EXPLORE ARIZONA THROUGH DATA

Financials Modernization: Data Warehousing & Analytics
Who We Are & What We Do

UAIR is committed to providing data that empowers campus decision makers, informs policy and practice, and tells the Arizona story.
ACKNOWLEDGEMENTS

TODAY’S PRESENTERS

- Christopher Cherry, IT Training & Support Specialist
- Eddie Caratachea, Assistant Director, Administrative Reporting & Analytics
- Venkata Pavan Desireddy, Data Architect
- Steve Patterson, Huron Consulting Managing Director, FinMod Workstream Lead
- Tessa Boukal, Huron Senior Associate, FinMod Workstream lead

UAIR Team Members

- Casey Miller, Middleware Analyst
- Jeff Schwarz, Business Intelligence Developer
- Abraham Silva, Program Manager, Administrative Data

FinMod Team Members

- Subhodip Pal, Architect
- JD DeCristofaro, Data Modeler
- Carlos Mendez, Pipeline Developer
- Ravi Subbaroyan, Pipeline Developer
- Kavita Sharma, Pipeline Developer
Question: Please rate your comfort level with UAccess Analytics.
Question: Have you attended a Data Exploration Series before?
WELCOME | What do you want to know?

- What are the reporting changes that are going to happen?
- Will my reports be affected?
- How will UAccess Analytics change?
- What is the status of the Financials Modernization project?
- Can we still modify reports if needed?
- How will it affect the data I frequently use?
Financials Modernization Prep & Discovery Recap
How the Impact was Discovered

Regular Communication
- 15 Wednesday Workstream Meetings to Address Different Topics
- 35 DW & Analytics Discovery Meetings

DW & Analytics Review
- 32 Subject Areas
- 216 Views
- 94 Dimensions
- 49 Facts
- Rationalized 6000+ report population down to 770
- Reviewed 770 UAIR Managed Analyses & Dashboards in Detail

Special Topic Discussion
- EPM Impacts
- Labor Encumbrance & Distribution
- Glue & ETL Practices
- BICC File Extract
- Oracle ERP Data Flows & Reporting Tools
- Embedding Reports in ERP

August 2022-November 2022
# Overall Impact by Subject Area

<table>
<thead>
<tr>
<th>Non-KFS Subject Area</th>
<th>KFS Subject Area</th>
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<tbody>
<tr>
<td>Bud – HCM – KFS Budget Balance Summary</td>
<td>KFS – Account Actors</td>
</tr>
<tr>
<td>Bud – HCM – KFS Budget Book</td>
<td>KFS - AMCA</td>
</tr>
<tr>
<td>Bud – HCM – KFS Department Line Budget Balance</td>
<td>KFS - Axiom</td>
</tr>
<tr>
<td>CSW – Student Financial Aid</td>
<td>KFS – Accounts Receivable</td>
</tr>
<tr>
<td>CSW - Student Financials</td>
<td>KFS – Capital Asset Management</td>
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<tr>
<td>HCM – Census Data</td>
<td>KFS – Direct Database</td>
</tr>
<tr>
<td>HCM – Employee Job Detail</td>
<td>KFS – Encumbrances</td>
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<tr>
<td>HCM – Leave Accrual</td>
<td>KFS – Labor Ledger Entries</td>
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<tr>
<td>HCM – KFS – Compensation – Payroll Accounting</td>
<td>KFS – Ledger Entries</td>
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<tr>
<td>IA – Research Awards and Summary Expenditures</td>
<td>KFS – PCard</td>
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<tr>
<td>IA – Space &amp; Workforce Activity</td>
<td>KFS - Security</td>
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<tr>
<td>IA – Workforce Activity</td>
<td>KFS – Shipping &amp; PDP</td>
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<tr>
<td>KC – Negotiation</td>
<td>KFS Views</td>
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<tr>
<td>KC – Proposal Route Log</td>
<td>KFS – Snapshots</td>
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<tr>
<td>KC – Proposals</td>
<td>KFS - Purchasing and Accounts Payable</td>
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<tr>
<td>KC - Subawards</td>
<td>KFS – Effort Certification</td>
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Financials Modernization Plan Recap
**Business Process Mapping (BPM)**
Setting our configurations, business processes, and making adjustments

**Conference Room Pilot (CRP)**
Testing the system and setups

**System Integration Testing (SIT)**

View the entire FinMod Timeline at [finmod.arizona.edu/timeline](http://finmod.arizona.edu/timeline)
New Application Impact Details

As part of the Impact Analysis, the impact associated with integrating, modeling, and reporting for non-Oracle ERP Cloud applications was estimated. These impacts remain in the plan with the following assumptions.

<table>
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<tr>
<th>Planning</th>
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<td>Current data warehouse has models, reports, and processes that rely on planning data which makes the inclusion of planning data a requirement. Planning is changing due to new decisions around budgeting.</td>
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<thead>
<tr>
<th>Travel (Concur)</th>
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<tr>
<td>Concur will have self-contained reporting. We are still determining the full scope of reporting from the data warehouse.</td>
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<tr>
<th>Labor and Labor Encumbrances</th>
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<tr>
<td>Like Planning, the warehouse includes Labor. Labor and the associated reports will remain in scope unless the future design eliminates that requirement.</td>
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<tr>
<th>ECC (Huron) - Currently Out of Scope</th>
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<tr>
<td>ECC will have self-contained reporting and the warehouse has minimal existing models and no reports on this.</td>
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Future State data needs may be satisfied through many avenues

- Delivered or Custom Reports
- Embedded Reporting Screens
- System Functionality
The report rationalization process is designed to identify reports and dashboards that need to have a similar report or dashboard as part of the financial modernization process.

Along with the identification of reports, this effort will establish an estimated effort for rebuilding the report and dashboard against the new model.
**Reporting Fit-Gap & Prioritization**

**Day 1-90**
- Business Critical to support a process
- Used to provide campus with data and is the only source of that data
- Internal Control/Audit Report
- Regulatory Report

**Day 91-180**
- Needed to support a business process that may occur at the end/mid-year
- Process Independent Reports but provides value to the University Business Offices
- Provides campus with insights but not their only source of data

**Nice to Have Enhancements**
- ‘You know it would be great to have x’ reports
- Reports dependent on future functionality

**Ready for Go Live**
- Day 1-90

**Ready After Go Live**
- Day 91-180

**Ready 6 Months + After Go Live**
- Nice to Have Enhancements
While the Financials Modernization team will be focused on redesigning & retrofitting the UAIR Managed Reports & dashboards, the UAIR team will be here to help.

Over the course of the next 18 months, we will be working with the Financials Modernization Management Team to ensure we communicate changes in an effective & timely manner.

If you are interested in helping redesign and rebuild, please reach out to FinancialsModernization@email.arizona.edu.

What about my reports?

- **DW&A Roadshows**
- **Open Office Hours**
- **Instructor-Led Trainings**
- **DW&A Crosswalk**
- **Community of Reporting Representatives**
Utilizing Student Interns

Project Utilization
• For report development, we are planning on utilizing 4 student workers at 12 hours each a week for 8 months
• Take on tasks related to building & testing

Training & Development
• Training in Oracle development & standard testing procedures
• Gain marketable, real-life experience to supplement classroom learning

Students First
• Since they are students first, timeline accounts for beginning & end of term and exams

If you have any students who you think would be a great fit for this internship, please reach out to Eddie Caratachea at eddiec@arizona.edu or Tessa Boukal at tboukal@arizona.edu.
What's Changing?
Current Data Warehouse Architecture

AWS Cloud (UITs)
- CS
- HCM
- KFS
- BUD

AWS Cloud (UAIR)
- IBM Datastage
- EPPRDARC
- REPLICA1
- EPPRDETL
- REPLICA2
- REPLICA3
- EPPRDSNP
- OBIEE REPOSITORY
- Physical Layer
- Business Layer
- Presentation Layer

Enterprise Performance Management (EPM) Data Warehouse

DATA END USERS
- Direct Database Queries
- UAccess Analytics
- Dashboards
- Reports
- Agents
- Publisher Reports
- Departmental Views

THE UNIVERSITY OF ARIZONA
Financials Modernization
IBM DataStage is used to fetch data from different source systems like Peoplesoft Campus Solutions, Peoplesoft HCM, Kuali Research, Kuali Financials, Interactive Floorplans etc. to cleanse and transform the data by applying business rules and load into Data warehouse for further consumption by campus users through OBIEE reports and dashboards.
In the current state, we are using Control M to schedule daily BI loads.
Future State Financials BI Process Flow

- In the future stage all the financial related data pipelines will be built using cloud tools like AWS ETL Glue.

- For scheduling we are planning to use combination of Control M, AWS Event bridge, Step Functions etc.
In addition to extensive embedded screens, Oracle Cloud ERP’s primary reporting tools are Oracle Transactional Business Intelligence (OTBI) and Business Intelligence Publisher (BI Publisher) which report on real time data.
We will be undergoing further report rationalization & reclassification to determine what tool is best to build a dashboard or report in.
Good Candidates for Oracle ERP Reporting

- Accounts Receivable
- Cash Management
- Fixed Assets/Capital Assets
- Security & Workflow Reporting
- Exception Reports
- Basic Operational Reports

Definition of reports to be built in Oracle ERP Reporting tools will continue into the Build Phase.
Involvement Expectations
How will users be involved?

OCM Analysts will be involved in CRP1 preview sessions to view Oracle Delivered Reports.


Feel free to reach out to your campus liaison, who can direct you to the right person if you have questions.

More users will be testing dashboards & reports in SIT1, SIT2, & BPT.
# Reporting Representatives

## Identification
We will be working with the Campus Liaisons and their division leadership to identify a reporting representative from each team.

## Tasks
- Assist in Requirements Gathering for Reports
- Assist in Prioritization for Reports & Dashboards
- Potentially assist in building/rebuilding analyses and dashboards

## Who?
- Reporting Representatives should have a good grasp on your unit’s analytics needs and what the current reports are
- If you are interested or know someone on your team who would be a great representative, please reach out your team’s Campus Liaison & your division leadership
Questions?
THE VALUE OF CUSTOMER EXPERIENCE

UAIR is here to provide ongoing customer experience, training, and support. We want the campus community to have the knowledge and the know-how to take full advantage of our products and services.
STILL WANT TO KNOW MORE?

- **FinMod Website:** [https://finmod.arizona.edu/](https://finmod.arizona.edu/)
  (the latest news & helpful resources from the FinMod Project)

- **UAIR Newsletter**
  (the latest news straight from UAIR)

- **UAccess Analytics Training**
  (constantly updated modules and materials)

- **Analytics Office Hours**
  (visit with our staff to have your individual questions answered)

- **UAccess Community**
  (a community of users and resources)

- **Data Exploration Series**
  (ongoing data literacy presentations)

Visit our website for more information: [https://uair.arizona.edu/](https://uair.arizona.edu/)
Thank you!

Questions?