Buja breakouts: Collaborative Framework between research & mgt

1. Designing mechanisms for collaboration
   Recognize that RISA's not universally viewed as a good model.. Trust-
   Broad engagement needed in CS formation – even sophisticated climate info users unaware/not-included
       in the process
   Recognizing changing role of science: was informing decision makers in general ways, now Working much
       closer with decision makers on specific issues.
   Regional approach is important in addition to Nat'l coord.
   Become the biggest elephant in the room: Communities have much more leverage than individuals

2. Gaps in coordination, QC, communication
   Regular meetings/updates, keeps things on track, smaller is better
   Increasing role of "people" in decision making – looking for expert advices & path fwd
   Science agencies (NOAA/NSF/DOE/USGS) need to coordinate/communicate more with operating agencies
       (USACE/Reclam/NWS)

3. What constitutes authoritative (credible, legitimate) information, processes and information sources?
   (who, what, where, when, how)
   Certification/std procedures/peer-review support use/interpretation of best available science
       Private consulting sphere is exploding: No way for consumers to judge value of products.
       Bigger picture: Applies to states & regulatory authorities (EPA) as well
       Doable in a short period of time without too much efforts
   Used to operating under a common scientific ethics umbrella NA "On being a scientist"
   Identification of "Honest Brokers" important (PCMDI)

4. What should be routine products? Vs ongoing research on changing conditions?
   Need info to communicate with our boards – but broad synthesis of synthesis can be too general to be
       effective
   Sector specific syntheses are needed

5. How could coordination be improved and impediments to the flow of information addressed?
   Need CS people who clearly understand the different missions
       building trust, respect for different missions, ivory tower approach inhibits communication
   Umbrella agencies (WWA) are a nice bridge
   Walking the razor's edge: Providing the right info/assessments/assistance (even systems) w/o assessing
       their operations, mgt approaches or telling groups what to do (ref: Bad SIG experience)
   Feedback mechanisms to improve process

6. How best to construct such mechanisms for interaction, innovation, knowledge, diffusion?
   Recognize flexible new approaches being deployed: moving from firm yield to ?
   Take advantage of increased awareness during extreme events crises to rethink ops/interactions (don't
       reinvent, this literature already exists). Can CS show us the process & business practices to respond

7. What resources might be available?
   Leverage existing projects: Design a few distinct, parallel, pilot projects that address water user needs:
       NARRCAP water pilot project to test interface between science capabilities and user requirements.
       DOE downscaling (Ruby).   Participating agencies can add to pot of $$$.