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IT Modernization Initiatives at NSF

**National Science Foundation
Fall Grants Conference**

Pittsburgh, PA - November 14 & 15 - Carnegie Mellon University

Agenda

- Recent Updates and Accomplishments
 - Password Management
 - Proposal Compliance Checking
 - NSF Public Access Repository
- Research.gov – Looking Ahead
 - Proposal Submission Modernization
 - Single ID Across All NSF Systems
 - Impact of NSF Move to Alexandria on IT Systems

Password Management

On August 1, 2016, NSF implemented a more convenient and secure process for resetting NSF passwords for external users of Research.gov, FastLane, and GRFP officials (*approximately 40K users as of 10/21/2016*)

Why?

- Improve user experience, reduce user calls to the Help Desk, and update technology to deliver more user-friendly features in the future

What do I need to know?

- NSF awardees and proposers will no longer be able to reach out to Sponsored Projects Offices (SPO) to reset their passwords on FastLane and Research.gov
- The last six passwords cannot be reused, and accounts will be locked for five minutes after the tenth unsuccessful password attempt

Recent Proposal Compliance Checking Updates

- The goals of automated compliance checking are to increase competitive fairness and reduce burden on both NSF programs and the research community
- Specific automated compliance checks depend on proposal type selected. New compliance checks were added in July 2016. In January 2017, automated compliance checks will be in effect for three new proposal types (GOALI, RAISE, and FASED), and some warnings will become errors across several proposal types
- Automated proposal compliance checks:
 - Deadline Checks (since January 2016) – A warning in the 24 hours preceding the deadline, and an error when past the deadline. So far, 99.5% of proposals submitted on time
 - Section Exists Checks – Checks on eleven sections
 - Page Count Checks – Checks on length of six sections
 - Budget Checks – Eight checks on rules such as caps on amounts, duration, and amounts matching
 - Other Checks – Five checks related to international travel, and human or animal use rules

• https://www.nsf.gov/bfa/dias/policy/autocheck/compliancechecks_july16.pdf

Proposal Compliance Checking During PI Preparation

- Proposals can be compliance checked during proposal preparation at any point

Proposal Actions

***Please note:** A Data Management Plan will be required for all proposals submitted or due on or after January 18, 2011. FastLane will be updated to enable its upload as a separate Supplementary Document. Proposals that do not include the requisite plan will be stopped from submission. Specific guidance is included in Chapter II.C.2.j of the revised NSF Proposal & Award Policies & Procedures Guide

FastLane will automate the enforcement of deadline dates. Proposers should allow sufficient time to submit proposals before 5 PM submitter's local time on the deadline date(s) shown below or they risk not being able to submit their proposal to NSF.

Temporary Proposals in Progress

Temporary Proposal #	Title of the Proposal	Deadline Date
9026878 -		
9026877 -		
9026876 -		
9026875 -		
9026874 -		

NAVIGATION

PROPOSALS

PI INFO

LOGON

Sample Proposal Compliance Checking Warnings and Errors

- Warnings and Errors are displayed after compliance check is selected

Proposal Errors

Items listed here will prevent submission.
Print this page for reference before returning to the Form Preparation screen.

- International Activities Country Name(s) box on the "Remainder of the Cover Sheet" is not checked - The International Activities Country Name(s) box is not checked on the "Remainder of the Cover Sheet" but the Primary Place of Performance on the Cover Sheet is outside the U.S., its territories or possessions. To correct this error, please check the International Activities Country Name(s) box on the "Remainder of the Cover Sheet" and list the country where the primary place of performance is located.

Proposal Compliance Checking during Research Administration

- Research Administrators can access compliance checking prior to submission through the Research Administration Module

Proposals/Supplements/File Updates/Withdrawals | MAIN ▶ Organization: National Science Foundation

Documents in Progress | Withdrawals In Progress | Submitted Documents

🔍 Search for Proposal Documents in Progress by Temporary Proposal ID and/or PI Last Name:

Temporary Proposal ID: (Enter 7 digits) | PI Last Name: (Enter at least first two characters) |

All Documents

FastLane will automate the enforcement of deadline dates. Proposers should allow sufficient time to submit proposals before 5 PM submitter's local time on the deadline date(s) shown below or they risk not being able to submit their proposal to NSF.

Click on Temp ID to view the Proposal Document. Sort results by clicking the column title.

83 Documents found, displaying 1 to 10

[< Previous 10] 1, 2, 3, 4, 5, 6, 7, 8, 9 [Next 10 >]

Temp ID	Deadline Date	Type	Access Level	PI Name	Proposal Title	Check	Edit	Submit	Return to PI
7708679	12/14/2016	Proposal	View/Edit /Submit	Alphaman, Alan	SE ProdValid Jenkins Test	Check	Edit	Submit	Return to PI



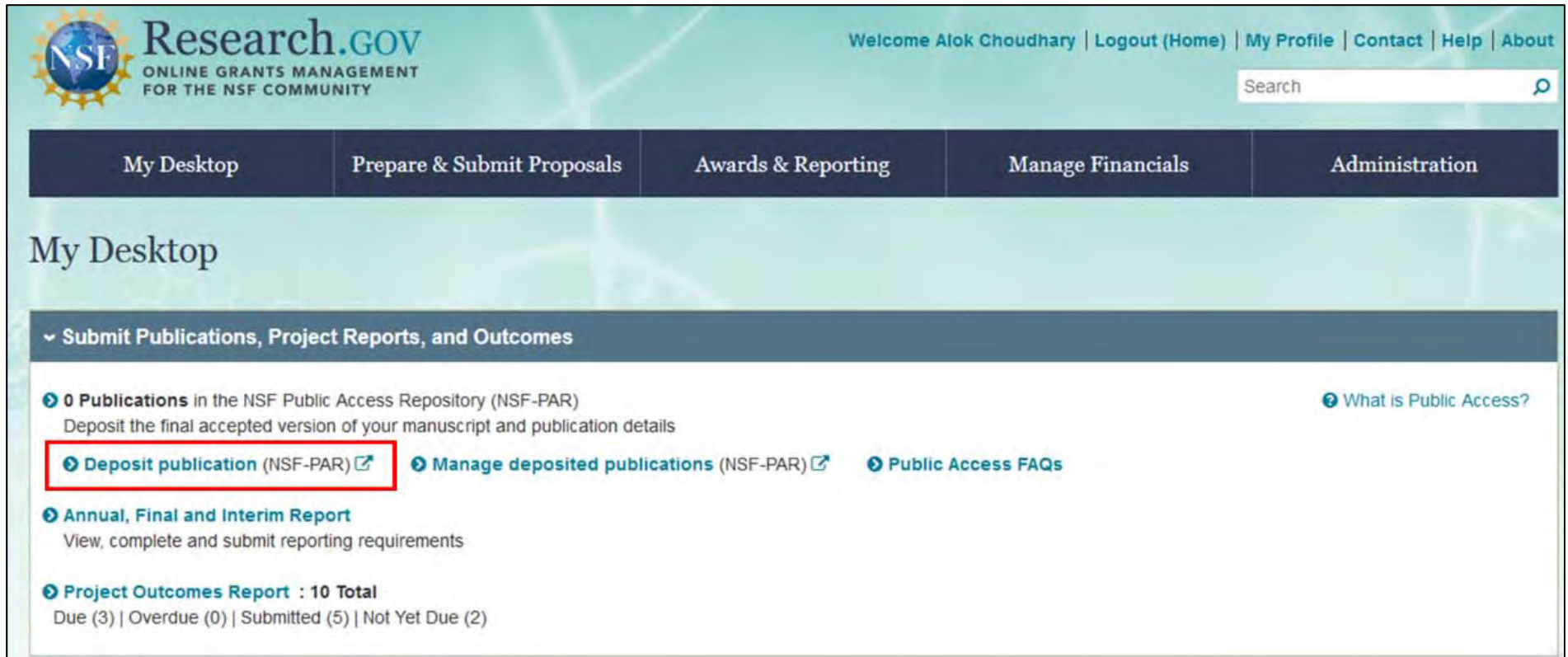
NSF Public Access Repository

- NSF's first repository launched: December 2015
- Effective date of Public Access policy: January 2016
- Quick Start Guide:
https://www.research.gov/common/attachment/Desktop/NSF-PAR_Getting_Started_Guide.pdf
- Video:
<https://www.research.gov/common/attachment/Desktop/publicaccesvideo.html>



NSF Public Access Repository: Deposit Walk-through

- Log into Research.gov
- Launch “Deposit publication” from Research.gov



The screenshot displays the Research.gov website interface. At the top left is the NSF logo and the text "Research.GOV ONLINE GRANTS MANAGEMENT FOR THE NSF COMMUNITY". On the top right, it says "Welcome Alok Choudhary" with links for "Logout (Home)", "My Profile", "Contact", "Help", and "About". A search bar is also present. Below the header is a navigation menu with five items: "My Desktop", "Prepare & Submit Proposals", "Awards & Reporting", "Manage Financials", and "Administration". The "My Desktop" section is expanded, showing a sub-header "Submit Publications, Project Reports, and Outcomes". Under this, it states "0 Publications in the NSF Public Access Repository (NSF-PAR)" and "Deposit the final accepted version of your manuscript and publication details". A red rectangular box highlights the link "Deposit publication (NSF-PAR)". Other links include "Manage deposited publications (NSF-PAR)" and "Public Access FAQs". Below this, there are sections for "Annual, Final and Interim Report" and "Project Outcomes Report : 10 Total" with a breakdown: "Due (3) | Overdue (0) | Submitted (5) | Not Yet Due (2)".

NSF Public Access Repository: Deposit Walk-through

- NSF-PAR: Deposit Publication

NSF Public Access Repository (NSF-PAR) **BETA**

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FOR THE NSF COMMUNITY

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Deposit Publication

* Required Fields

* Is the Digital Object Identifier(DOI) number available for this publication? [? What is a DOI number?](#) [? Where do I find my DOI number?](#)

Yes, the DOI number is available

No, proceed without the DOI number

[Next >](#)

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The National Science Foundation, 4201 Wilson Boulevard, Arlington, Virginia 22230, USA Tel: (703) 292-5111, FIRS: (800) 877-8339 | TDD: (800) 281-8749

NSF Public Access Repository: Deposit Walk-through

1

Deposit Publication

1. Retrieve Publication Info

2. Deposit Final Accepted Version

3. Select Award & Acknowledge

4. Review

Enter the DOI number and click 'Submit' to retrieve the publication information from the publisher. Once you have reviewed the information, click 'Next' to proceed.

* Required Fields

* Enter Digital Object Identifier (DOI) Number:

Submit

Clear

[Where do I find my DOI number?](#)

< Previous

Next >

2

Deposit Publication

1. Retrieve Publication Info ✓

2. Deposit Final Accepted Version

3. Select Award & Acknowledge

4. Review

Please deposit the final accepted version of your publication. ?

* Required Fields

* **Final Accepted Version file upload (PDF/A format):** ? What does NSF do with my file?

Browse... Changed PDF for an award.pdf

Changed PDF for an award.pdf ✕ Delete

← Previous

Next →

3

Deposit Publication

1. Retrieve Publication Info ✓

2. Deposit Final Accepted Version ✓

3. Select Award & Acknowledge

4. Review

Please select the award(s) that this publication should be associated with and acknowledge the statement.

* Required Fields

* **Select Award ID:**

1464151 - CRII: CSR: Online Performance Modeling of Opaque C... ▾

* **Acknowledgement** ⓘ

I acknowledge the Federal Government's license as set forth in the "Copyrighted Materials" article of the NSF Grant General Conditions.

⊕ Add additional award ID

4

Deposit Publication

1. Retrieve Publication Info ✓

2. Deposit Final Accepted Version ✓

3. Select Award & Acknowledge ✓

4. Review ✓

DOI Number: 10.1103/PhysRevA.84.013414

[Print Summary](#)

Publication Title: Pythagorean coupling: Complete population transfer in a four-state system

Journal Name: Physical Review A

[← Previous](#)

[Submit](#)

*Please note: It may take up to 6 hours for the publication to appear in your Project Report and be visible in the NSF Public Access Repository.

NSF Public Access Repository: Deposit Walk-through

- Confirmation Page

Deposit Publication - Confirmation

The Publication has been successfully deposited for processing. (NSF-PAR ID 481)
Please note: It may take up to 6 hours for the publication to appear in your Project Report and be visible in the NSF Public Access Repository.

[Print Summary](#) [Close this page](#)

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NSF Public Access Repository: Deposit Walk-through

- Manage deposited publications

NSF Public Access Repository (NSF-PAR) **BETA**

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Office of Scientific and Technical Information

 Research.gov
ONLINE GRANTS MANAGEMENT
FOR THE NSF COMMUNITY

Manage Publications Contact FAQ Welcome, Anshul Gandhi

Manage Publications

Use NSF-PAR to deposit your publications by entering a Digital Object Identifier (DOI) and associating them to specific NSF awards. You can also search for and manage publications that have previously been entered for your awards.




[Deposit Publication](#)

Publications Previously Submitted

Award ID: Publication Title: Author: DOI Number: [Filter](#) [Clear](#)

Show

Showing 1 to 10 of 16 | << < Prev 1 Next > >>

Award ID(s)	Publication Title	Author(s)	DOI Number	Full Text	Edit
1464151	0vββ and 2νββ nuclear matrix elements in the interacting boson model with isospin restoration	Barea, J. Kotila, J....	10.1103/PhysRevC.91.034304		Edit
1464151	Comment on "Theory of microwave-induced zero-resistance states in two-dimensional electron systems" and on "Microwave-induced zero-resistance states a..."	Zudov, M. A.	10.1103/PhysRevB.92.047301		Edit
1464151	Covariant spectator theory of np scattering: Deuteron quadrupole moment	Gross, Franz	10.1103/PhysRevC.91.014005		Edit

NSF Public Access Repository

- <http://par.nsf.gov/> – Public-facing URL
- Offers full-text access to all NSF-affiliated accepted manuscripts or articles after a 12-month embargo or administrative interval
- NSF uses services provided by the publisher community, including:
 - CHORUS (Clearinghouse for Open Research of the United States)
 - Crossref
 - International Standard Serial Number (ISSN). Over the next year, additional metadata and links to articles will be added as they are submitted to NSF, with anticipated annual growth of 40,000 publicly-accessible articles and manuscripts

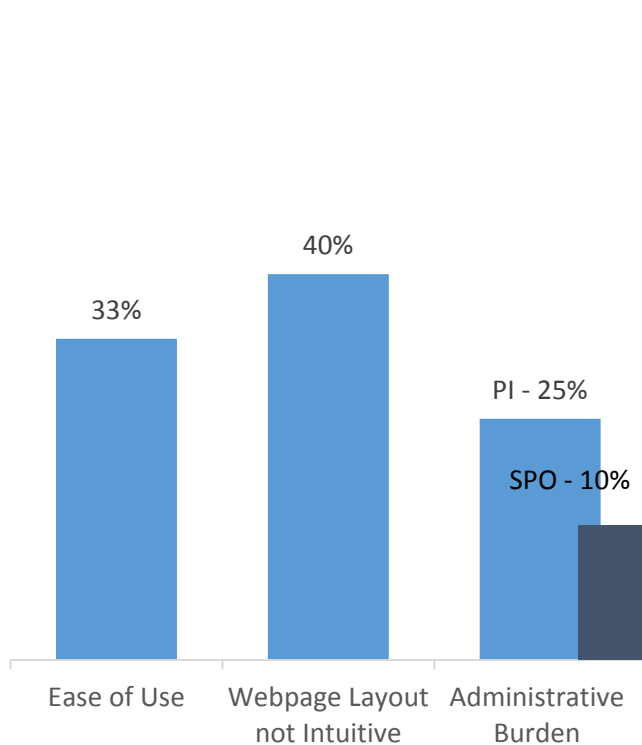
Research.gov – Looking Ahead

- Proposal Submission Modernization
- Single ID Across All NSF Systems
- NSF Move to Alexandria

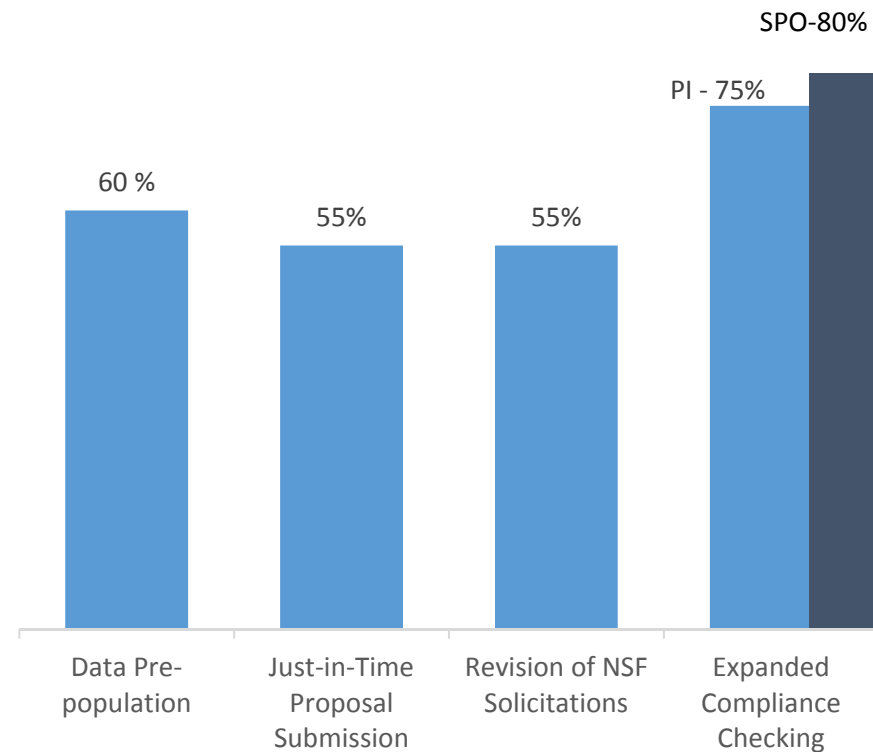
Proposal Submission Modernization (PSM)

PSM 2015 Survey

The problem statement



Suggestions for potential solutions



Results based on over 16,000 responses from the June 2015 survey sent to 116,638 researchers

Proposal Submission Modernization Vision

- Modernize the applications supporting the merit review process and the user experience
- Reduce administrative burden to the research community and NSF staff associated with preparation, submission, and management of proposals
- Increase efficiencies in proposal preparation, submission, and management
- Improve data quality
- Capture proposal content in a way that supports data analysis

PSM Agile Concept Development

- Follows an Agile process to develop, review, and refine wireframes (webpage mockups) that leverages knowledge of the existing pain points
- Engages external users throughout the process to ensure the overall approach, workflows, and wireframes are consistent with user needs
- Develops features and enhancements to be deployed incrementally (future pilot activity)

Identify Pain Points and Draft Improvements

- Leverage helpdesk data, 2015 PSM survey, etc. to identify improvement opportunities and create initial concepts

Review Concepts with NSF Staff Working Group

- Review initial concepts and discuss at working group sessions
- Refine as needed

Review Wireframes with External Users

- Present and test wireframes with external users to validate and refine
- Usability sessions, FDP, ERA Forum, etc.

Internal Validation and Execution

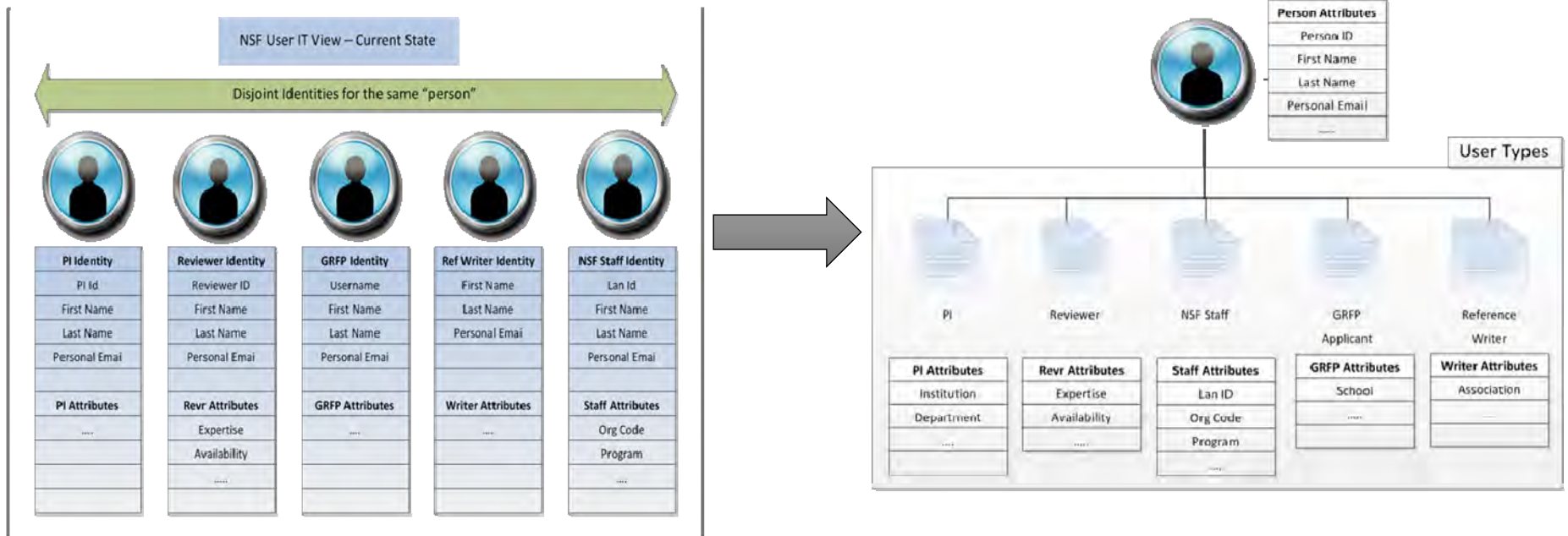
- Brief working group, elevate/resolve issues, and begin development
- Deliver enhancements incrementally

Proposal Submission Modernization

- Volunteer for future one-on-one usability testing
 - Sign up with the conference moderators, presenter, or conference representatives at the Registration Desk
- Join the NSF ERA Forum, a new initiative to gather opinions, perspectives, and feedback about NSF electronic research administration activities
 - Sign up by sending an email to:
NSF-ERA-FORUM-subscribe-request@listserv.nsf.gov
 - For more information visit:
https://www.nsf.gov/bfa/dias/policy/era_forum.jsp
- View the video presentation to the Federal Demonstration Partnership
 - http://sites.nationalacademies.org/PGA/fdp/PGA_174472

Single ID for all NSF systems

- NSF will introduce a new way to register and manage user profiles using ONE single identify (single ID) across all NSF Systems
- Streamlines all NSF system registrations to a single process
 - One user name and password. One account for all relevant systems
 - Central way to request or sign up for roles/access to systems
- Administrators will no longer need to create accounts and maintain profile information, which allows them to focus on approving and managing roles for their organizations



Impact of NSF Move to Alexandria on IT Systems

- NSF headquarters relocation to Alexandria starting Summer 2017
- System outages in support of the move tentatively scheduled for July 4th weekend
- Monitor advisories on Research.gov or FastLane or sign up for listserv by emailing:
system_updates-subscribe-request@listserv.nsf.gov

Feedback and Questions



Additional Resources

- Listserv for updates on events and enhancements to Research.gov and/or FastLane: system_updates-subscribe-request@listserv.nsf.gov
- NSF Public Access
 - https://www.nsf.gov/news/special_reports/public_access/
 - NSF's Public Access Plan:
https://www.nsf.gov/publications/pub_summ.jsp?ods_key=nsf15052
 - FAQs:
<http://www.nsf.gov/pubs/2016/nsf16009/nsf16009.jsp?org=LIB>
 - About Page and Tutorial https://www.research.gov/research-portal/appmanager/base/desktop?nfpb=true&pageLabel=research_node_display&nodePath=/researchGov/Service/Desktop/AboutPublicAccess.html

Additional Resources (cont'd)

- Compliance Checks

- https://www.nsf.gov/bfa/dias/policy/autocheck/compliancechecks_july16.pdf

- Password Reset

- https://www.research.gov/research-portal/appmanager/base/desktop?nfpb=true&pageLabel=research_node_display&nodePath=/researchGov/Service/Desktop/AboutPasswordResetPage.html
- <https://www.research.gov/common/attachment/Desktop/Rgov%20Password%20FAQs.pdf>

- Proposal Submission Modernization

- https://www.nsf.gov/bfa/dias/policy/era_forum.jsp