

Best Practices for Increasing the Impact of Research Investments

**Research to Applications
Task Force**

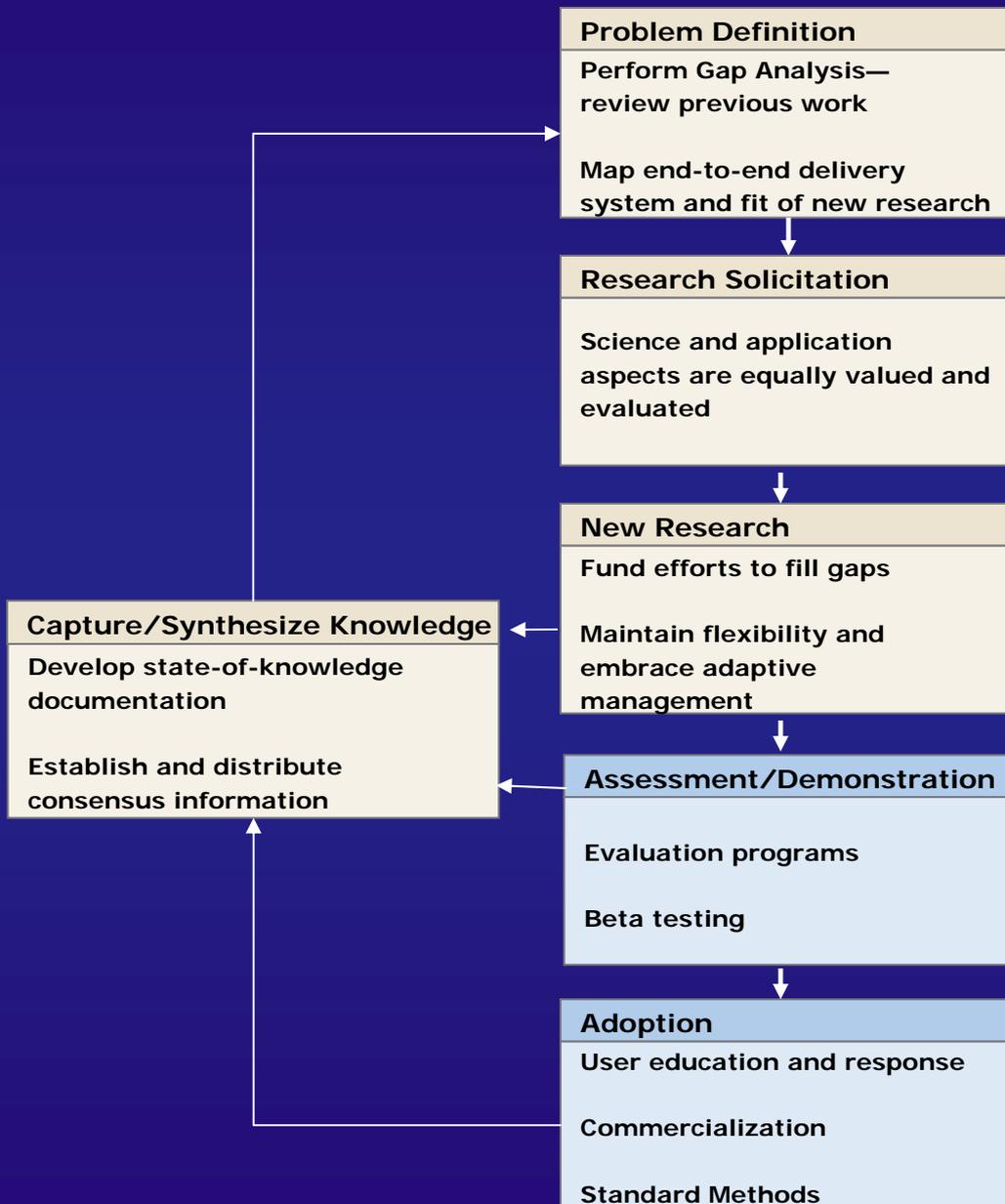
an ORRAP Subcommittee

RESEARCH TO APPLICATIONS TASK FORCE MEMBERS

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- **Dr. Jeffrey M. Reutter**
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 - Academia
- **Dr. Jerry R. Schubel**
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RATF APPROACH

- **Case studies of research to application success**
- **Identified common themes of success**
- **Six core best-practices**
 - They were unanimous in their conclusions
 - They were optimistic about the number of success stories that can be expanded upon to increase the value of research
- **Not all research should be directed toward applications**
 - Curiosity-driven research is an important part of the research portfolio
 - RATF observations are focused on application-driven research



Required Foundational Elements

- Community involvement
build collaboration
- Boundary organization involvement
extend and expand capabilities
- Cross-agency coordination
leverage resources for greater impact
- Motivated researchers
create opportunities and rewards
- Accountability
evaluate process and progress metrics
- Continuity of funding
Recognize extended time to application

Figure 1. Recommended Process to Facilitate Research to Applications Transition

6 EFFECTIVE PRACTICES

1. Involve users early and continuously in the research process.
2. Engage and empower entities responsible for connecting users with research applications.
3. Conduct synthesizing cross-agency state-of-the-science assessments.

3 (more) Effective Practices

4. Create incentives and accountability that stimulate program managers to integrate application into their research programs.
5. Develop opportunities and incentives that motivate researchers to work with users.
6. Allocate the time, personnel, and funding necessary to support research and development through application.