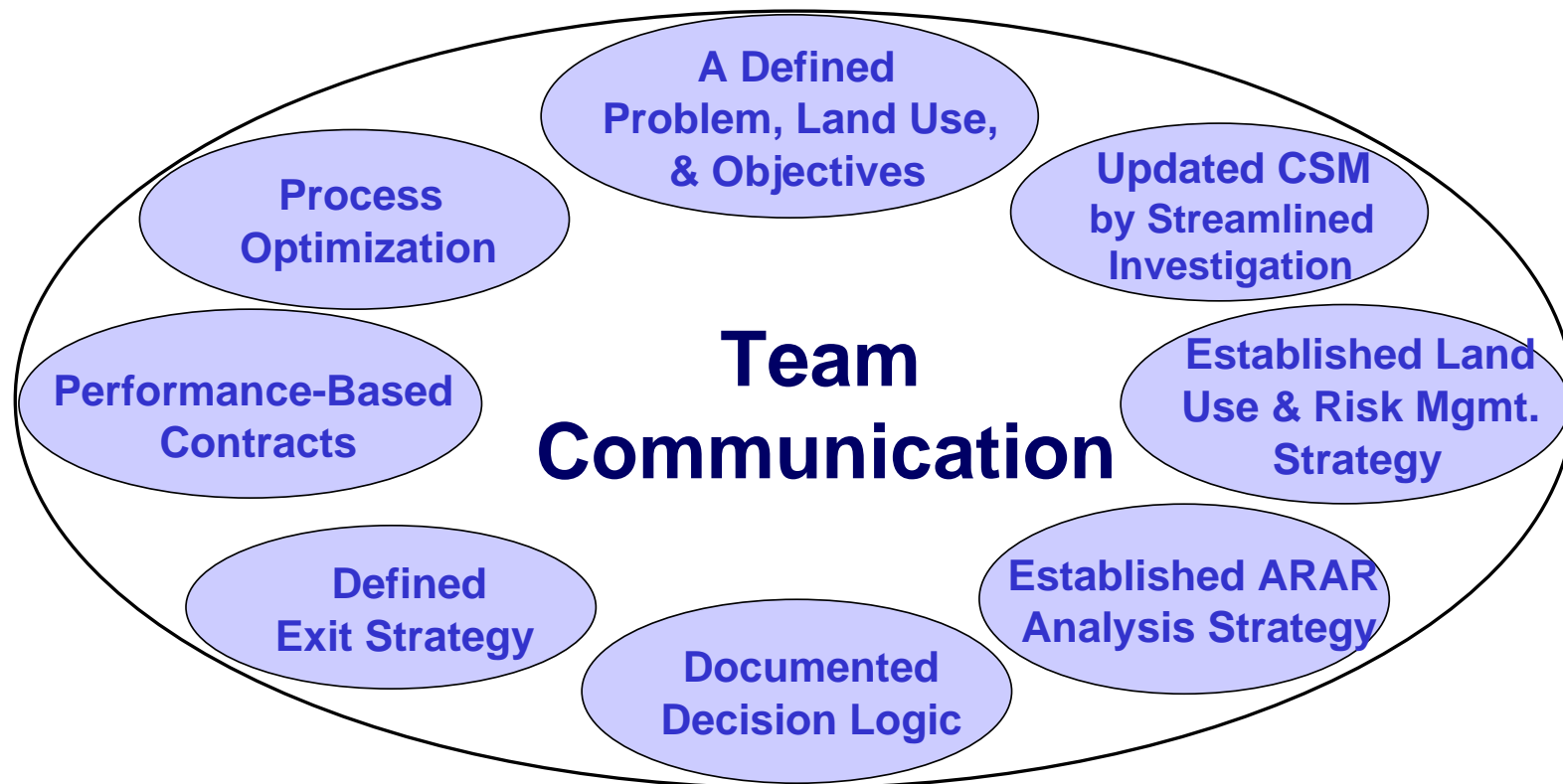
- ▶ Facilitates interactions between project managers and state regulators
- ▶ Increases consistency of regulatory requirements for similar sites in different states
- ▶ Helps reduce uncertainties when preparing cleanup plans
- ▶ Addresses contaminants and issues of concern
- ▶ Technical teams dedicated to problems of interest to each Federal Agency

# Performance Based Management

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**Performance-based Management is a strategic and goal oriented uncertainty management methodology. It is implemented through a dynamic and systematic planning process, with an established decision-logic, and with the end goals in mind.**

# Performance Based Management



# Why States are Interested in PBM



## USEPA LTRA Projects

# Why States are Interested in PBM

## State Funded - State Lead Clean-up



# Why States are Interested in PBM

Private Party Clean-ups,  
Voluntary or Under  
Enforcement  
Oversight



# PBM Issues



- ▶ State awareness
- ▶ State resources
  - ▶ Effect on turn around time
- ▶ Emphasis on risk based clean-up
- ▶ ASTSWMO white paper

Survey of State interest will flesh out issues



# Performance Based Management



## Upcoming ITRC PBM Products

Fact Sheets, 2005:

- ▶ Performance Based Management
- ▶ Life-Cycle Cost Analysis
- ▶ Above Ground Treatment Technology
- ▶ Data Visualization
- ▶ ARAR Analysis
- ▶ Internet Training Component



Guidance Document & Internet Training, 2006



# Remediation Process Optimization (RPO)

**What is Remediation Process Optimization and How Can It Help Me Identify Opportunities for Enhanced and More Efficient Site Remediation?**



ITRC Technical and Regulatory Guidance Document:  
*Remediation Process Optimization: Identifying  
Opportunities for Enhanced and More Efficient Site  
Remediation*

Doc. No. RPO-1

# What is RPO?

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Remediation Process Optimization (RPO) is the systematic evaluation and enhancement of site remediation processes to ensure that human health and the environment are being protected over the long term at minimum risk and cost.

# Why RPO?

- ▶ Federal, state, and private-sector organizations are spending billions of dollars to achieve cleanup
- ▶ Throughout the remedial process, environmental conditions become more apparent and resources continue to diminish
- ▶ New innovative remedial technologies are continuously being developed
- ▶ All parties have a strong desire to achieve clean closure

# Elements of RPO

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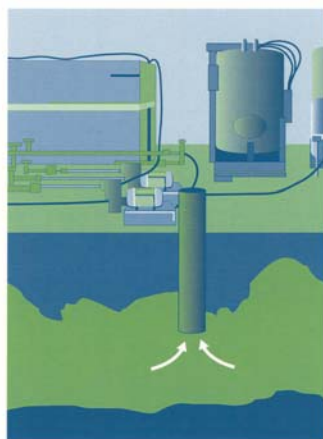
- ▶ Site selection
- ▶ Building the RPO team
- ▶ Evaluating the exit strategy
- ▶ Evaluating performance
- ▶ Evaluating cost efficiency
- ▶ Remedy optimization
- ▶ Monitoring optimization
- ▶ Cost benefit analysis
- ▶ Implementation and tracking

# RPO Information



## Technical/Regulatory Guideline

### Remediation Process Optimization: Identifying Opportunities for Enhanced and More Efficient Site Remediation



September 2004

Prepared by  
The Interstate Technology & Regulatory Council  
Remediation Process Optimization Team



## Documents

[www.itrcweb.org](http://www.itrcweb.org)

## Training

[www.clu-in.org/conf/itrc/rpo](http://www.clu-in.org/conf/itrc/rpo)

## OptCon Proceedings

[www.frtr.gov](http://www.frtr.gov)

# Contact Info & Links

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