Original PowerPoint slides available upon request at fdp@nas.edu

Results of the
2012 Faculty Workload Survey (FWS)

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FDP Vice Chair; FWS PI and Task Force Chair

University of South Florida

Presented to the

Federal Demonstration Partnership

January 29, 2013

FWS II Task Force

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- **Laura Lang**, Florida State University
- **Kiri Ness**, St. Jude Research Hospital
- **Sara Rockwell**, Yale University
- **Sandra Schneider** (Chair), University of South Florida
- **Kelly Shaver**, College of Charleston
- **Jennifer Wisdom,** George Washington University

(During 2011/12: Joshua Rosenbloom, University of Kansas [now NSF])

FWS II Research Team

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2012 FWS Purpose / Goal Refresher

- **Purposes:**
  - **Assess**
    - changes in burdens since FWS1 in 2005
    - new burdens (e.g., ARRA)
  - **Obtain more detailed information about specific burdens (e.g., IRB, IACUC)**

- **Goals:**
  - **To increase the likelihood of efficient and effective demonstration projects**
  - **Provide information to FDP and federal agencies to facilitate targeted reduction of administrative burden**

Questionnaire Content Overview

Q1-Q4   **Basic Work Background**

Q5-Q6   **Breakdown of Work Time**

Q7-Q9   **Federally-funded Research Overview**

Q10-13   **Administrative Workload on Federally-funded Projects**

Q14-16   **Demographic Information**

Q17   **Perspectives on Funded Research and Administrative Workload**

2012 Faculty Workload Survey (FWS)

- **Jan 23 - Mar 22, 2012: Survey Open and Close**

- **Participants: PIs on Federal Grants/Contracts during 2010-2011 academic year.**

- **99 of the 119 (83%) FDP non-federal member organizations participated**

- **13453+ respondents (26%)/12816 with complete data**

Question: On average, what percentage of a PI's time working on federally-funded projects is spent on administrative responsibilities rather than active research?

Question: On average, what percentage of a PI's time on federally-funded projects is spent on administrative responsibilities rather than active research?
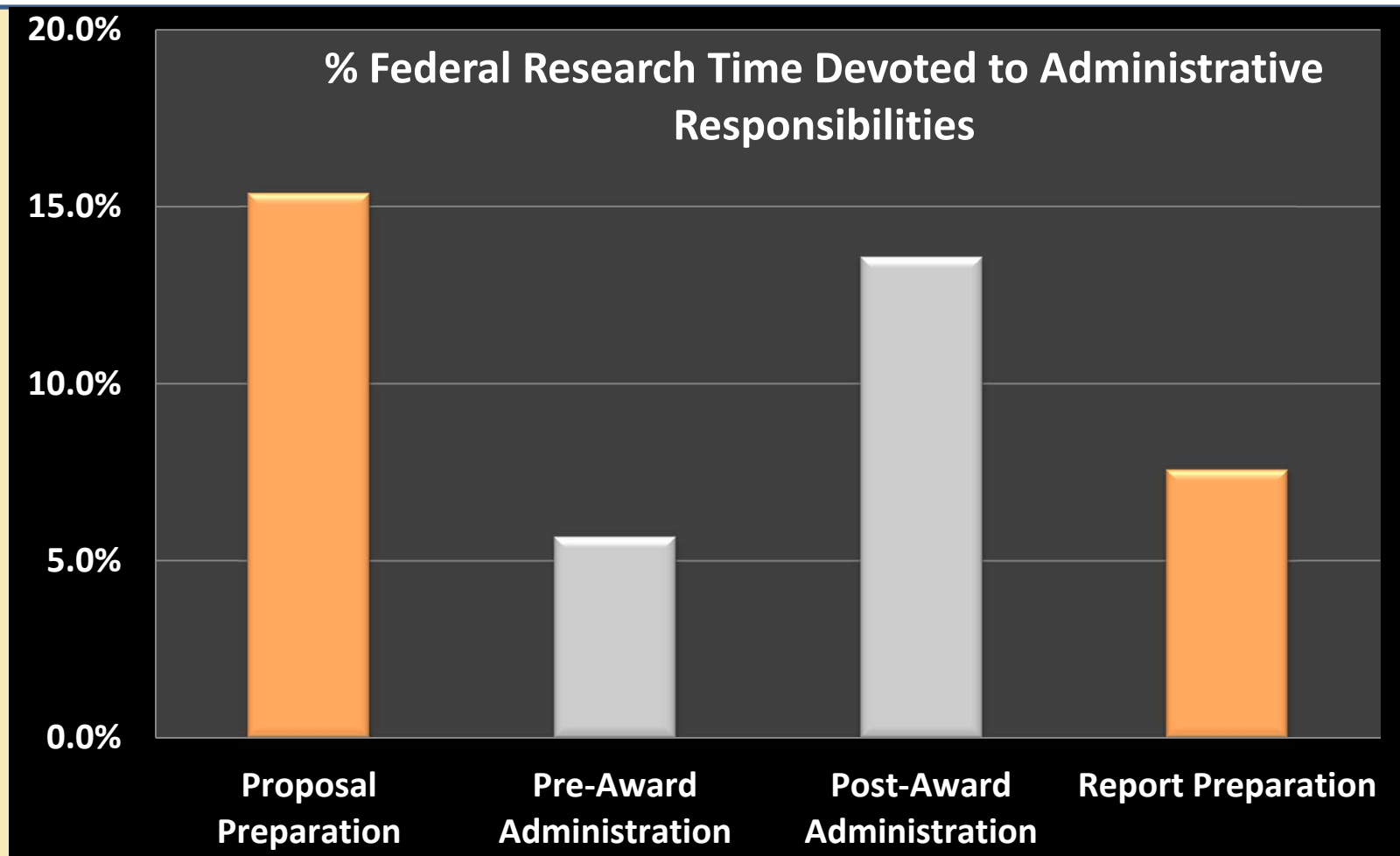
Answer: 42%

2012

Post-Award Activities, 21.2%

Pre-Award Activities, 21.1%

Active Research, 57.7%
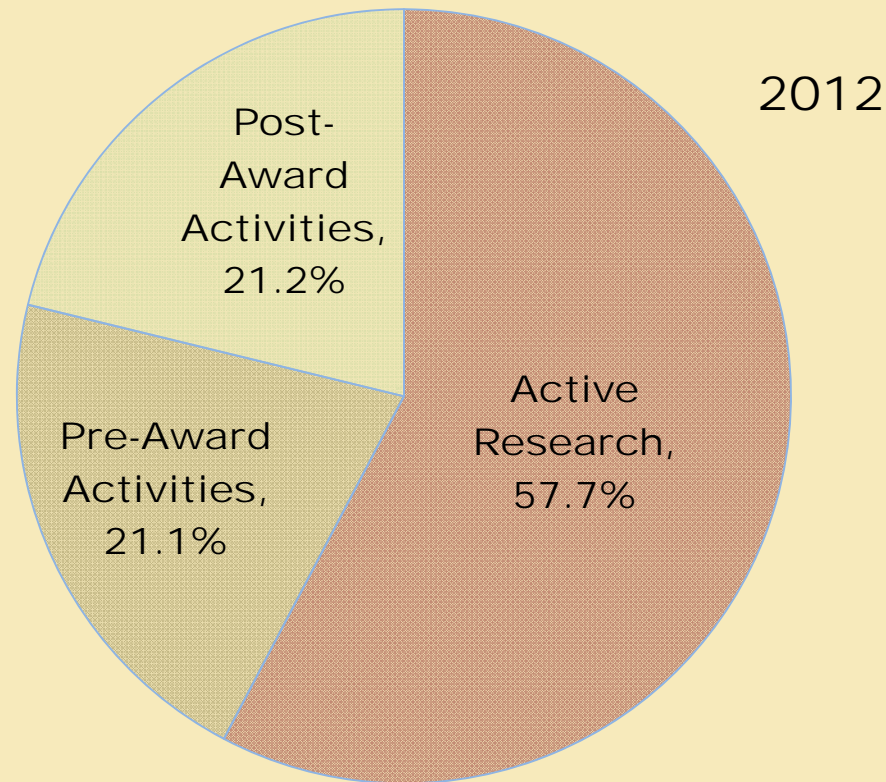
Just as we found in 2005, researchers still spend less than 60% of their research time actually engaged in research.
42% of their federal research time is spent completing administrative requirements.

Question: On average, which types of administrative responsibilities are taking away the most time from active research?

% Federal Research Time Devoted to Administrative Responsibilities

Category	Percentage
Proposal Preparation	~15.3%
Pre-Award Administration	~5.5%
Post-Award Administration	~13.4%
Report Preparation	~7.6%

Proposal and Report Preparation takes up almost one quarter of the average PI's federal research time.

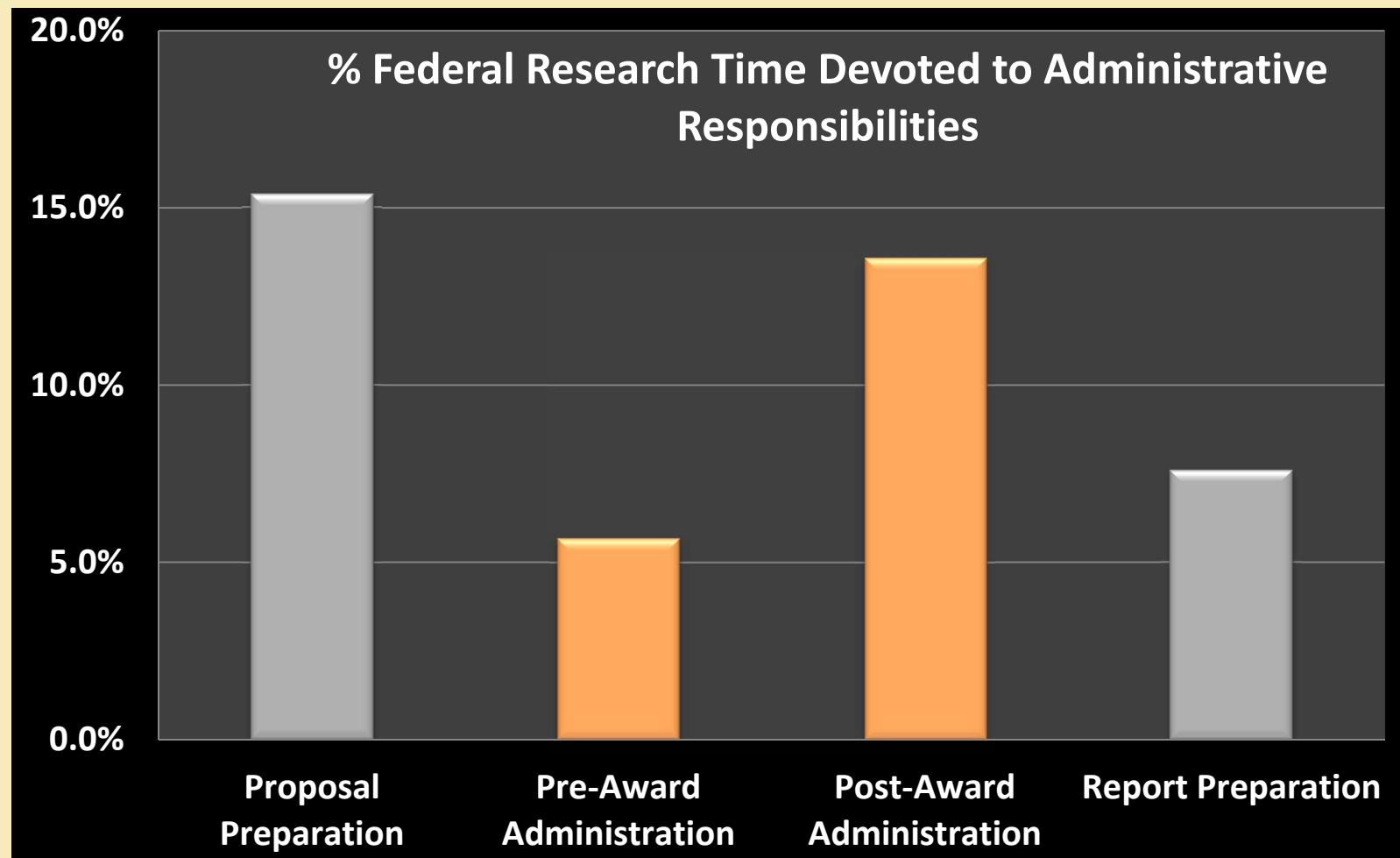**Question:** **What are the administrative issues that are most burdensome about proposal preparation?**

Over 400 comments identifying proposal preparation as the single most frustrating administrative responsibility:

- Constantly changing requirements, formats and content
- Wasted time filling out numerous documents when the vast majority of proposals will not be funded
- Detailed budgets despite low likelihood of funding
- Different requirements from different agencies; different forms (CVs, budgets, etc.)
- Increasing requirements with decreasing funding rates
- Emphasis within proposal on procedure and data that are not directly relevant to the research

Question: **What are the administrative issues that are most burdensome about report preparation?**

Over 600 comments identifying report preparation as the single most frustrating administrative responsibility:
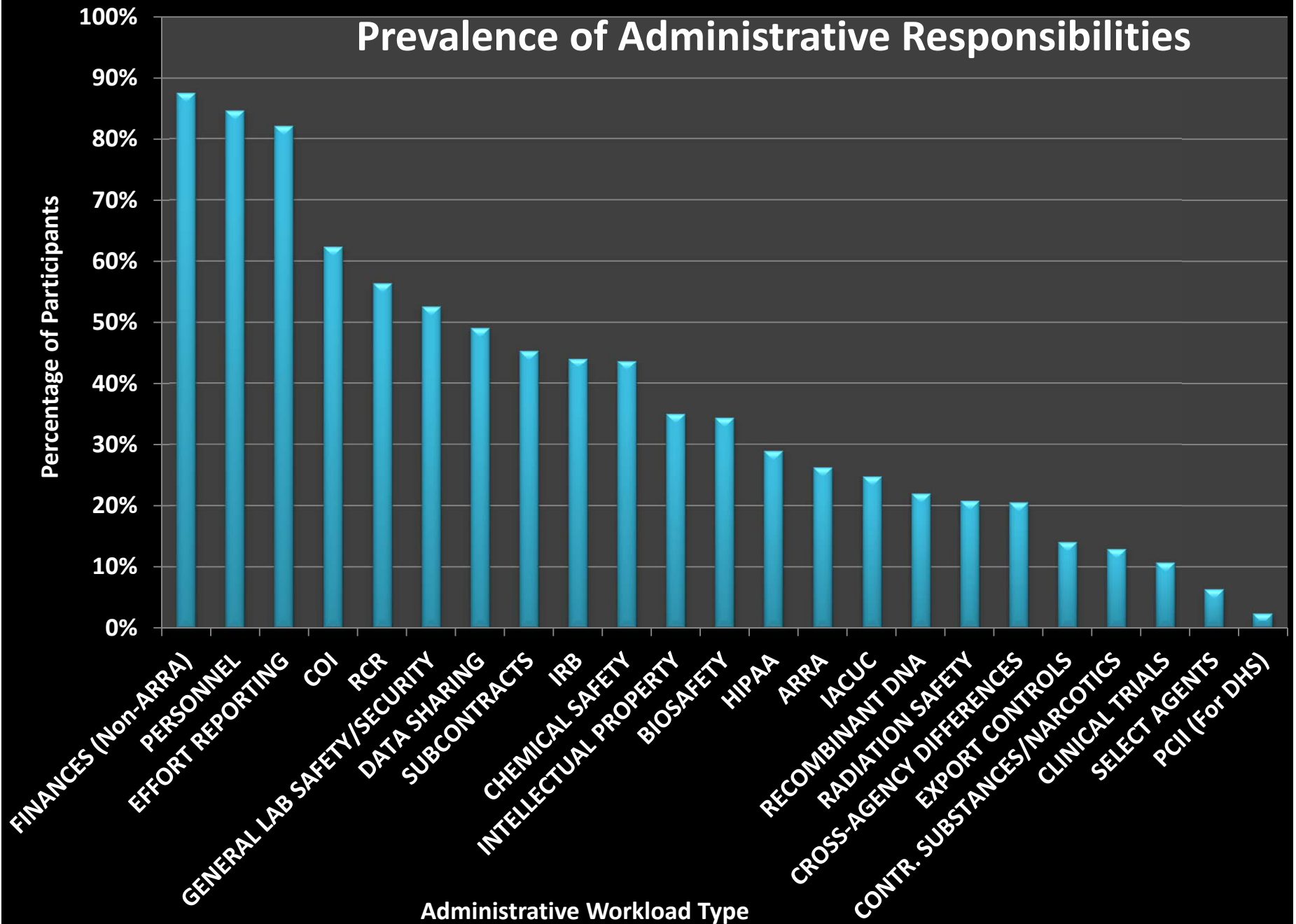
- Constantly changing requirements, formats, and content
- Routine, redundant, detailed interim reports that no one reads
- Different requirements from different agencies; complex forms
- Requirements are too frequent and overly detailed; tedious
- Ambiguities in requirements; poor fit of forms to actual research
- Online submission is "user unfriendly"

% Federal Research Time Devoted to Administrative Responsibilities

- Proposal Preparation
- Pre-Award Administration
- Post-Award Administration
- Report Preparation

Pre-Award and Post-Award Administration takes up almost one fifth of the average PI's federal research time.
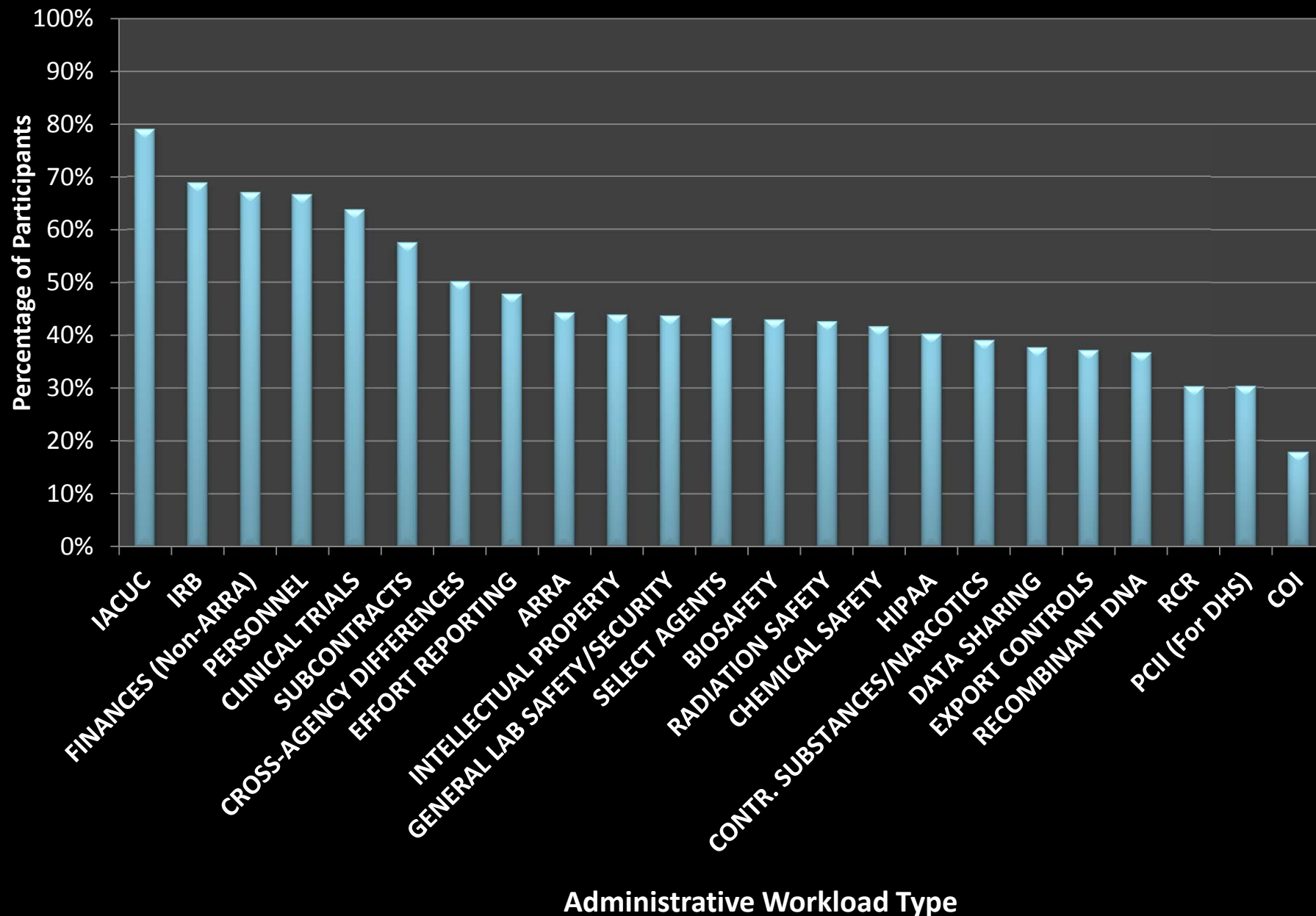
Question: **What are the most common pre-award and post-award administrative responsibilities?**

Prevalence of Administrative Responsibilities

Y-axis: Percentage of Participants (0% to 100%)

X-axis: Administrative Workload Type

- FINANCES (Non-ARRA)
- PERSONNEL
- EFFORT REPORTING
- COI
- RCR
- GENERAL LAB SAFETY/SECURITY
- DATA SHARING
- SUBCONTRACTS
- IRB
- CHEMICAL SAFETY
- INTELLECTUAL PROPERTY
- BIOSAFETY
- HIPAA
- ARRA
- IACUC
- RECOMBINANT DNA
- RADIATION SAFETY
- CROSS-AGENCY DIFFERENCES
- EXPORT CONTROLS
- CONTR. SUBSTANCES/NARCOTICS
- CLINICAL TRIALS
- SELECT AGENTS
- PCII (For DHS)

Question: What are the most intensive pre-award and post-award administrative responsibilities?

% Reporting Substantial Time Taken by Administrative Responsibilities

Bar chart. Y-axis: "Percentage of Participants" ranging from 0% to 100%. X-axis: "Administrative Workload Type"

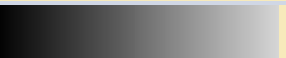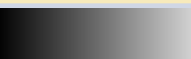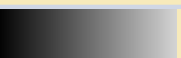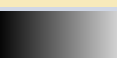| Administrative Workload Type	Percentage of Participants
IACUC	79%
IRB	69%
FINANCES (Non-ARRA)	67%
PERSONNEL	66%
CLINICAL TRIALS	64%
SUBCONTRACTS	57%
CROSS-AGENCY DIFFERENCES	50%
EFFORT REPORTING	47%
ARRA	44%
INTELLECTUAL PROPERTY	44%
GENERAL LAB SAFETY/SECURITY	43%
SELECT AGENTS	43%
BIOSAFETY	43%
RADIATION SAFETY	42%
CHEMICAL SAFETY	41%
HIPAA	40%
CONTR. SUBSTANCES/NARCOTICS	39%
DATA SHARING	37%
EXPORT CONTROLS	37%
RECOMBINANT DNA	36%
RCR	30%
PCII (For DHS)	30%
COI	18%

Question: Which specific aspects of the most prevalent administrative responsibilities take away the most research time?

- **Over 80% of PIs report having time taken away from research in order to deal with Finances, Personnel and Effort Reporting.**

2012 Burden Drill-Down (Initial N=12816)	Mean
FINANCES--Non-ARRA (N=7531)	1=None – 5=Very much
Managing budget-to-actual expenses	3.09
Dealing with equipment and supplies purchases	2.89
Determining and justifying which tasks and related costs are allowable as direct charges	2.34
Meeting other fed. cost accounting standards (incl. budget transfers, spending	2.09
Completing training regarding budgets/expenditures on federal projects	1.74
Requesting meeting and tracking federally-mandated cost-share requirements	1.71
PERSONNEL (N=7240)	
Managing personnel	3.55
Hiring personnel	2.99
Evaluating personnel	2.95
Dealing with issues related to visas	1.89
EFFORT REPORTING (N=5041)	
Completing federal time and effort reports for myself	2.66
Completing federal time and effort reports for others	2.37
Completing training regarding time and effort reporting on federal projects	2.08

Question: Which specific aspects of the most intense administrative responsibilities take away the most research time?

- **Although not as prevalent, almost 80% of those who have IACUC responsibilities report that it takes substantial time away from research.**

2012 Burden Drill-Down (continued)	Mean
IACUC (N=2513)	1=None – 5=Very much
Preparing IACUC protocols for initial review	3.62
Completing annual IACUC reviews and three-year re-writes of protocols	3.38
Completing protocol revisions requested by reviewers	3.29
Fulfilling federal requirements for training in animal care and use	2.75
Satisfying federal requirements for funded projects (e.g. tracking animal numbers)	2.63
Maintaining veterinary medical records	2.25

- **Over 50% of those who experience the responsibilities report that <u>IRB</u>, <u>Finances</u>, <u>Personnel</u>, <u>Clinical Trials</u>, and <u>Subcontracts</u> require substantial time away from research.**
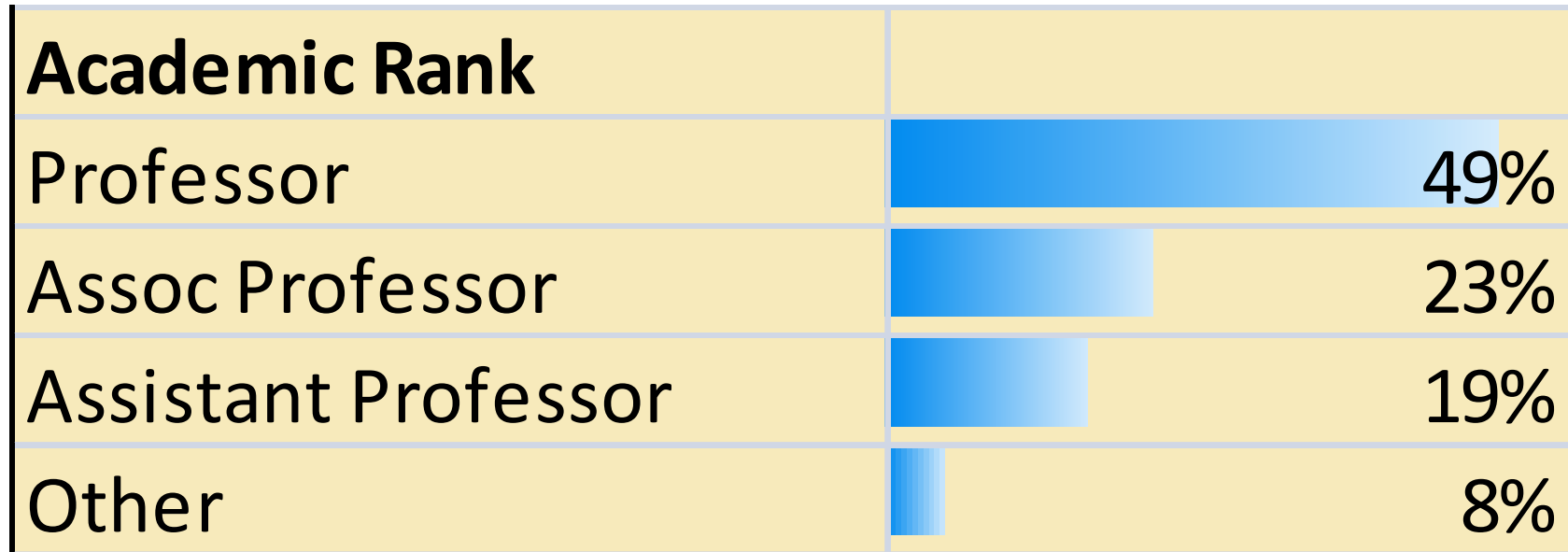
2012 Burden Drill-Down (continued)	*Mean*
IRB (N=3897)	**1=None – 5=Very much**
Preparing IRB protocols and consent forms for initial review	3.50
Completing protocol revisions requested by reviewers	3.04
Waiting for feedback from review	3.00
Completing annual continuing review of protocols	2.92
Ensuring that study procedures meet protocols	2.87
Fulfilling federal requirements for training in human subjects protections	2.64
CLINICAL TRIALS (N=880)	
Posting and updating trial progress to meet federal requirements	2.51
Completing training regarding federal requirements for clinical trials	2.36
Posting and updating trial results to meet federal requirements	2.36
SUBCONTRACTS (N=3354)	
Overseeing progress toward project goals and deadlines	3.31
Overseeing budgets, expenditures, invoices and other financial matters	3.21
Overseeing compliance and safety/security issues	2.07
Dealing with management issues specific to international subcontracts	1.75

Question: What factors are associated with higher and lower levels of administrative responsibilities?
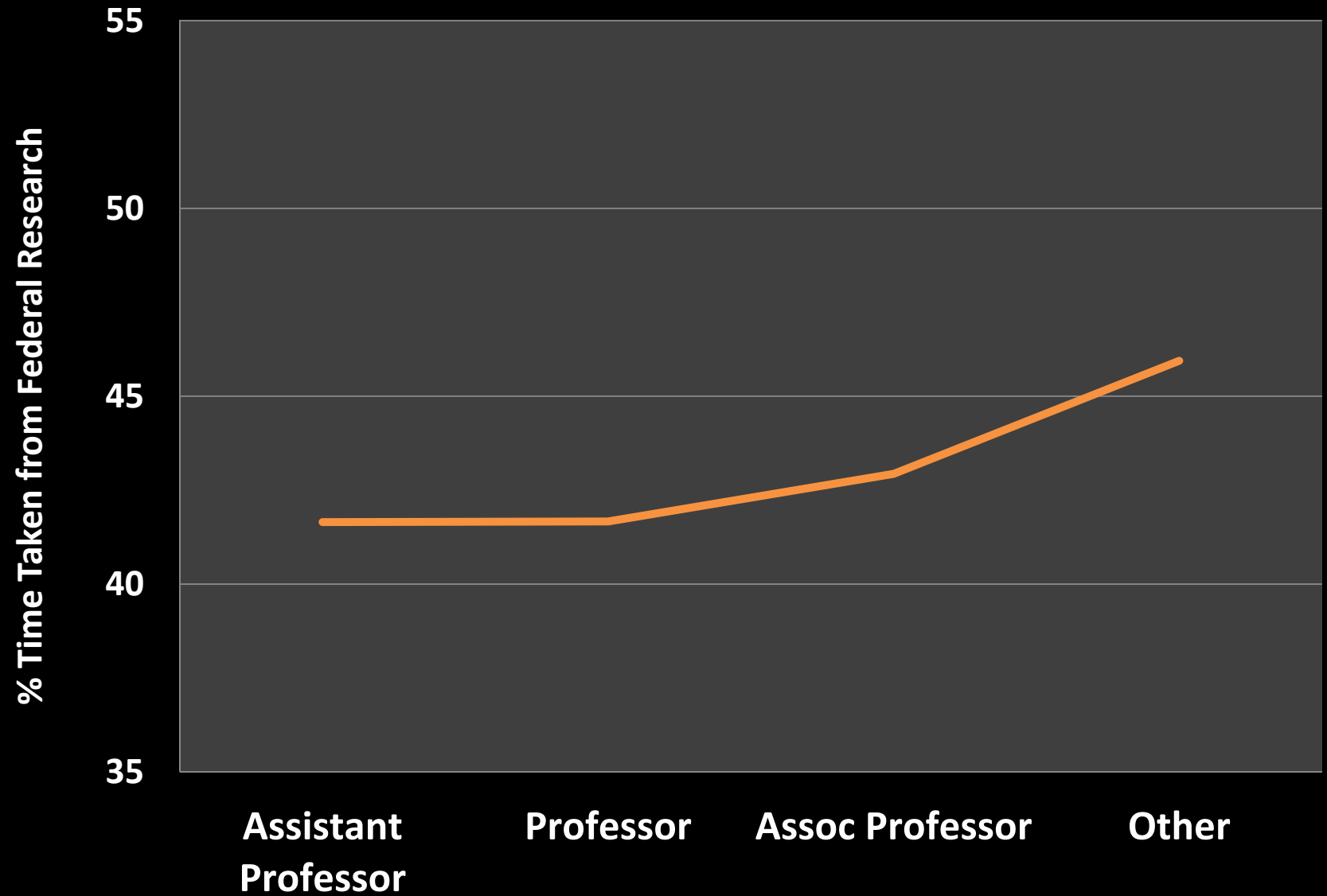
Consider:
- Academic Rank
- Administrative Role
- Type of Project
- Amount of Funding
- Principal Field of Research
- Funding Agency
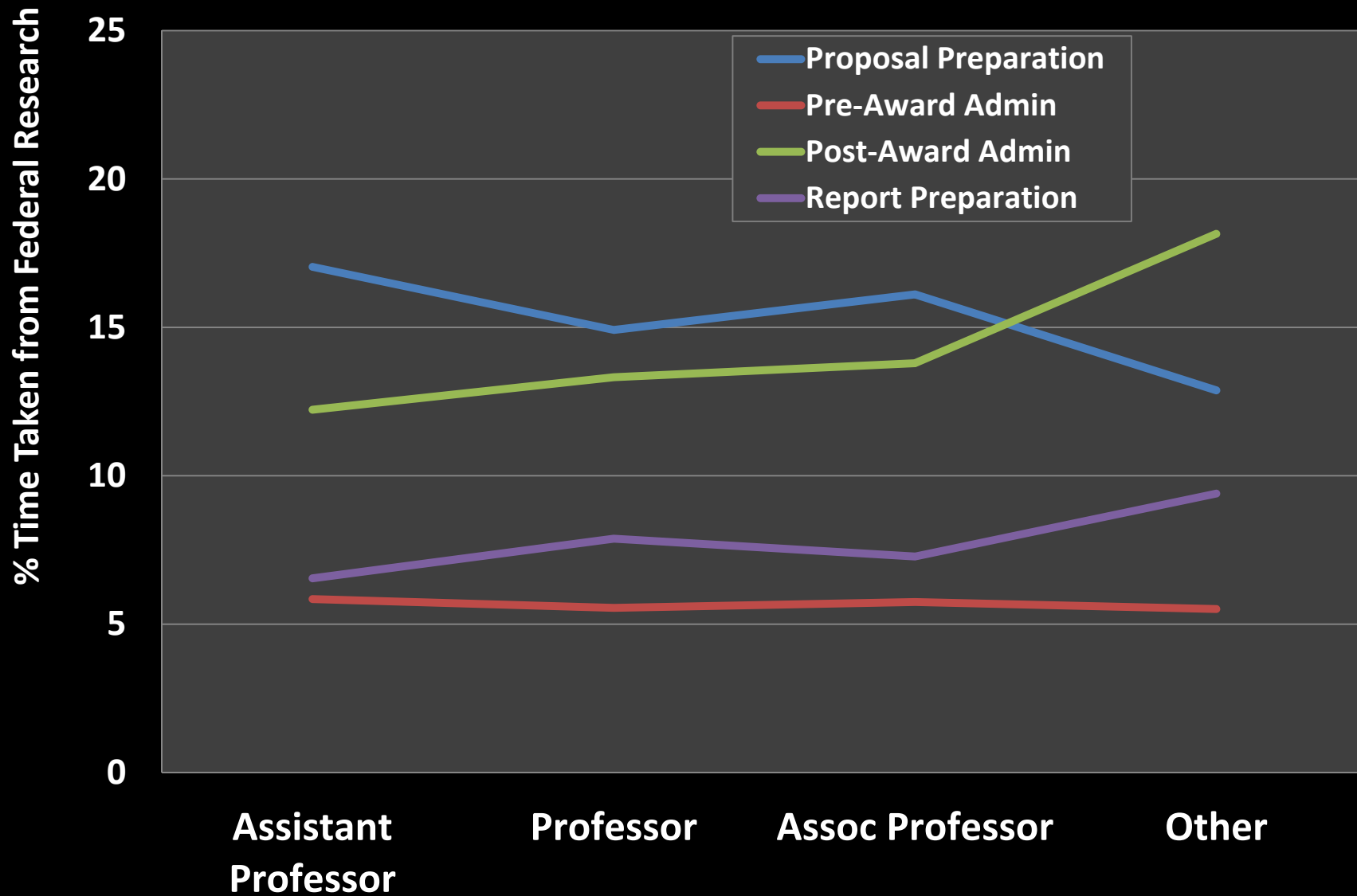- Demographics
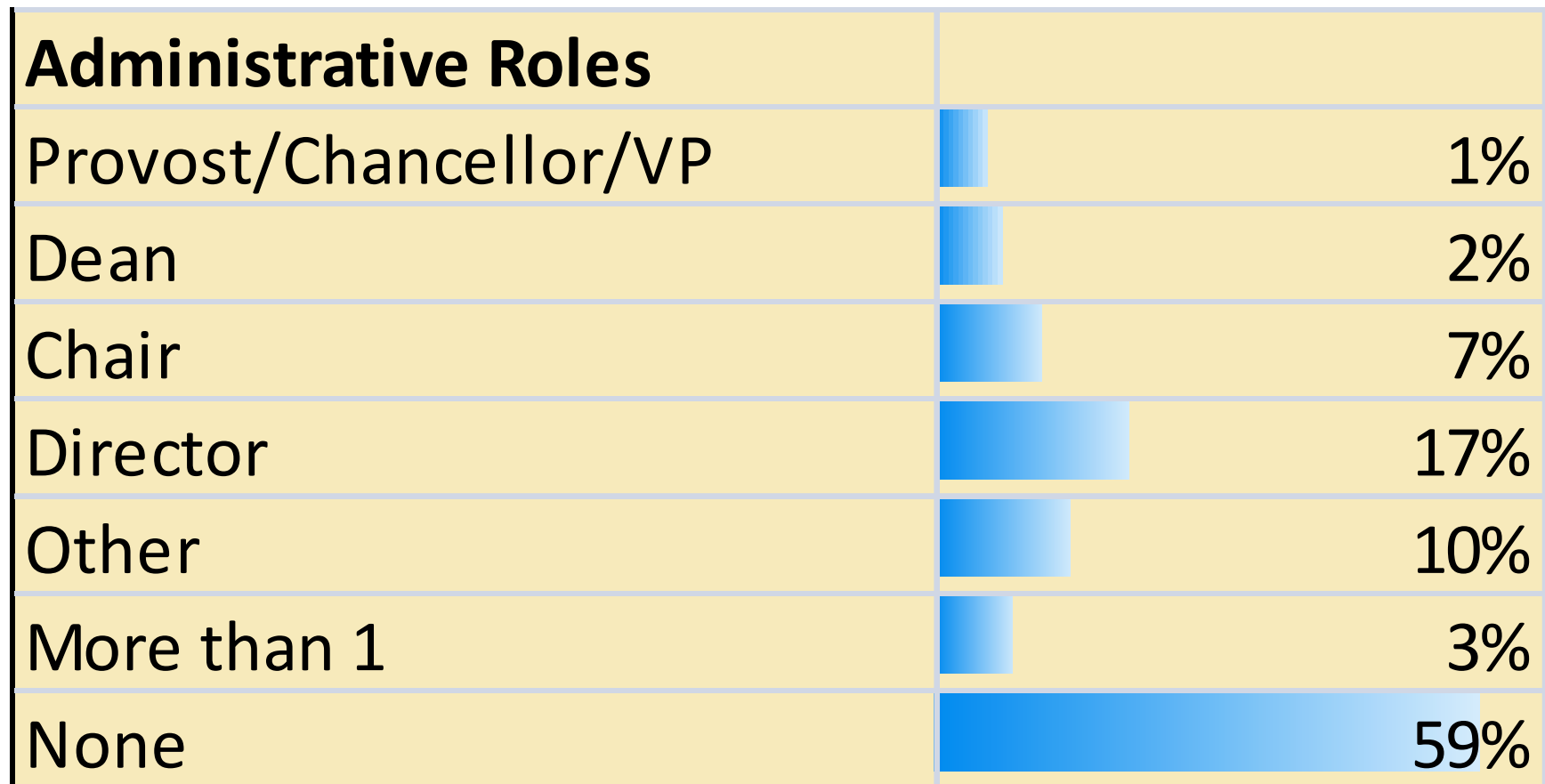
FWS Breakdown of Participants by Rank

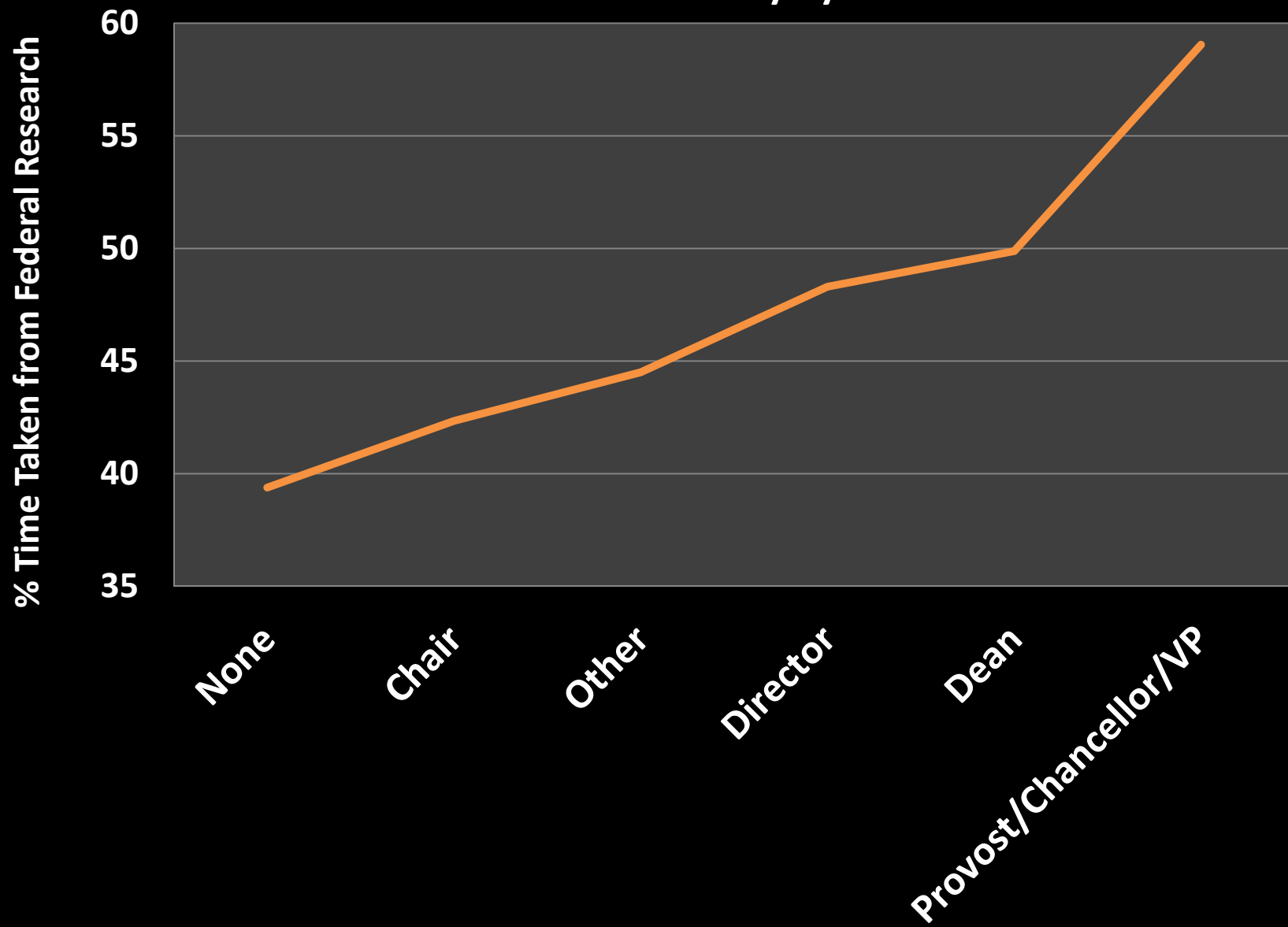| Academic Rank	
Professor	49%
Assoc Professor	23%
Assistant Professor	19%
Other	8%

Differences in % Time Away by Academic Rank

% Time Taken from Federal Research

55
50
45
40
35

Assistant Professor | Professor | Assoc Professor | Other

Differences in % Time Away by Academic Rank

Legend:
- Proposal Preparation
- Pre-Award Admin
- Post-Award Admin
- Report Preparation

Y-axis: % Time Taken from Federal Research (0, 5, 10, 15, 20, 25)

X-axis: Assistant Professor, Professor, Assoc Professor, Other

FWS Breakdown of Participants by Admin. Role

Administrative Roles	
Provost/Chancellor/VP	1%
Dean	2%
Chair	7%
Director	17%
Other	10%
More than 1	3%
None	59%

Differences in % Time Away by Administrative Role

Y-axis: % Time Taken from Federal Research (35, 40, 45, 50, 55, 60)

X-axis: None, Chair, Other, Director, Dean, Provost/Chancellor/VP

Differences in % Time Away by Administrative Role

% Time Taken from Federal Research

- Proposal Preparation
- Pre-Award Admin
- Post-Award Admin
- Report Preparation

None, Chair, Other, Director, Dean, Provost/Chancellor/VP
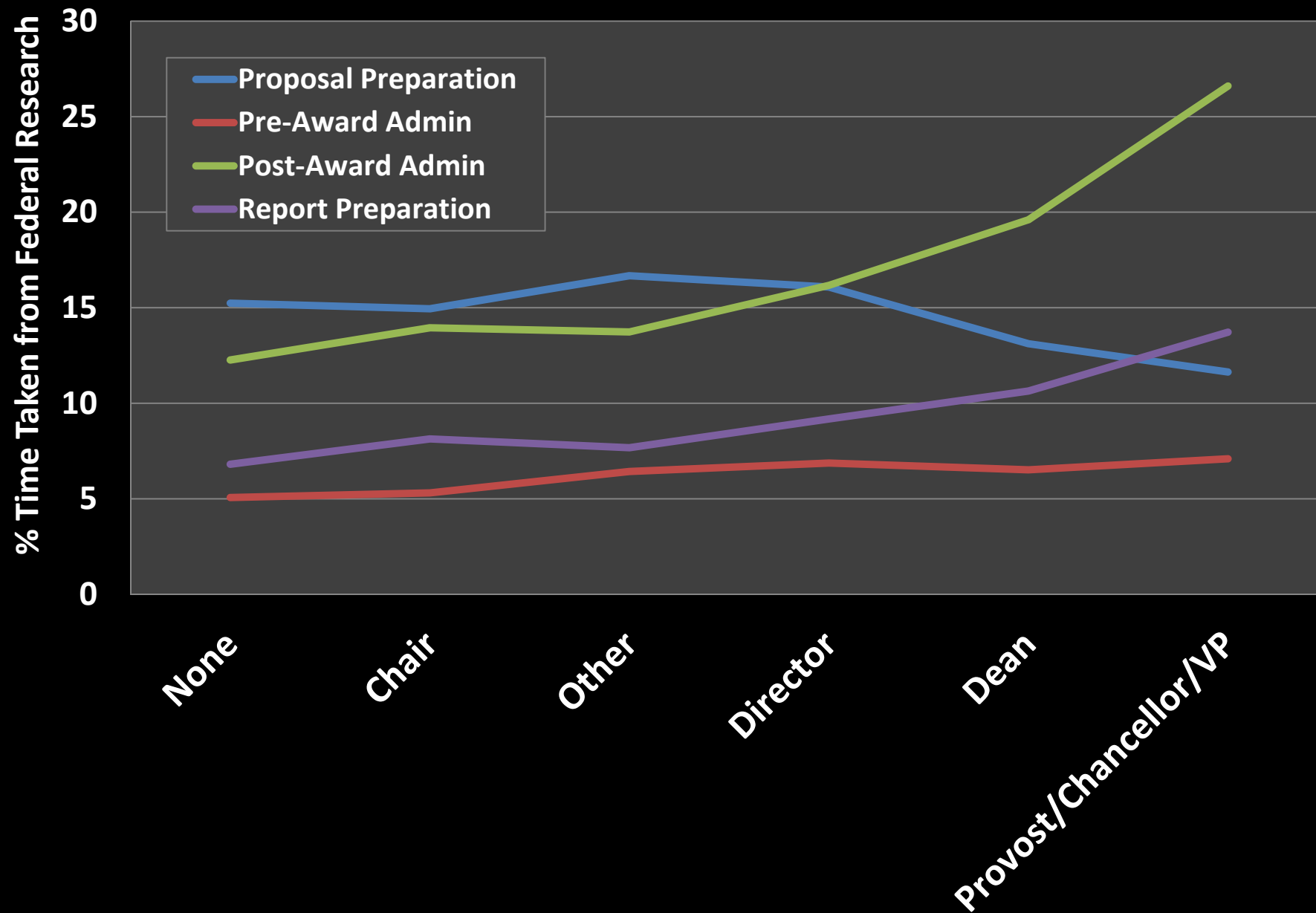
FWS Breakdown of Participants by Project Type

Focus of Grants	
Majority Basic Research	53%
Majority Applied Research	38%
Majority Training	4%
Majority Service	2%
Majority Curric Dev.	2%
Majority Other	2%

Differences in % Time Away by Project Type

% Time Taken from Federal Research

65	
60	
55	
50	
45	
40	
35	

Majority Basic Research · Majority Applied Research · Majority Curric Dev. · Majority Training · Majority Other · Majority Service
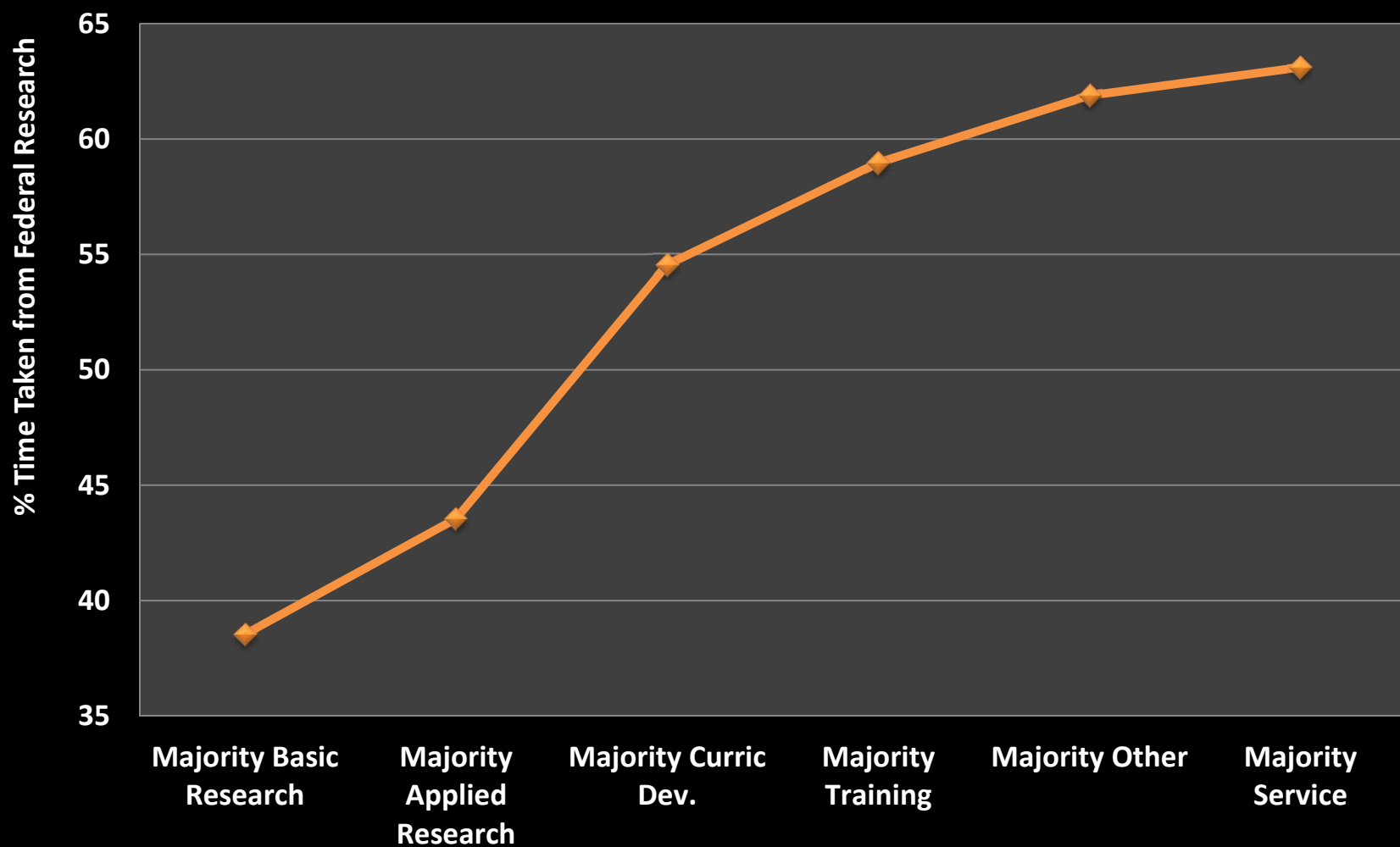
Differences in % Time Away by Type of Project

Legend:
- Proposal Preparation
- Pre-Award Admin
- Post-Award Admin
- Report Preparation

Y-axis: % Time Taken from Federal Research

X-axis categories: Majority Basic Research, Majority Applied Research, Majority Curric dev., Majority Training, Majority Other, Majority Service
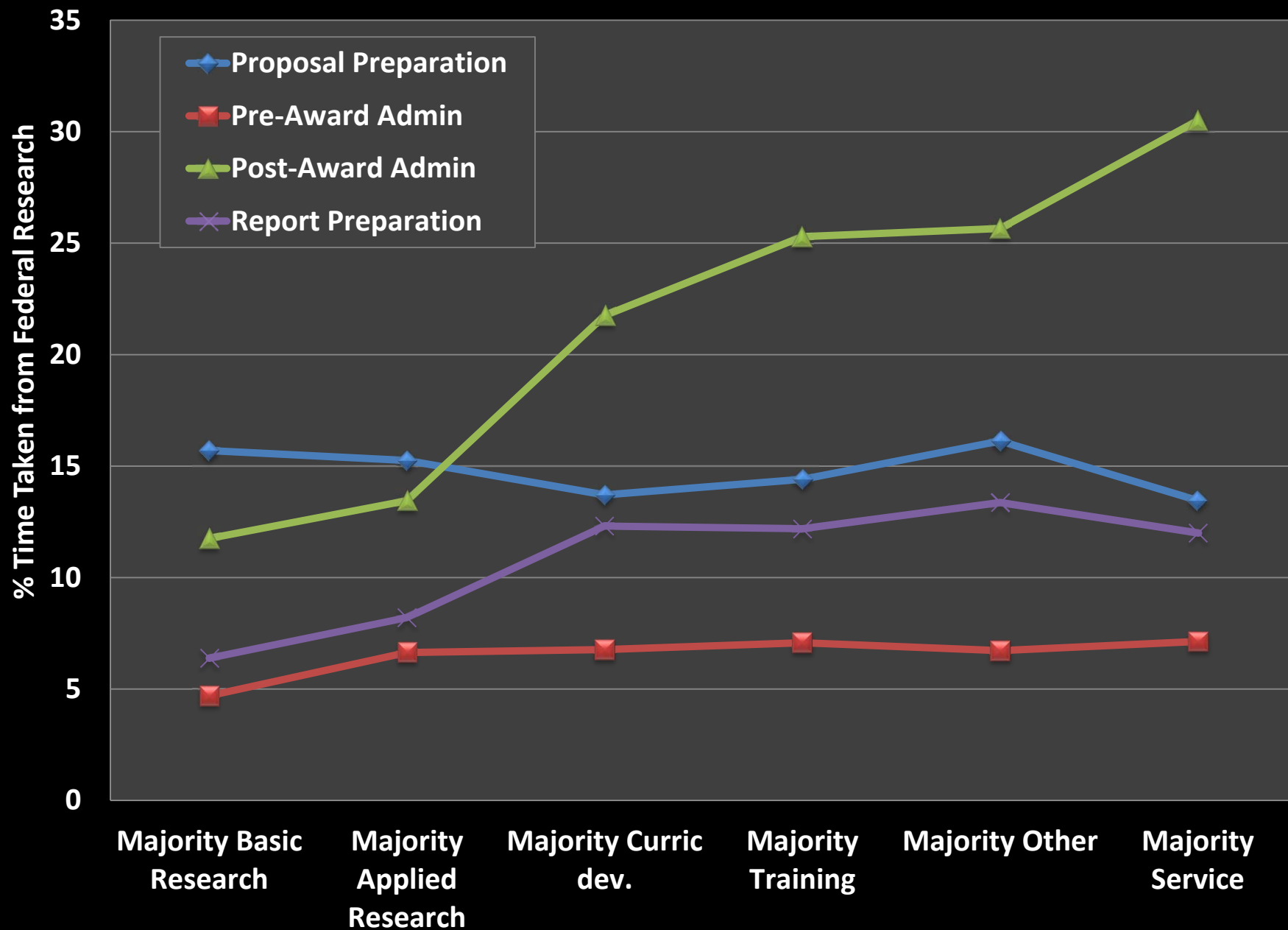
FWS Breakdown of Participants by Number of Grants/Contracts
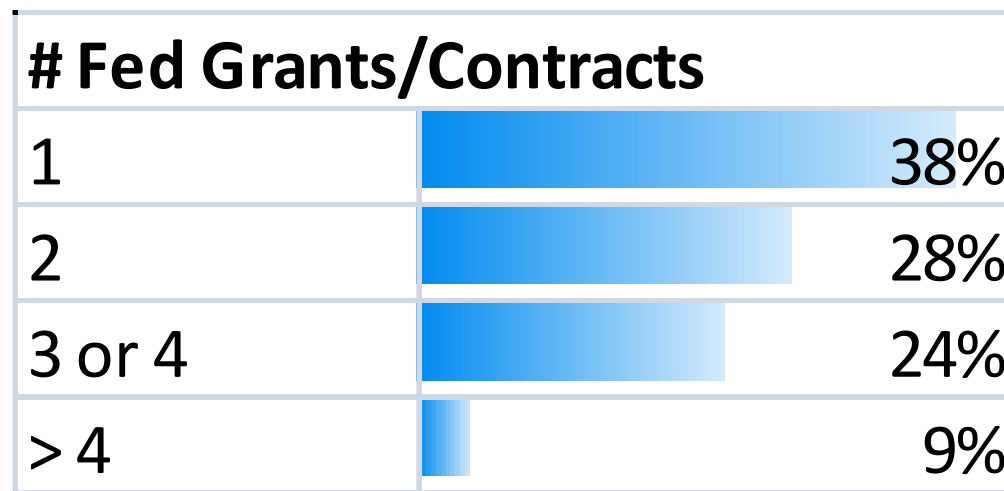
# Fed Grants/Contracts	
1	38%
2	28%
3 or 4	24%
> 4	9%

Differences in % Time Away by Funding Agency

% Time Taken from Federal Research
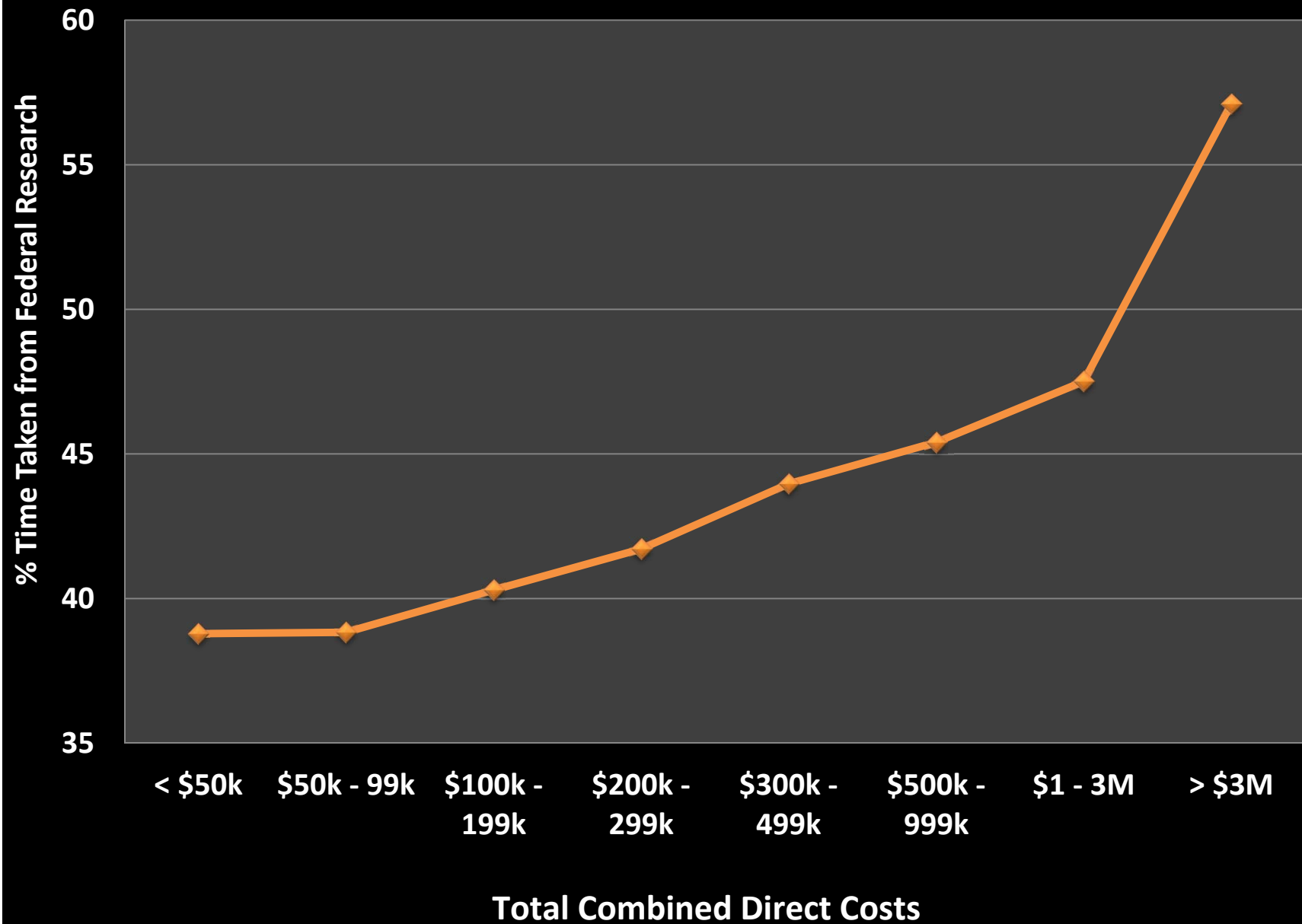
Number of Grants/Contracts

1   2   3 or 4   > 4

55
50
45
40
35
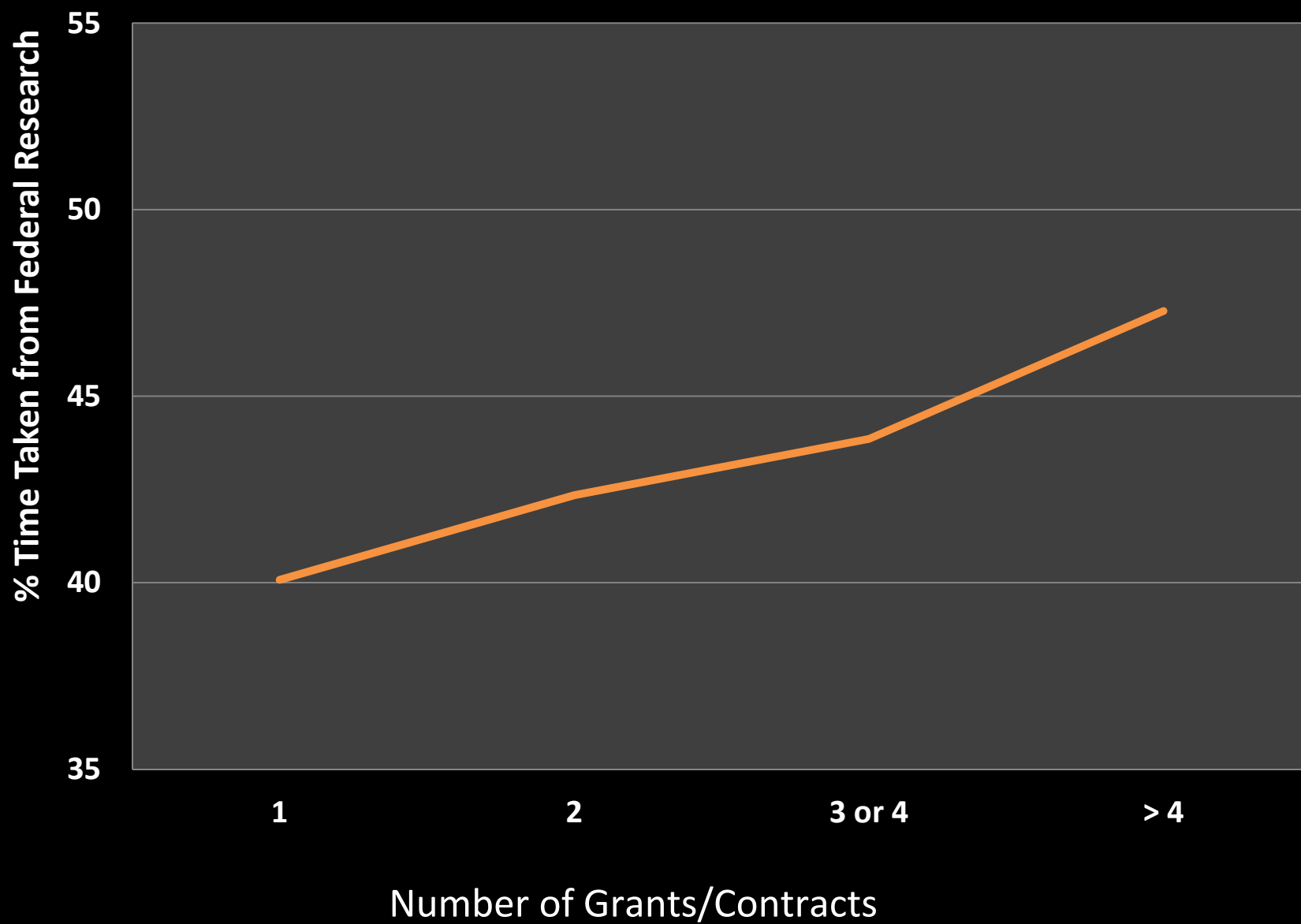
Differences in % Time Away by Funding Agency
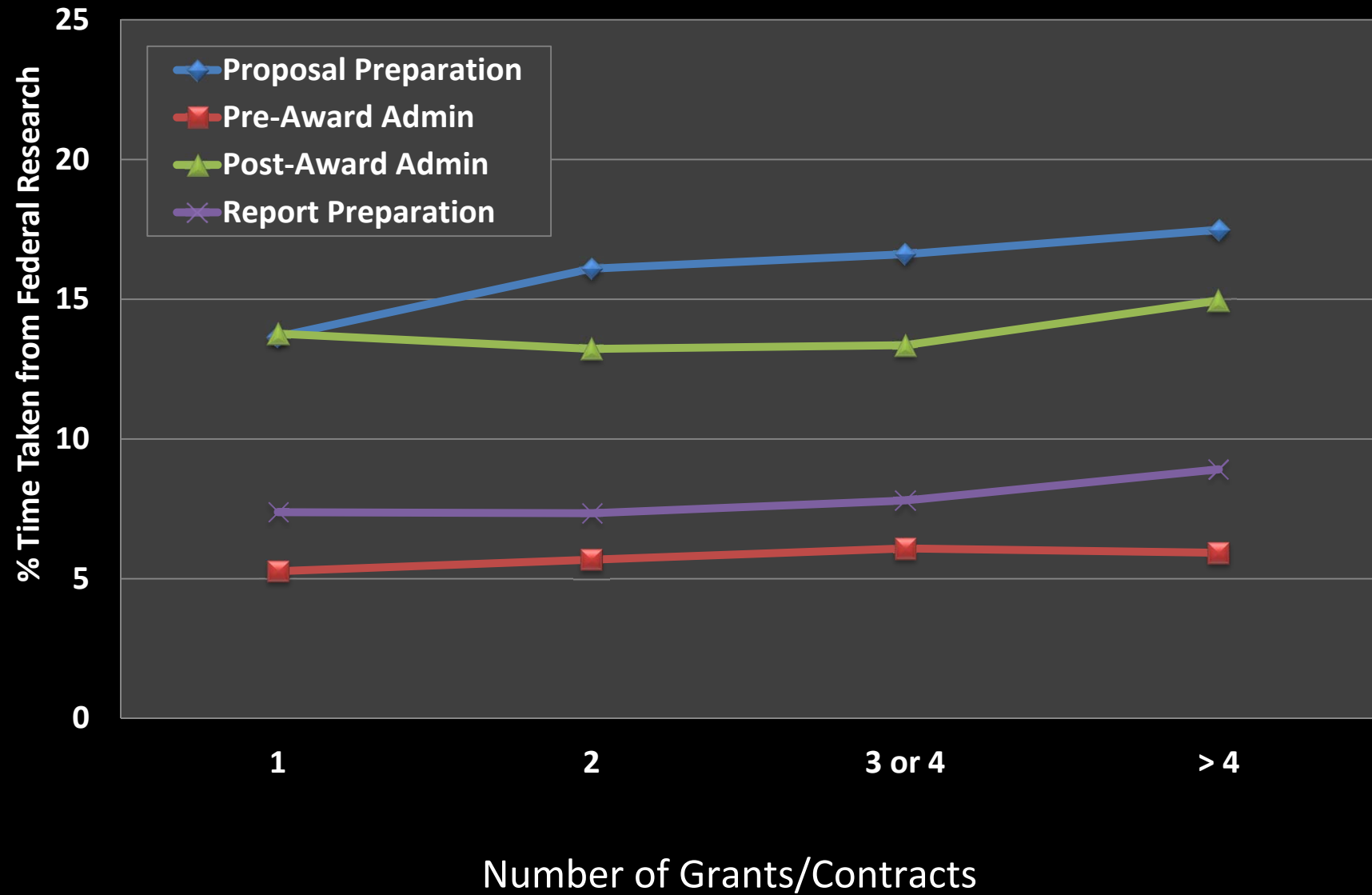
FWS Breakdown of Participants by Total Combined Annual Direct Costs

Total Combined Direct Costs		
< 50,000		9%
50k - 99,999		13%
100k - 199k		22%
200k - 299k		17%
300k - 499k		17%
500k - 999k		14%
1m - 3m		7%
> 3m		2%
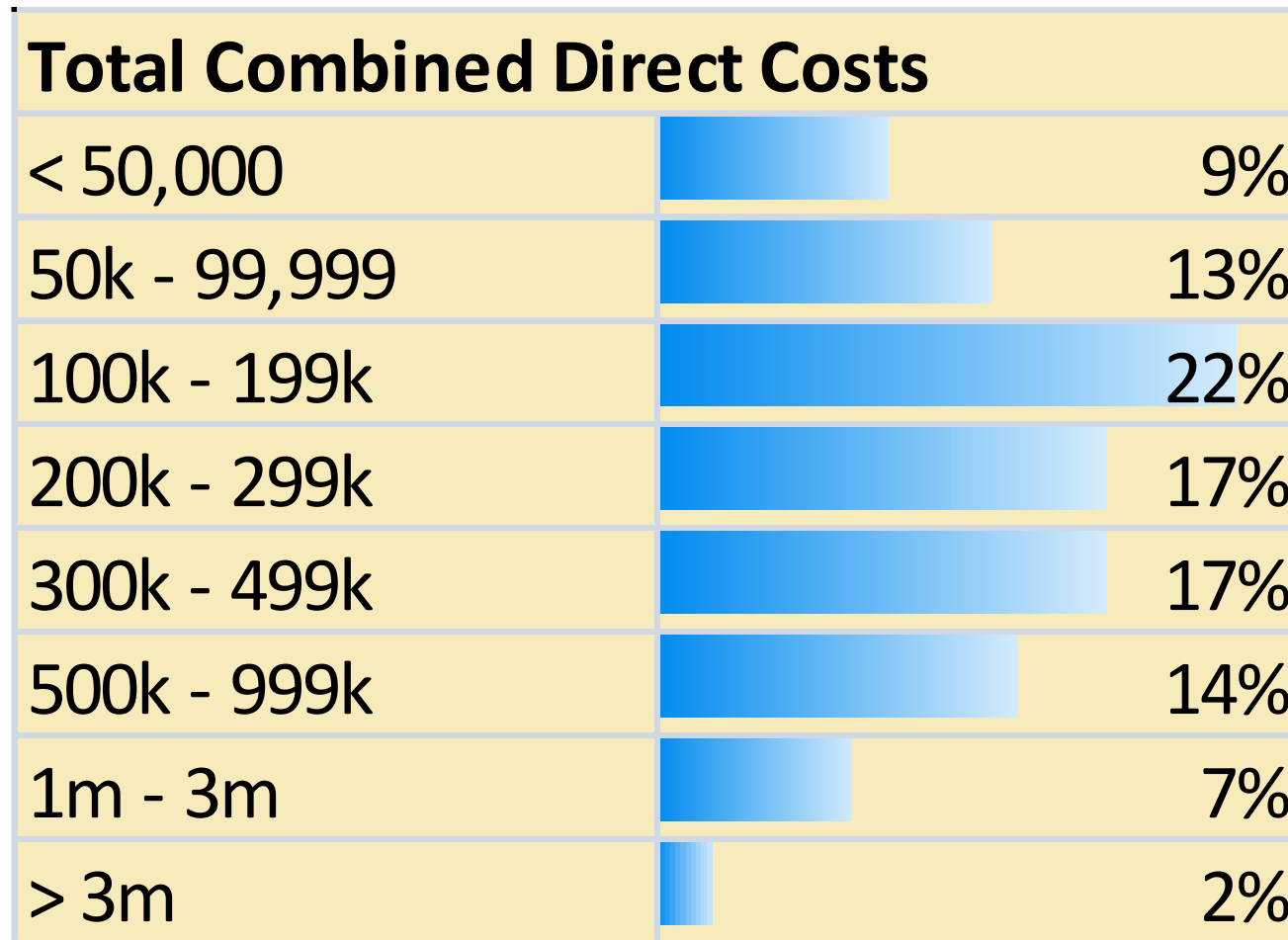
Differences in % Time Away by Total Direct Cost Amount

Y-axis: % Time Taken from Federal Research (35, 40, 45, 50, 55, 60)

X-axis: Total Combined Direct Costs (< $50k, $50k - 99k, $100k - 199k, $200k - 299k, $300k - 499k, $500k - 999k, $1 - 3M, > $3M)

Differences in % Time Away by Total Direct Costs

Legend:
- Proposal Preparation
- Pre-Award Admin
- Post-Award Admin
- Report Preparation

Y-axis: % Time Taken from Federal Research (0 to 30)

X-axis: < $50k, $50k - 99k, $100k - 199k, $200k - 299k, $300k - 499k, $500k - 999k, $1 - 3M, > $3M
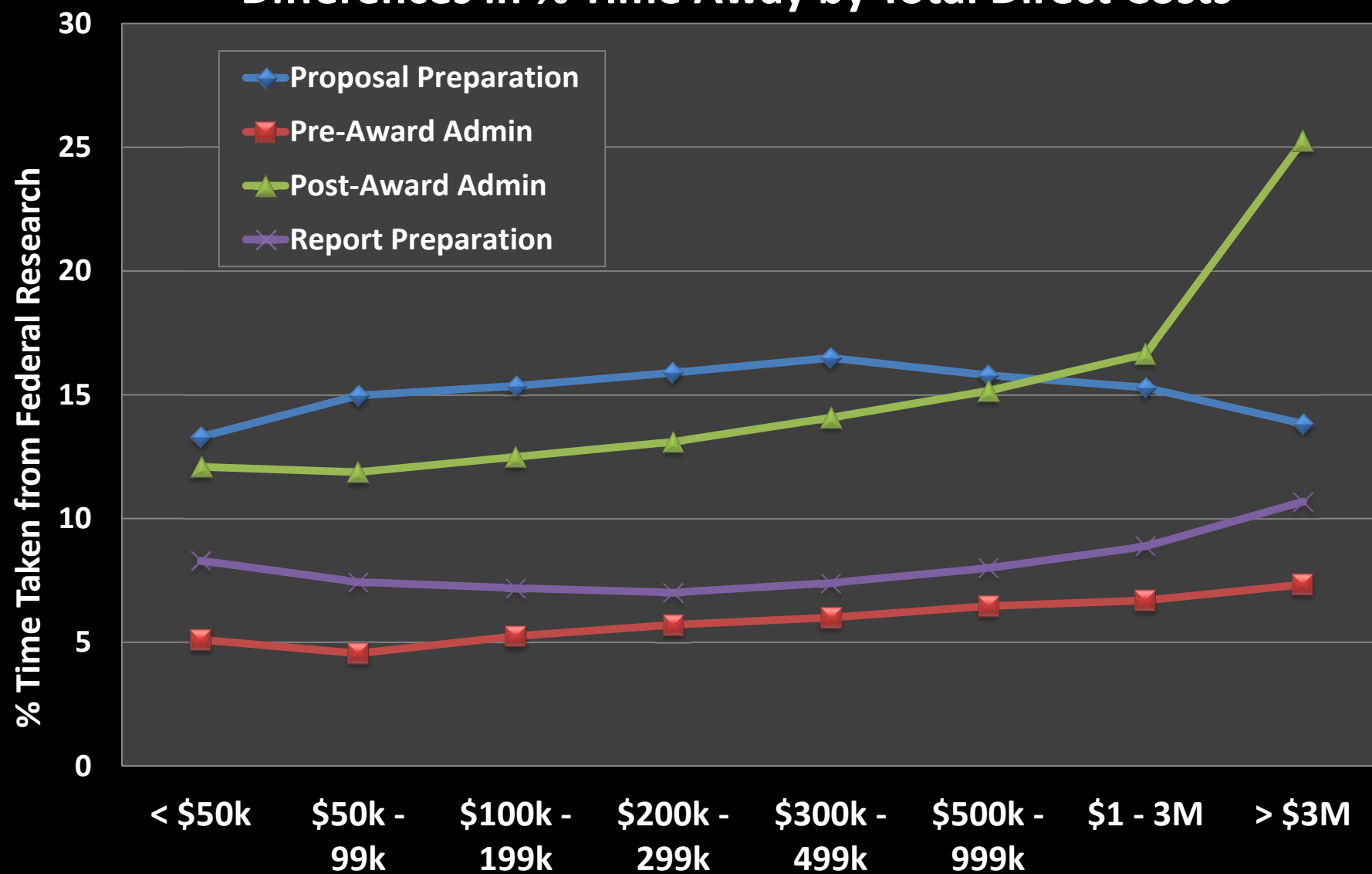
FWS Breakdown of Participants by Principal Field

Principal Field	
Bio & Biomed	32.3%
Phys Sci and Math	16.3%
Engrg & Comp Sci	13.7%
Social and Beh Sci	12.1%
Clinical Sci & Med	9.5%
Agrl Sciences	4.1%
Education	3.1%
Humanities	0.9%
Business	0.4%
Arts & Arch	0.3%
Other	7.2%

Differences in % Time Away by Principal Field
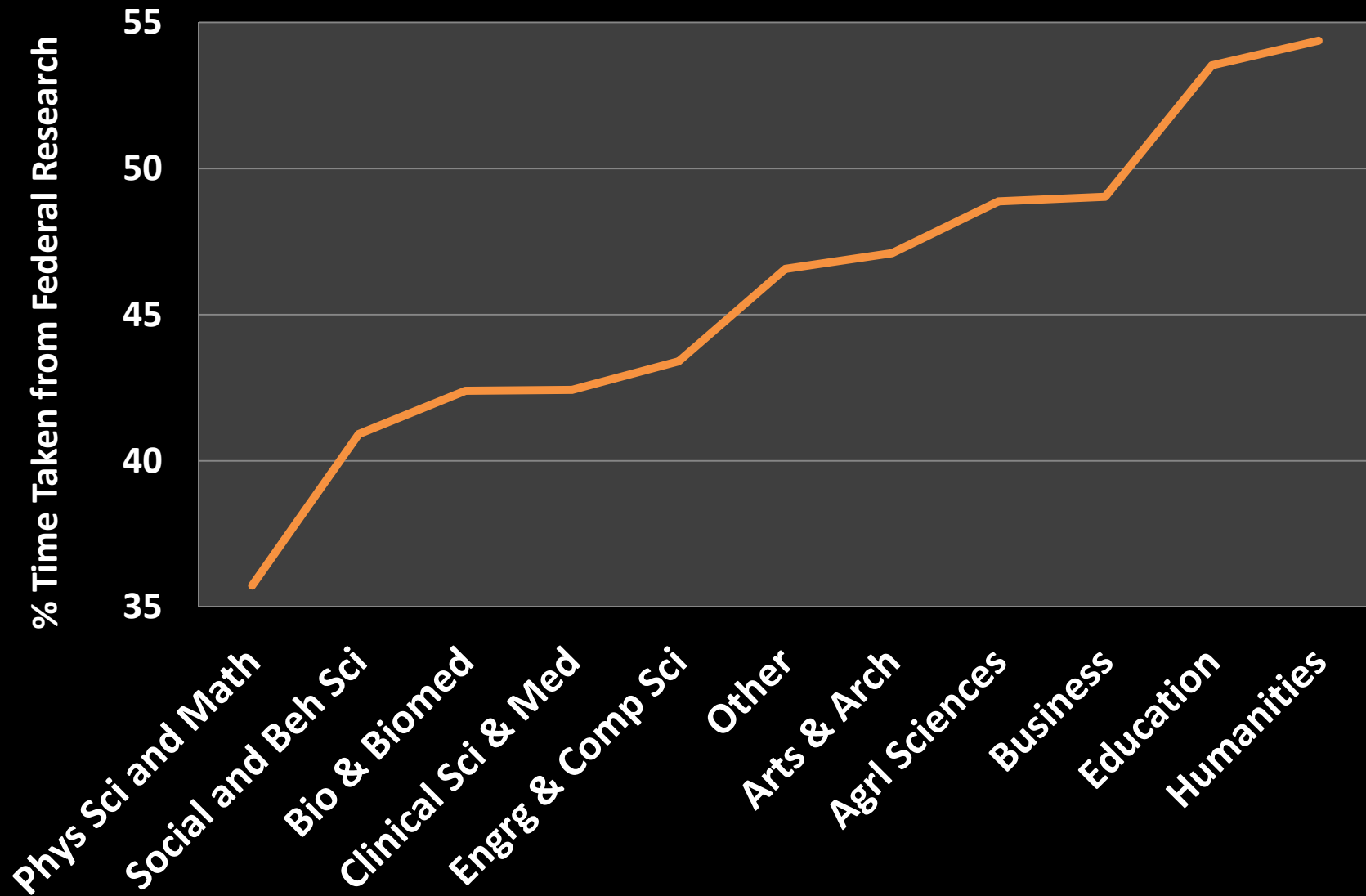
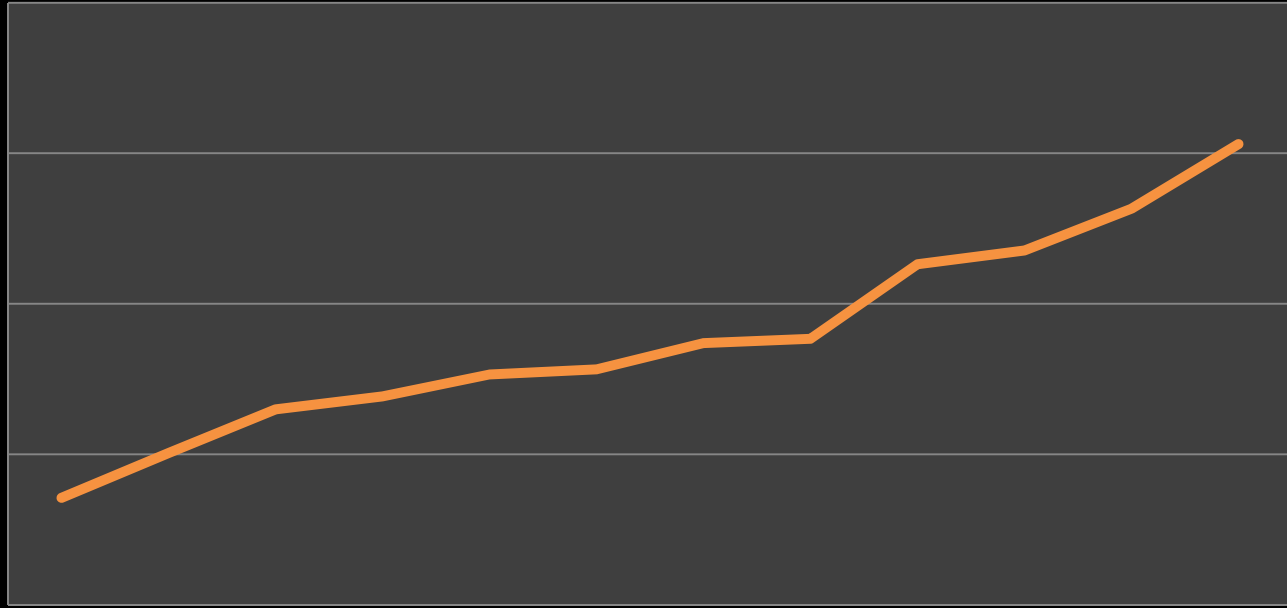Differences in % Time Away by Principal Field
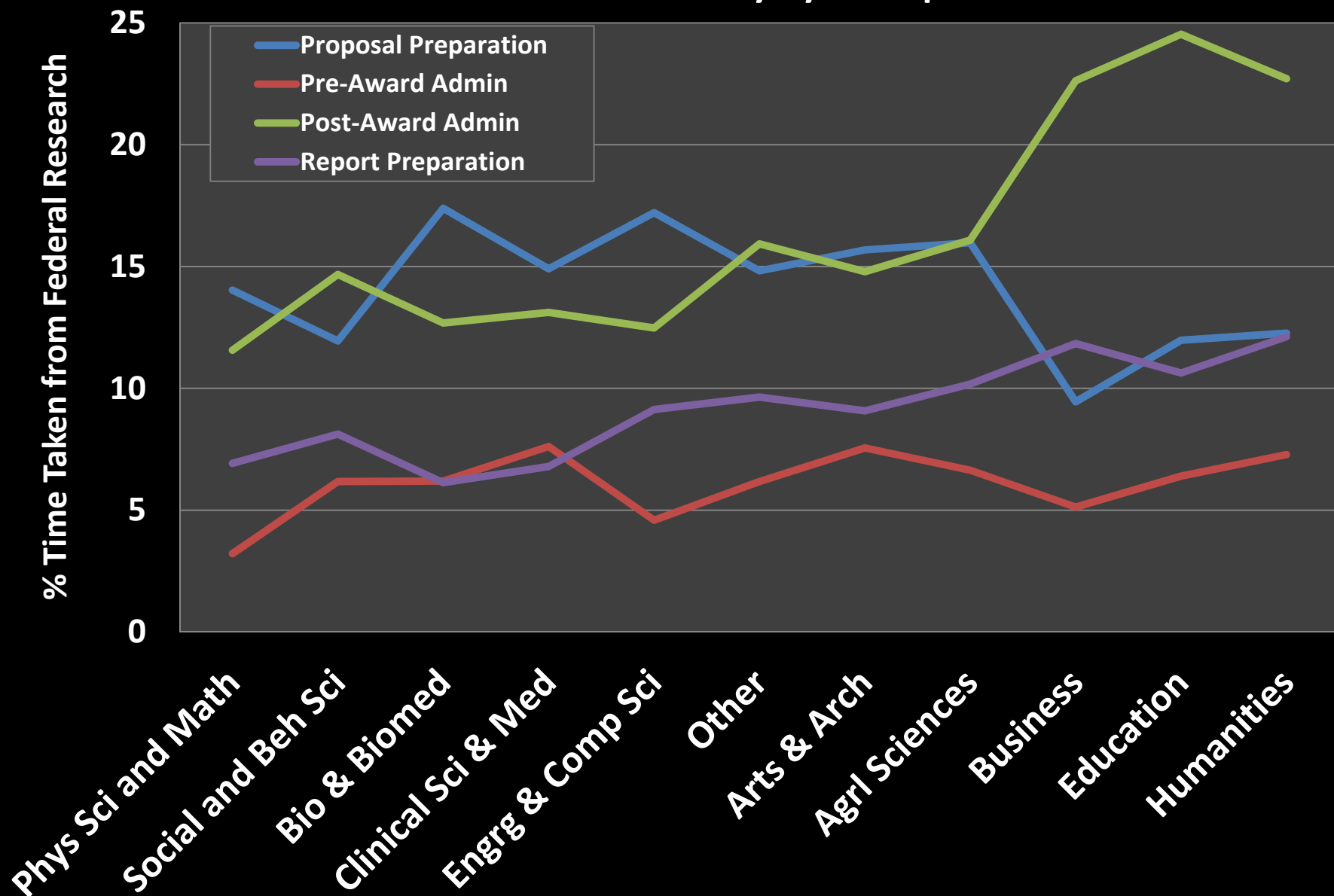
FWS Breakdown of Participants by Institution

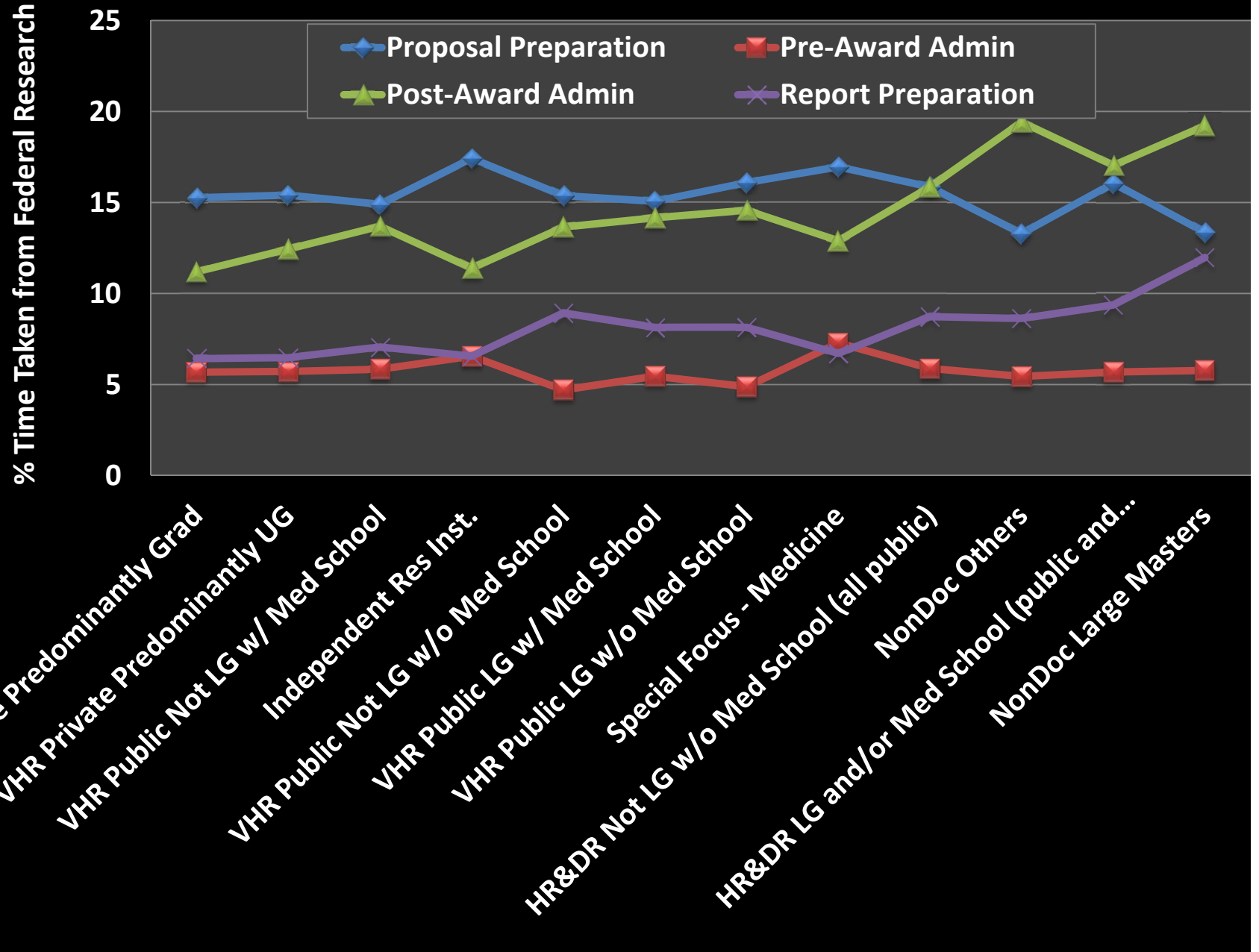| Carnegie SubClass	
VHR Public LG w/ Med School	25%
VHR Public Not LG w/ Med School	14%
VHR Public LG w/o Med School	7%
VHR Public Not LG w/o Med School	8%
VHR Private Predominantly UG	10%
VHR Private Predominantly Grad	15%
HR&DR LG and/or Med School (public and private)	3%
HR&DR Not LG w/o Med School (all public)	7%
Special Focus - Medicine	6%
NonDoc Large Masters	1%
NonDoc Others	1%
Independent Res Institute	3%

Differences in % Time Away by Institution Type
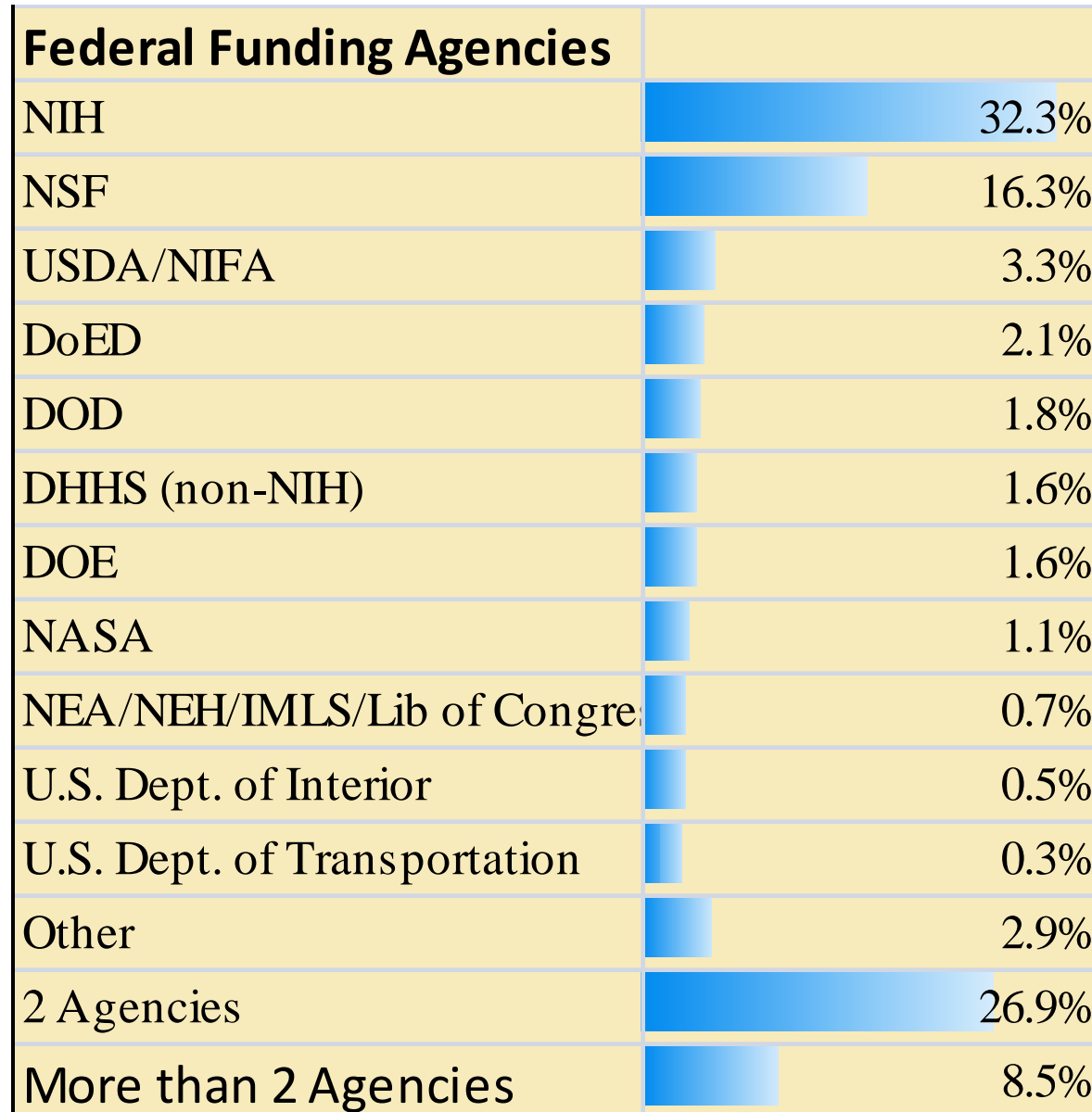
% Time Taken from Federal Research

- VHR Private Predominantly Grad
- VHR Private Predominantly UG
- VHR Public Not LG w/ Med School
- Independent Res Inst.
- VHR Public Not LG w/o Med School
- VHR Public LG w/ Med School
- VHR Public LG w/o Med School
- Special Focus - Medicine
- HR&DR Not LG w/o Med School (all public)
- NonDoc Others
- HR&DR LG and/or Med School (public and...
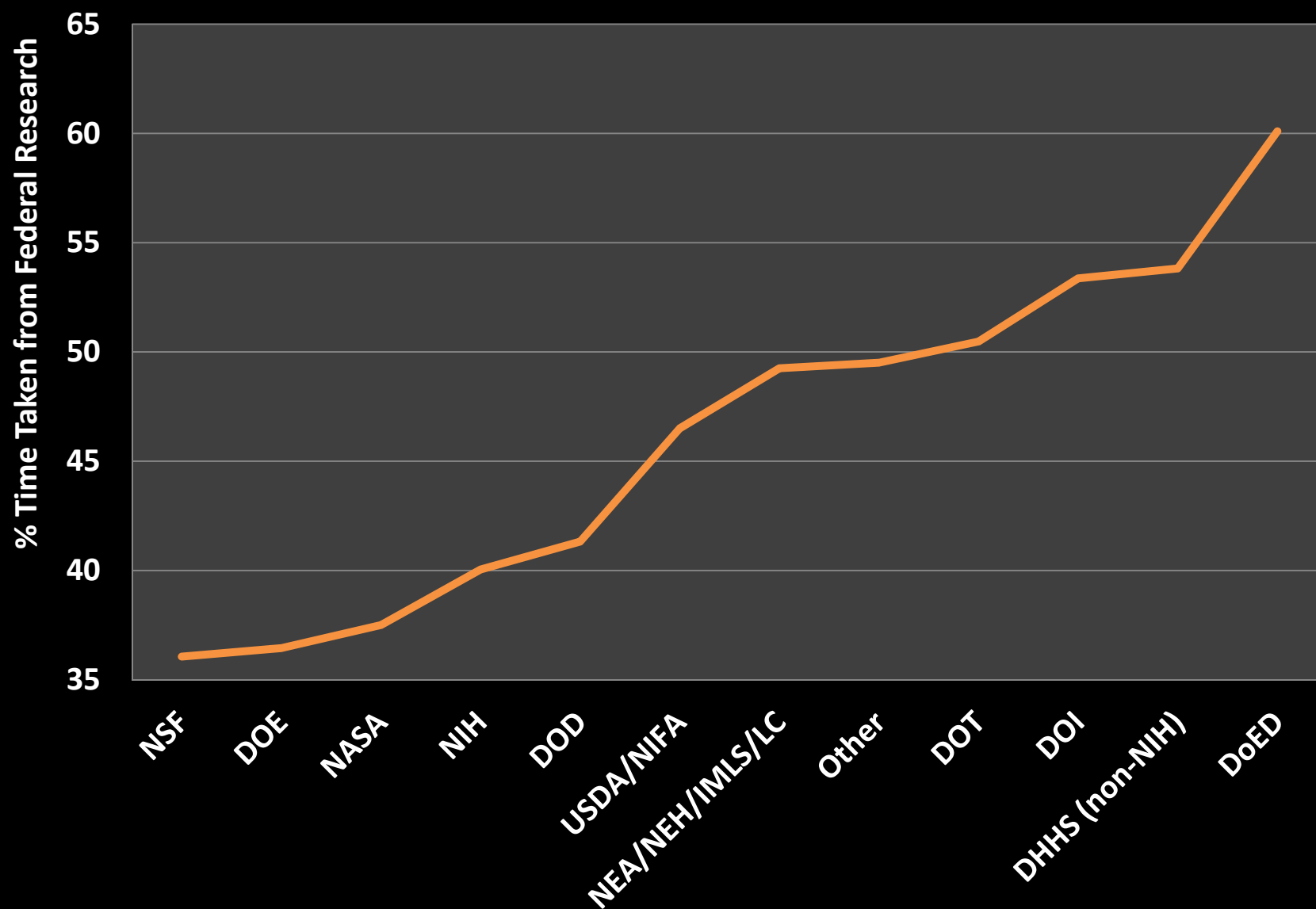- NonDoc Large Masters

Differences in % Time Away by Institution Type

Legend:
- Proposal Preparation
- Pre-Award Admin
- Post-Award Admin
- Report Preparation

Y-axis: % Time Taken from Federal Research (0, 5, 10, 15, 20, 25)

X-axis categories:
- VHR Private Predominantly Grad
- VHR Private Predominantly UG
- VHR Public Not LG w/ Med School
- Independent Res Inst.
- VHR Public Not LG w/o Med School
- VHR Public LG w/ Med School
- VHR Public LG w/o Med School
- Special Focus - Medicine
- HR&DR Not LG w/o Med School (all public)
- NonDoc Others
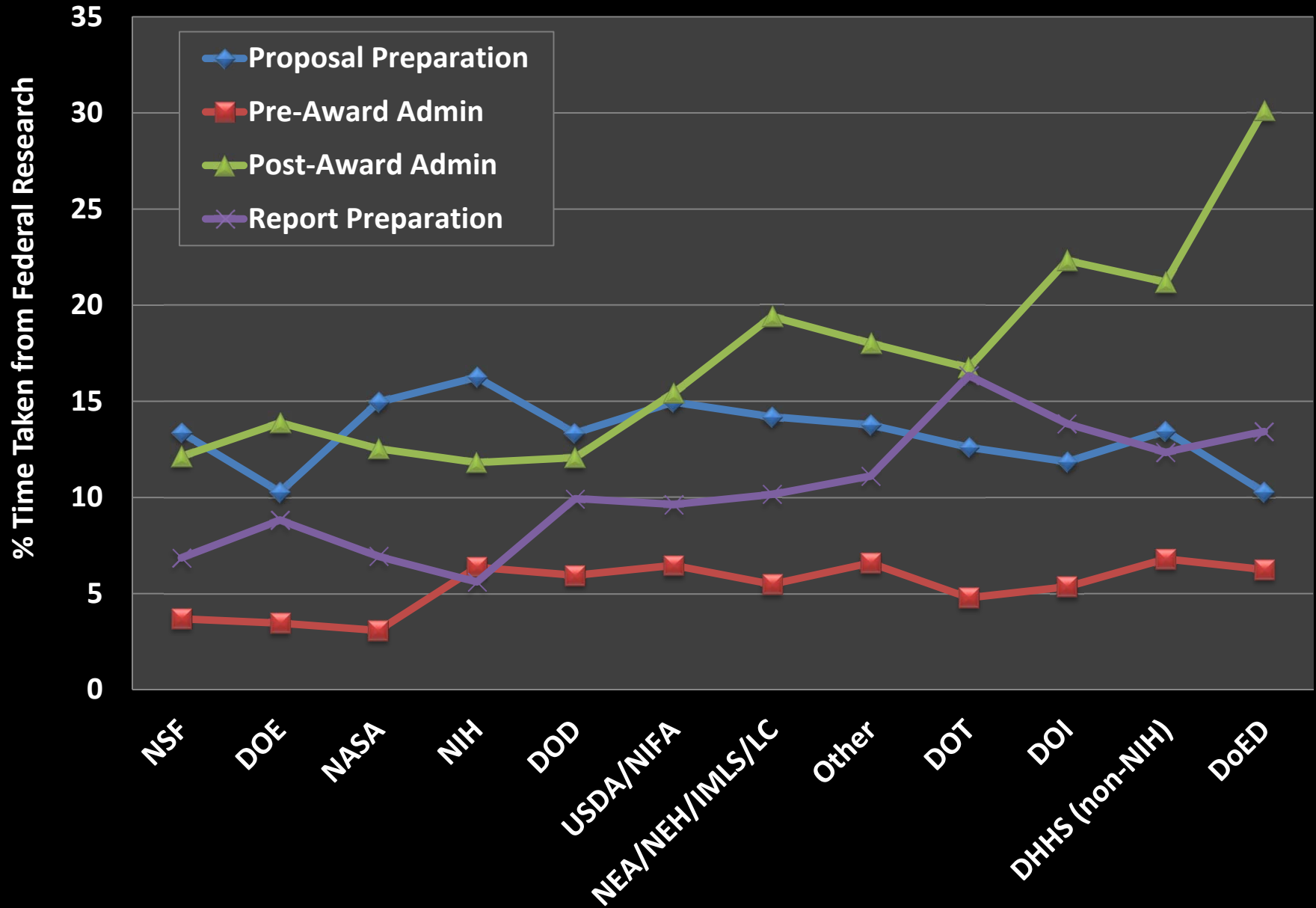- HR&DR LG and/or Med School (public and...
- NonDoc Large Masters

FWS Breakdown of Participants by Federal Funding Agency
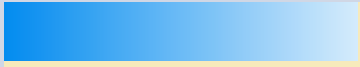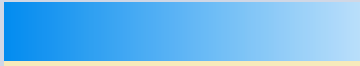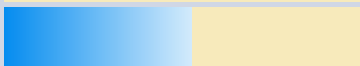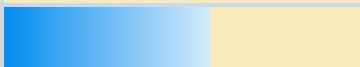
Federal Funding Agencies	
NIH	32.3%
NSF	16.3%
USDA/NIFA	3.3%
DoED	2.1%
DOD	1.8%
DHHS (non-NIH)	1.6%
DOE	1.6%
NASA	1.1%
NEA/NEH/IMLS/Lib of Congress	0.7%
U.S. Dept. of Interior	0.5%
U.S. Dept. of Transportation	0.3%
Other	2.9%
2 Agencies	26.9%
More than 2 Agencies	8.5%

Differences in % Time Away by Funding Agency

% Time Taken from Federal Research

NSF, DOE, NASA, NIH, DOD, USDA/NIFA, NEA/NEH/IMLS/LC, Other, DOT, DOI, DHHS (non-NIH), DoED

Differences in % Time Away by Funding Agency

FWS Breakdown of Participants by Demographics

Gender		
Female		33%
Male		65%
Race/Ethnicity		
White		76%
Asian		10%
Hispanic/Latino		3%
African American		1%
Other		1%
Not Spec		5%
More than 1		2%
Age		
< 47 years old		33%
47 - 56 years old		32%
> 56 years old		35%

Differences in % Time Away by Demographics
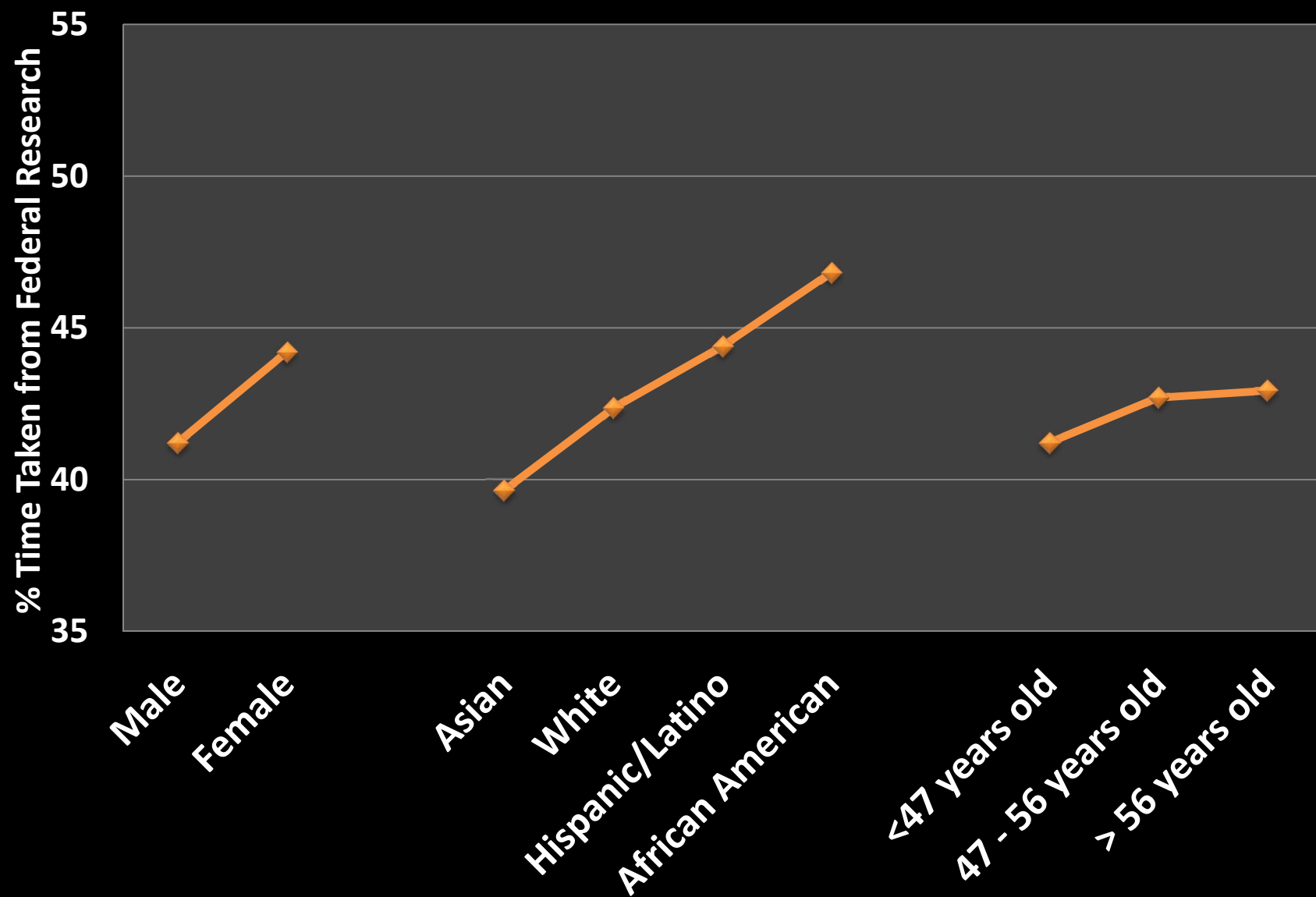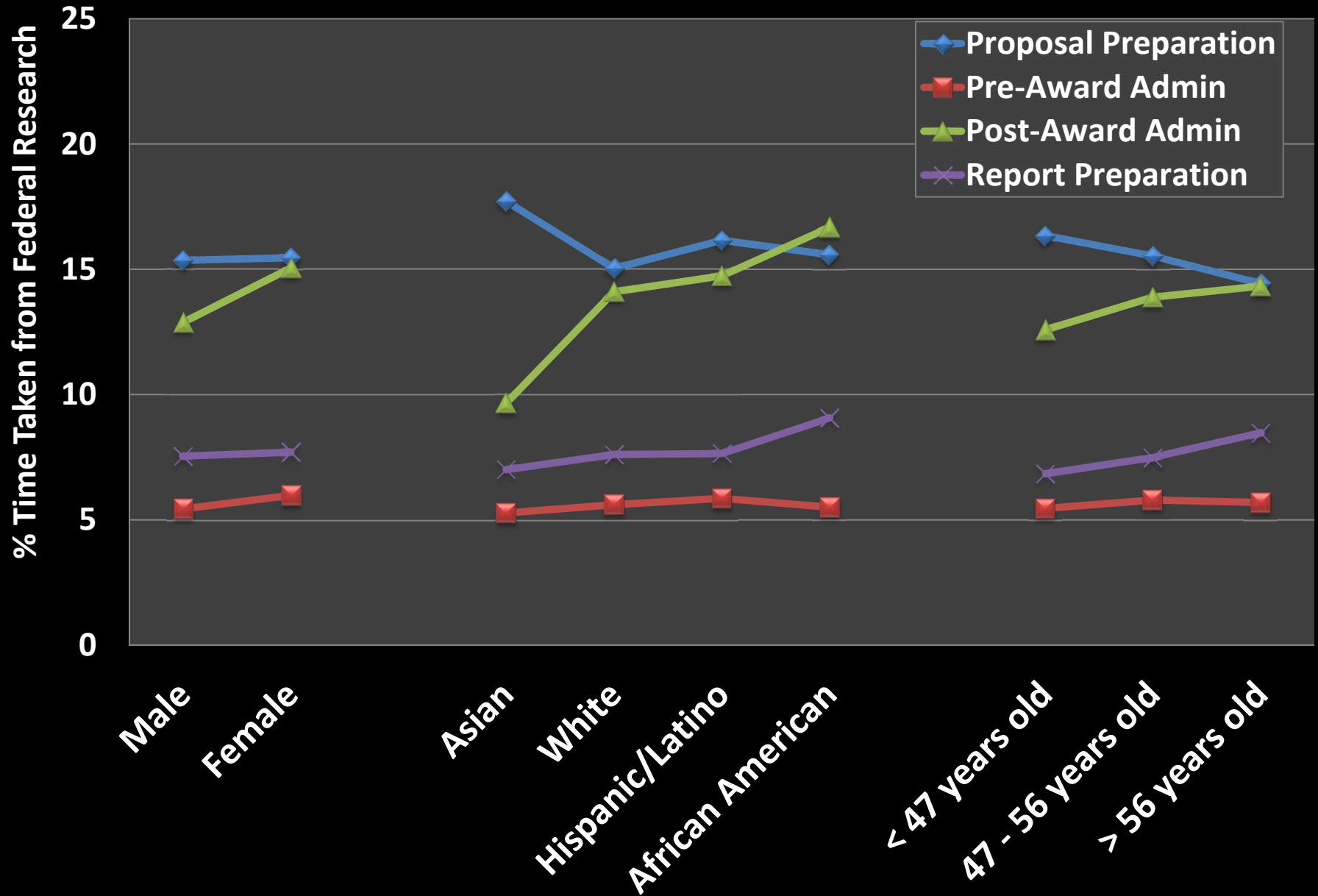
% Time Taken from Federal Research

55

50

45

40

35

Male   Female   Asian   White   Hispanic/Latino   African American   <47 years old   47 - 56 years old   > 56 years old

Differences in % Time Away by Demographics

Y-axis: % Time Taken from Federal Research

Legend:
- Proposal Preparation
- Pre-Award Admin
- Post-Award Admin
- Report Preparation

X-axis categories: Male, Female, Asian, White, Hispanic/Latino, African American, < 47 years old, 47 - 56 years old, > 56 years old

Question: What factors are associated with higher and lower levels of administrative responsibilities?

In no area is time taken away from research less than 35% and often it is over 50%.

Factors associated with greater federal administrative responsibility include:
- Non-professor positions
- Administrative appointments
- Service, Training, Curriculum and other non-research-focused projects
- Higher combined direct costs; more projects
- Smaller, non-doctoral or specific focus institutions
- Smaller funding agencies
- Females; Hispanic/Latino or African American

Question: What factors are associated with higher and lower levels of administrative responsibilities?

Differences in post-award administrative responsibilities, and to a lesser degree, report preparation account for most differences in administrative responsibilities.

Proposal preparation tends to reliably account for about 15% of federal research time, while pre-award administration hovers around 6%.

Identifying Administrative Workload Profiles

Principal Components Analysis:
- Method of identifying shared variance among subgroups
- Goal: To find subgroups who share the same kinds of responsibilities → have the same Workload Profile
- Tested across 20 administrative responsibilities
- 5 components were selected based on the coherence of results and increments in variance accounted for by additional components
- All Eigenvalues > 1
- Total variance accounted for: 53%

Search for Administrative Workload Profiles

To what extent do different types of administrative workload cluster together?

Are there identifiable groups of researchers who share the same group of administrative responsibilities?

Identifying Administrative Workload Profiles

Principal Components Analysis:
- Method of identifying shared variance among subgroups
- Goal: To find subgroups who share the same kinds of responsibilities; → have the same Workload Profile
- Applied across 20 administrative responsibilities
- 5 components were selected based on the coherence of results and increments in variance accounted for by additional components
- All Eigenvalues > 1
- Total variance accounted for: 53%

Identifying Administrative Workload Profiles

Common Responsibilities:

   Relatively Few

   PF&E (Personnel, Finances, and Effort Reporting)

Targeted Responsibilities (all include PF&E <u>plus</u>):

   General Compliance

   Animals & Safety

   Human Subjects

   Contractual

   National Security (n < 50)

Multiple Areas of Responsibility

   Include National Security

   Two Areas (not including National Security)

   > 2 Areas (not including National Security)

% Experiencing Responsibilities Within Responsibility Profile (identified by Principal Components Anal.)

	Responsibility Profile -->	None or Few	PF&E (Pers., Finance, & Effort R.)	
	Administrative Responsibility	757	3402	
PF&E	Personnel	15.3%	84.8%	
	Finance	25.5%	93.9%	
	Effort Reporting	25.5%	84.9%	
Genl Compliance	COI	25.9%	39.7%	
	RCR	19.3%	30.1%	
	Data Sharing	20.2%	31.3%	
	Cross-Agency Difs.	2.2%	7.7%	
Animals & Safety	Gen Lab Safety	18.6%	30.5%	
	Chem Safety	12.3%	21.5%	
	Biosafety	2.5%	4.1%	
	IACUC	3.4%	4.7%	
	Recomb. DNA	1.3%	1.0%	
	Radiation Safety	3.0%	5.6%	
	Controlled Substance	0.5%	0.7%	
Human Subjects	IRB	19.8%	31.4%	
	HIPAA	2.4%	1.9%	
	Clinical Trials	0.3%	0.1%	
Contractual	Sub-contracts	11.5%	26.4%	
	Intellec. Prop.	9.9%	11.4%	
	ARRA	9.1%	10.7%	
National Security	Export Controls	5.8%	9.2%	
	Select Agents	0.1%	0.2%	
	Prot Crit Infrastr	0.0%	0.0%	

% Experiencing Responsibilities Within Responsibility Profile (identified by Principal Components Anal.)

|	Responsibility Profile -->	None or Few	PF&E (Pers., Finance, & Effort R.)	General Compliance	Animals & Safety	Human Subjects	Contract
	Administrative Responsibility	757	3402	1093	1668	1691	920
PF&E	Personnel	15.3%	84.8%	89.6%	87.9%	88.5%	87.6%
	Finance	25.5%	93.9%	92.5%	86.2%	88.9%	92.0%
	Effort Reporting	25.5%	84.9%	90.6%	79.1%	82.7%	82.6%
Genl Compliance	COI	25.9%	39.7%	93.7%	54.7%	72.2%	46.5%
	RCR	19.3%	30.1%	86.6%	59.5%	65.5%	32.1%
	Data Sharing	20.2%	31.3%	92.9%	36.5%	35.1%	42.7%
	Cross-Agency Difs.	2.2%	7.7%	48.0%	7.1%	13.1%	15.0%
Animals & Safety	Gen Lab Safety	18.6%	30.5%	45.7%	99.2%	16.2%	44.0%
	Chem Safety	12.3%	21.5%	35.1%	96.4%	4.1%	30.9%
	Biosafety	2.5%	4.1%	6.5%	88.4%	20.3%	5.9%
	IACUC	3.4%	4.7%	5.1%	69.2%	4.9%	3.4%
	Recomb. DNA	1.3%	1.0%	1.6%	65.6%	0.9%	1.6%
	Radiation Safety	3.0%	5.6%	7.9%	43.6%	4.6%	7.5%
	Controlled Substance	0.5%	0.7%	0.8%	33.3%	2.7%	1.6%
Human Subjects	IRB	19.8%	31.4%	35.5%	17.6%	99.8%	29.1%
	HIPAA	2.4%	1.9%	8.9%	14.5%	93.6%	3.0%
	Clinical Trials	0.3%	0.1%	0.0%	0.3%	41.3%	0.2%
Contractual	Sub-contracts	11.5%	26.4%	41.9%	22.8%	60.4%	89.0%
	Intellec. Prop.	9.9%	11.4%	25.4%	29.2%	14.0%	71.6%
	ARRA	9.1%	10.7%	11.0%	26.7%	25.7%	55.0%
National Security	Export Controls	5.8%	9.2%	15.2%	4.2%	1.3%	26.1%
	Select Agents	0.1%	0.2%	0.1%	4.4%	0.3%	0.3%
	Prot Crit Infrastr.	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%

% Experiencing Responsibilities Within Responsibility Profile (identified by Principal Components Anal.)

	Responsibility Profile -->	None or Few	PF&E (Pers., Finance, & Effort R.)	General Compliance	Animals & Safety	Human Subjects	Contract	Include Natl Security	Two Areas	> 2 Areas
	Administrative Responsibility	757	3402	1093	1668	1691	920	1288	1335	660
PF&E	Personnel	15.3%	84.8%	89.6%	87.9%	88.5%	87.6%	93.8%	94.2%	96.2%
	Finance	25.5%	93.9%	92.5%	86.2%	88.9%	92.0%	91.9%	92.7%	92.6%
	Effort Reporting	25.5%	84.9%	90.6%	79.1%	82.7%	82.6%	90.0%	90.9%	91.7%
Genl Compliance	COI	25.9%	39.7%	93.7%	54.7%	72.2%	46.5%	81.4%	89.5%	94.2%
	RCR	19.3%	30.1%	86.6%	59.5%	65.5%	32.1%	79.1%	83.0%	90.8%
	Data Sharing	20.2%	31.3%	92.9%	36.5%	35.1%	42.7%	68.7%	77.9%	82.9%
	Cross-Agency Difs.	2.2%	7.7%	48.0%	7.1%	13.1%	15.0%	42.2%	39.4%	43.5%
Animals & Safety	Gen Lab Safety	18.6%	30.5%	45.7%	99.2%	16.2%	44.0%	94.8%	70.0%	88.0%
	Chem Safety	12.3%	21.5%	35.1%	96.4%	4.1%	30.9%	89.4%	59.0%	74.7%
	Biosafety	2.5%	4.1%	6.5%	88.4%	20.3%	5.9%	82.7%	52.7%	81.4%
	IACUC	3.4%	4.7%	5.1%	69.2%	4.9%	3.4%	68.2%	33.0%	52.9%
	Recomb. DNA	1.3%	1.0%	1.6%	65.6%	0.9%	1.6%	63.5%	36.3%	50.6%
	Radiation Safety	3.0%	5.6%	7.9%	43.6%	4.6%	7.5%	60.5%	30.3%	47.6%
	Controlled Substance	0.5%	0.7%	0.8%	33.3%	2.7%	1.6%	53.0%	14.0%	20.8%
Human Subjects	IRB	19.8%	31.4%	35.5%	17.6%	99.8%	29.1%	41.7%	54.0%	81.5%
	HIPAA	2.4%	1.9%	8.9%	14.5%	93.6%	3.0%	41.8%	46.9%	78.2%
	Clinical Trials	0.3%	0.1%	0.0%	0.3%	41.3%	0.2%	12.4%	17.6%	41.1%
Contractual	Sub-contracts	11.5%	26.4%	41.9%	22.8%	60.4%	89.0%	56.3%	66.8%	81.7%
	Intellec. Prop.	9.9%	11.4%	25.4%	29.2%	14.0%	71.6%	72.4%	67.4%	80.6%
	ARRA	9.1%	10.7%	11.0%	26.7%	25.7%	55.0%	34.1%	39.7%	69.7%
National Security	Export Controls	5.8%	9.2%	15.2%	4.2%	1.3%	26.1%	47.5%	18.4%	14.1%
	Select Agents	0.1%	0.2%	0.1%	4.4%	0.3%	0.3%	54.5%	1.0%	0.6%
	Prot Crit Infrastr	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	23.5%	0.0%	0.0%

Question: How typical are the various administrative workload profiles?

Prevalence of Administrative Workload Profiles
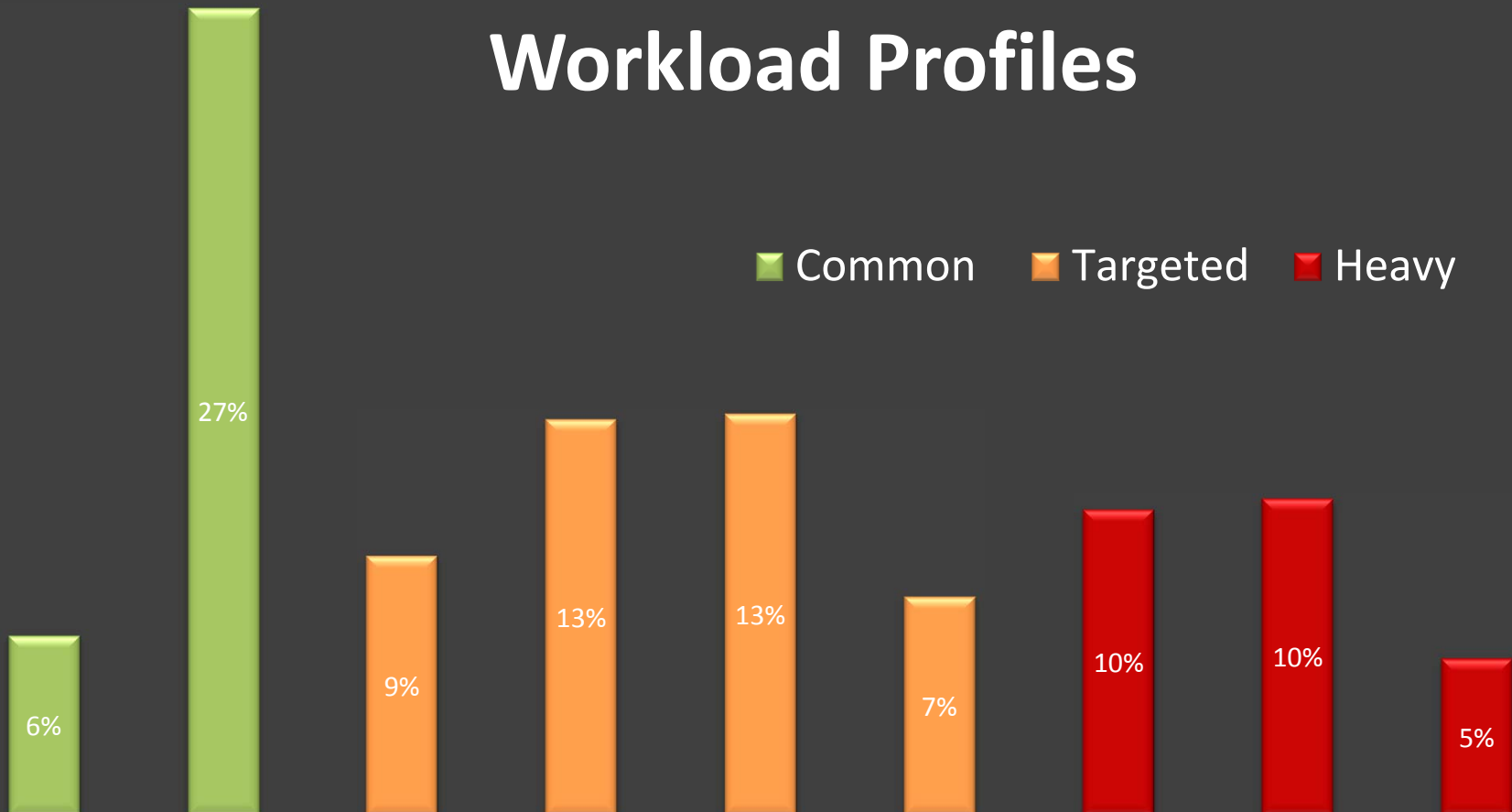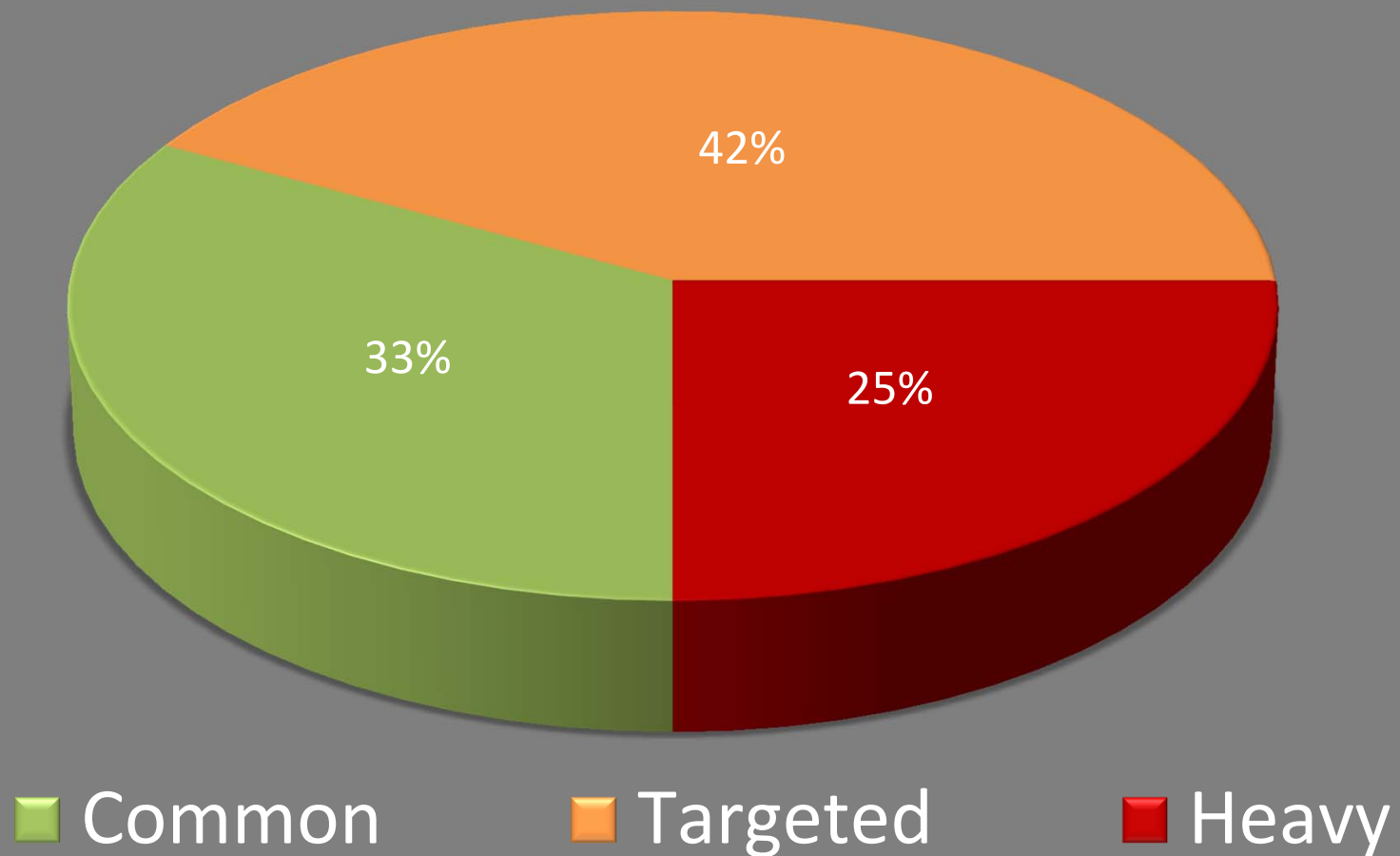
Legend: ■ Common ■ Targeted ■ Heavy

Common 33%		Targeted 42%				Heavy 25%		
Relatively Few	Mostly PF&E	General Compliance	Animals & Safety	Human Subjects	Contractual	Include Natl Security	Two Areas	Multiple Areas
6%	27%	9%	13%	13%	7%	10%	10%	5%

Administrative Workload Profiles Summary

42%

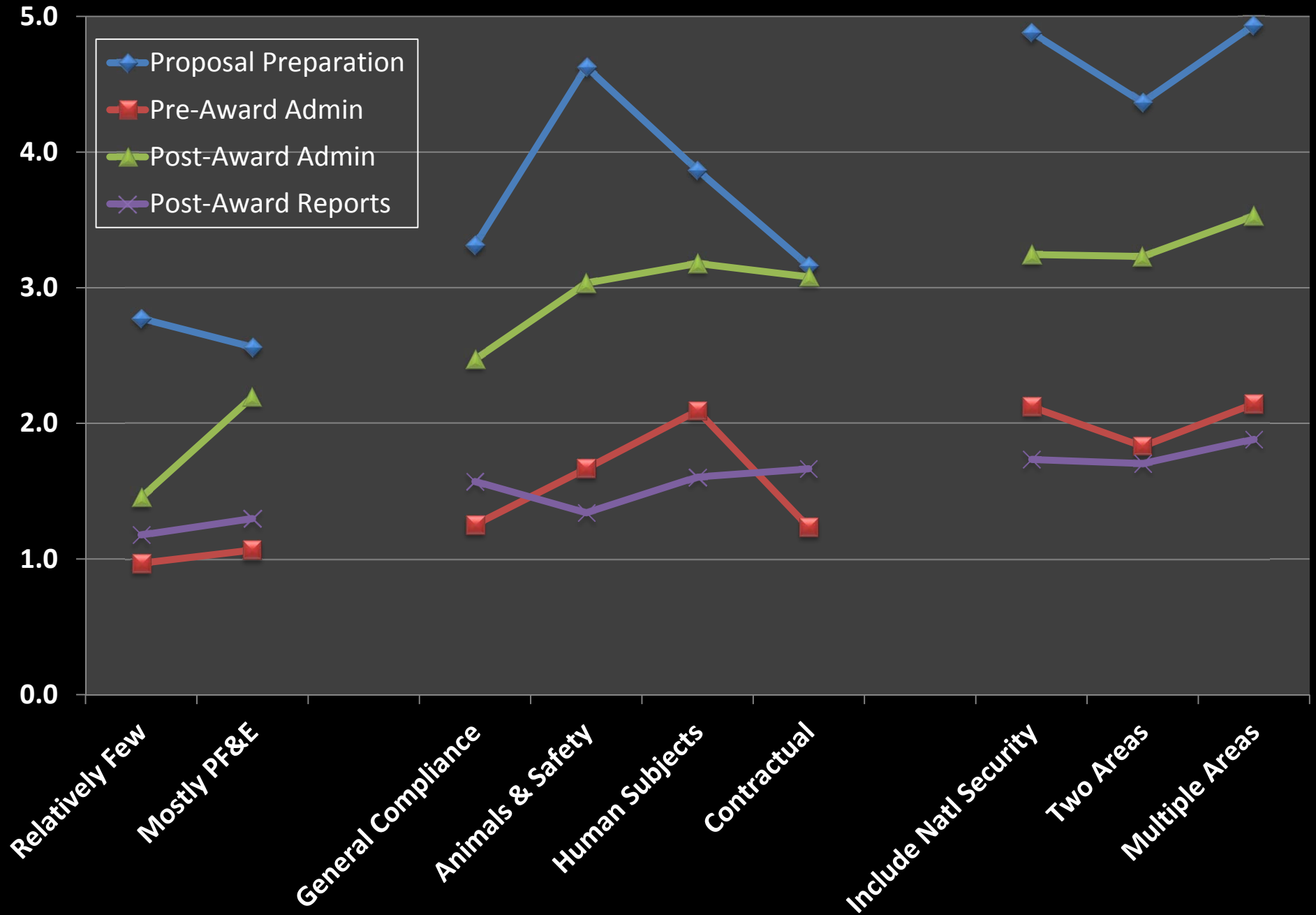33%

25%

■ Common   ■ Targeted   ■ Heavy

Question: What are the administrative workload implications of having a particular profile? To what extent does having multiple targeted workload areas influence overall administrative workload?

Average Weekly % Research Time Spent on Administrative Responsibilities
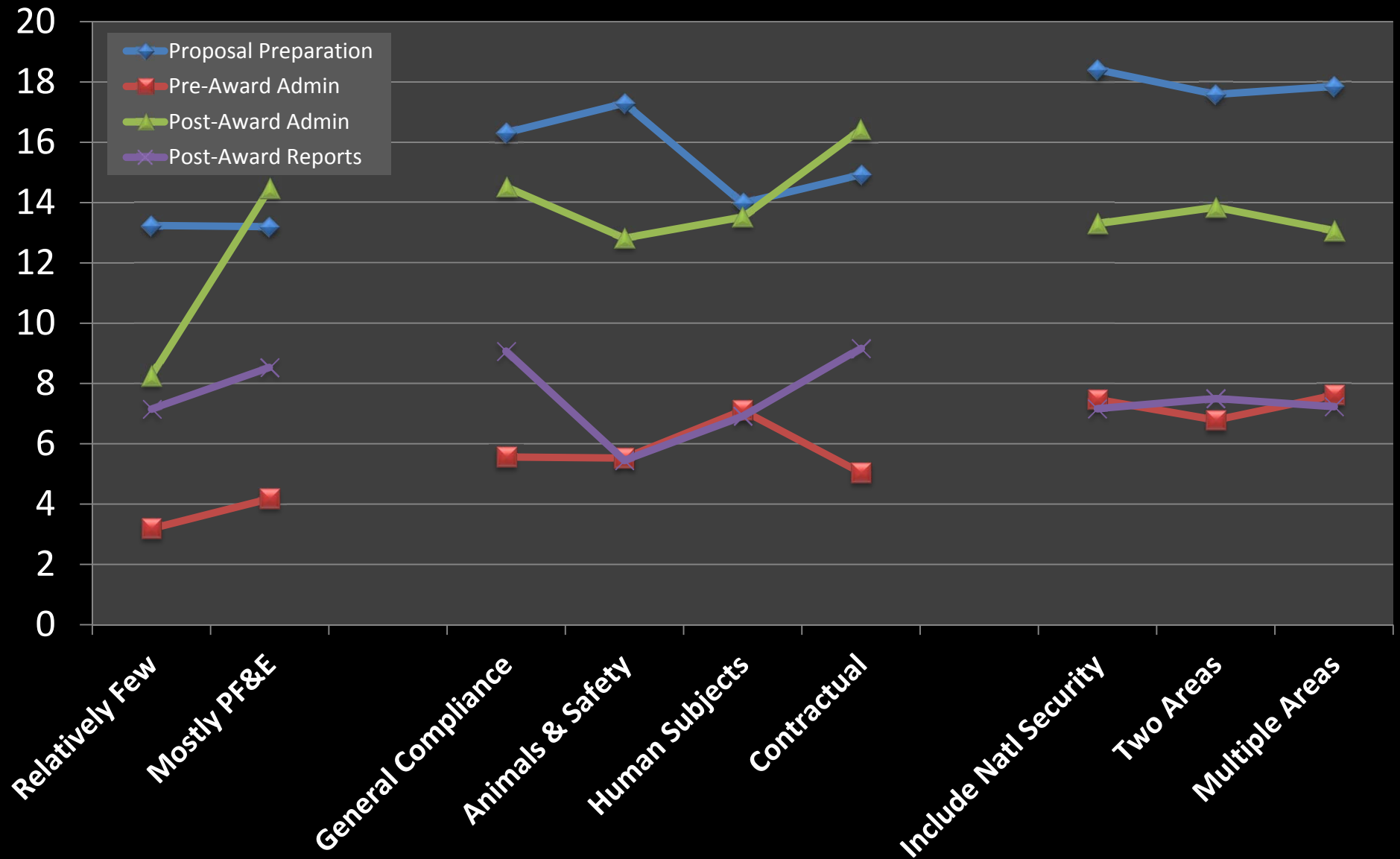
Average Weekly Hours Spent on Administrative Responsibilities

Legend:
- Proposal Preparation
- Pre-Award Admin
- Post-Award Admin
- Post-Award Reports

Y-axis: 0.0, 1.0, 2.0, 3.0, 4.0, 5.0

X-axis categories: Relatively Few, Mostly PF&E, General Compliance, Animals & Safety, Human Subjects, Contractual, Include Natl Security, Two Areas, Multiple Areas

Question: What are the administrative workload implications of having a particular profile? To what extent does having multiple targeted workload areas influence overall administrative workload?

There are differences in workload for different targeted areas, although proposal preparation and post-award administration tend to take more time than pre-award administration and report preparation in all areas.

Multiple targeted workload areas are associated with higher time commitments in most areas, though some differences tend to be larger than others. Proposal preparation time increases are especially large.

Question: To what extent do PIs feel they could benefit from additional administrative assistance?

Estimated Average % Reduction in Time Away from Research with Additional Administrative Assistance
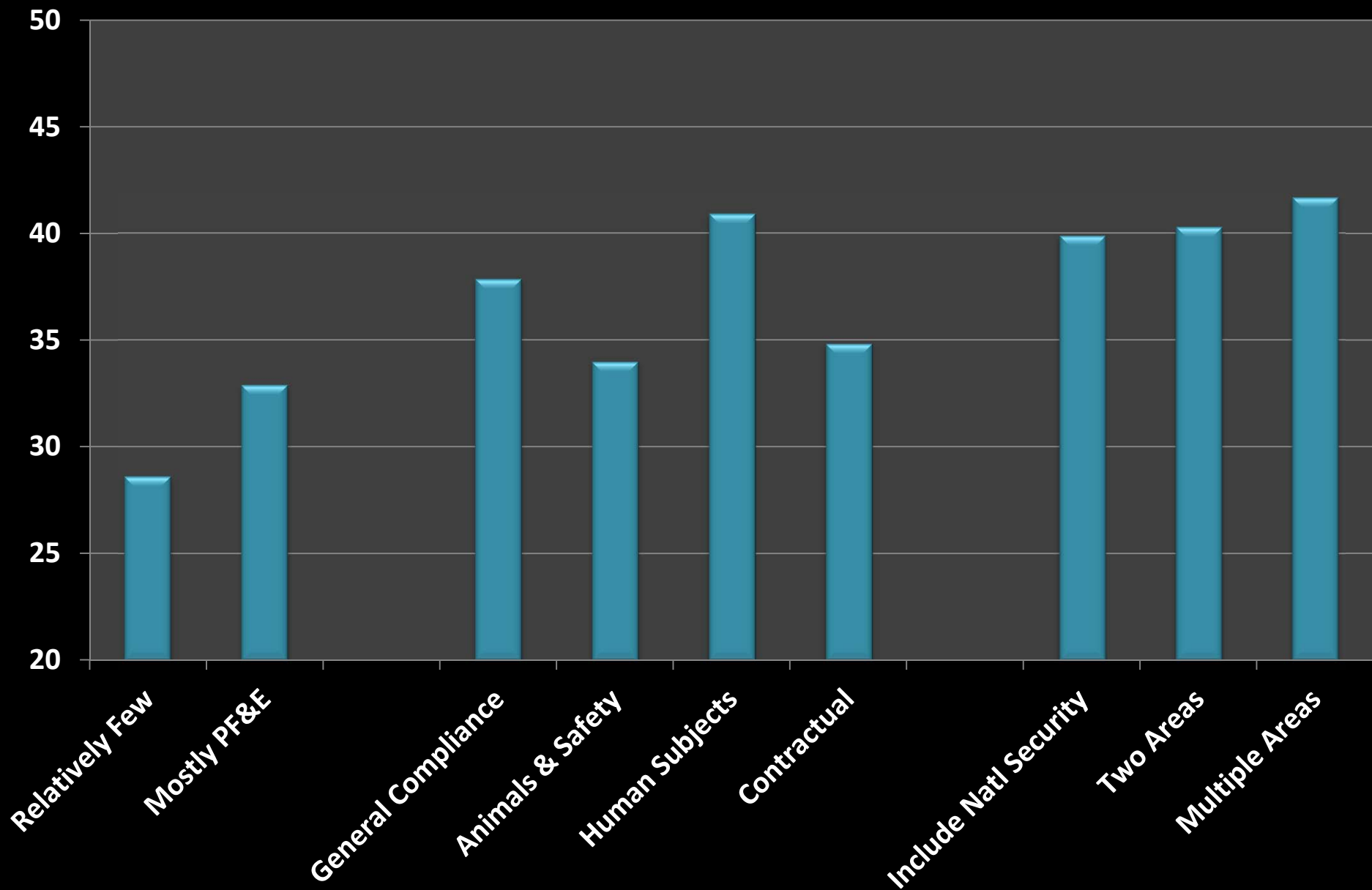
Question: To what extent do PIs feel they could benefit from additional administrative assistance?
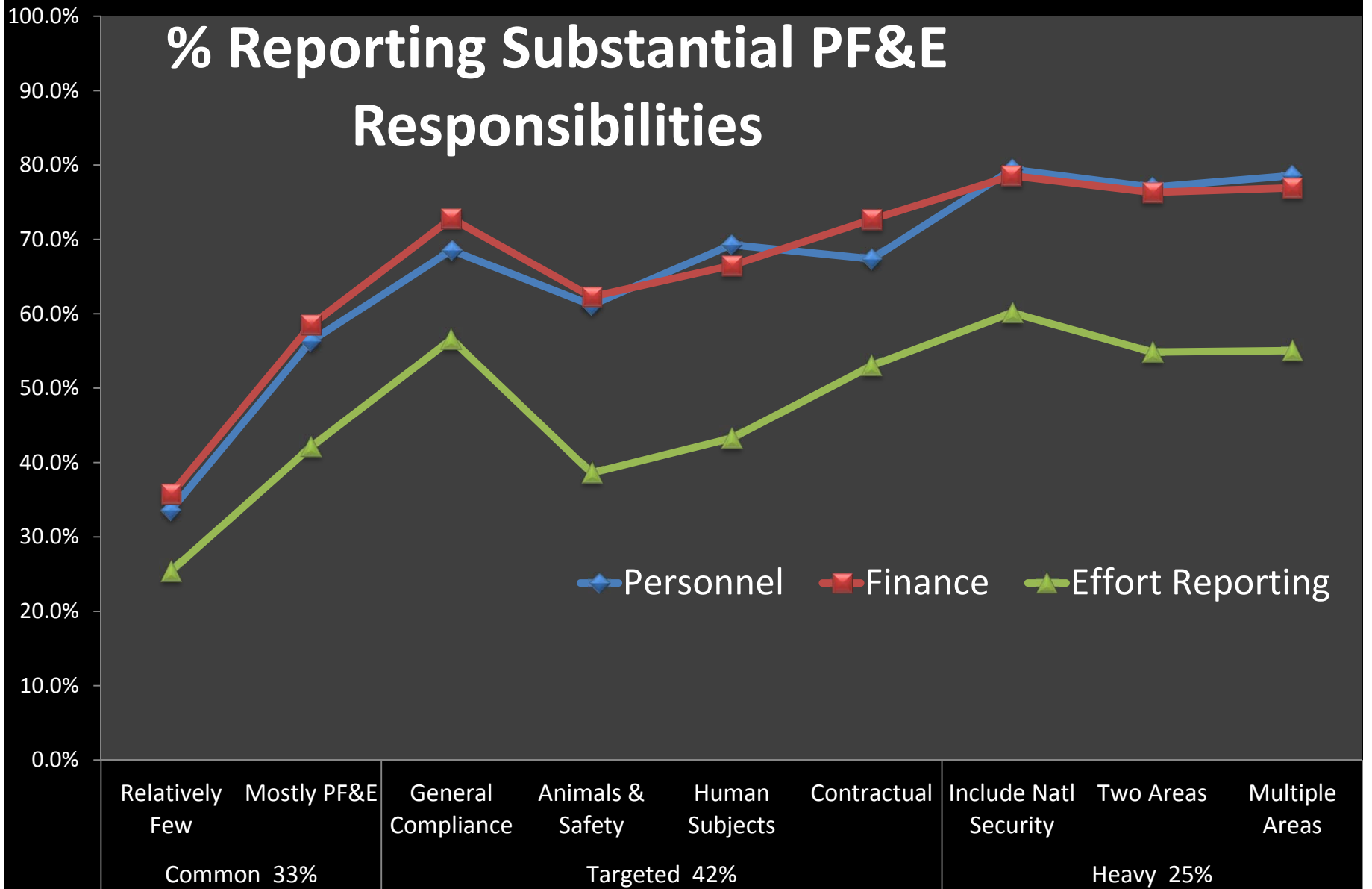
PIs estimate that they could reduce their time away from research from approximately 25-40% with additional assistance. Generally, the greater the time away from research, the larger the estimated potential reduction.

Those experiencing targeted General Compliance or Human Subjects workload responsibilities estimate greater benefits from assistance than those experiencing Animals & Safety or Contractual workload responsibilities.
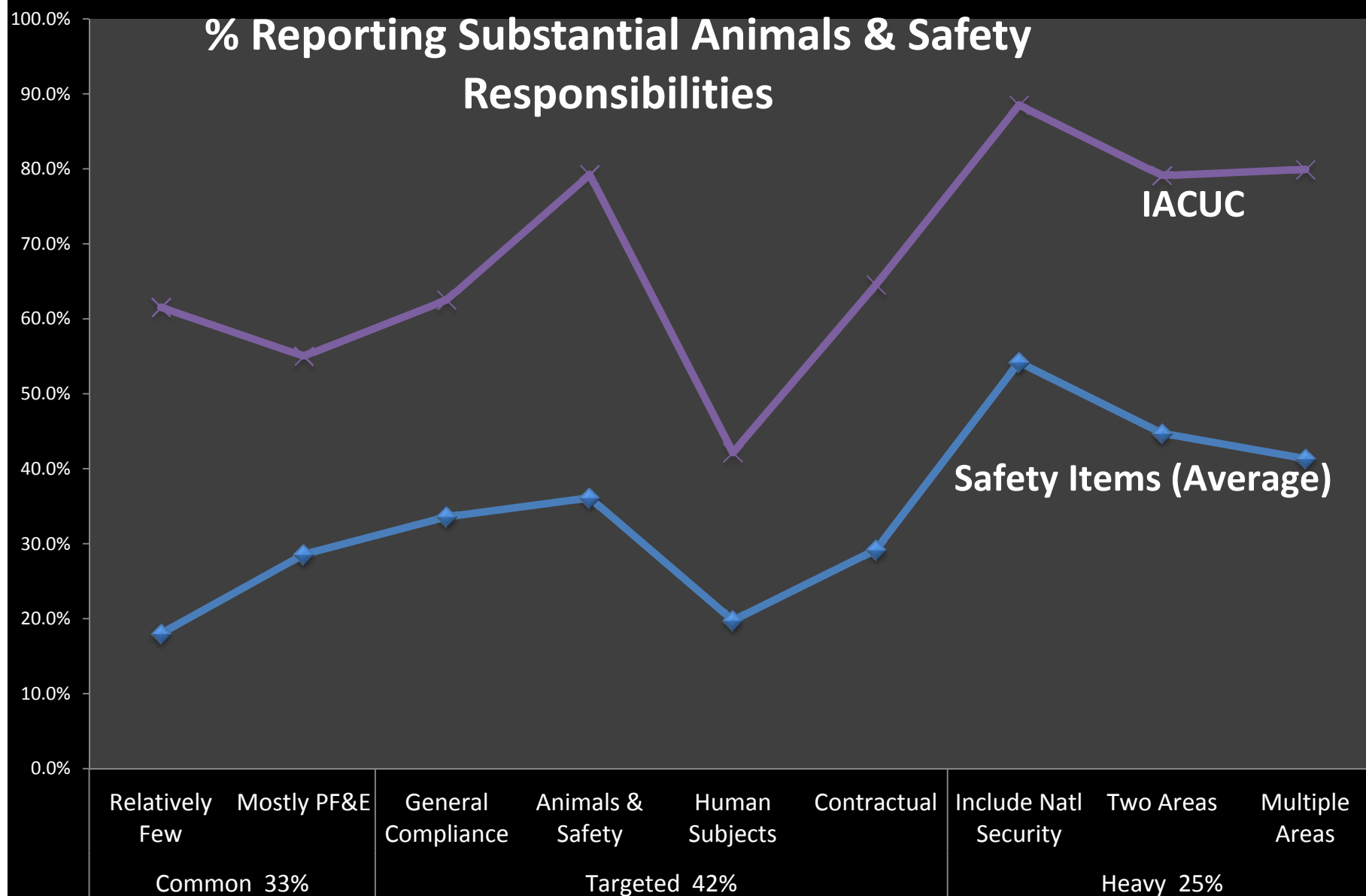
Question: Can workload profiles help us understand aspects of administrative burden?
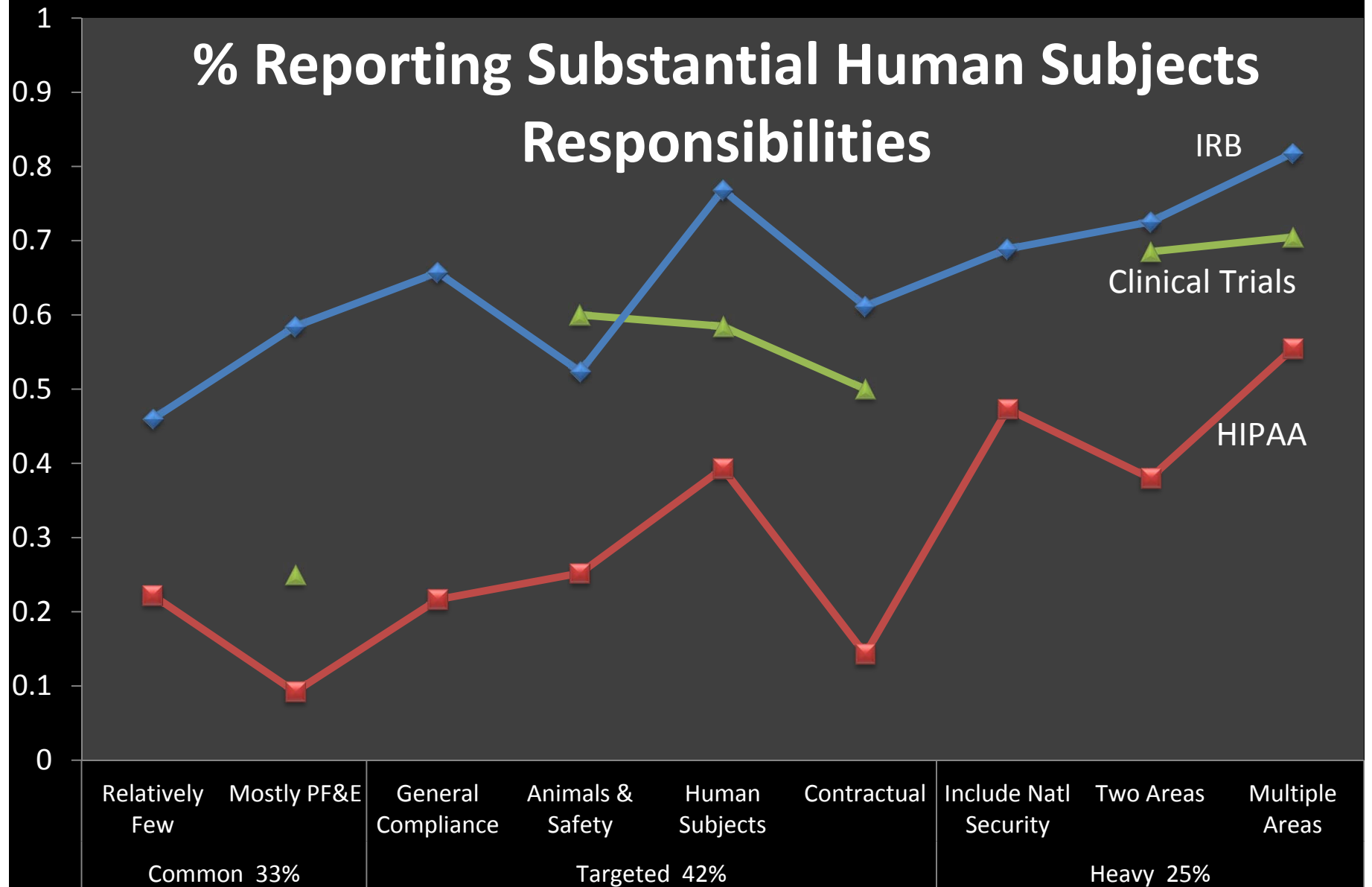
Example: Burden Intensity

% Reporting Substantial PF&E Responsibilities

Category			
Relatively Few	Mostly PF&E	General Compliance	Animals & Safety
Common 33%		Targeted 42%	

Legend: Personnel — Finance — Effort Reporting

Human Subjects · Contractual · Include Natl Security · Two Areas · Multiple Areas

Heavy 25%

% Reporting Substantial Animals & Safety Responsibilities

	IACUC	Safety Items (Average)
Relatively Few	61%	18%
Mostly PF&E	55%	28%
General Compliance	62%	33%
Animals & Safety	79%	36%
Human Subjects	42%	20%
Contractual	64%	29%
Include Natl Security	89%	54%
Two Areas	79%	45%
Multiple Areas	80%	41%

Common 33%   Targeted 42%   Heavy 25%

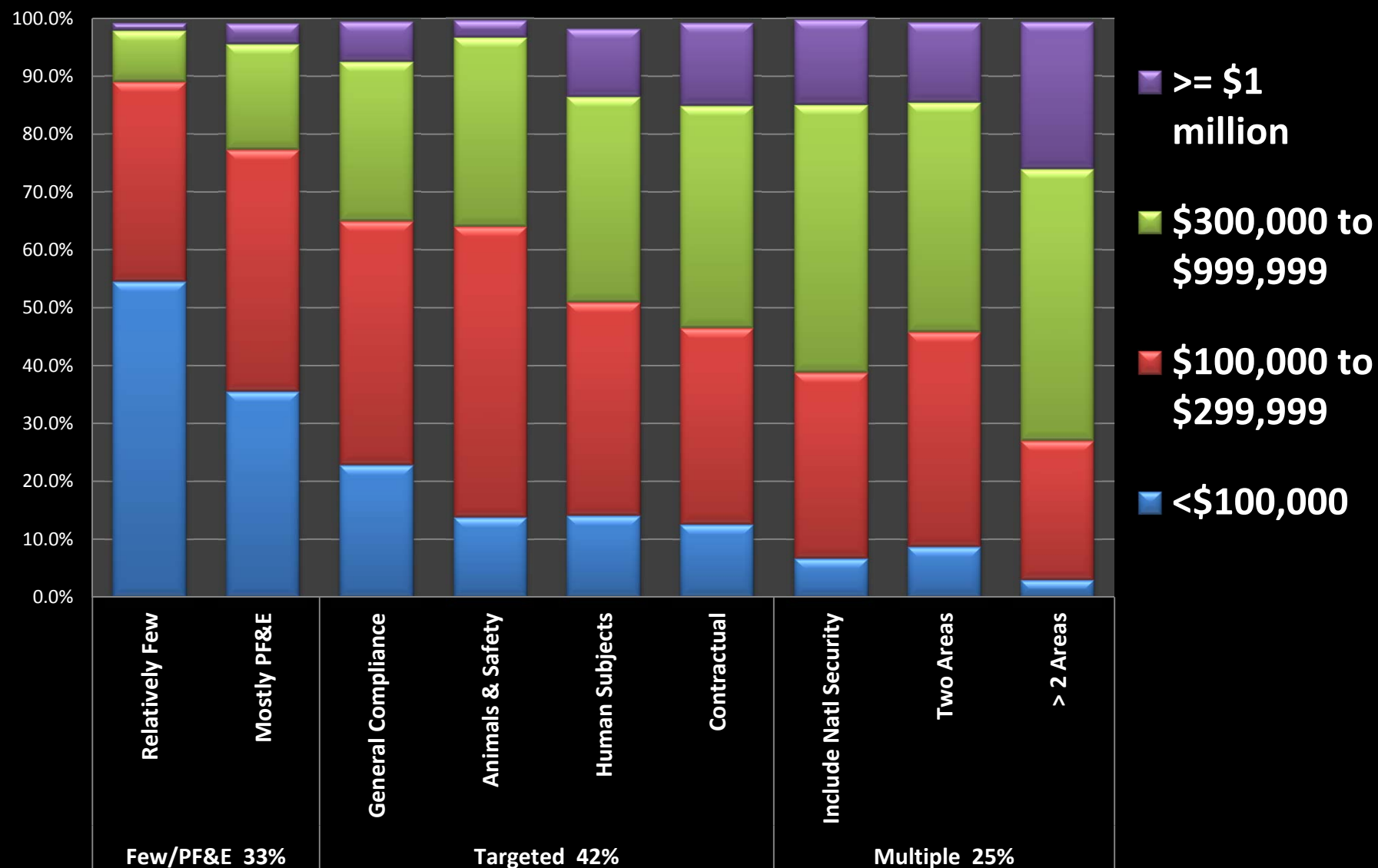% Reporting Substantial Human Subjects Responsibilities

Question: **Can workload profiles help us understand aspects of administrative burden?**
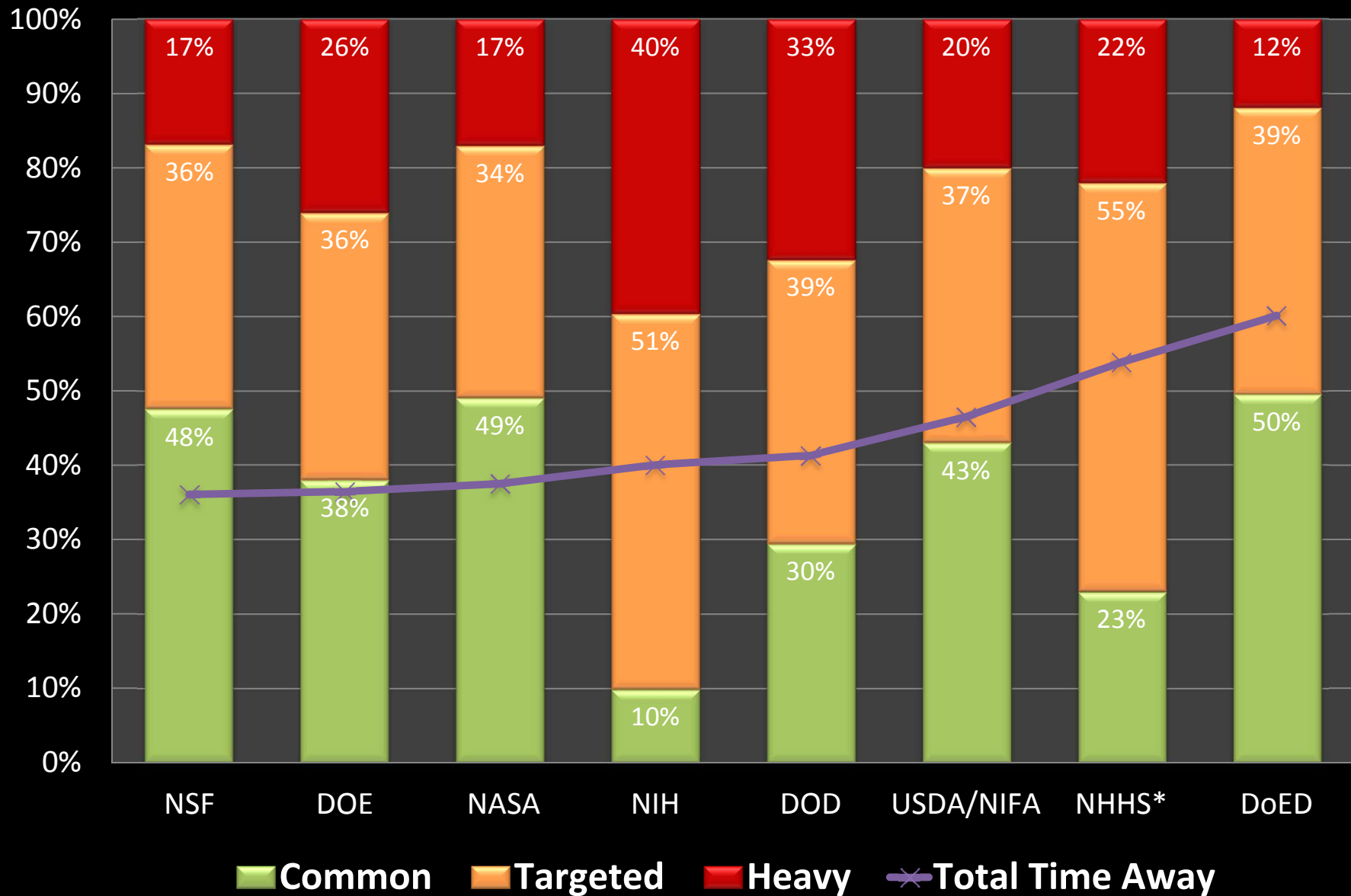
Example: Total Direct Costs

Annual Combined Direct Costs

Question: **Can workload profiles help us understand aspects of administrative burden?**

Example: **Funding Agencies**

Admin. Workload Profiles by Funding Agency

Agency	Common	Targeted	Heavy	Total Time Away
NSF	48%	36%	17%	36%
DOE	38%	36%	26%	37%
NASA	49%	34%	17%	37%
NIH	10%	51%	40%	40%
DOD	30%	39%	33%	41%
USDA/NIFA	43%	37%	20%	46%
NHHS*	23%	55%	22%	54%
DoED	50%	39%	12%	60%

Question: Can workload profiles help us understand aspects of administrative burden?

Example: Institution Type

Rough Ordering of Lowest to Highest Time Away:
- VHR Private
- Indep. Research Institutes
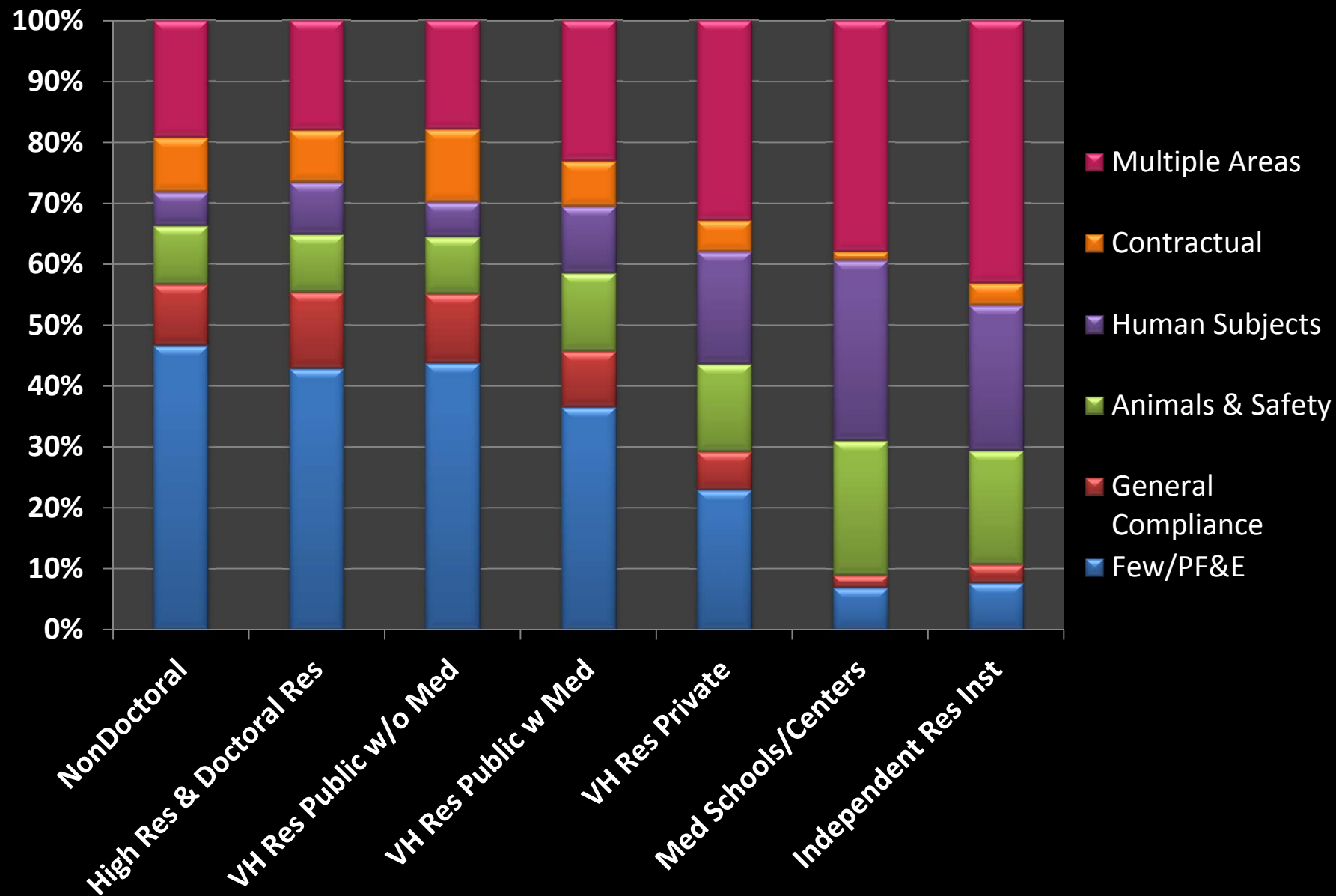- VHR Public
- Special Focus – Medical
- HR & DR
- Non-Doctoral

Distribution of Workload Profiles Across Institution Type

Question: **Can workload profiles help us understand aspects of administrative burden?**

There are many areas in which additional analysis are likely to bring further insight.

Question: What about the general opinions of PIs about the current research/regulation climate?

Sample Research Workload Opinion Items	2012 %Agree
Administrative workload associated with federally-funded research grants has increased in the last 5 or 6 years.	68%
The federally-mandated requirements for research accomplish their intended goals.	26%
The time spent meeting federal requirements for research provides benefit worth the cost.	21%
Because of research administrative workload, I am generally less willing to submit federal grant proposals than in the past.	26%
When I have questions about federal regulations related to research, obtaining answers is straightforward.	21%

Question: Anything else…?

A Missing Piece…

How does PI administrative workload relate to an institution's research administration resources (personnel, systems, policies and practices)?

Example: ARRA reporting impact on PIs

Preliminary next step:
- **Access data from *2010-11 FDP ARRA Administrative Impact Survey***
- **Correlate reported institutional investments in ARRA-related research administration (time and money) with FWS-reported impact of ARRA reporting on faculty workload.**

Example Next Steps:

Question: How does IRB-related administrative workload differ across Exempt, Expedited, and Full Review research projects? Medical versus non-medical research?

Question: How does IACUC-related administrative workload differ across projects requiring different species? Medical versus non-medical research?

Concluding Comments

Goals of the FWS:
- To increase the likelihood of efficient and effective demonstration projects
- Provide information to FDP and federal agencies to facilitate targeted reduction of administrative burden

There is a wealth of information from the survey that can be used to help guide efforts in streamlining.

The FDP, with its institution and federal agency partnership, and the contributions of research administrators, technicians, federal representatives, and faculty, provides an ideal context for exploring what can be done to foster efficient and effective federally-funded research.
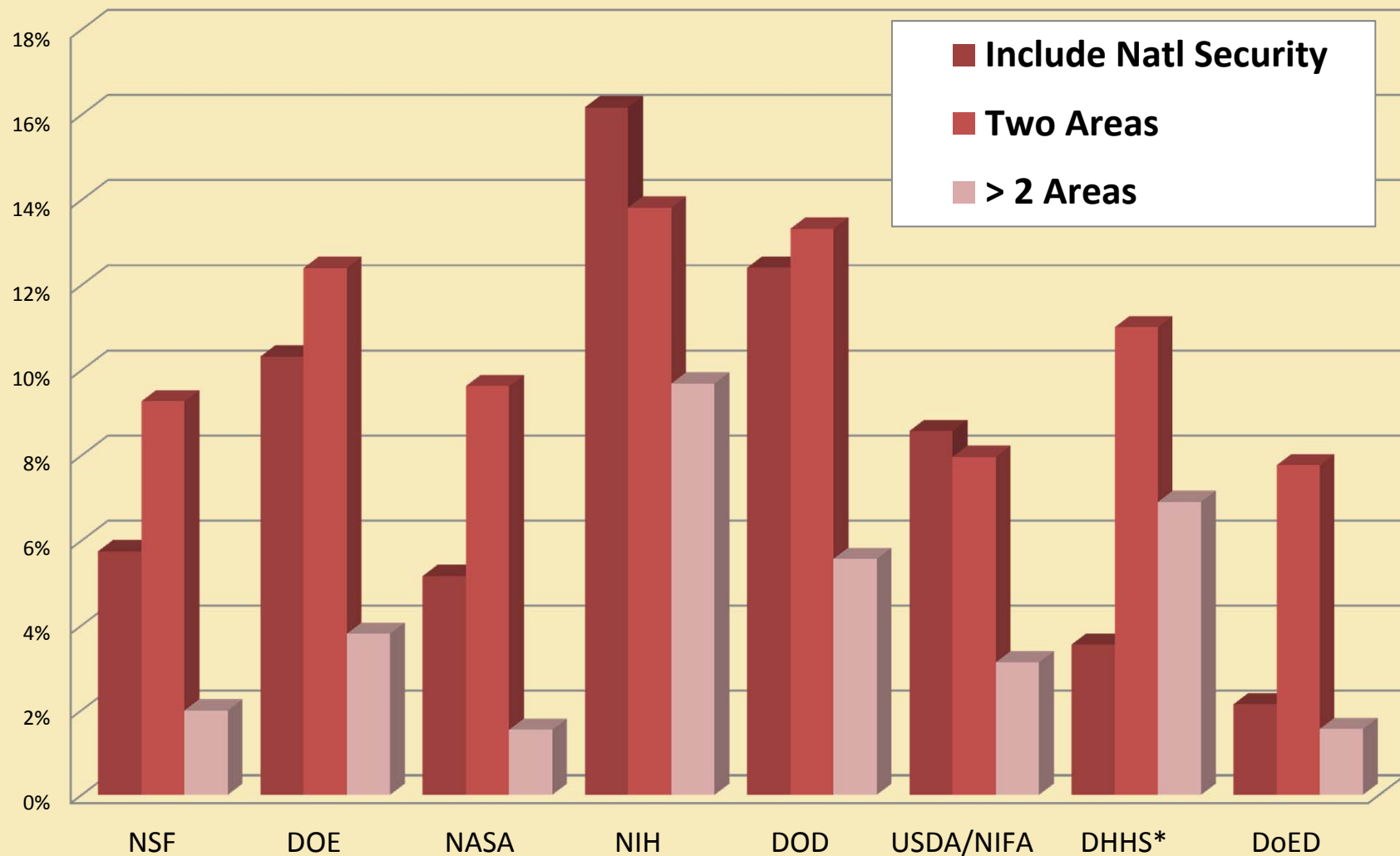
Common Responsibilities by Funding Agency
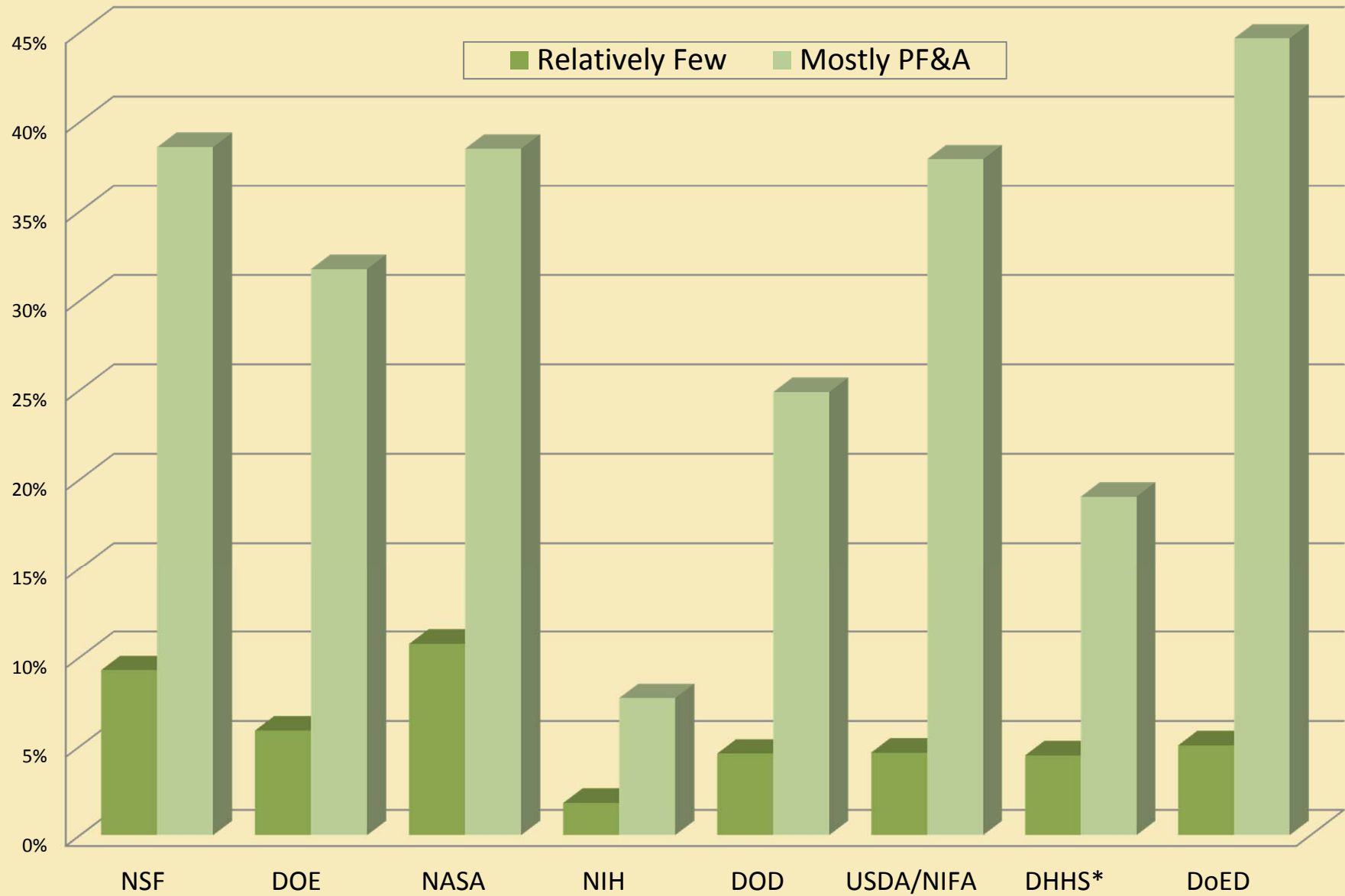
Targeted Responsibilities by Funding Agency
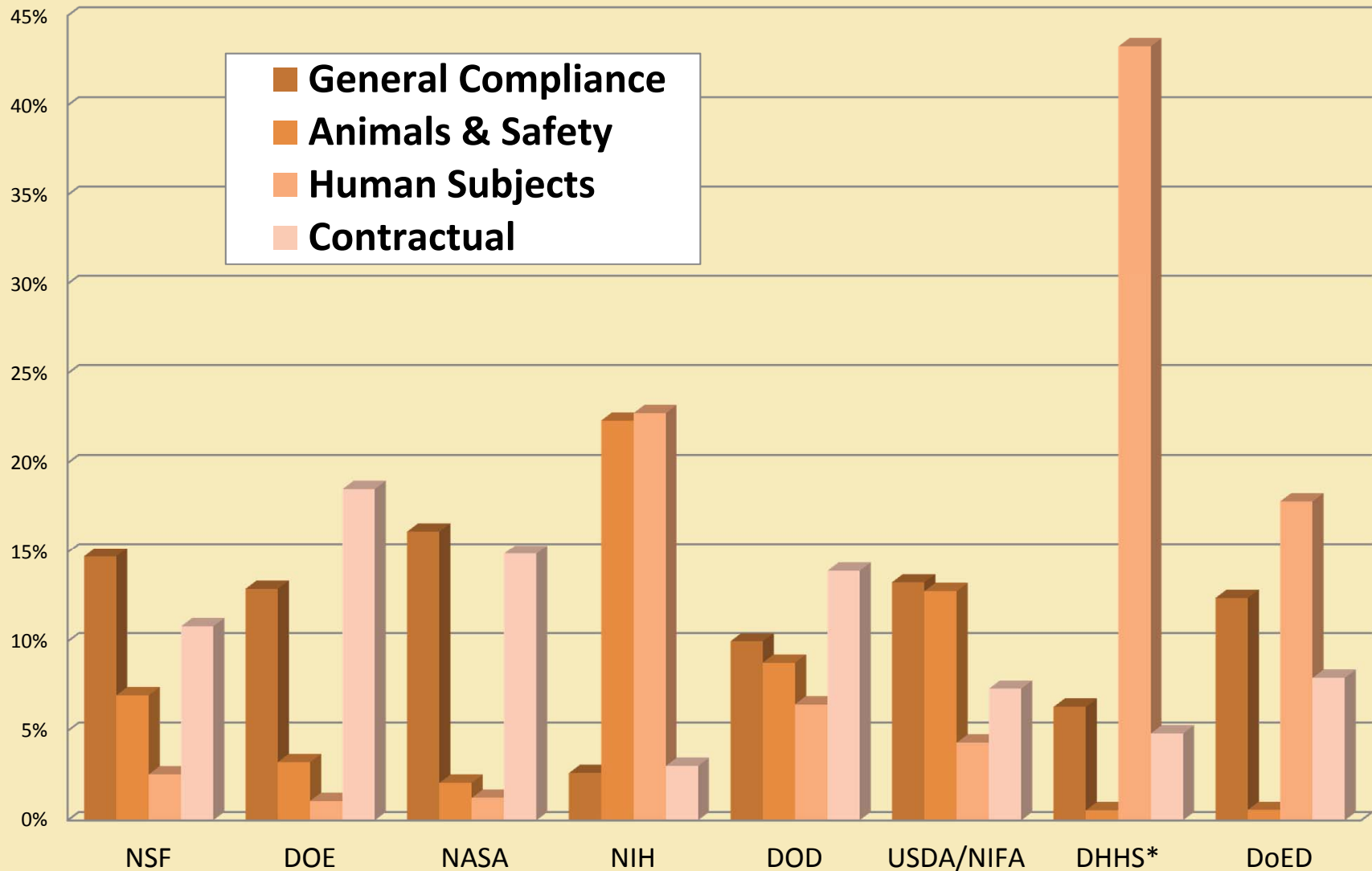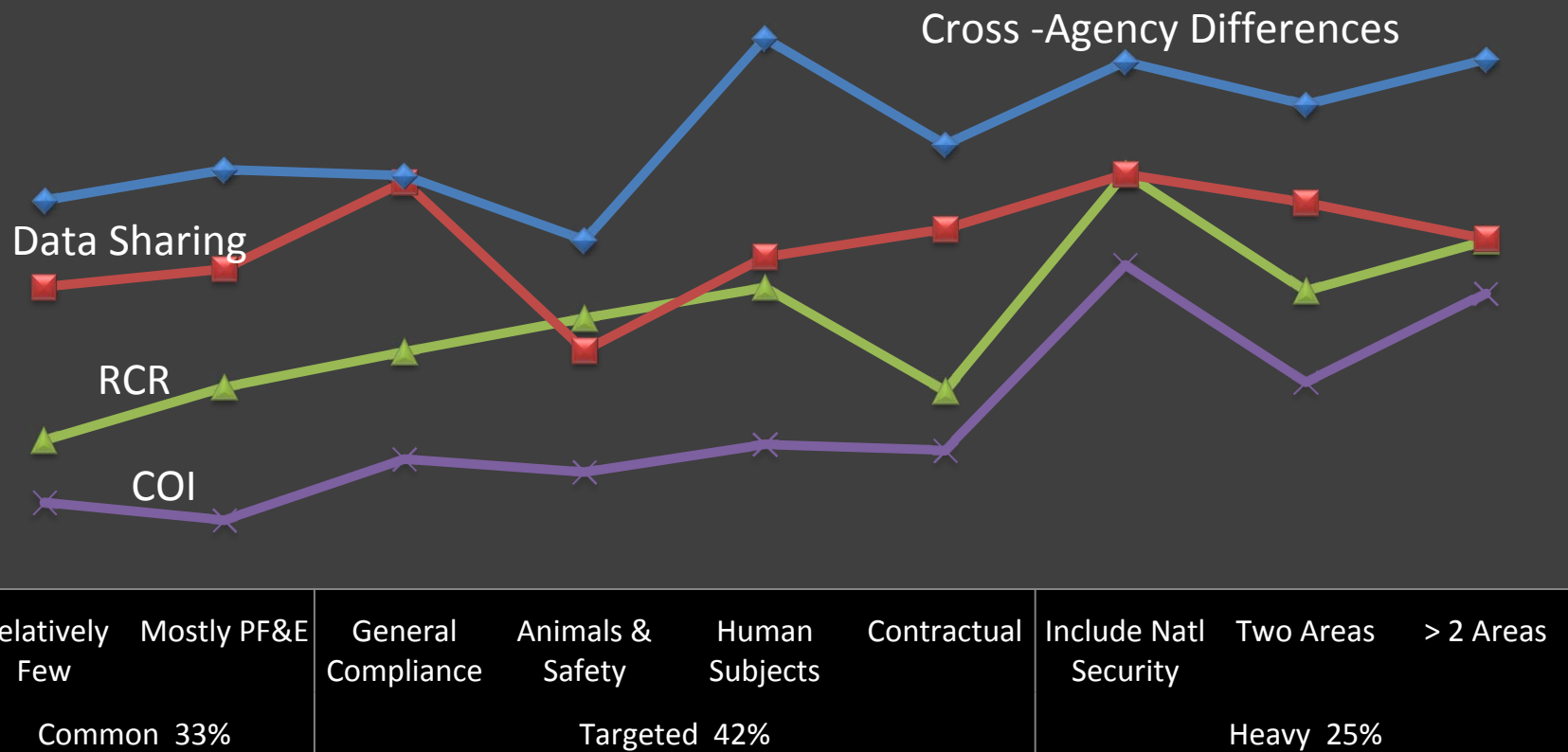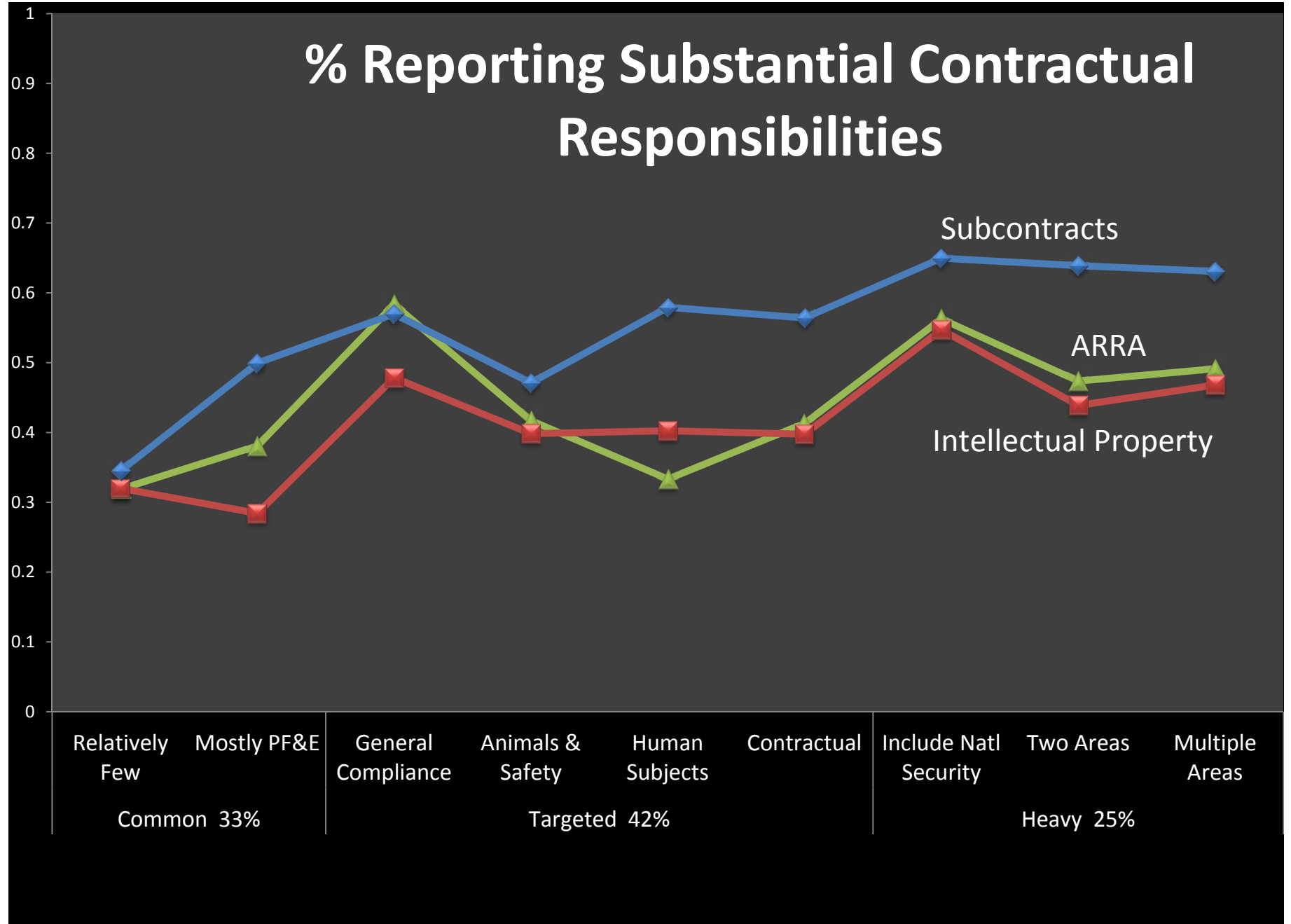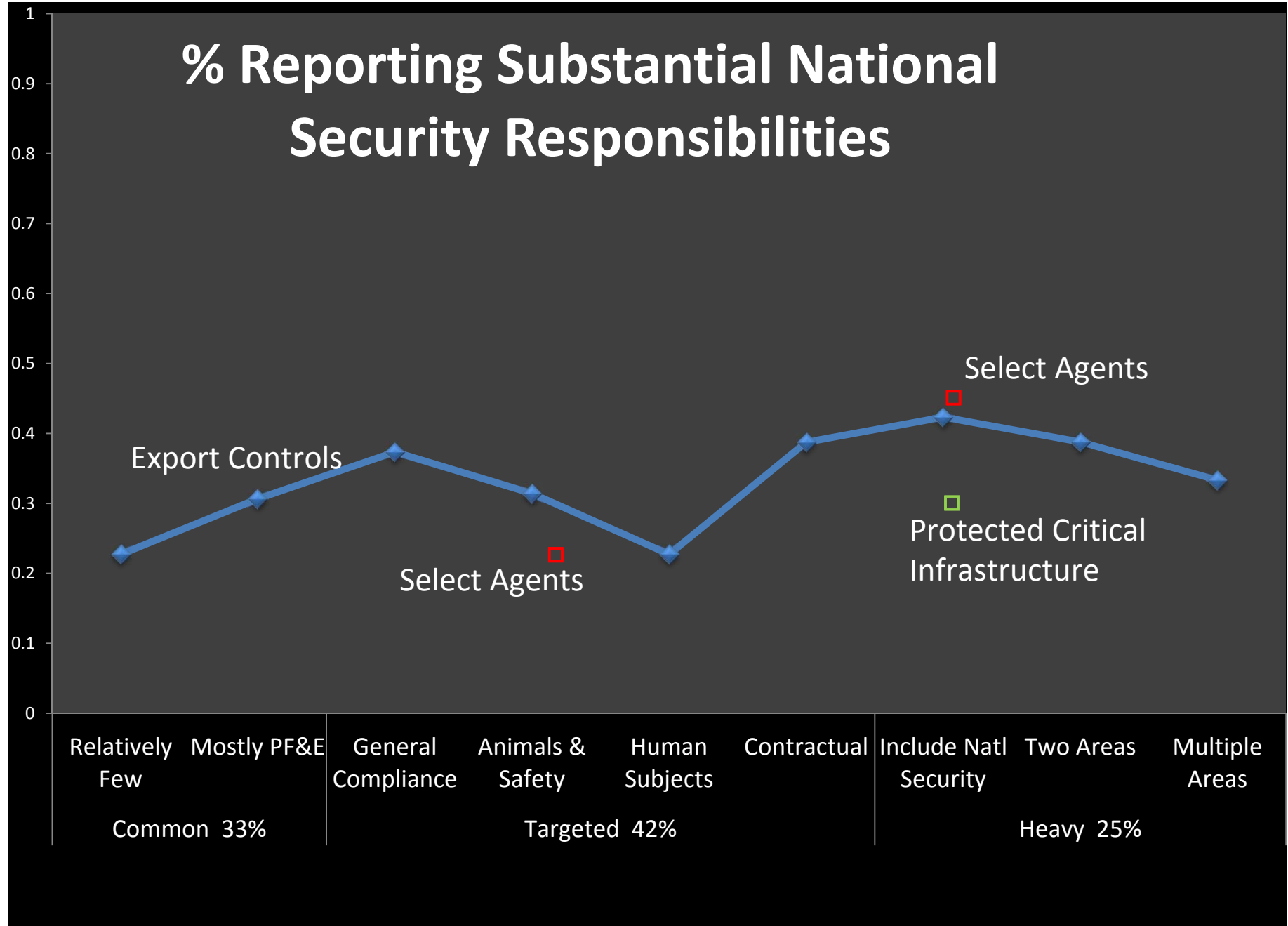
Heavy Responsibilities by Funding Agency

% Reporting Substantial General Compliance Responsibilities

% Reporting Substantial Contractual Responsibilities

% Reporting Substantial National Security Responsibilities

- Export Controls
- Select Agents
- Select Agents
- Protected Critical Infrastructure

| Relatively Few | Mostly PF&E | General Compliance | Animals & Safety | Human Subjects | Contractual | Include Natl Security | Two Areas | Multiple Areas |

Common 33%   Targeted 42%   Heavy 25%

Rank

Few/PF&E 33%   Targeted 42%   Multiple 25%

Legend: Professor, Associate professor, Assistant professor, Other

X-axis categories: Relatively Few, Mostly PF&E, General Compliance, Animals & Safety, Human Subjects, Contractual, Include Natl Security, Two Areas, > 2 Areas