



AC IRP – October 26, 2010

USG DATA WAREHOUSE REDESIGN



USG Data Warehouse Redesign

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Data Architect



Implementation Timeline

- Requirements Gathering through 12/31/2010
- Academic, HR and Financials integrated into new data warehouse for parallel testing by fall 2011
- Facilities integrated into new data warehouse for parallel testing –



USG Data Warehouse Redesign

- Institution ETL (Extract Transform Load)
- USG Staging-Operational Store
- Relational Enterprise Data Warehouse
- Dimensional Data Marts
- Reporting
- Focus Groups
- Gather Comments/Feedback



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Institution ETL–ADM Current

Academic Data Mart

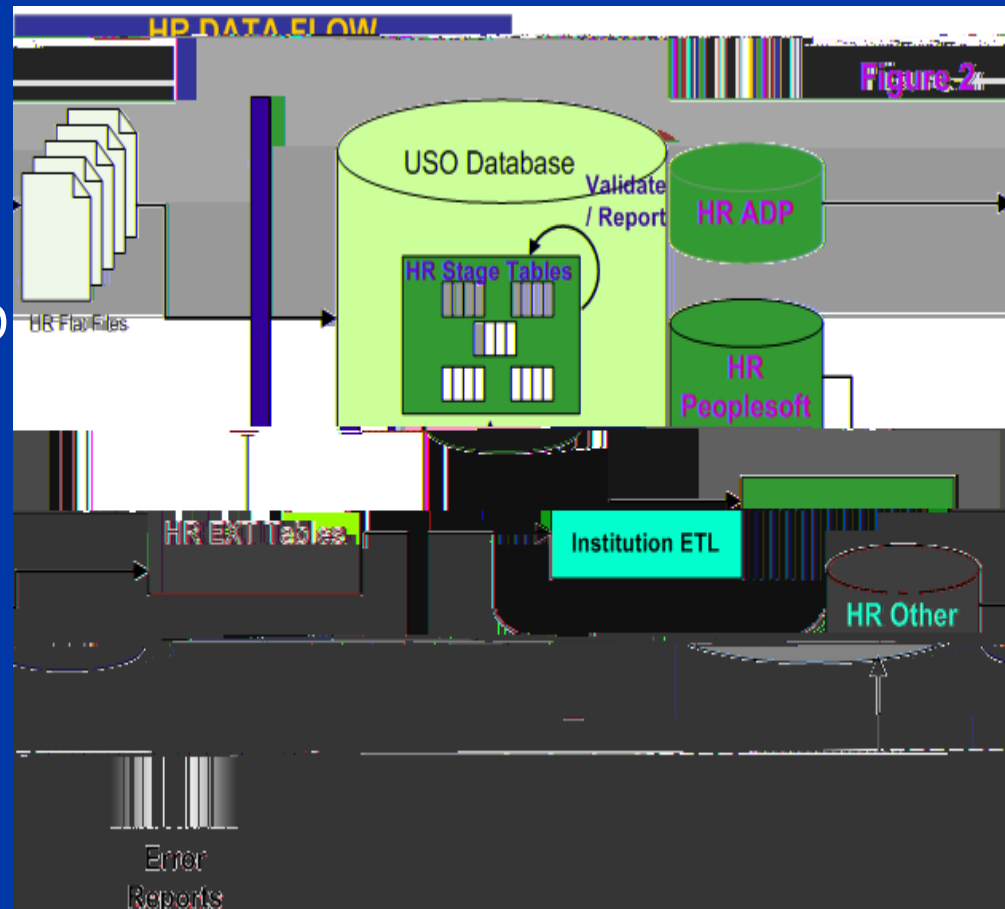
- **ETL Location**
 - **USO DB**
 - **Banner DB – USO Delivered**
 - **Institution DB -Homegrown**
 - **SOAXREF Translations**
- **Validations(Editor)**
 -



Institution ETL–HR Current

HR Data Mart

- **ETL Location** : USO DB
 - Automated extraction for AD
- **Validations(Editor)**
 - Invoke from portal

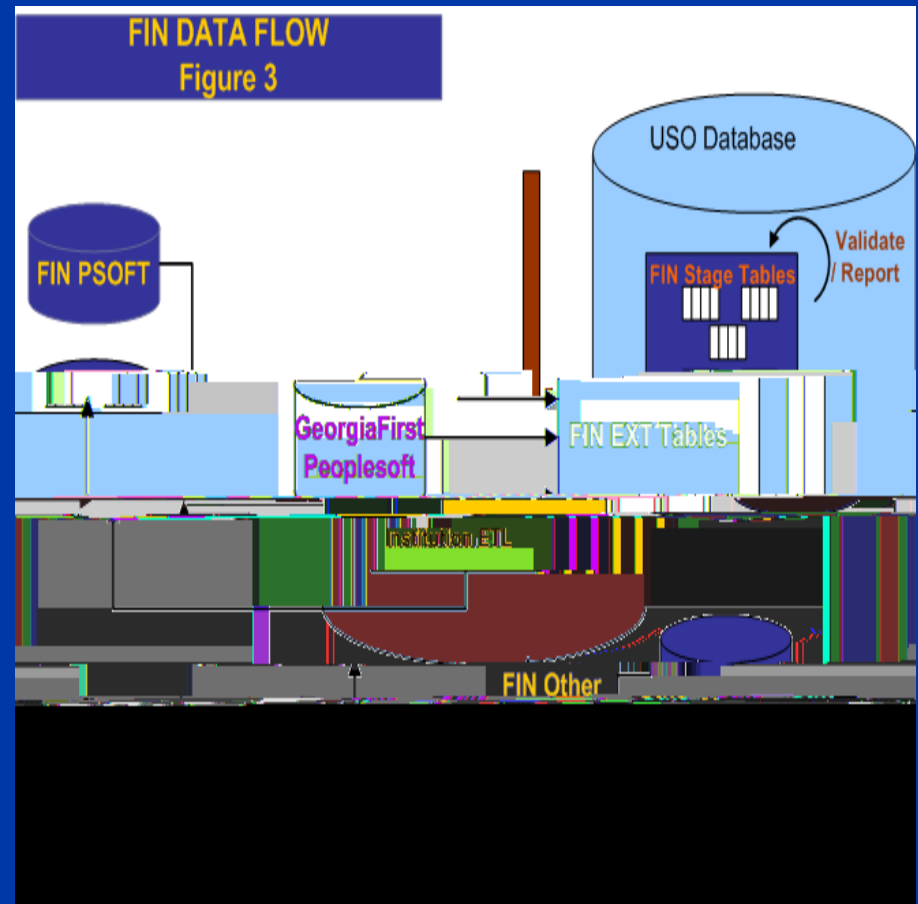




Institution ETL–FIN Current

Financial Data Mart

- **ETL Location** : USO DB
 - Invoke via portal
- **Validations (Editor)**
 - Invoke via portal after extract





New ADM ETL Process Proposal

ADM Extraction

- Define Standard Staging DDL
- **SOAXREF Translations**
 - Missing Translations
 - System Office Codes
- **ETL Location**
 - Based on Survey Results.
- **Validations**
 - USO Delivered for staging DDL
 - Location
 - » USO and Institution
 - Update/Maintenance Plan





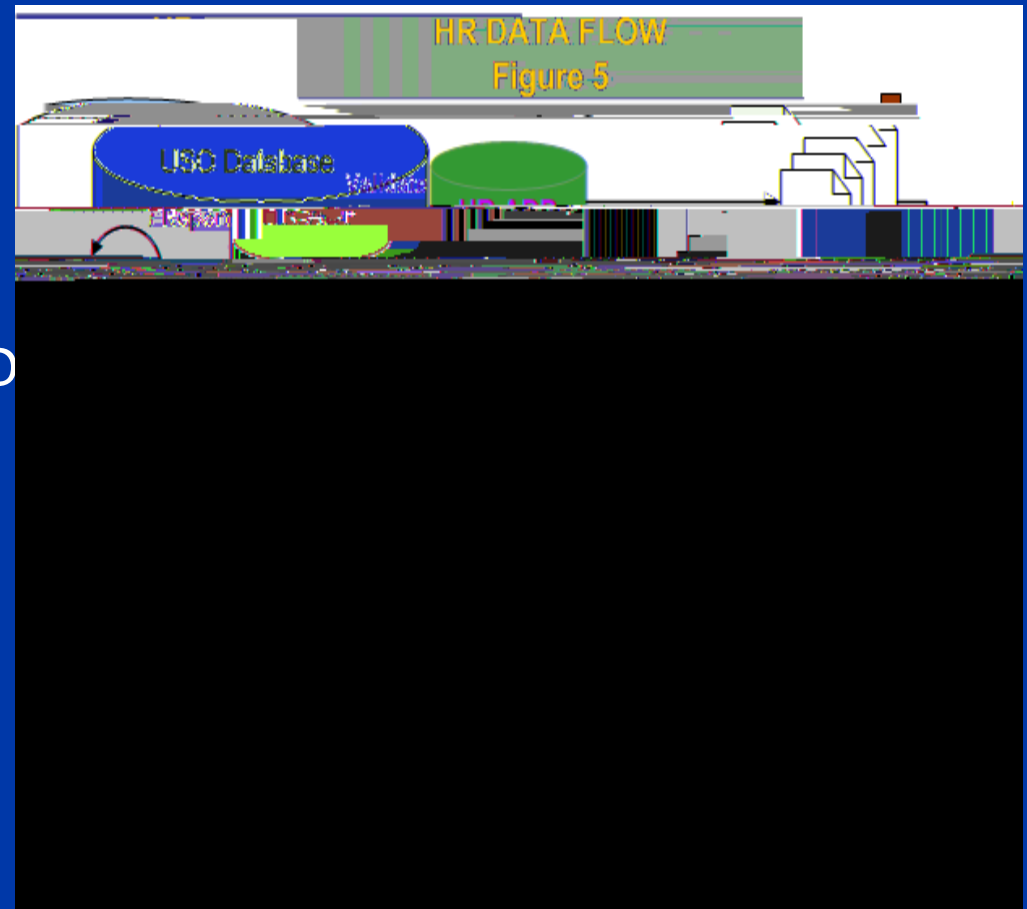
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New HRETL Process Proposal

HR Data Mart

- Define Standard Staging DDL
- **ETL Location** : USO DB
 - Automated extraction for AD
- **Validations (Editor)**
 - Last step after ETL.
- Online Reports

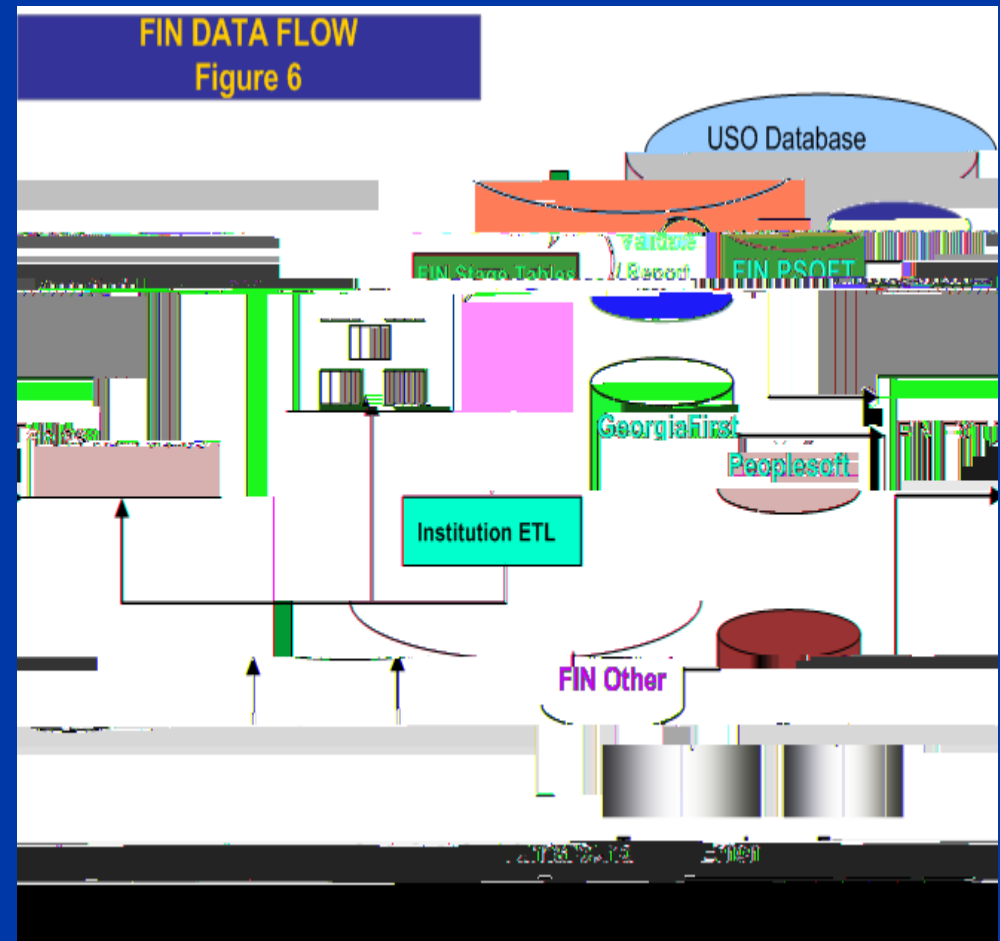




New Financial ETL Process Proposal

Financial Data Mart

- Define Standard Staging DDL
- **ETL Location** : USO DB
 - On Demand
- **Validations(Editor)**
 - On Demand
- **Online Reports**





New Institution ETL Review Proposal

- Institution(s)

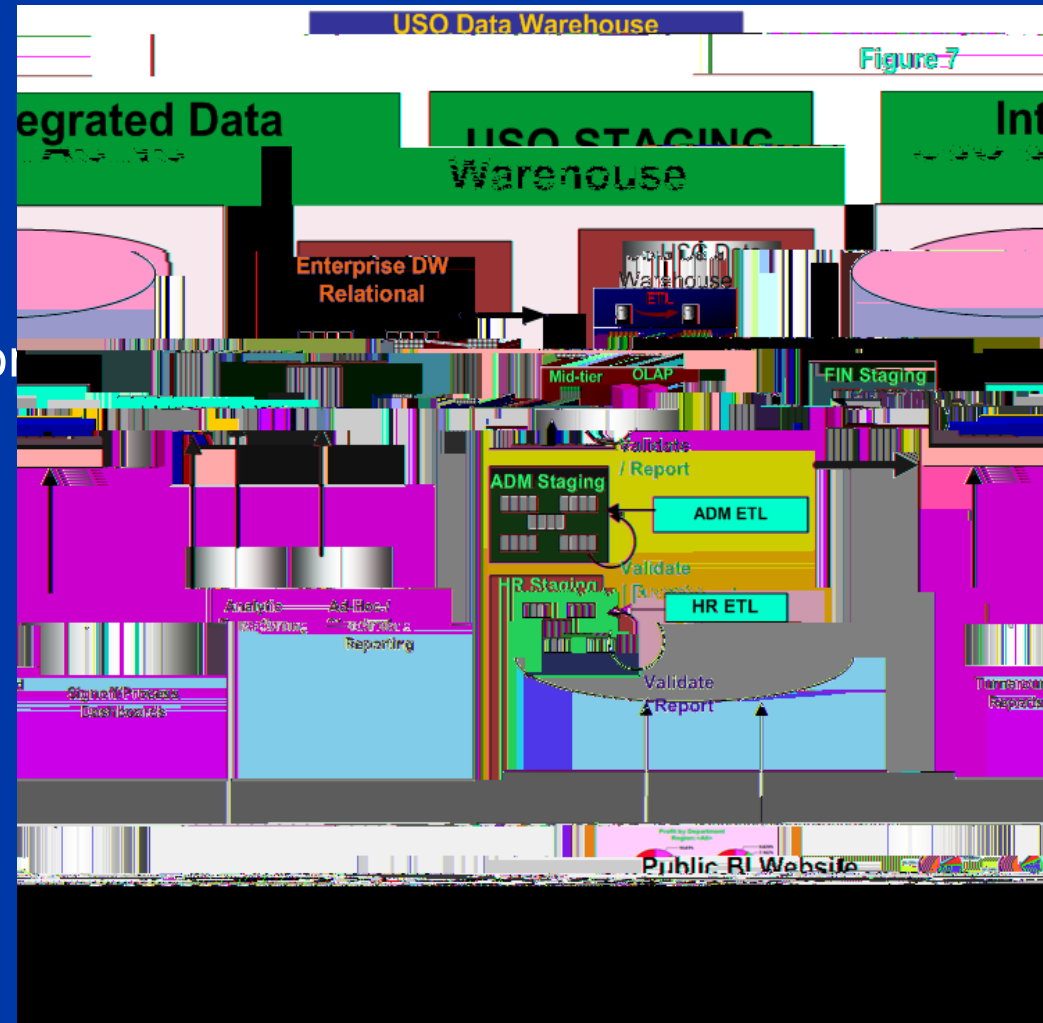
1. Extract
2. Validate/Clean Errors
3. Review USO Staging Report
4. Notify

- USO

5. Review Staging Reports
6. Load to EDW
7. Review EDW Reports
8. Accept

- Institution(s)

9. Review EDW Reports
10. Signoff



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New Institution ETL Features Recap

- Standard Staging DDL



New Institution ETL Features Recap

- Standard Staging DDL
- Institution ETL bundle

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New Institution ETL Features Recap

- Standard Staging DDL



New Institution ETL Features Recap

- Standard Staging DDL
- Institution ETL bundle
 - Validation Package
 - Error Reports
 - Headcount Reports
 - System Office Reference Codes
- Notify when USO Staging Data is clean
- DW Load initiated by USO



New Institution ETL Features Recap

- Standard Staging DDL
- Institution ETL bundle
 - Validation Package
 - Error Reports
 - Headcount Reports
 - System Office Reference Codes
- Notify when USO Staging Data is clean
- DW Load initiated by USO
- Signoff USO Enterprise Data Warehouse(EDW)



Questions/Suggestions