Enterprise Data Management Support Services
What do we do?

Data Governance Support
The EDMSS Team supports and helps coordinate the activities of committees and other working groups in the design, development, implementation and maintenance of a Data Governance function which incorporates processes that ensure effective delivery of strategic information to the university community.

We do this by:

• Promoting the development of and adherence to university-wide data standards.

• Collaborating with the SIS/ITCS technical teams to ensure a balance between front-end business intelligence and back-end data warehouse processing.

• Promoting effective management and use of institutional data.
Why do we need to do it?

The primary reasons to establish a proper Data Governance program are:

• Ensure data consistency, reliability and integrity

• Eliminate issues around data analysis and reporting

• Help guide and create stability around analytics activities

• Provide greater clarity, confidence and efficiencies when using institutional data
How do we do it?

There are four main areas of focus within the EDMSS Team. They include:

- Data Quality
- Metadata Management
- Data Modeling & Design
- Data Architecture
Data Quality

Data needs to be managed throughout its lifecycle by setting standards, building quality into the processes that create, transform, and store data, and measuring data against the standards.*

The EDMSS team, together with the various Data Consumers at ECU, works to define characteristics that make data of high quality.

Processes and procedures are then developed to ensure data meet the established standards.

Data Quality Dashboard for Student Data Mart
Metadata Management

Metadata includes information about technical and business processes, data rules and constraints, and logical and physical data structures.

It describes the data itself, the concepts the data represents, and the connections (relationships) between the data and the concepts.*

The EDMSS Team is tasked with documenting the University’s data architecture in relation to its business processes with key business areas and critical data elements being the priority.

Impact Analysis  Traceability  Business Context

Banner to ODS Data Lineage

Student Module

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Most current status of the application, whether the status is determined by institution or student.

APPLICATION_STATUS  ADMISSIONS_APPLICATION  REPORTING VIEW  Retrieve Target Reports
Data modeling is the process of discovering, analyzing, and scoping data requirements and then representing and communicating these data requirements in a precise form called a data model.

Data modeling is a critical component of data management.

Data Architecture practices help organizations understand the current state of their systems, promote desirable change toward future state, enable regulatory compliance and improve effectiveness.*

The EDMSS Team, partnering with the rest of ITCS, is working to establish overall modeling and architecture standards for the University’s data.

Data Modeling & Data Architecture

Data Modeling & Architecture Implementation

- Coordinating with the ITCS Teams
- Establish of the SDLC Business Matrix
- Define Data Modeling Dev. Process
- Long-term Operating Models for Data Models
- Establish Data Architecture documentation

EDMSS

Consistent and Quality Deliverables
Data Modeling & Data Architecture

Results (so far):

• The EDMSS Team has identified unused and/or duplicate database objects (tables/views) in production and test databases (eg. PBAN/BTST, PiratePort, etc.) and begun moving them to the ‘obsolete schema’ where they are retained for one (1) year for the purpose of reference and/or remedies for potential issues in the future.

• We have created the data dictionaries (data definition matrix) for the ECU Banner database metadata.

• Working with the ETL Team, we are creating a template mapping process that can be used to document ETLs for planning, change management and support purposes.
Questions?