

Federal Remediation Technologies Roundtable

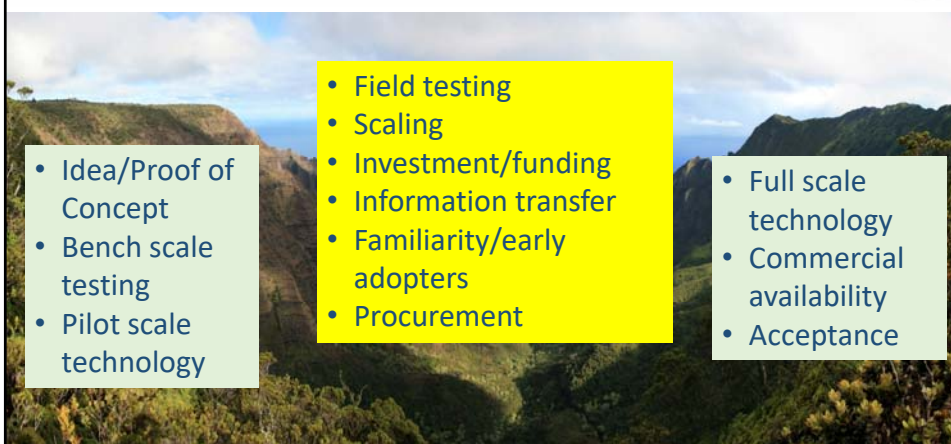
Closing Remarks: Meeting Summary



Dan Powell

**Chief, Technology Integration and
Information Branch
Office of Superfund Remediation and
Technology Innovation
Office of Land and Emergency
Management
U.S. Environmental Protection Agency**

Technology Development: "The Valley of Death"



- Idea/Proof of Concept
- Bench scale testing
- Pilot scale technology

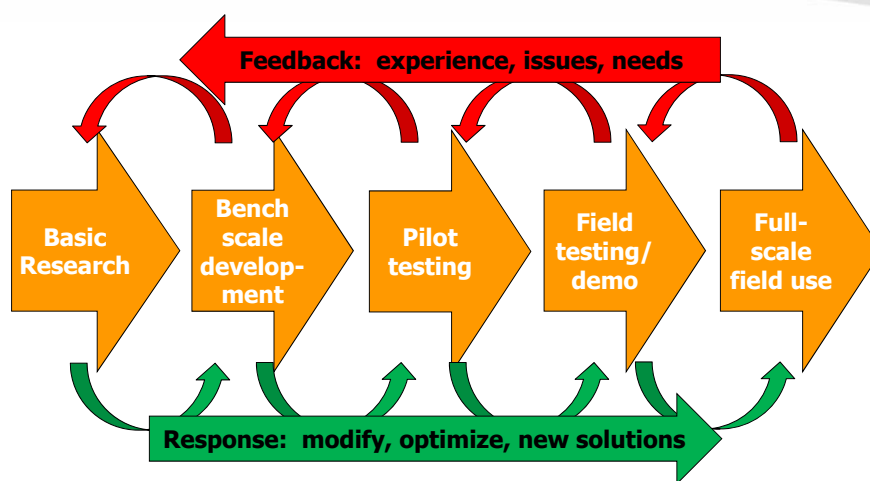
- Field testing
- Scaling
- Investment/funding
- Information transfer
- Familiarity/early adopters
- Procurement

- Full scale technology
- Commercial availability
- Acceptance

Charting a Course to Innovation

- Individual demonstrations will not lead to technology use, acceptance. Requires sharing and building on information, use at multiple sites. Not solely a function of formal demonstration or verification programs
- Technology demonstration has multiple levels
 - Field access to support research
 - Field demonstration to support transition to field-scale, commercial scale technology availability
 - Pilot or treatability testing to support selection at sites, raise comfort of regulators, site owners, and contractors

Innovation is Not a Linear Process



Collaboration is Essential

- Many information needs
 - Many decisions/decisionmakers
 - Many perspectives
- Research is spread out
 - Agencies/Federal funding
 - Private sector research
 - Funding, technology incubation
- Leveraging vs. duplicating

Key Resources to Advance Innovation

- Technical Support
- Training resources
- Information exchange/accessibility
- Interagency cooperation.....FRTR!

FRTR and the Path Ahead

- FRTR Working Group is regrouping (over the summer/early Fall) to:
 - Utilize input received for guidance in FRTR directions, topics, products, etc. over next 5, 10.....years
 - Strategically identify short-term, medium-term, and long-term goals
 - Guide topic selection of future FRTR meetings and sub-working groups
- Products:
 - PowerPoint presentations posted on meeting webpage, the recorded archives will be available in a week
 - Follow on webinar(s), “FRTR Presents....”?
 - Meeting report summarizing findings
 - Anticipate there will be other products that relate to short-term, medium-term, and long-term goals

FRTR Spring 2021 Webinar and Meeting

May 19, 2021

The Federal Remediation Technologies Roundtable

You may send your thoughts by email to FRTR@emsus.com by May 31, 2021.

1) Grand Challenges:

What are the grand challenges facing your agency regarding remediation over the next decade?

2) Technology Needs and Research Gaps:

Focusing on specific technology needs, the FRTR has identified these cross-cutting issues going forward:

- Contaminant source and site characterization
- Emerging contaminants
- Remedy resilience under evolving climatic conditions

What are your agency's remediation technology needs or research gaps for these issues? Are there other key issues not captured above?

3) Advancing New Technologies:

- ✓ *What are the main barriers to advancing application of innovative remediation approaches from your agency's perspective?*
- ✓ *Do you have recommendations for overcoming these barriers and/or incentivizing new technology application?*
- ✓ *Are you aware of any promising new remediation technologies on the horizon?*

4) Initiatives and Coordination:

- ✓ *Are there any strategic remediation initiatives/programs underway in your agency for advancing site cleanups?*
- ✓ *Are you aware of resources, opportunities, or other groups that would enhance FRTR's coordination efforts?*

5) Vision for Future of FRTR:

- ✓ *What do you see as the key value of the FRTR for your agency, and what would you hope to see FRTR accomplish in the next 5 – 10 years?*