BIPM Unified Student/Course Data System

Integrated Student Lifecycle History

Incoming
- inquiries
- applications

Inprocess
- Student registration
- Course activity

Outgoing
- Degrees

Supplemental Data Sources
- Financial Aid
- Accounts Receivable
- Housing
- Payroll
- Alumni

Horizontal Integration
Vertical Integration
BIPMS Student Core* Tables

Incoming
- inquiries
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* Core files contain base Banner data, managed data columns and may include legacy data

Office of Planning & Analysis (OPA)
Business Intelligence and Predictive Modeling (BIPM)

SPSS Data-to-Information Processing

Nightly automated ETL builds

Nightly uploads of model scoring to SORTEST (Banner)

Automated ETL build to non-SPSS data formatted dbo tables for Microsoft Reporting Service Reports

Data to information object process: SOURCE - CODE - OBJECT

OFFICE operations | OFFICE tasks

Open Source development from analyst

Manual ETL builds and development testing

Unit Analyst pulling source data, executing code for object creation & delivery

Objects include reports, analysis, audits, list

BIPM/SPSS Community

Back Office operations | Front Office tasks
Source-Code-Object (SCO) versus Source-Source-Object (SSO) Data Processing

Source-Code-Object (SCO) processing provides a highly efficient (speed and flexibility) system that captures current data, provides complete documentation for all data alterations, can be replicated and automated with the ability to create multiple objects in different dimensions.

Source-Source-Object (SSO) processing is an inefficient (speed and flexibility) system that renders data obsolete, provides little to no documentation of data alterations, cannot be easily replicated or automated, highly manual and with limited ability to create multiple objects in different dimensions.