Agency Implementation and Needs

Science and Technology Needs/Challenges

Pat Shaver – USDA-NRCS
Jeff Rose – USDI-BLM
Ranch/Allotment Management

Needs

Information for making management decisions

Strategic – What is Potential

Operational – What is Practical

Tactical – What is Possible
Ranch/Allotment Management

Needs

Information to assess progress toward goals and objectives

Strategic – What ecological process(es) need to be fixed?

Operational – What direction are we going?

Tactical – Where are we today?
Ranch/Allotment Management Needs

Information to assess risk

Likelihood of success or failure

Cost of doing nothing
Ranch/Allotment Management Challenges

• Incorporate Local Knowledge and Expertise

• Incorporate GIS/Soil/ESD into effective mapping tools
  – Minor components and inclusions in soil map units

• Access relevant information in ESD quickly in useful format
  – Custom reports for selected sections of site descriptions
State/Regional Level Needs

• Information for Strategic planning
  – Relationship to other classification systems
  – Fuel model relationships
  – Vegetation structure
State/Regional Level Challenges

• Incorporate GIS/Soil ESD into effective mapping tool
• Access relevant information in ESD quickly in useful format
• Analysis of NRI data in ecological site context
• Incorporate into landscape functional units
  – Watershed interpretations
  – Carbon interpretations
  – Climate change mitigation
  – Climate change adaptation
National Scale Needs

• Development of data structure that ensures flexibility to incorporate new knowledge and ecological concepts
• Ability to assess reliability of data in ESD by sections
• Development of consistent data collection methodologies and protocols
• Consistent training materials and opportunities
• Relationship with other classification systems
National Scale Challenges

- Develop Flexible Formats & Data Elements that Facilitate Revision and Incorporation of New Science
- Incorporate GIS/Soil ESD into effective mapping tool
- Access relevant information in ESD quickly in useful format
- Analysis of NRI data in ecological site context
- Incorporate into landscape functional units
  - Watershed interpretations
  - Carbon interpretations
  - Climate change mitigation
  - Climate change adaptation
Needs & Challenges

USES
Decision Making
Measure Progress Toward Goals
Risk Assessment

SCALE
• Operational
• Tactical
• Strategic
• Ranch/Allotment
• State/Regional
• National
THANK YOU