



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 – Fall 2011
- Facilities integrated into new data warehouse for parallel testing – December 2011



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



Institution ETL

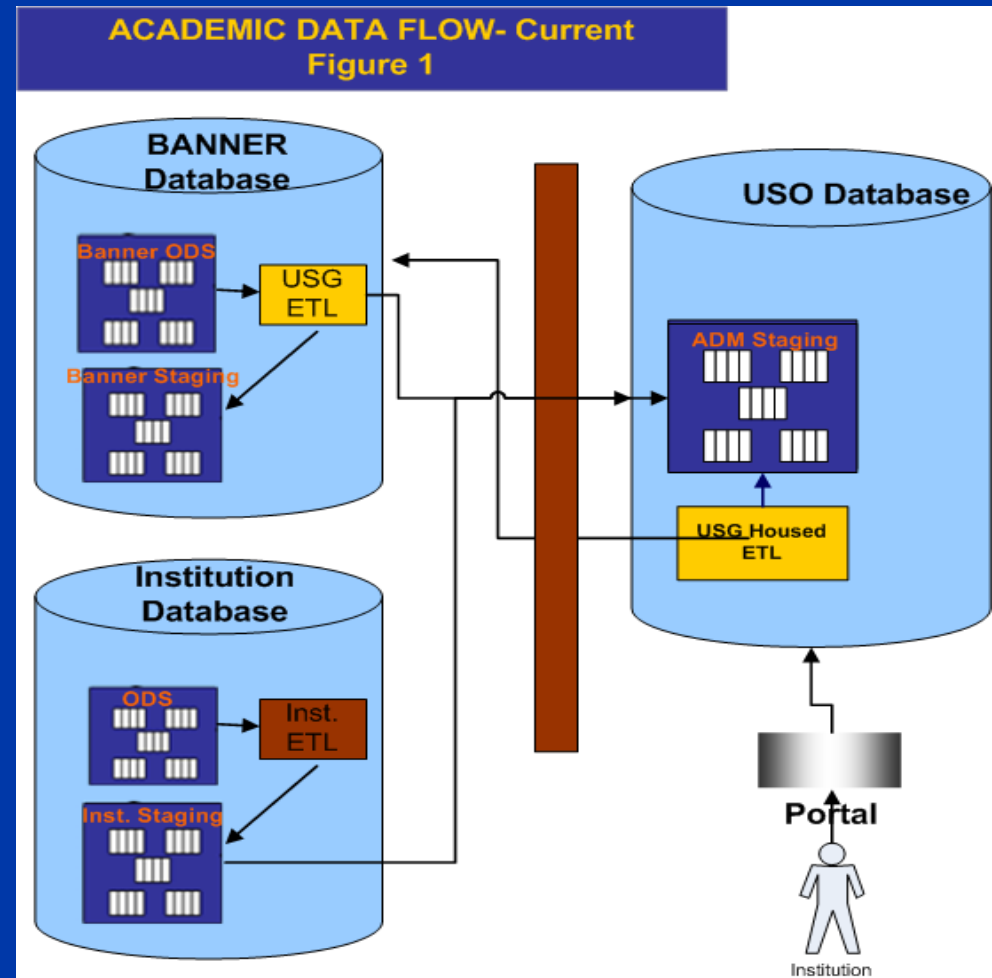
1. Review current ETL processes
2. Present proposed ETL processes
3. Understand the new features in the Proposed ETL Process
4. Gather feedback/comments
5. Answer your questions



Institution ETL –ADM Current

Academic Data Mart

- **ETL Location**
 - USO DB
 - Banner DB – USO Delivered
 - Institution DB -Homegrown
 - **SOAXREF** Translations
- **Validations(Editor)**
 - Invoked via portal after load



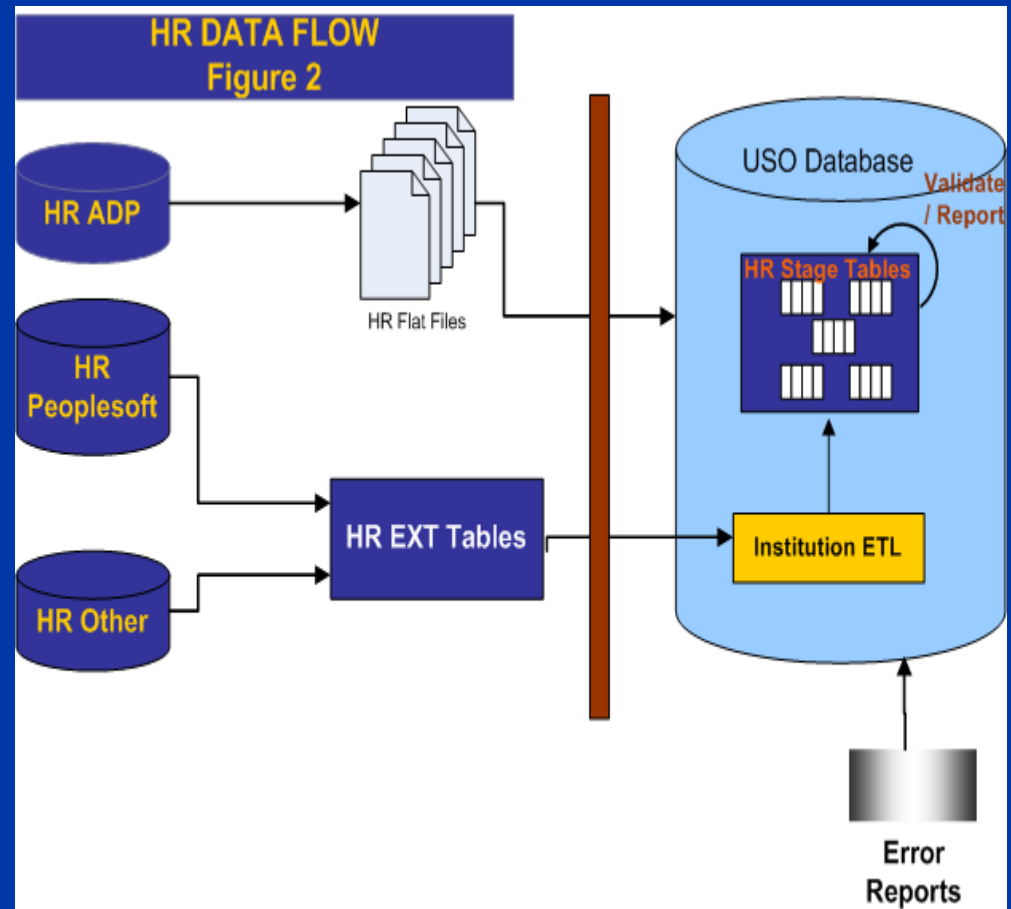
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Institution ETL –HR Current

HR Data Mart

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

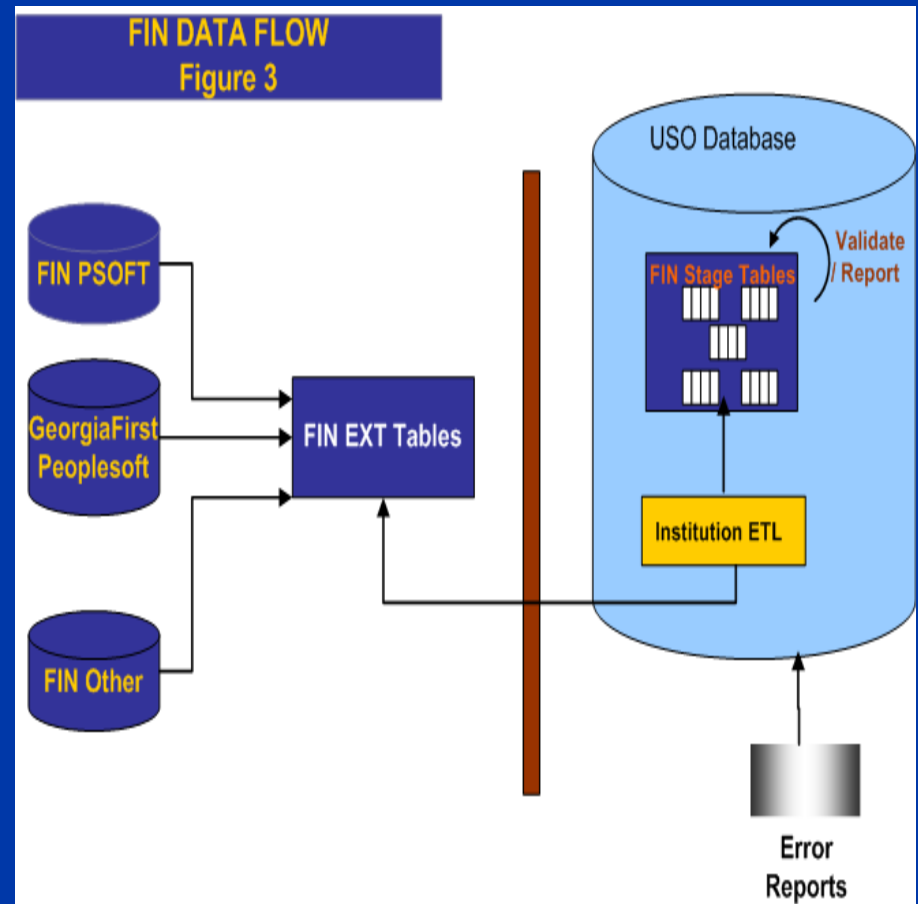




Institution ETL –FIN Current

Financial Data Mart

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

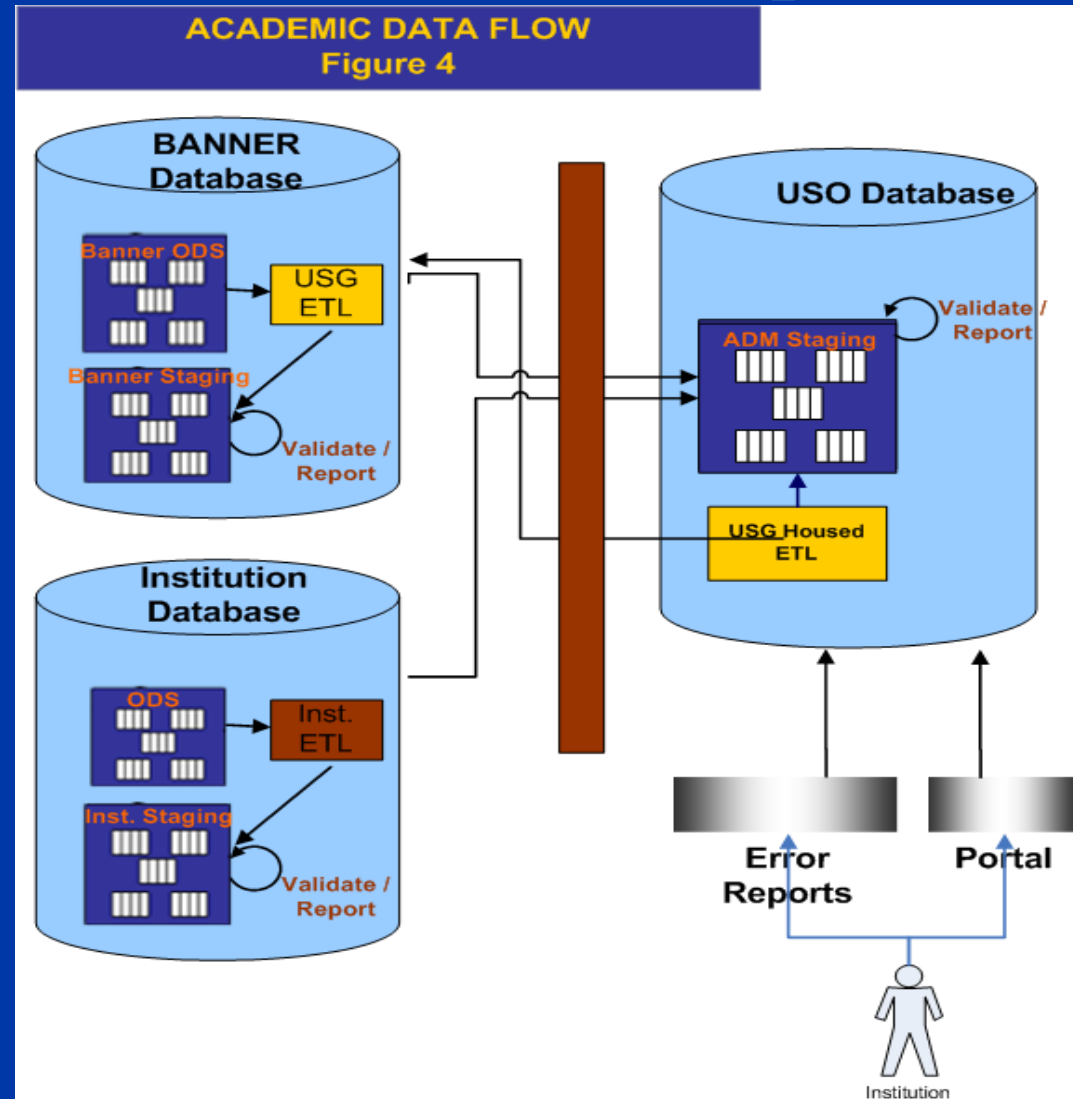




New ADM ETL Process Proposal

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

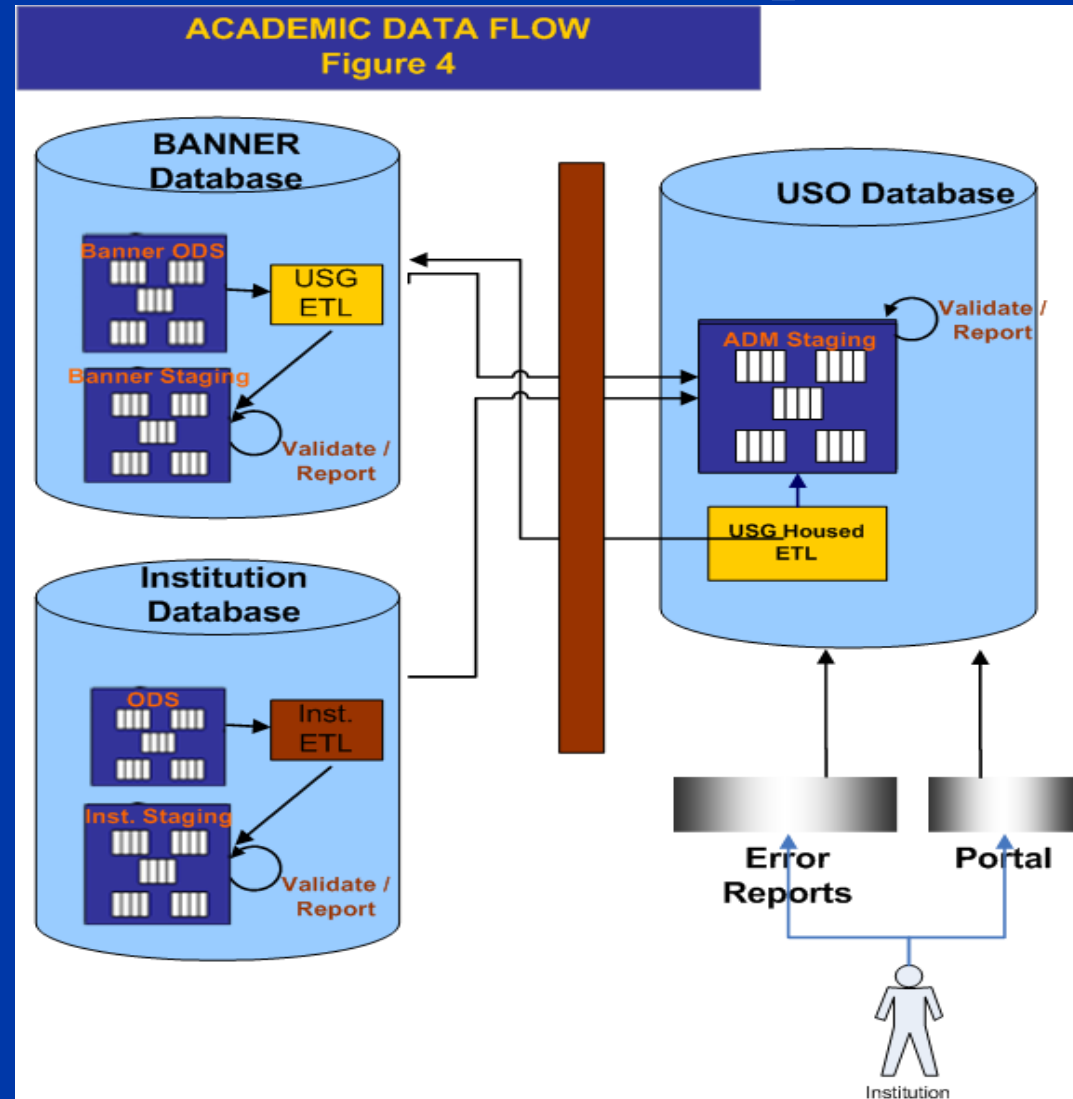




New ADM ETL Process Proposal

Online Reports

- Error/Validation Reports
- Translation Rejection Reports
- Basic turnaround /headcounts
- Translation Codes References

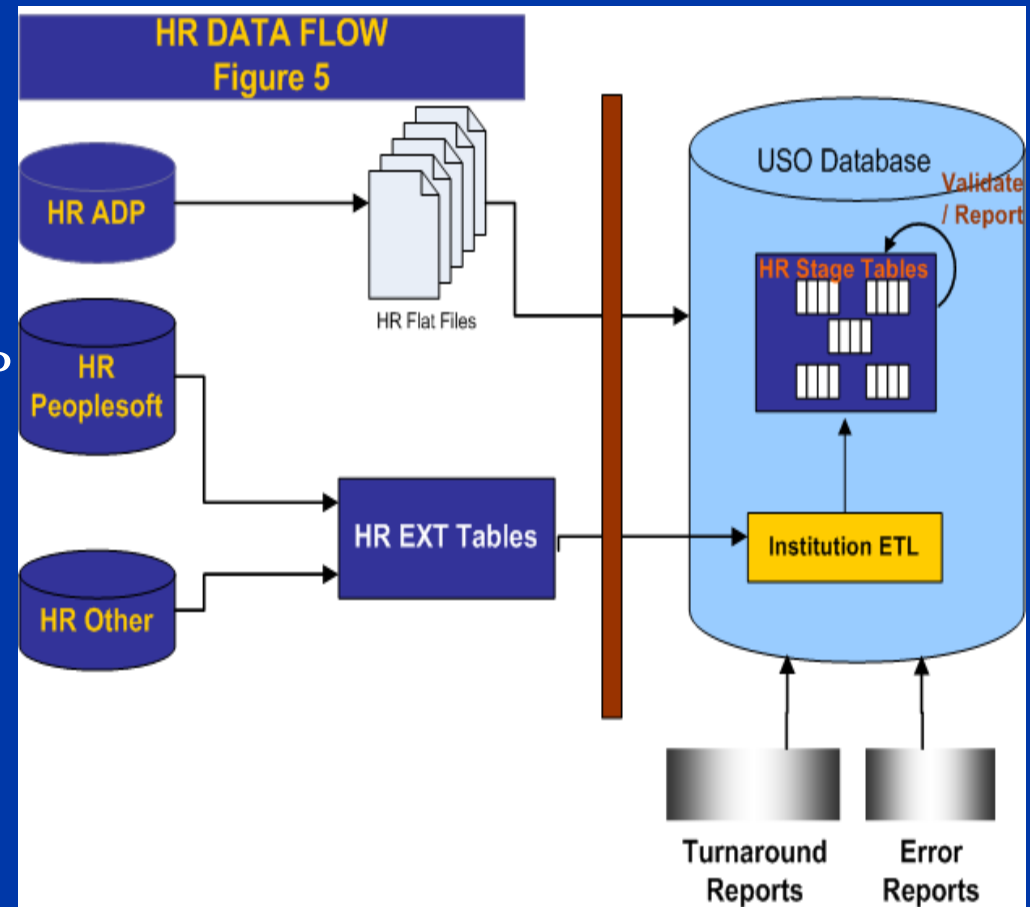




New HR ETL Process Proposal

HR Data Mart

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

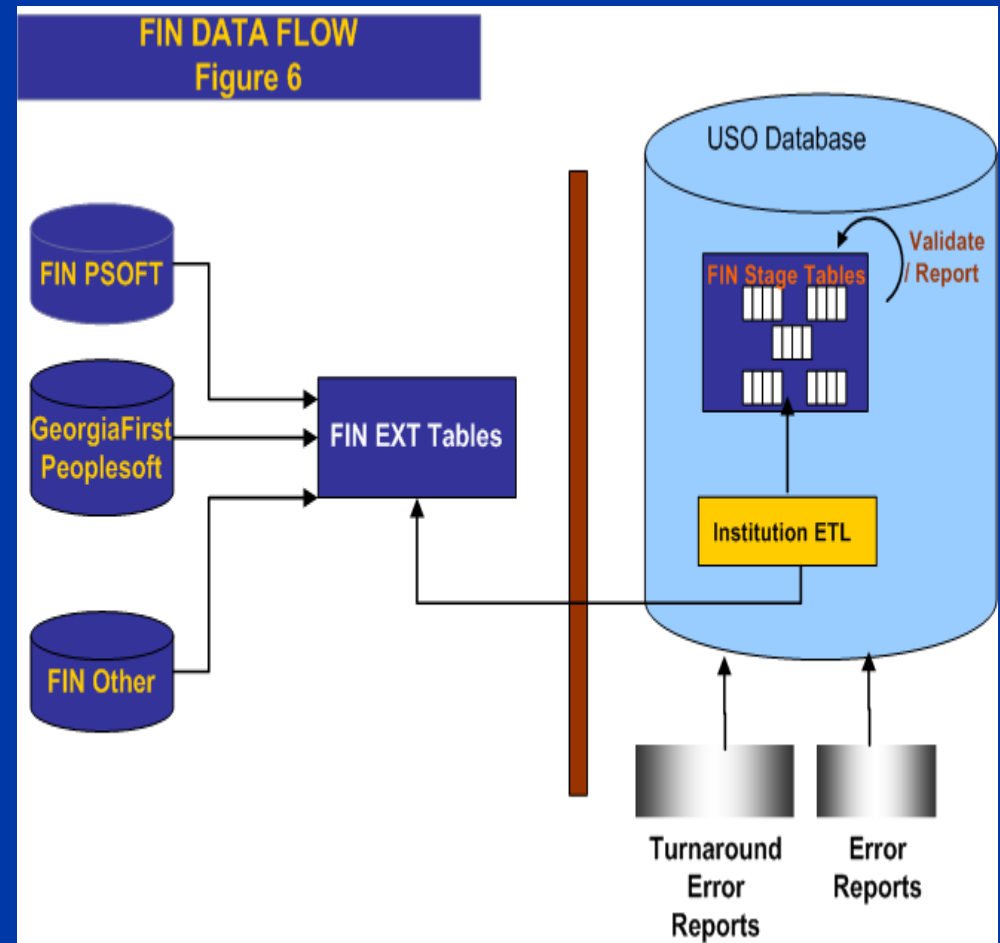




New Financial ETL Process Proposal

Financial Data Mart

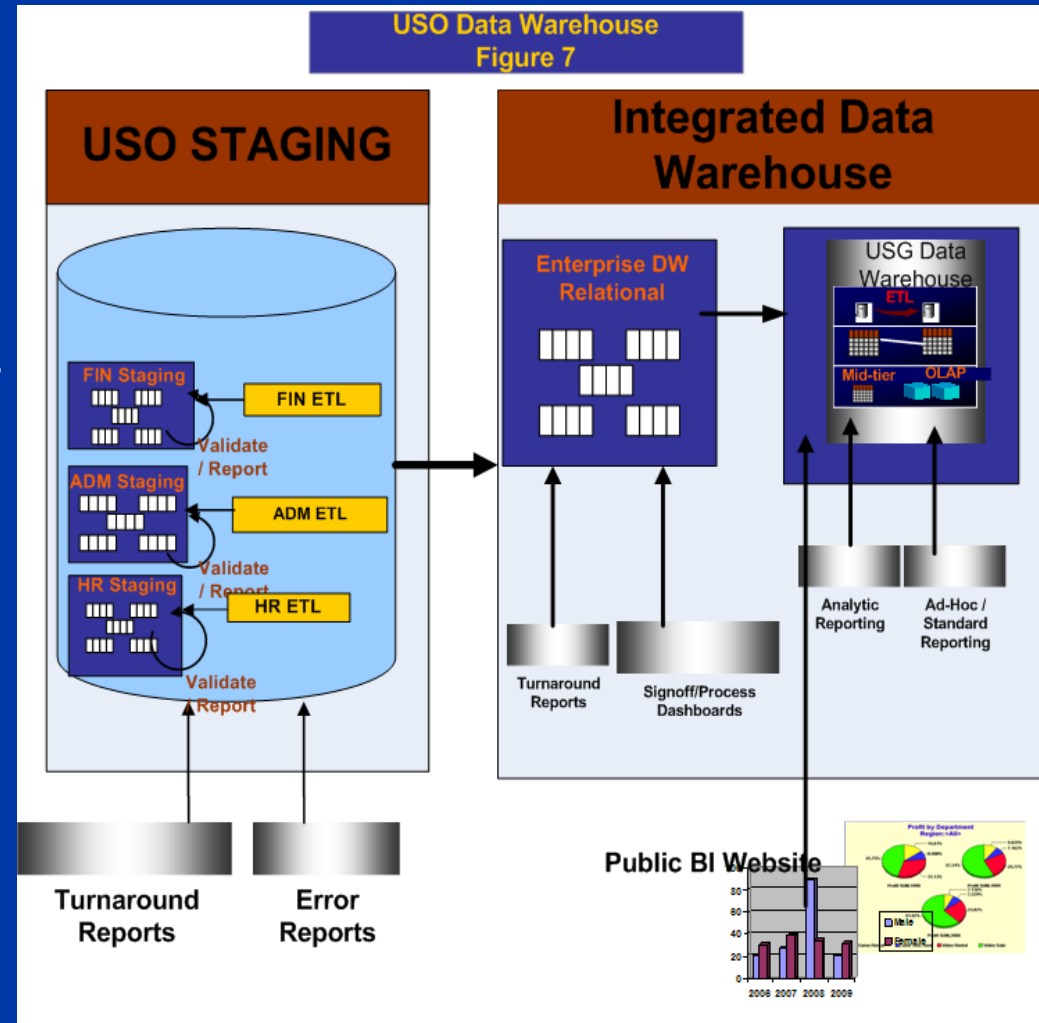
- Define Standard Staging DDL
- **ETL Location** : USO DB
 - On Demand
- **Validations(Editor)**
 - On Demand
- **Online Reports**





New Institution ETL Review Proposal

- Institution(s)
 1. Extract
 2. Validate/Clean Errors
 3. Review USO Staging Reports
 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
 - Validation Package
 - Error Reports
 - Headcount Reports
 - System Office Reference Codes



New Institution ETL Features Recap

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



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