

Update on Joint FRTR Initiatives

**May 25, 2005
FRTR Meeting**

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Project Updates

- Decision Support Tools Matrix
- Long-Term Monitoring Optimization (LTMO) Seminar Report
- Upcoming Workshop on Nanotechnology for Site Remediation

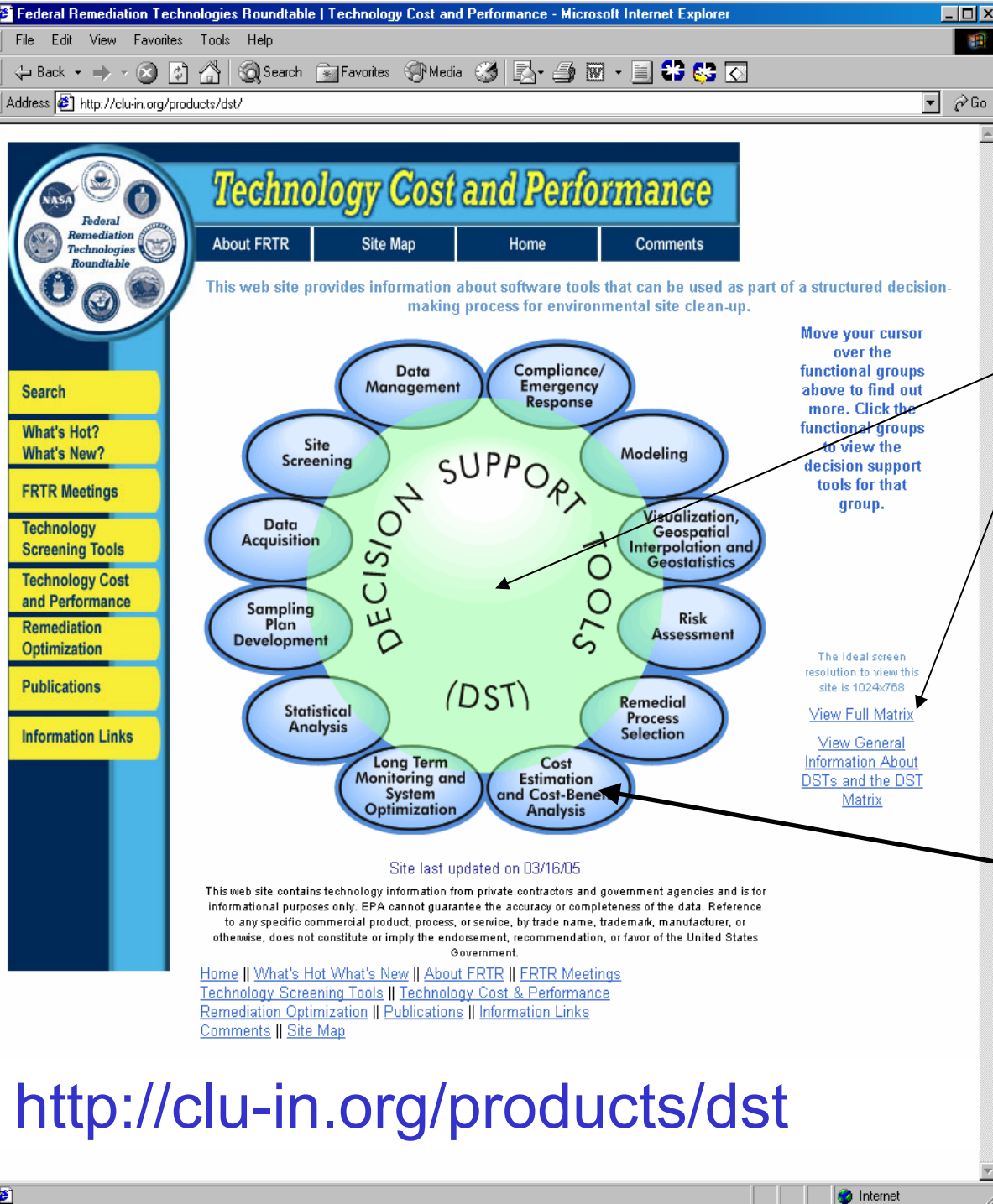
Decision Support Tools Matrix

Decision Support Tools

- 20 tools reviewed for matrix
- Criteria:
 - The end user able to use a computer, but not a computer modeling expert
 - Default output should be predictive (decision support) from input
 - Freely available to the public; no commercial software
- Technical review process

What's New?

- Clu-in Posting (<http://clu-in.org/products/dst/>)
- Soon: Final Report
- Soon: Case Studies
 - VSP
 - SADA/FIELDS
 - Scribe
 - Johnson & Ettinger Model
 - Bioscreen



DST Home

Full Matrix

Functional Groups

Move your cursor over the functional groups above to find out more. Click the functional groups to view the decision support tools for that group.

The ideal screen resolution to view this site is 1024x768

[View Full Matrix](#)

[View General Information About DSTs and the DST Matrix](#)

Site last updated on 03/16/05

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<http://clu-in.org/products/dst>

DST Matrix

All 20 Tools

http://clu-in.org/products/dst/DSTMatrix.htm - Microsoft Internet Explorer

Address http://clu-in.org/products/dst/DSTMatrix.htm

Decision Support Tool	Functions	Inter-active (I) or File Input (F)	File Input/Output					Contaminants						Media					Potential Techn Member	
			Tabular		Graphic		Print Report	Metals	Chlorinated Solvents	SVOCs	Pesticides PCBs	Petroleum	Radionuclides	Soil / Sediment	Soil Gas	Air	Surface Water	Ground Water		
			Input	Output	Input	Output														
AMDTreat	Cost Estimating Calculators (Water Quality)	I	NA	NA	NA	NA	Yes	✓	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	Engineer Geoch
ARAMS	Human Health Risk Assessment Ecological Risk Assessment Statistical Analysis Conceptual Site Model	I	NA	xls txt	NA	NA	Yes	✓	✓	✓	✓	✓	✓	NA	✓	✓	✓	✓	✓	Risk Ass
BIOCHLOR	Analytical Modeling Site Screening Remedial Process Selection	I	NA	xls	NA	xls	Yes	NA	✓	NA	NA	NA	NA	NA	NA	NA	NA	NA	✓	Hydrogeo General techn familiar with ch and trans
BIOPLUME III	Numerical Modeling Visualization Remedial Process Selection	I	NA	csv txt	bmp	bmp avi	Yes	NA	NA	NA	NA	✓	NA	NA	NA	NA	NA	NA	✓	Hydrogeo General techn familiar with ch and trans
BIOSCREEN	Analytical Modeling Remedial Process Selection	I	NA	xls	NA	xls	Yes	NA	NA	NA	NA	✓	NA	NA	NA	NA	NA	NA	✓	Hydrogeo
CAMEO	Database Emergency Response Tool Regulatory Reporting (EPCRA) Analytical Modeling	I/F	mer	zip	jpg bmp gif tif pcx	jpg bmp gif tif pcx	Yes	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Emergency R
FIELDS	Visualization Initial Sampling Secondary Sampling Geospatial Interpolation Cost-Benefit Analysis Human Health Risk Assessment Ecological Risk Assessment	F	xls	dbf txt	dxg shp	jpg tif wmf eps	Yes	✓	✓	✓	✓	✓	✓	✓	✓	NA	✓	✓	✓	GIS Technician Statistician Staff familiar with interpolation techniques
FSPLUS	Visualization Geospatial Interpolation Data Acquisition	F	dbf	NA	dxg	jpg	No	✓	✓	✓	✓	✓	✓	✓	✓	NA	✓	✓	✓	Statistician Staff familiar with interpolation techniques
GeoSEM	Visualization Statistical Analysis Geospatial Interpolation	F	xls msh	dbf	many ²	shp	No	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Risk Assessor Statistician

SCROLL

What's Next?

- Website Revision—comments from
 - FRTR members
 - Tool developers
 - **Due JUNE 3, 2005**

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- Transfer site Clu-in.org → FRTR.gov
- Poster
- Add Tools?

Long-Term Monitoring Optimization (LTMO) Seminar Report

Long-Term Monitoring Optimization for Ground Water Seminar

- Location: Sacramento, CA
- Date: March 30-31, 2005
- Purpose: Familiarize Participants with Long-Term Monitoring Optimization Approaches, Benefits, and Pitfalls
 - Annual LTM costs are expensive and growing
 - Current monitoring may yield 'wrong' level of information given site objectives
 - LTM data are often not evaluated against monitoring objectives
 - LTMO confirms monitoring program meets monitoring objectives
- Sponsored by: Navy, Army Corp., Air Force, EPA (R9 and TIFSD), and California State

Long-Term Monitoring Optimization for Ground Water Seminar

Day 1:

- Lectures on LTM Optimization Benefits, Approaches, Results Review, Case Studies, Resources
- 100 participants
- The audience consisted of state of CA employees (~60%), private sector employees (~20%), federal employees (~15%), and several employees from other western states (~5%)

Day 2:

- Hands On Use of recently developed quantitative, based on statistics and geostatistics, LTMO methods.
- 35 participants
- Participation was limited due to computer space

Long-Term Monitoring Optimization for Ground Water Seminar

- The seminar was a great success
 - Quickly filled with a long waiting list
 - Very interactive
 - Feedback was extremely positive
 - Evaluations from the seminar overwhelmingly indicated seminar was needed and should be conducted again
- Documents: Roadmap to Long-Term Monitoring Optimization EPA 542-R-05-003
- EPA/TIFSD is currently conducting 2 LTMO evaluations
- EPA is considering additional deliveries in regions in the South, Midwest, and East
- For further info: yager.kathleen@epa.gov
617-918-8362

**Workshop on
Nanotechnology for
Site Remediation**

Workshop on Nanotechnology for Site Remediation

- Purpose
 - Present latest research results
 - Discuss research needs
 - Stimulate increased collaboration

Workshop on Nanotechnology for Site Remediation

- Potential Sponsors and Organizers
 - EPA—ORD and TIFSD
 - Department of Commerce
 - DoD
 - DoE
 - FRTR
 - NASA
 - National Council for Science & the Environment
 - NIEHS
 - NSF

Workshop on Nanotechnology for Site Remediation

- Location/Date
 - Washington, DC
 - October 20-21, 2005
- Participants
 - 75 to 100 invited participants from academia, industry, and government
- Expected Outcome
 - Workshop proceedings
 - Potential partnership for future solicitation for research
- For further info: otto.martha@epa.gov
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