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USG DATA WAREHOUSE REDESIGN

“Creating A More Educated Georgia”
USG Data Warehouse Redesign

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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

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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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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
Institution ETL – HR Current

HR Data Mart

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

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New Financial ETL Process Proposal

Financial Data Mart

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

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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
  – Error Reports
  – 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)

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Questions/Suggestions