

Path Forward for Triad Implementation

**Federal Remediation Technologies
Roundtable (FRTR)**

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Technology Innovation Program

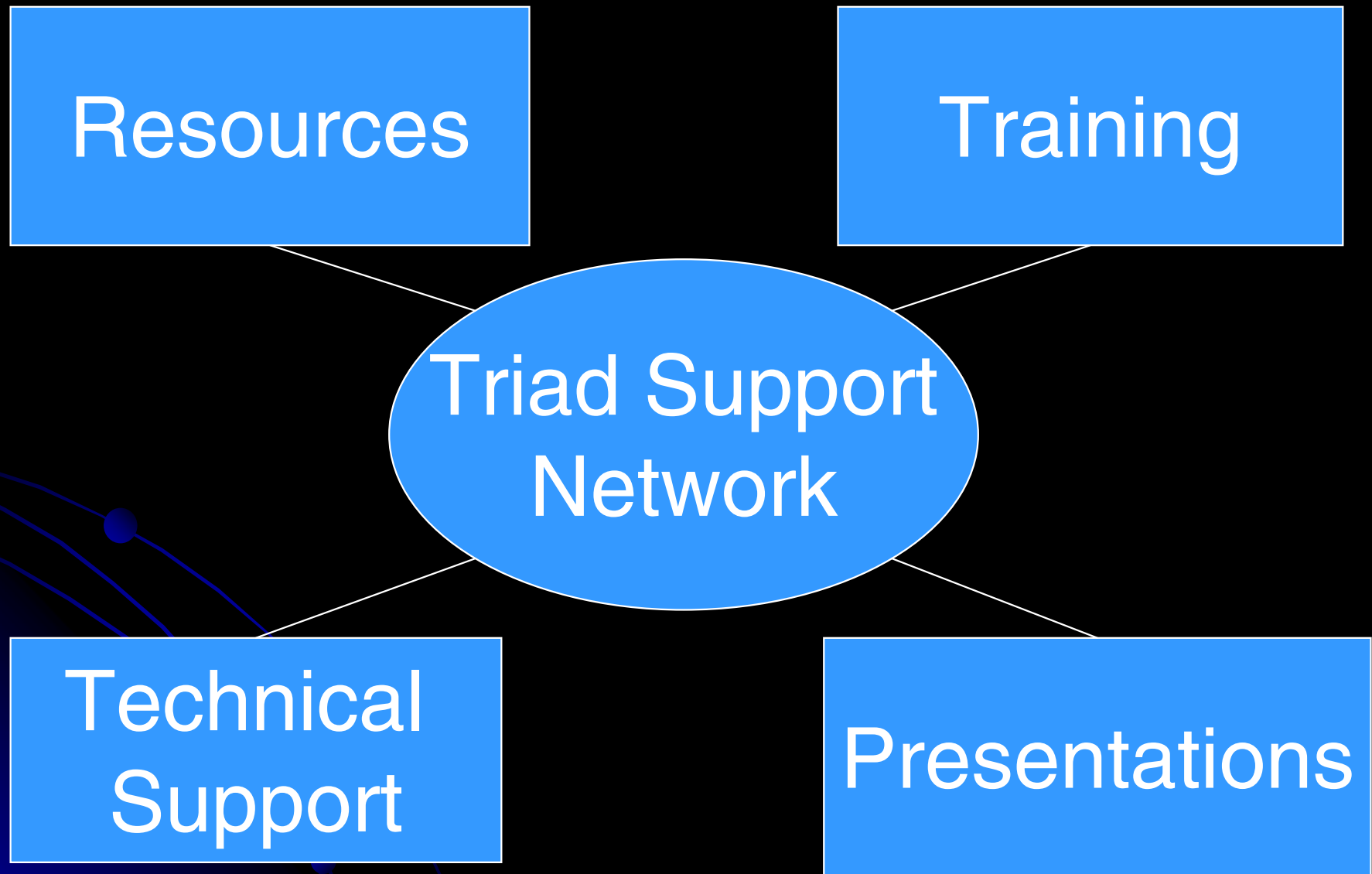
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Key Messages

- Summarize triad “campaign” to date
- Describe plans and opportunities for future
- Invite FRTR member participation in path forward

Multi-Faceted Approach



Principal Triad Resources

- EPA website clu.in.org/triad
- USACE Technical Project Planning (TPP) Process Engineering Manual (1998)
- Adaptive Sampling & Analysis Programs (ASAP) “Green Book” (DOE-Argonne, 2001)
- Triad Fact Sheets (EPA 2001)
- Dynamic Field Activities (DFA) Guidance (EPA 2003)
- Triad On-Line Resource Center (EPA/Argonne 2004)

Principal Triad Resources (Cont'd)

- Technical and Regulatory Guidance for the Triad Approach (Interstate Technology and Regulatory Council - ITRC, early 2004)
- Site-Specific Documentation (*Ongoing*)
 - Case Studies
 - Wenatchee Tree Fruit/Immunoassay
 - Cos Cob/XRF, on-site lab
 - Project RFPs/Plans

Brownfield Triad Resources

- Assessing Contractor Capabilities for Streamlined Site Investigations (2000)
- Requesting and Evaluating Proposals that Encourage Innovative Technologies for Investigation and Cleanup (2001)
- Using the Triad Approach to Streamline Brownfields Site Assessment and Cleanup (2003)

www.brownfieldstsc.org

Triad Journal Articles/Papers

- “Managing Uncertainty in Environmental Decisions” (ES&T, Oct. 1, 2001)
- “Using the Triad Approach to Improve the Cost-Effectiveness of Hazardous Waste Site Cleanups” (Oct. 2001)
- “The Relationship Between SW-846, PMS, and Innovative Analytical Technologies” (Oct. 2001)
- “In Search of Representativeness: Evolving the Environmental Data Quality Model” (Quality Assurance, 2002)“
- Improving Decision Making: Making the Case for Adopting Next Generation Site Characterization Practices” (Remediation, Spring 2003)

Triad Presentations/Training

- Internet seminars on fundamentals (1-2 hours)
- Numerous conferences
 - Superfund Site Assessors
 - EPA Risk Assessors
 - USACE Chemists Annual Meeting
 - EPA QA/QC/Lab Staff
 - USACE/EPA Remediation Conf. 12/03
 - EPA Remedial Project Managers (NARPM)
- NJ Training (regulators, consultants-2003)
- EPA Region 2 Training (Nov. 2003)

Triad Presentations/Training

Plans for 2004

- Establish a triad “speakers bureau”
- Hold a national triad seminar (mid 2004)
- Region 2 On-Scene Coordinators (OSCs)
- Train 1-3 additional regions
- Participate in ITRC internet training
- Expand conference participation
 - Case studies
 - Panel discussions on overall cost savings
 - Battelle Spring 2004 (proposed)
 - AEHS Fall 2004 (proposed)
- FRTR agency training?

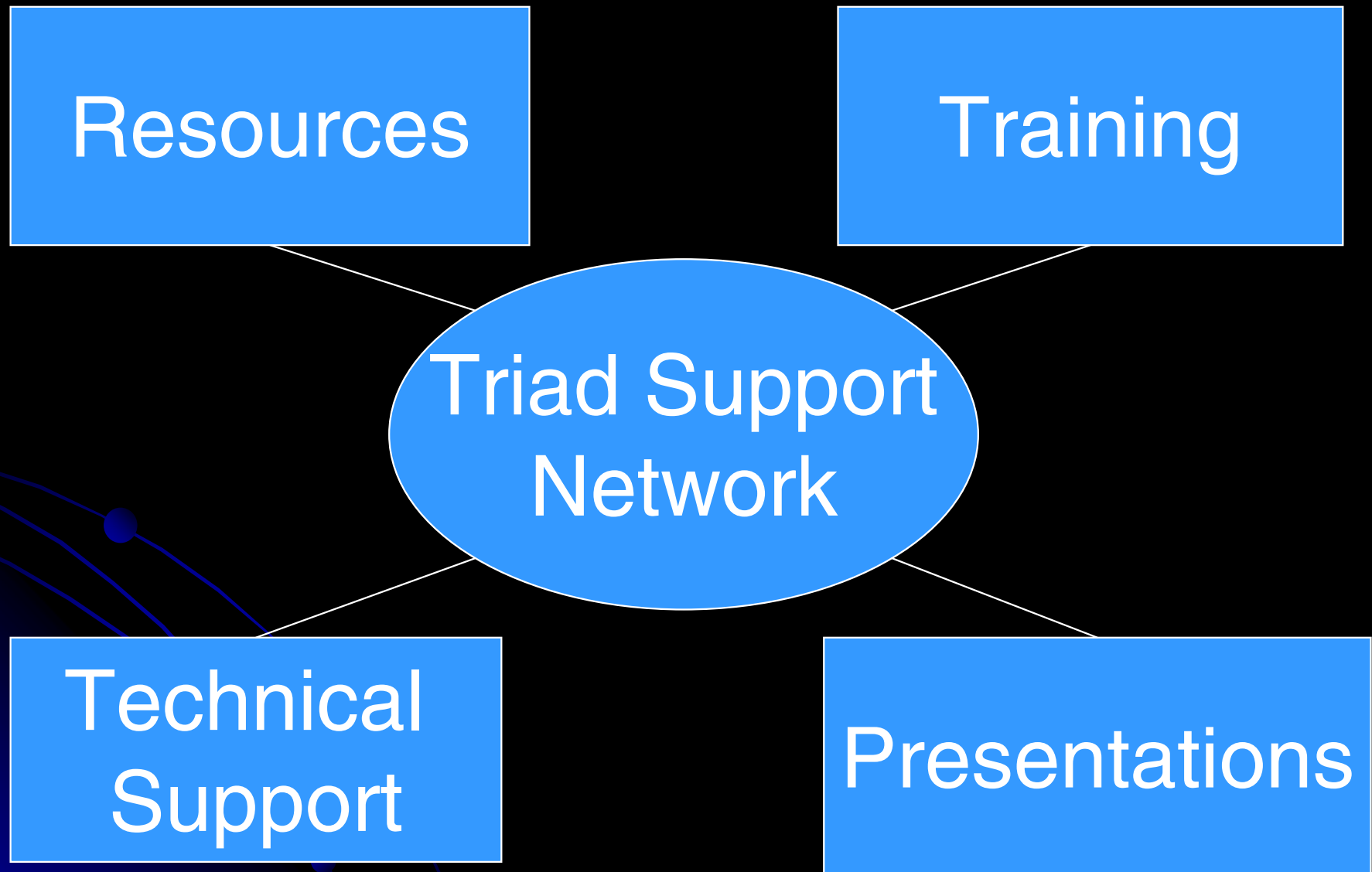
Triad Technical Assistance

- USACE assists EPA site managers for Superfund, RCRA, UST, and Brownfields sites (Kira Lynch, Seattle District)
- Brownfield Tech Support Center (thru EPA contractor) assists regions/states/localities with Brownfield sites
- DOE Argonne Nat'l Lab assists UST site managers (Jack Ditmars)
- EPA/ORD (LV) and EPA/Environmental Response Team (ERT) will assist EPA Superfund site managers

Proposed Joint Implementation

- Need to build “triad capacity”
- Experts
 - Conveners/facilitators
 - Field/implementation support
 - Outreach & training (“speakers bureau”)
 - Specialists
- Experts training in early 2004
 - Participants must have existing “triad” or specialty experience
 - 2 days on triad concepts, implementation, & roles
- Technical Support “Centers”

Multi-Faceted Approach



Proposed Joint Implementation (Cont'd)

- Triad Support Network
 - Members from agencies, EPA regions & labs, states, academia
 - Periodic conference calls
- Goal to exchange information and identify:
 - Site opportunities and needed triad support
 - Training & presentation opportunities
 - Case studies & project plans
 - More “experts”
- Coordinate with USACE Triad Innovative Technology Advocates (ITAs)

Next Steps

- Identify staff for Triad Experts Training
- Identify staff for Triad Support Network
- Contact Linda Fiedler at fiedler.linda@epa.gov or 703-603-7194