

NP212 ARS Scientist Research Planning Workshop

Forming A New National Program

Building Blocks

Identity

Strategy

National Program 212
Global Change, Air Quality, Soils
Scientist Research Planning Workshop



*Ellen P. Buckley
Michele Simmons
Colette Wood
John Schmidt
Jeff Steiner
Mark Walbridge*

NP212 (Soil & Air Resource Mgmt.)

=

NP202 (Soils)

+

NP203 (Air Quality)

+

NP204 (Global Change)



“Boundary Layers Program”

Proposed NP212 Action Plan Structure

Component 1: Reducing Agricultural
Emissions to the Atmosphere

Component 2: Adapting Agriculture to Global
Changes

Component 3. Enhancing the Productivity and
Functionality of Soils

Vision

- **Integration, Collaboration, Communication**
- **5-Year Process of Program Building**
 - “Remove program boxes” – *integrate!*
 - Foster new terminology & language
 - Build on strengths
 - Build professional reputations
 - Visibility
 - Relevance
 - Space & time



Space and time.....

Developing a National Program Identity

“Soil & Air Resources Management” is a
Placeholder program name.....

Developing a National Program Identity

- **A Consistent Message: common slide set**
 - **Describes National Program goals, problems, structure, etc.**
 - **Illustrations of problems, solutions, research in progress, participants, etc.**
 - **Suitable for technical & non-technical audiences**
 - **Sharepoint**
 - **1-page and 2-slide description of projects**

Strategy

- *Graphical* representations of contributions of SYs/labs addressing research needs
 - SY/lab identifications
 - SY/lab contributions
 - Flow of information and products

Strategy

- **Explore options for a mid-course “Check-up” of progress towards Program Goals**
 - SY meeting within 2 years of OSQR certification of all projects
 - Easily accessible and “cheap” venue
 - Informal atmosphere to foster exchange of ideas, brainstorming
 - 1-page description of project with 2-slides of illustrations

NP 202 Soils Projects...their fate

- Existing CRIS projects continue until end of current NP202 five year timetable
- *UNLESS*....
 - Redirected or
 - RL, SYs see an opportunity to change or *modify*..... Current NP202 Action Plan integration into NP212 Project Plan

Soils Component for NP212 Action Plan

- Task: Integrate old Action Plan into NP 212 Action Plan
- Opportunity for input by all
- SYs will know where CRIS project fits into new Action Plan
- Draft underway: John Schmidt & Doug Karlen

Action Plan Development

- Goal
- Relationship to ARS Strategic Plan
- Research Components (1,2,...)

Problem statements (a,b,...)

Research needs

Anticipated products

Potential benefits

Listing of component resources*

- ***Make collaborations meaningful**
- **Only list what you will work on**

Organizing Ourselves: Collaborations

- Successful models
 - GRACEnet
 - REAP
 - CEAP
- New
 - Models?
 - C & N?
 - Air quality field campaigns

What can we do to foster collaborations?

Air Quality Field Campaigns

- Pick a system (crop, commodity, species, etc.)
- Describe states and processes in space and time
- Develop comprehensive measurement, modeling experiment plan
- Invite collaborators.....

Organizing Ourselves: Integrative Science Teams

- Old Model:
 - Leaders “stuck” with action plan writing...
 - Then “see you in 5 years.....”
- What Works Well:
 - Subcomponent leaders are *active*
 - *Synthesis and Integration* of NP204

Integrative Science Teams

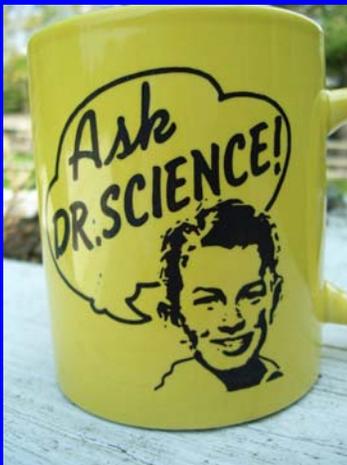
- Maintains an inventories of data needs, model needs, control needs
- Can provide a *synthesis* of where the state of the science is
- Can provide a periodic snapshot of *progress* towards the Problem level goal
- Provides leadership on cross-location projects and collaborations
- Fosters data base building
- Can conduct short-term studies of high impact
- Can serve as a POC for specific problem(s)

Terminology

- Understand

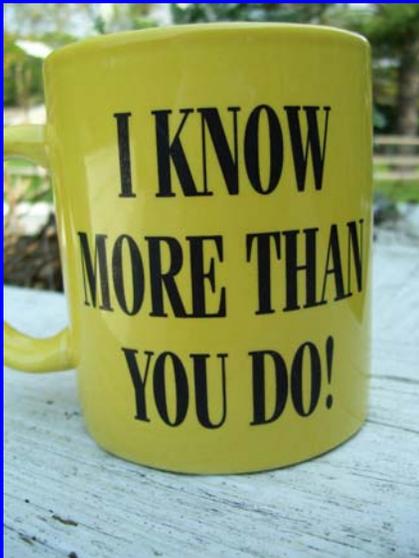
- Predict

- Control



“Quantify”

is a good summary term



Breakout Sessions

- What priority *problems* did we hear?
- What problems can we address and what are we going to address?
- What are the *research needs* of the problems?
- What solutions/products/deliverables are we going to produce?
- What metrics can we use to gauge progress and success?

What works well in ARS?

What can we learn from others?

What is it about ARS that makes us successful?