

CW “Gang” Criteria For Evaluating R&D Proposals

1. SUPPORTS CW NEEDS

a. Supports CW Strategic Program Goals

- Provide sustainable water resources development & management
- Restore past environmental degradation
- Provide justified levels of project services of high quality
- Reduce annual social, economic and environmental losses resulting from natural and manmade hazards in the U.S. and, as authorized, abroad
- Be a world class technical leader
- Produce a long term benefit by addressing a strategic field or an identified system need in framework or integrated approach, analysis method, system management or monitoring improvement, evaluation method or tool, feedback, operating guidance, decision support tool or modification to improve system productivity

b. Supports Short Term (1-3 year) Field Needs

- Improves efficiencies in planning, design, construction, operations or maintenance of Corps projects and systems
- Improves functional performance and effectiveness
- Rehabilitates and enhances the service life of a project or system
- Preserves and enhances environmental quality and sustainability of Corps projects and programs
- Develops, improves or expedites project level decision making, project management techniques and technical analysis tools
- Ensures the availability of critical technology
- Increases public safety and reduces risks
- Reduces life cycle costs

c. Supports Listening Session Needs

- Improves data sharing/exchange with the public in these areas:
 - Provides one stop shop for maps & data for basin wide planning
 - Provides data to make informed decisions
 - Provides a system for basin wide planning
 - Provides information about what is happening at Corps facilities (up to date web sites)
- Tech Transfer plan to include educating the public
- Coordinate research, models and analysis with regulatory agencies to insure results will be accepted
- Develop R&D products:
 - For watershed management plans, not just at the project level
 - To include aesthetics as components of all projects
- Create better models for ground & surface water

2. NOT BEING DONE BY INDUSTRY

- Not Available Commercially or From Other Public Agencies
- Is a product, tool, technique, process or design standard for which no private industry model, prototype, function or example exists or is planned in the near term
- Leads to a product, process or design standard that is less costly than a similar commercial example or opportunity

3. PRODUCES IDENTIFIABLE BENEFITS

a. Provides a Potential Return on Investment (ROI)

- R&D is focused on solving a clear, concise problem statement
- Provides a quantifiable return on investment -- a NED benefit, cost savings or reduction, cost avoidance or time saved

b. Provides indirect benefits -- sustainability, operational readiness, customer satisfaction, innovation, or contributes to the technical knowledge base or other measurable economic, social, environmental, technological or political gain

- Provides fundamental knowledge, guidance and engineering technologies for planning, designing, constructing, operating or maintaining corps projects
- Increases system productivity
- Increases the quality of processes, operations or materials
- Enhances capabilities
- Attains the greatest risk reduction to the public within available resources
- Improves the tools and technology available for data collection and data analysis

4. TECHNOLOGY TRANSFER TO PRACTICE

- Seeks and achieves a means to use or apply the technology or product in the field or outside the Corps
- Publishes a written or electronic report summarizing the purpose, uses and benefits of the R&D product
- Produces software describing or explaining the R&D product
- Provides training in how to use the R&D product
- Conducts a hands-on demonstration of the R&D product for field personnel
- Translates the R&D product into draft policy guidance
- Introduces the R&D product to other public agencies and potential users
- Receives positive feedback validating the usefulness of the R&D product