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Using Technology to Break Down Silos

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12 years in higher education

- Research Administration & Compliance
 - Office of Research and Sponsored Programs, *MWU*
IRB, IACUC, Biosafety, Radiation Safety
 - Office of Knowledge Resources & Planning, *CSCC*
Grants/IRB
- Academic Coordinator
 - Department of Anatomy, *MWU*
 - Departments of English & Communication, *CSCC*

OUR WORLD...

The highly decentralized, regulated research ecosystem



Audience Poll

What are some some communication or efficiency barriers you face day-to-day?

The Dangers of Silos



Examples of Silos

WHO

- Grants
 - Pre-Award
 - Post-Award
 - Agreements
- Compliance/Ethics Reviews
 - IRB/REB
 - IACUC/ACC
 - Resources/procurement/facilities to support animal studies
 - Biosafety/Biosecurity
 - Export Controls
 - COI/CoC

WHAT

- Post award needs to know if ethics approvals are in place.
- Animal Facilities need to know what animals to support.
- Biosafety needs to know if animal studies involve agents, toxins, pathogens.
- Upper Admins need to know volume of expenditures and processing for hiring decisions
- PIs need balances (i.e., \$ and **animals**) and approval statuses
- NSPM-33 and Foreign Influence

Risks of Silos

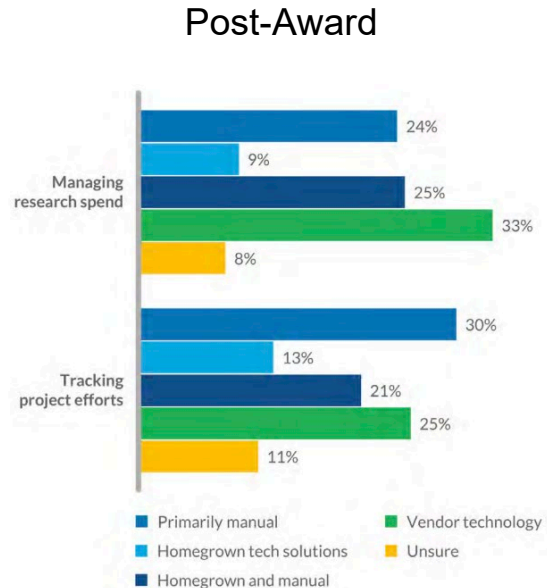
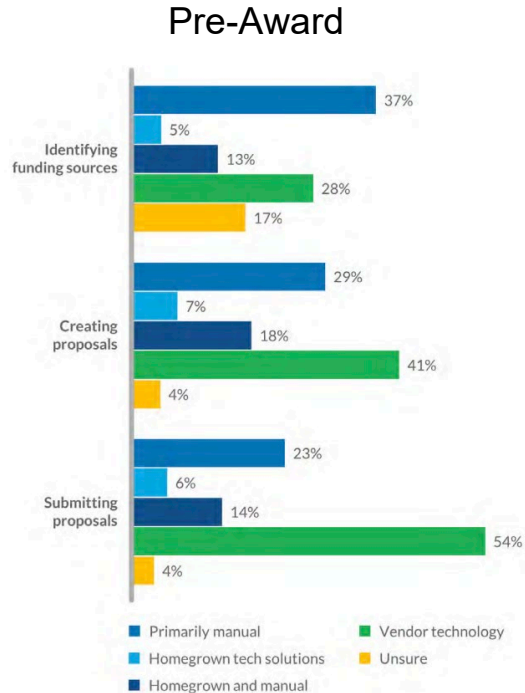
- **Shadow systems**
 - Inconsistent data
 - Duplication of efforts
 - Old information, forms or templates
- **Misinformation & Missing Information**
 - Non-compliance/gaps in compliance
 - Key personnel out of the “loop”
 - Missed steps (COI disclosures anyone?)
- **Inefficiencies**
 - Delay in research activities
 - Frustrated Researchers = Turnover, loss of funding/talent and poor reputation
 - Lost communications

Existing solutions to support processes

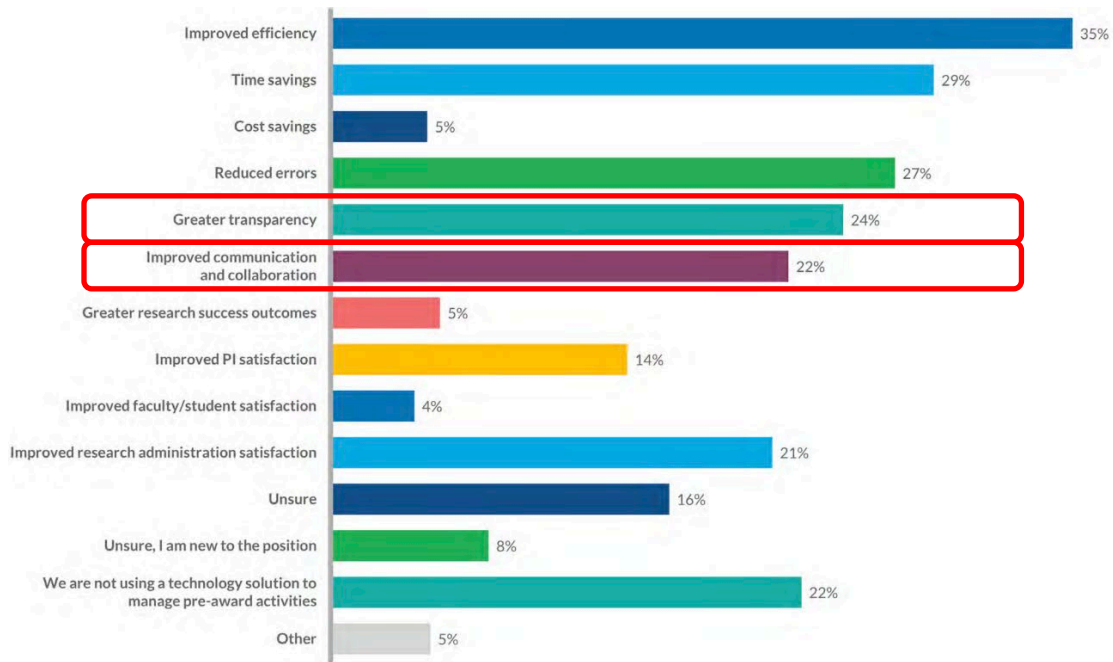
- Microsoft/Google Suite
 - Communication
 - Tracking
 - Reporting
 - Data Capture
- Shared network drives
 - Collaboration
 - Review processes
- Homegrown Systems
 - Supported by I.T.
 - Hard coded



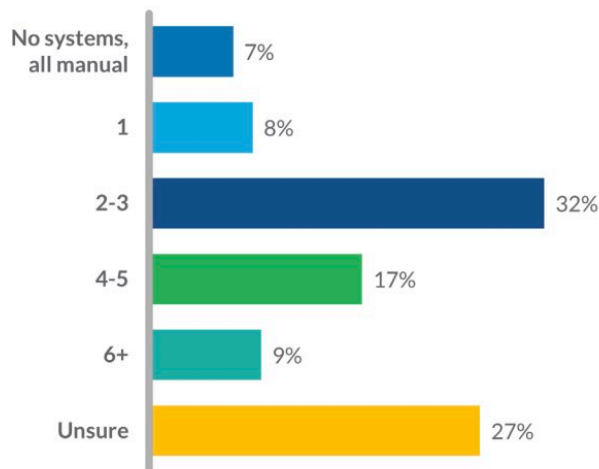
Solutions used to support grants activities



Research Administration: Results when implementing a technology solution



How many systems do you estimate are in use today across all compliance areas (internal and external) for your organization?



Compliance Activities

- Research Team Submission
- Administrative Pre-review
- Committee Review/Routing
- Meeting Management
- Post-Review & Document Stamping
- Letter Generation
- Metrics Reporting
- Communicating Result
- Post-Approval Monitoring
 - Vulnerable populations
 - Lab spaces
 - Regulatory binders
 - Reportable events

Example Technology Solution Demonstration



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Sponsored Projects

- Smart Forms
- Notifications/Routing
- Reporting



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Human Ethics

- Smart Forms
- Transparent, role-based dashboards