The Complete CRIS, Cayuse - a True Advancement in CRIS Software
Introductions

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Cayuse
Our Mission:
Empower organizations to conduct globally connected research and sponsored projects, advancing their impact on science, discovery and society.
The Cayuse Research Suite
Enabled by our Connected Research Cloud Platform

- **Pre-Award**
  - Fund Finder
  - Competitions
  - Proposals

- **Post-Award**
  - Fund Manager
  - Project Effort

- **Risk Management**
  - Outside Interests
  - Animal Oversight
  - Human Ethics
  - Hazard Safety

- **Resource Management**
  - Vivarium Operations
  - Schedules
  - Vet Care

- **Researcher Success**
  - Graduate Education Manager

- **Research Outcomes**
  - Repository
  - Inventions

- **Central admin (w/SSO)**
  - Connectors for virtually any system

- **User-centric analytics**
  - Training records management

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**Cayuse Platform**
Merger & Acquisition in Software

- Expand into new areas
- Improve offering in current areas
- Gaining access to resources
Common Challenges within Research Management

- Multiple systems that don't speak with one another
- Limited access to data / data housed in multiple, disconnected systems
- Processes and systems used multiple ways, leading to duplication
- Data security
- Lack of Integrations
Careful design is the Key

Integrated

External APIs for data transfer
Shared API, seamless data transfer

Disjoint

No Integration
UI/UX redesign

Quick

Careful
What does careful design look like?

Centralise
Put the researcher in control with centralised hub for all research activities

Security
Address security needs and increased accountability

Interoperability
Systems should work together, providing a seamless workflow
Addressing the entire hierarchy of research challenges

From

Lack of Data and System Connectedness
52% no clear strategy on using data analytics\(^3\)

Inability to Plan/Manage Funded Projects
61% no dedicated role/team to analyze and optimize sponsored activity\(^2\)

Inefficiencies and Paperwork
44% research admin burden today\(^1\)

To

Enabling a World Class, Data-Driven Research Org

In-Platform Analytics
Connecting data: to BI tools, in-house systems, other key backend systems

Optimising Planning

Sponsored Projects: effectively managing all projects, spending projections
Fund Manager: real-time insights

Maximising Efficiency

Proposals: finding, creating, submitting, enabling internal competitions
Animal operations: procurement, inventory, service charges, billing, vet care
Connecting critical business systems: Peoplesoft, Banner, Workday, etc.

1 2018 FDP Faculty Workload Study  2 SRA published research 12/11/19  3 SRA published research 2/13/20
“When you have a very fragmented system you automatically create inefficiencies because you rely on humans. We missed a request for a no-cost extension, and at one point we missed a submission. It wasn’t anybody’s fault—we just had dozens upon dozens of emails coming in on the same day.”

- Nada Messaikeh, Associate Provost for Research Administration
Cayuse Platform Architecture

Platform-to-Product

The platform has an admin module which is used to control:

- User data and their profile
- Organisational hierarchy
- Permissions
- Associations, both internal and external

Updates

- The platform then notifies each solutions with the same, centrally maintained record of data.
Cayuse Platform Architecture

Product-to-Product

There's a few routes for this to occur

- Polling product
- Broadcast
- Data warehousing

Example

- The user updates a record in Product A which while saving the record the system also pushes the update through to Product B which has a good use case for it.
Challenges and mitigations

- Cache invalidation
- Time to integrate
- Blending schema
Thank you!

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