Technology Demonstrations & Transfer

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Brainstorming Session

Presentation:

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Objective: How can we systematically conduct Technology Demonstrations and other Technology Transfer activities necessary to benchmark and implement our road mapping efforts into the field?

Gaps & Challenges

- Intellectual Property

- Getting Operator to try the technology

- Right commercial team

- Clear statement of difference between the SOA and the goal of the project (innovation)

- State to state differences

Approaches to Address

- Co-funded demonstration

- User's Pool

- Keep an active list of failed projects

Barriers

- Regulations that do not reflect current technologies

- Standards not uniform between states

- Distribution are state regulated

Approaches to Remove

- Demonstration Protocol

- Bring Regulators on board

- Lessons learned from other Federal Agencies (NSF, DOE, DOC)

- User's Pool

- Education of industry leaders

- Organization like PRCI act as a broker

Technology Demonstrations & Transfer Notes

- Technology Transfer is in direct relation with the level of innovation
- Innovation has to be define in terms of (numerical) metrics
- High level of innovation usually implies a **disruptive** technology
    - → New Product Line usually implies long term
- Medium-Low level of innovation usually implies that the product line can be adapted.
- Intellectual property → company owns the property; agreement defines the ownership
- Transfer → defined through commercialization (companies are here to make money)
- IP → defined very carefully (who owns them?)…DOT point of view
    - → to be agreed before the project starts
- Register with OPS recommended for NDE and internal inspection devices
- Risks and innovation must be quantified and documented
- In any R&D plan, high risks must be addressed first so that the project can be stopped early if the jurdle cannoy be overcome.
- Safety benefits quantified using statistics and how they are reduced…also expenditures on health and prevention costs

• NDE handoff and rollout …analyze if fundable or not; rollouts are not effective…what to do? How do we successfully operationalize the rollout of the NDE?

• What manages the project? Once project is awarded, kickoff meeting is initiated plus annual visit to the company, then closeout session with company.

• Technical risk can't go down, if so, then the project is stopped. Risk needs to go up.

• We transfer technology from the technical group to the market

• Time it takes for the regulation to change, new products get introduced…several years can take place

• DOT needs to be more involved in accepting and educating industry that the technology is a viable one.

• IP costs can be a burden