



National Institutes of Health  
*Office of Extramural Research*



# STAR METRICS

Jan 28, 2013

George Chacko

National Institutes of Health



## Science and Technology for America's Reinvestment:



Measuring the Effects of Research on  
Innovation, Competitiveness and Science

- NIH
- NSF
- OSTP
- USDA
- EPA
- DOE

- Presidential Memorandum on Transparency and Open Government (Jan 21, 2009)
- Office of Management and Budget Memorandum Open Government Directive (Dec 8, 2009)
- “...agencies should publish information online in an open format that can be retrieved, downloaded, and searched.”
- “...agencies should proactively use modern technology to disseminate useful information.”

## FDP

- Jan 2010
- Jul 2010
- Oct 2010
- Jul 2011
- Oct 2011
- Jan 2012
- Apr 2012

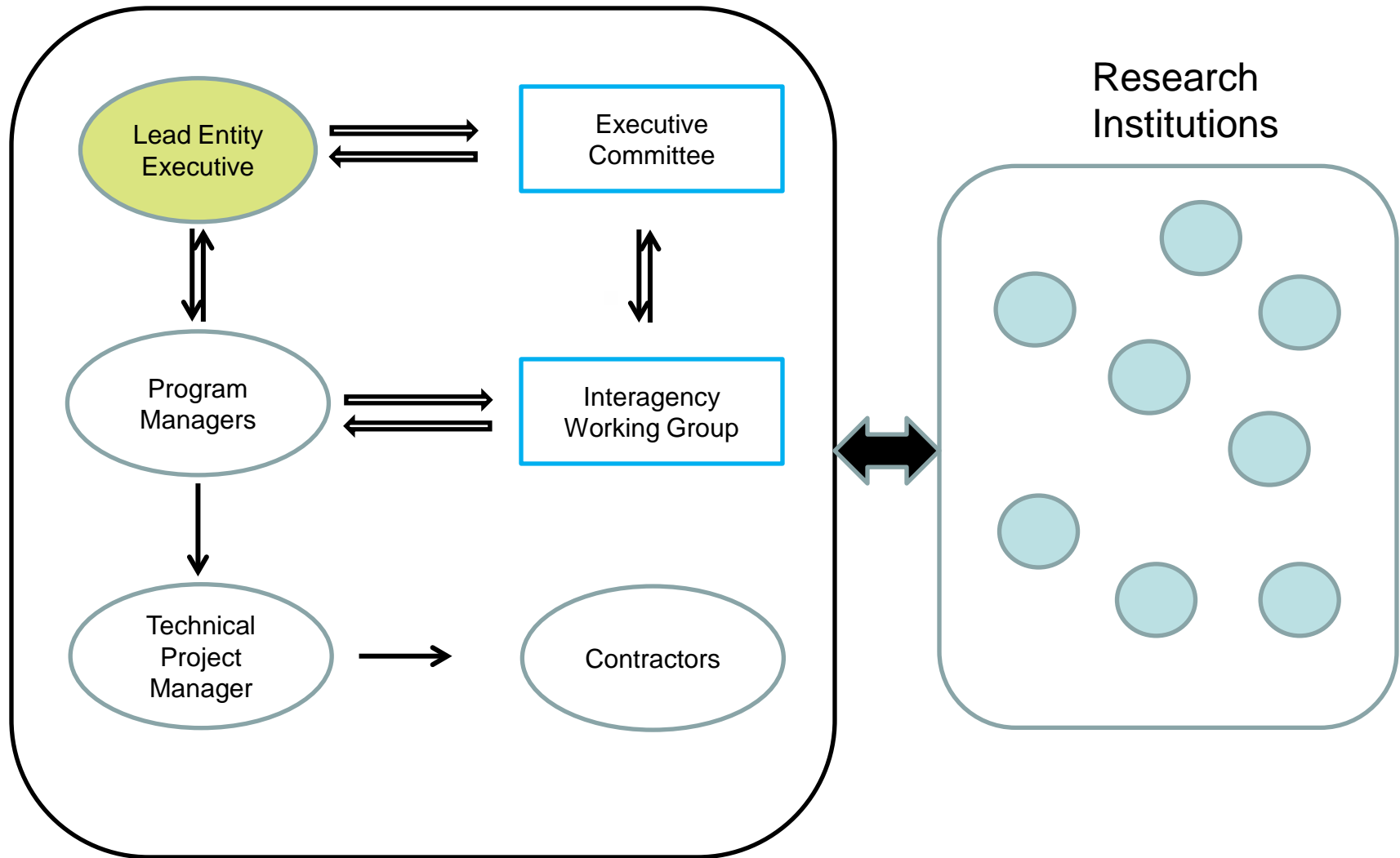


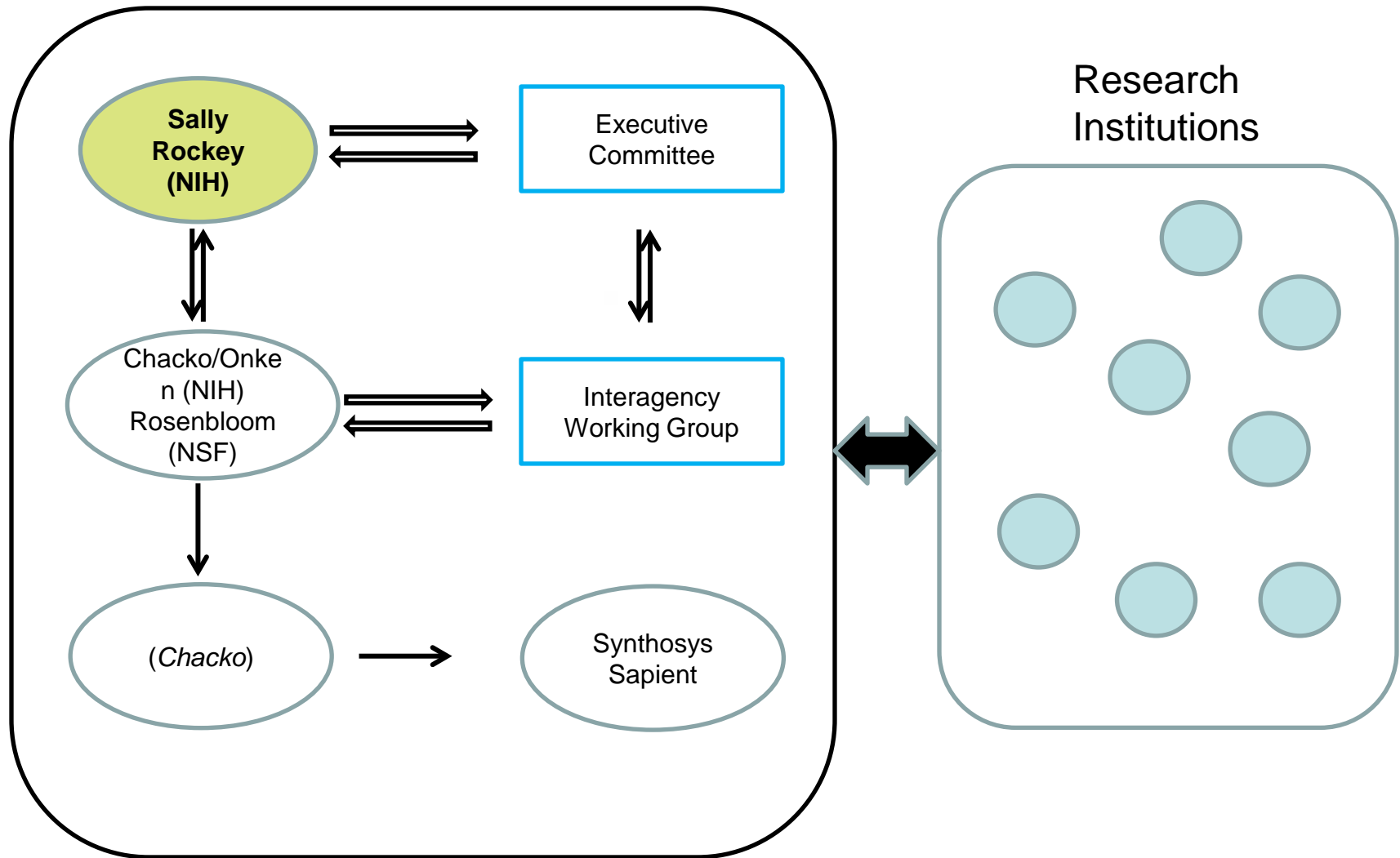
1. Facilitated the engagement of FDP and other institutions of higher education
2. Test bed to demonstrate methodology
3. Active in outreach
4. Sustained commitment to refining and developing

NIH becomes host institution

New Governance

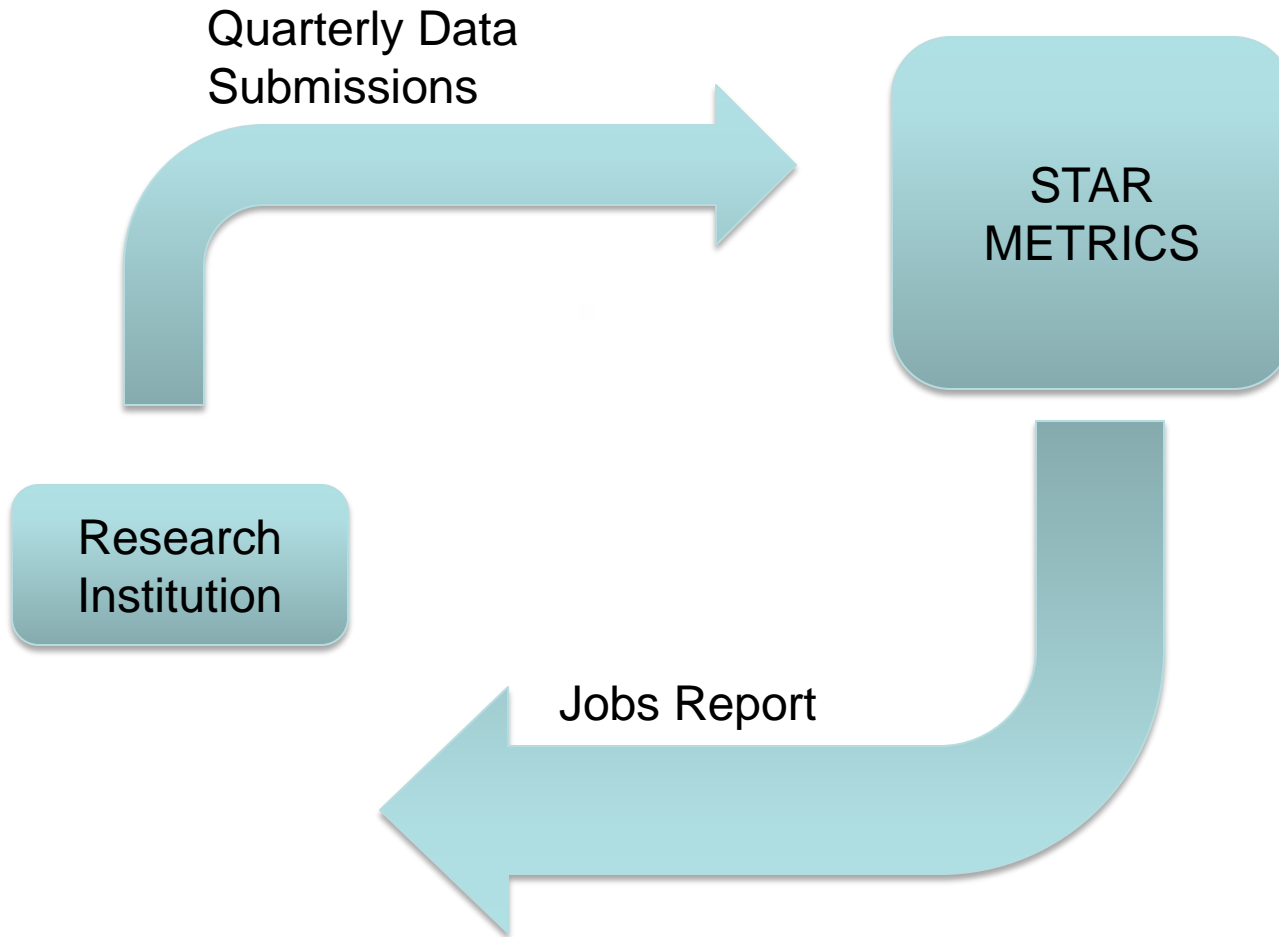
Goals refined



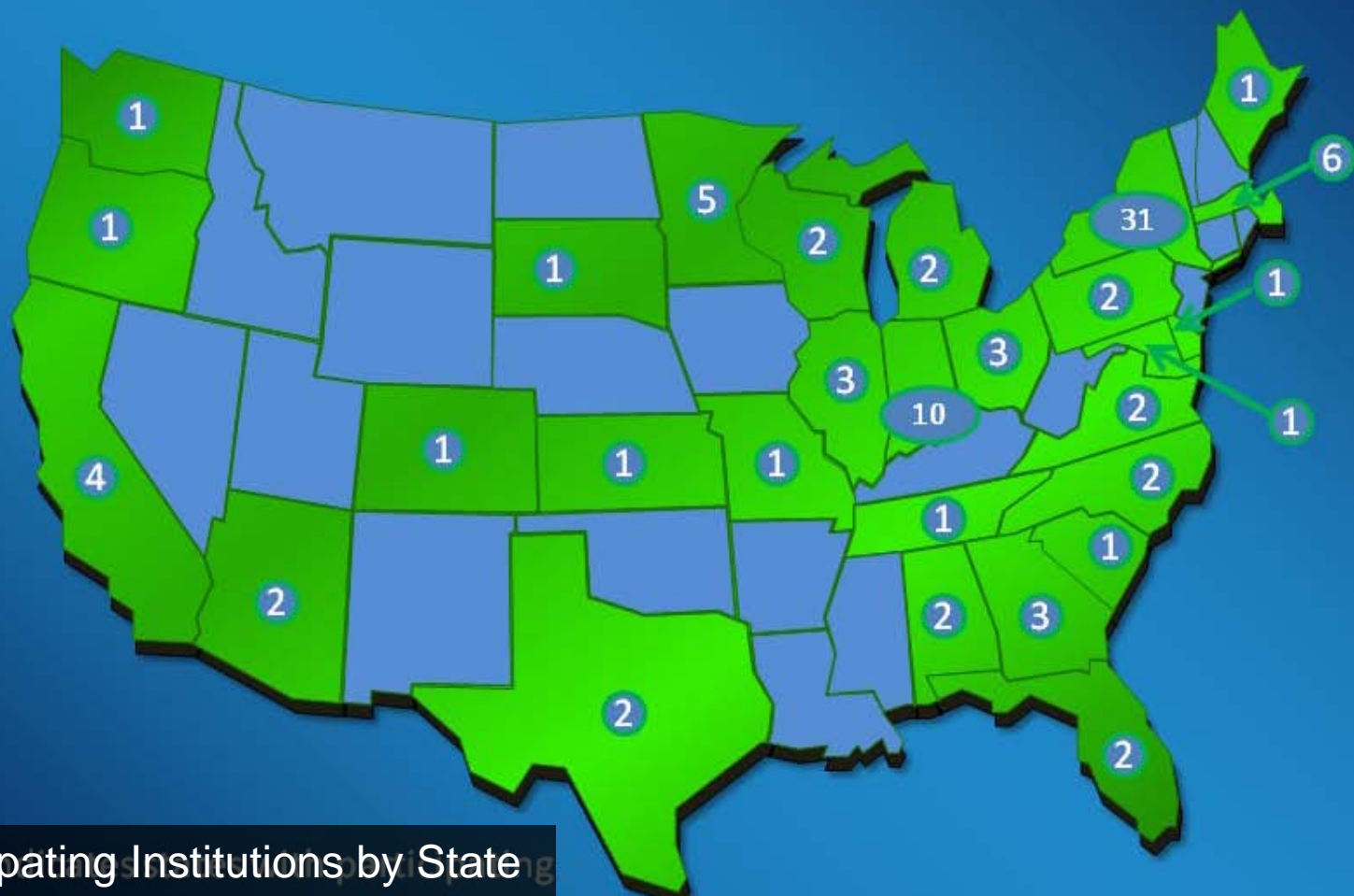


- Level 1: Document the levels and trends in the scientific workforce supported by federal funding.
- Level 2: Develop an open automated data infrastructure and tools that will enable the documentation and analysis of a subset of the inputs, outputs, and outcomes resulting from federal investments in science.





# LEVEL I ENROLLMENT



Participating Institutions by State

- Statistical study to guide enrollment
- Evaluating data quality ★
- Evaluating job estimate calculations ★
- Developing a data policy ★
- Solicit participation of minority serving institutions ★

# Trans-agency Database of Research Projects



- Policy level agreement on projects database
- Technical implementation plan
- Proof of concept pilot
- Testing and refinement
- More testing and refinement ★
- Production

- A database of federally funded research
- Make data available to federal agencies and other interested groups
- EPA, NIH, NSF, and USDA will contribute information to a proof-of-concept database.
- NIH will collect data from the four agencies and create and manage the database

- Collected data from NIH, NSF, USDA
- Integrate and standardize
- Load into NIH RePORTER
- Evaluate internally
- Make available to a wider group(s) ★
- Approval from governance to develop a production tool

# Research Portfolio Online Reporting Tools

U.S. Department of Health & Human Services

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Research Portfolio Online Reporting Tools (RePORT)  
REPORTS, DATA AND ANALYSES OF NIH RESEARCH ACTIVITIES

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NIH RePORTER  
Version: 9.2.0

QUERY

NIH (non) ARRA Selection:  **SELECT**

Text Search (Logic):  **SEARCH**

Search in: ☒ Projects ☐ Publications ☐ Project Abstracts

Limit Publication search to:

Project Number:  **SELECT**

Principal Investigator (PI):  **LOOKUP**

Organization:  **SELECT**

DUNS Number:  **SELECT**

Department:  **SELECT**

Educational Institution Type:  **SELECT**

City:  **SELECT**

State:  **SELECT**

Fiscal Year (FY):  **SELECT**

NIH Spending Category:  **SELECT**

Agency/Institute/Center:  **SELECT**

Funding Mechanism:  **SELECT**

Award Type:  **SELECT**

Activity Code:  **SELECT**

Exclude Subprojects: ☐ **SELECT**

Multi-PI Only: ☐ **SELECT**

Study Section:  **SELECT**

Public Health Relevance:  **SELECT**

Project Start Date:  **SELECT**

Project End Date:  **SELECT**

Award Notice Date:  **SELECT**

☐ Check/Uncheck All

- ☐ Agricultural Research Service
- ☐ Forest Service
- ☐ National Aeronautics and Space Administration
- ☐ National Institute of Food and Agriculture
- ☐ National Institutes of Health
- ☐ National Science Foundation

STARMETRICS DATA  
JANUARY 2013



## STARMETRICS PILOT STATUS AND NOTES –

1. Data provided for additional six agencies is loaded into the pilot web-based data system
2. About 76000 projects are currently loaded in the database
3. FY 2012 projects mostly
4. Agency/Institute/Center list now includes these six additional STARMETRICS participant agencies for which the data is available
5. Features that are working now
  - a) FY Search
  - b) Agency Institute Search
  - c) Project # search
  - d) State
  - e) Country
  - f) City
  - g) Award Amount
  - h) PI Name Search
  - i) Organization Search
  - j) Export project results
6. Project detail pages show basic information
7. Project description pages include Abstracts and Terms

### NEWLY ADDED AGENCIES:



A screenshot of a web interface showing a list of newly added agencies. At the top, there is a checkbox labeled "Check/Uncheck All". Below it, there is a vertical list of six agencies, each preceded by a checkbox. The agencies are: Agricultural Research Service, Forest Service, National Aeronautics and Space Administration, National Institute of Food and Agriculture, National Institutes of Health, and National Science Foundation. The checkboxes are currently unchecked.

Agency	Check/Uncheck
Agricultural Research Service	<input type="checkbox"/>
Forest Service	<input type="checkbox"/>
National Aeronautics and Space Administration	<input type="checkbox"/>
National Institute of Food and Agriculture	<input type="checkbox"/>
National Institutes of Health	<input type="checkbox"/>
National Science Foundation	<input type="checkbox"/>

## WE ARE WORKING ON THE FOLLOWING FEATURES

1. Text search
2. Congressional district search
3. Getting additional information on the project details pages
  1. Agency information
  2. Address



# Project Search Results

[Back to Query Form](#)
[Save Query](#)
[Share Query](#)

Export All Projects [GO](#)

## PROJECTS

There were **77511** results matching your search criteria.

Records per page 100

Show/Hide Search Criteria

Click on the column header to sort the results

1 2 3 ... 12 13 14 15 16 17 18 ... 774 775 776

First Previous Page 15 of 776 Next Last

T: Application Type; Act: Activity Code; Project: Admin IC, Serial No.; Year: Support Year/Supplement/Amendment

	T	Act	Project	Year	Sub #	Project Title	Contact PI/ Project Leader	Organization	FY	Admin IC	Funding IC	FY Total Cost by IC	Similar Projects
<input type="checkbox"/>			<a href="#">2012-41510-00100</a>			<a href="#">EXPANDED FOOD AND NUTRITION EDUCATION PROGRAM, ALABAMA COOPERATIVE EXTENSION SYSTEM PLAN OF WORK 2012</a>	Gary D. Lemme	AUBURN UNIVERSITY AT AUBURN	2012	NIFA	NIFA	\$1,991,371	
<input type="checkbox"/>			<a href="#">2012-46000-00100</a>			<a href="#">RENEWABLE RESOURCE EXTENSION ACT PROGRAM, ALABAMA COOPERATIVE EXTENSION SYSTEM PLAN OF WORK 2012</a>	Gary D. Lemme	AUBURN UNIVERSITY AT AUBURN	2012	NIFA	NIFA	\$88,069	
<input type="checkbox"/>			<a href="#">1149940</a>			<a href="#">REU SITE: BIOFUELS AND BIOPRODUCTS PRODUCTION FROM LIGNOCELLULOSIC BIOMASS</a>	Sushil Adhikari	AUBURN UNIVERSITY AT AUBURN	2012	NSF	NSF	\$335,748	
<input type="checkbox"/>			<a href="#">2012-70003-20077</a>			<a href="#">TRANSFORMING BIOLOGY-BASED ENGINEERING EDUCATION USING A HYBRID PEDAGOGICAL APPROACH</a>	Puneet Srivastava	AUBURN UNIVERSITY AT AUBURN	2012	NIFA	NIFA	\$142,760	
<input type="checkbox"/>			<a href="#">5R01HL093246-04</a>			<a href="#">SLEEP AND CHILD DEVELOPMENTAL OUTCOMES: PHYSIOLOGICAL AND CONTEXTUAL INFLUENCES</a>	EL-SHEIKH, MONA M	AUBURN UNIVERSITY AT AUBURN	2012	NIH	NIH	\$639,593	
<input type="checkbox"/>			<a href="#">5R01NS033661-12</a>			<a href="#">MECHANISMS OF UBIQUITIN TRAFFICKING IN NEURONS</a>	WOOTEN, MICHAEL C	AUBURN UNIVERSITY AT AUBURN	2012	NIH	NIH	\$312,988	
<input type="checkbox"/>			<a href="#">1150854</a>			<a href="#">CAREER: INJECTABLE BIOMIMETIC SCAFFOLDS TO DIRECT STEM CELL-DERIVED CARDIOMYOCYTE DIFFERENTIATION</a>	Elizabeth Lipke	AUBURN UNIVERSITY AT AUBURN	2012	NSF	NSF	\$400,000	
<input type="checkbox"/>			<a href="#">1158497</a>			<a href="#">TRANSPORT AND DISTRIBUTION OF MITOCHONDRIAL COPPER</a>	Paul A Cobine	AUBURN UNIVERSITY AT AUBURN	2012	NSF	NSF	\$294,044	



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[Home](#) > [RePORTER](#) > Project Information

**MyRePORTER** [Login](#) | [Register](#) System Health: **GREEN**

## Project Information?

PNW-2665-5

[Back to Query Form](#) [Back to Search Results](#) [Print Version](#)

Project 1 of 159 [NEXT](#)

**PI PROFILE LINKS**  
MORE INFO

[DESCRIPTION](#) [DETAILS](#)

<b>Project Number:</b> PNW-2665-5 <b>Title:</b> CONDUCT AND USE INTEGRATED MULTIDISCIPLINARY RESEARCH TO SUPPORT DEVELOPMENT OF MANAGEMENT APPROACHES THAT ACCOUNT FOR INTERACTIONS....		<b>Contact PI / Project Leader:</b> Alig, Ralph <b>Awardee Organization:</b> PACIFIC NORTHWEST RESEARCH STATION - GOODS SERVICES AND VALUES
<b>Contact PI / Project Leader Information:</b>	<b>Program Official Information:</b>	<b>Other PI Information:</b> Profile Exists  No Profile
<b>Name:</b> Alig, Ralph <b>Email:</b> <a href="#">Click to view Contact PI / Project Leader email address</a> <b>Title:</b>	<b>Name:</b> Unavailable	<b>Not Applicable</b>
<b>Organization:</b>	<b>Department/ Educational Institution Type:</b>	<b>Congressional District:</b>
<b>Name:</b> PACIFIC NORTHWEST RESEARCH STATION - GOODS SERVICES AND VALUES <b>City:</b> <b>Country:</b>	Unavailable Unavailable	<b>State Code:</b> OR <b>District:</b> n/a
<b>Other Information:</b>		
<b>FOA:</b> <b>Study Section:</b> <b>Fiscal Year:</b> 2012 <b>Award Notice Date:</b>	<b>DUNS Number:</b> <b>Project Start Date:</b> 24-SEP-2009 <b>Budget Start Date:</b>	<b>CFDA Code:</b> <b>Project End Date:</b> 24-SEP-2019 <b>Budget End Date:</b>
<b>Administering Institutes or Centers:</b>		

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- Transitioning Level II to Production ★
- More research outputs
  - Publications
  - Patents
  - Links to researcher profiles, e.g. SciENCV
- Enabling
  - Metrics development ★
  - Cross Agency Analysis
  - Benchmarking research institutions ★

- Level I
  - Statistical Study
- Level II
  - **Design**
  - Pilot

Data Policy★

- Federal Staff
- Research Administrators
- Research community
- Policy makers
- Interest Groups
- Public

“ The charge to the FDP working group on STAR METRICS is to actively engage in developing and testing new metrics. “



<http://starmetrics.nih.gov>

- Focus on data
  - Expand dataset
  - Project Classification
- Access policy
- Synergies with FDP
  - Marietta Harrison group
  - Jim English group

## NIH Staff

- **Sally Rockey** (OER)
- George Chacko (CSR/OER)
- Jim Onken (OER)
- Jack Vinner (CIT)

## Contractors

- Synthosys
- Sapient
- NETE

- NSF (**Myron Gutmann**, Joshua Rosenbloom, Chris Pece)
- USDA (**Catherine Woteki**, Sharon Drumm, John King)
- EPA (**Lek Kadeli**, Bronda Harrison)
- OSTP (**Philip Rubin**, Kei Koizumi)
- DOE (**Patricia Dehmer**, Julie Carruthers)

- FDP, APLU, AAU, AAMC, UFC
- Micah Altman (MIT)
- Megan Columbus, Pete Morton, Rick Ikeda, (OER)
- Pat Porter, Carol Kosh, Jess McKnight-Cullen (NIH OD)
- Contract Staff- Synthosys, Sapient, NETE
- Former STAR METRICS Managers
  - Susan Winter (Univ of Maryland)
  - Stefano Bertuzzi (ASCB)
  - Julia Lane (AIR)