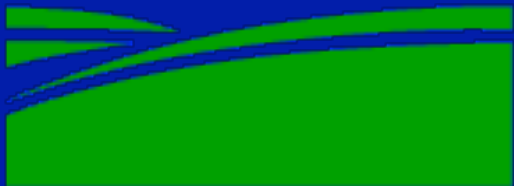


USDA

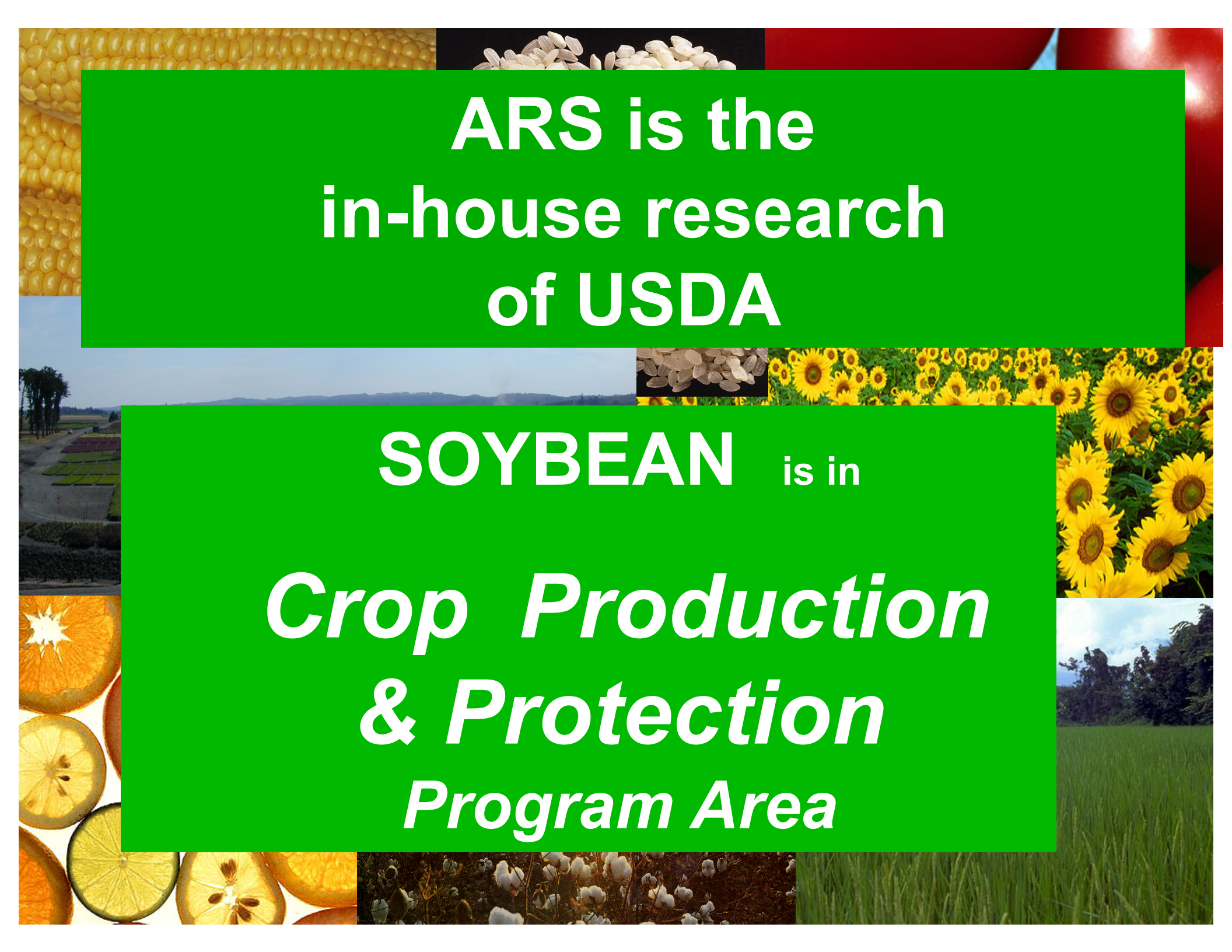


ARS OFFICE  
OF  
NATIONAL PROGRAMS

UPDATE

Roy Scott

Beltsville, MD



**ARS is the  
in-house research  
of USDA**

**SOYBEAN** is in  
*Crop Production  
& Protection  
Program Area*

# ARS Research Budget by Year

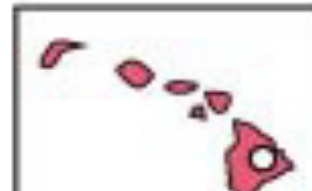
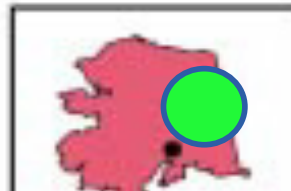
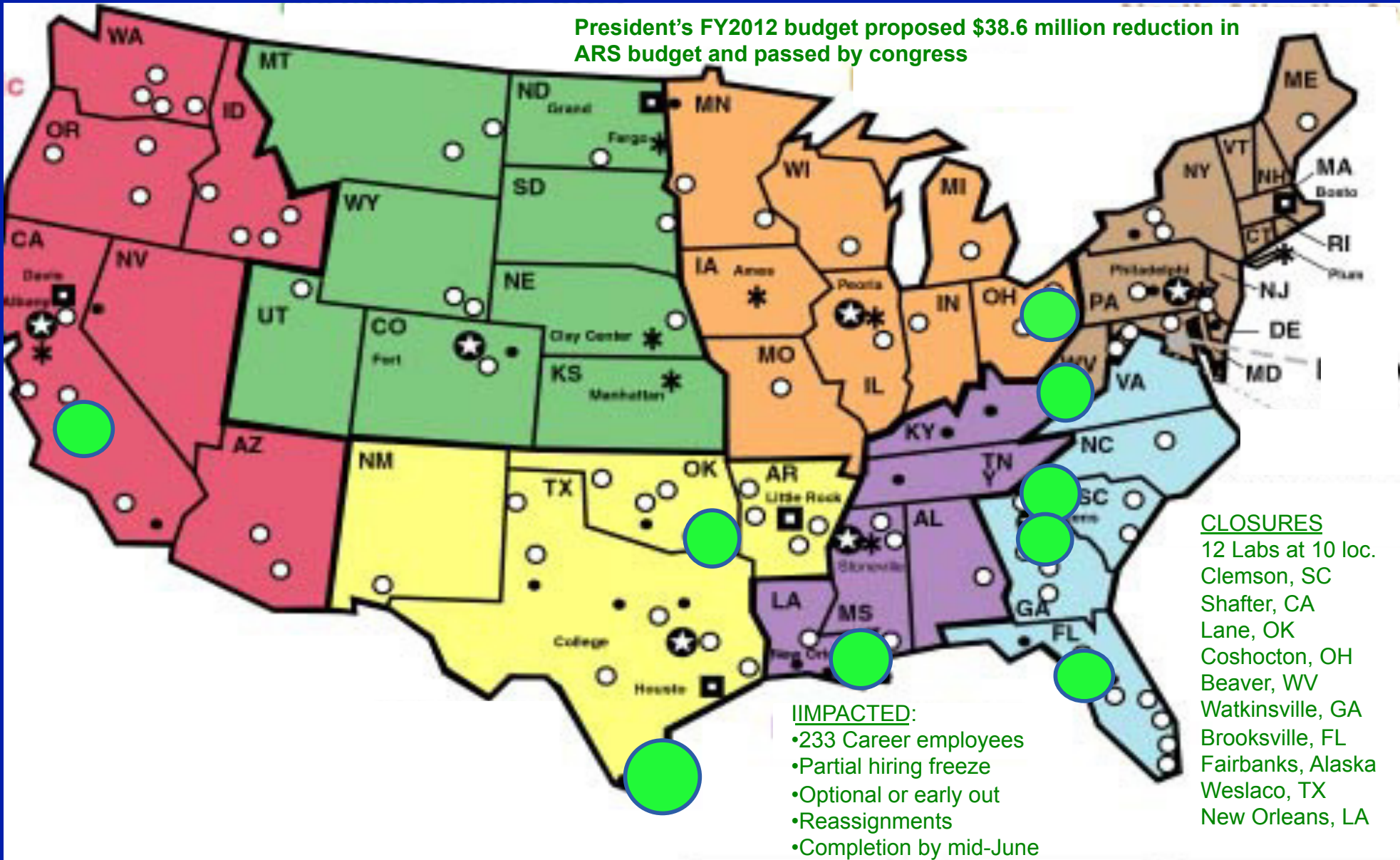


(Dollars in Millions)

	2010	2011	2012	2013 Proposed
Budgeted Projects	1098	1094	1056	1061
Earmarks	42	42	0	0
<b>Total</b>	<b>1140</b>	<b>1136</b>	<b>1056</b>	<b>1061</b>

# ARS Locations

President's FY2012 budget proposed \$38.6 million reduction in ARS budget and passed by congress





# Current ARS Profile

- 2,500?? scientists and post docs
- 6,500?? other employees
- 100?? laboratories
- \$1.1?? billion annual budget
- 1,200?? projects

# ARS Soybean Analytics at PEORIA

- **PEORIA: Nutrition, Food Safety & Quality Area Program**
- **Soybean analytics must be a part of an appropriated project & linked with science**
- **Service-type projects usually “Earmarks”**
- **Earmarks terminated by congress in 2011, leaving limited funds for this analytical support**
- **In 2012, Roy worked to transfer this effort back to Terry Isbell’s lab.**
- **Transfer now complete. Soybean analytics is expected to function on a reduced basis according to reduced budget.**



# ***Newly Merged NP 301 and 302 Action Plan***

*301 - Genetic resources, Genomics, and genetic improvement (140 projects)*

*302 - Plant Biological and Molecular Processes (45 projects)*

## Components of New NP301:

- 1. Crop Genetic Improvement**
- 2. Crop Genetic and Genomic Resources and Information Management**
- 3. Crop Biological and Molecular Processes**

## Process Timeline

- 1. Planning sessions - Mid-Feb to Mid-March**
- 2. PDRAM – Mid-March to Early May**
- 3. Project writing - Summer**





*Questions?*



# Functions at ARS Headquarters- not just scientists

Natural Resources & Sustainable Agricultural Systems  
(~20%)

Crop Production & Protection  
(~35%)

Animal Production & Protection  
(~15%)

Nutrition, Food Safety & Quality  
(~30%)

- **Water Quality & Management** Shannon
- Soil Resource Management
- Air Quality
- Global Change
- **Rangeland, Pasture & Forages** Byington
- Manure & Byproduct Utilization
- Integrated Agricultural Systems
- Bioenergy and Energy Alternatives

- **Plant Genetic Resources, Genomics, and Genetic Improvement**
- **Plant Biological & Molecular Processes (NP301)** Simmons
- Plant Diseases
- **Crop Protection & Quarantine (NP304)** Vick
- **Crop Production**
- Methyl Bromide Alternatives

- Food Animal Production
- Animal Health
- Arthropod Pests of Animals and Humans
- Aquaculture

- Human Nutrition
- Food Safety
- **New Uses, Quality & Marketability of Plant & Animal Products (NP 306)** Flora

# Previous NP 301 and 302 Action Plan

301 - Genetic resources, Genomics, and genetic improvement (140 projects)

302 - Plant Biological and Molecular Processes (45 projects)

## Components Former NP301:

1. Plant and Microbial Genetic Resource Management
3. Crop Informatics, Genomics, and Genetic Analyses
3. Genetic Improvement of Crops



## Components Former NP 302:

1. Functional utilization of the genome
3. Biological processes that improve crop productivity and quality
3. Plant biotechnology risk assessment



# National Program 301 Retrospective Review

## Panel Report and Ratings

- ✓ Component 1. Problem area 1A Genetic Resource Management. -- High impact
- ✓ Problem area 1B Diversity and relationships of Genetic Resources. – Medium-high impact.
- ✓ Component 2. Problem area 2A Database stewardship. -- High impact
- ✓ Problem area 2B Genome analysis. -- Very High impact
- ✓ Problem area 2C Trait analysis and mapping. -- High impact
- ✓ Component 3. Problem area 3A Genetic theory and breeding methods. -- Medium-high impact
- ✓ Problem area 3B Genetic resource utilization. -- High impact
- ✓ Problem area 3C Improved genetic resources and varieties. -- High impact



# NP303, 304, 305, 308

## NP303: Plant Health

- Currently going through OSQR
- Retrospective review in progress

## NP304 : Insects and Weeds

- 2 years in cycle

## NP305 : Crop Production

- Retrospective Review

## NP308 : Methyl Bromide Alternatives

- Retrospective review??





ARS is the  
in-house science  
research arm  
of USDA





# ARS MISSION

Conduct research to:

- Ensure high quality, safe food and other products;
- Assess the nutritional needs of Americans
- Sustain a competitive agricultural economy
- Enhance the natural resource base and the environment
- Provide economic opportunities to rural citizens and society as a whole.



# ARS Research Priorities

- Emerging Diseases and Invasive Species
- Homeland Security
- Biotechnology & Genomics
- Genetic Resources
- Biobased Products & Bioenergy
- Human Nutrition, Obesity
- Food Safety
- Natural Resources
- Nursery Crops, Floriculture, Aquaculture
- Electronic Information Dissemination
- Systems Integration



# How Do We Meet Our Mission?

## Through National Programs

- A National Program is a set of research projects directed toward **common goals** to solve agricultural problems of high **National priority**.
- National programs have 110-130 projects
- About 20 different national programs
- National Programs are outcome driven, e.g., “A safer food supply”



# *National Program Input and Planning*

## **Development of the Action Plan** **A five-year cycle**

- ✓ **Stakeholder/Customer Workshop**
- ✓ **Develop New Action Plan**
- ✓ **Research Planning & Coordination Workshop**  
**coordinate commodities and problem areas**
- ✓ **Meetings with commodity groups, germplasm committees, interagency meetings**
- ✓ **PDRAM and Project Plan development**
- ✓ **OSQR project reviews**

