Student Lifecycle Decision Center

Product Vision
For: GW Decision Makers
Who: Desire a simple way to access, use, and understand student information
The: Student Lifecycle Decision Center
Is an: Integrated source of student data
That: provides easy to use information that spans multiple years and can be consumed in multiple ways (Reports, Ad hoc queries, Dashboards, etc...)
Unlike: SQL reports and manual spreadsheets
This Product: Will be easy to use, visual, automatically updated, secured, and certified

New Report:

- **Summer Melt** – The BIS team created a report for the Enrollment Management & Retention team to help address the attrition of incoming first-year undergrads by identifying those who have made a deposit and indicated that they are coming in the Summer or Fall but have not completed all activities required for coming to GW. The report includes indicators such as whether they have applied for financial aid and housing, whether they have submitted their high school transcript and registered for courses. Different offices then use the report to contact students to help them complete the different requirements and avoid the “melt” of those students.

Sample output for Summer Melt report

Additional Features for Student Lifecycle Decision Center:

- **New data elements** – The student’s undergraduate admissions email and underrepresented minority (URM) indicator were added to the Student dimension for use in reports and dashboards.
Census Decision Center

Product Vision
For: GW Decision Makers
Who: Desire a simple way to access, use, and understand Census Information
The: Census Decision Center
Is an: Integrated source of Census data
That: provides easy to use information that spans multiple years and can be consumed in multiple ways (Reports, Ad hoc queries, Dashboards, etc...)
Unlike: Distributed Census reports
This Product: Will be easy to use, visual, automatically updated, secured, and certified

Update:
In past releases, census data from the last five academic years has been provided by the Office of Institutional Research & Planning (IRP) and loaded into the data warehouse.

In this release, the BIS Team has been working on pulling data directly from Banner, incorporating business rules that IRP has used in the past. This continues to be a priority for both teams, ensuring that the census data is correct, timely and reliable.

Housing Decision Center

Product Vision
For: GW Decision Makers
Who: Desire a simple way to access, use, and understand Housing Information
The: Housing Decision Center
Is an: Integrated source of Housing data
That: provides easy to use information that spans multiple years and can be consumed in multiple ways (Reports, Ad hoc queries, Dashboards, etc...)
Unlike: Distributed reports
This Product: Will be easy to use, visual, automatically updated, secured, and certified

New Products:
- Room Assignments [BETA] – Student room assignments for the last 5 academic years have been brought into the data warehouse. Questions such as “how many students are in a particular building on a particular date”, “when did a student move in and move out”, “how many bedspaces are there in a building” can be answered using this fact table.

Availability:
- The BETA version is available to a select group of users in Housing.
Human Resources Decision Center

Product Vision

For: GW HR Decision Makers
Who: Desire a simple way to access, use, and understand Human Resources Information
The: HR Decision Center
Is an: Integrated source of Human Resources data
That: Provides easy to use information that spans multiple years and can be consumed in multiple ways (Reports, Cubes, Dashboards, etc...)
Unlike: SQL reports and manual spreadsheets
This Product: Will be easy to use, visual, automatically updated, secured, and certified

Added Features:

- **Position Classification Dimension** – Job family, sub-family and stream have been added for use in reports and dashboards

![Position Classification Dimension Table]

- **Performance Review** - Now available as a Tableau Published Data Source

- **Position Budget** – The following have been added to the model:
  - The employee currently in the position if it is not a pooled position
  - The count of employees currently in the position

Availability:

- Accessible to authorized users in the data warehouse and authorized power users with Tableau Desktop licenses
Financial Aid Decision Center

Product Vision
For: Enrollment Management, Financial Aid, and Schools
Who: Desire a simple way to access, use and understand Financial Aid data
The: Financial Aid Decision Center
Is an: Integrated source of Financial Aid data
That: Provides easy to use information that spans multiple years and can be consumed in multiple ways (Reports, Ad Hoc queries Dashboards, etc...)
Unlike: SQR Reports
This Product: Will be dimensional at the detail level, automatically updated, secured, and certified

Added Features:

• Financial Aid Student Type – With business rules provided by the Financial Aid Office, a new student type was added to more easily describe groups of students receiving financial aid.

Sample Financial Aid visualization using FA Student Type

Availability:
• Accessible to authorized users in the data warehouse.

Principal Investigators (PI) Dashboard

Product Vision
For: Principal Investigators
Who: Would like to manage their awards
The: PI Dashboard
Is an: Interactive visualization tool
That: Provides key information and metrics
Unlike: Compiling data from different sources and merging them together in spreadsheets
This Product: Can be accessed online or on mobile devices, is secure, and pulls data from the data warehouse

Modified Features:

• Changes were made to the logic that flags an expenditure item as “in suspense”. This has resulted in less manual intervention and hundreds of hours saved by the staff in the Office of the VP for Research.

Availability:
• Accessible to authorized users in the data warehouse.
Business Intelligence Services (BIS) Strategic Initiatives

New Dashboards:

- Faculty Teaching Credit Hours – Created for Faculty Affairs, the dashboard looks at a faculty member’s teaching load and looks for issues such as overbooking.

Availability:

- The dashboard is available to a select group of users from Faculty Affairs.

ThoughtSpot Implementation

ThoughtSpot Upgrade:

- ThoughtSpot has been upgraded from version 4.4.0 to 4.4.1.4, delivering UI enhancements, security patches, and bug fixes.
- Full details of what’s new are available here: ThoughtSpot 4.4.1 Release Notes

Learn more about ThoughtSpot: https://www.thoughtspot.com/
Linkurious and Neo4j Implementation

Product Vision

For: GW Faculty and Staff
Who: Need to understand the complex relationships and pathways between items
The: Plan to bring Linkurious and Neo4j into the BI environment
Is an: Implementation of a graph database BI tool
That: Allows users to understand complex relationships and path analysis in a user friendly and secure manner
Unlike: Our other BI tools (Cognos, Tableau, ThoughtSpot) that are used for relational databases
This Product: Natively reads Neo4j graph database content.

Linkurious and Neo4j were added to the Business Intelligence (BI) environment in Release 11.

Neo4j is a NoSQL graph database management system developed by Neo Technology. Unlike traditional relational databases like Oracle or MySQL that utilize tables to store data, a graph database is intended to capture relationships between entities using nodes and edges (i.e. relationships). Today, Neo4j is used by thousands of companies and organizations in almost all industries. Use cases include matchmaking, network management, software analytics, scientific research, routing, organizational and project management, recommendations, social networks, and more.

Linkurious is graph visualization software meant to enable users to easily navigate the graph database and discover patterns in the data. Linkurious is best known for helping the International Consortium of Investigative Journalists (ICIJ) expose the connections behind the Panama Papers in 2016.

In this Release, the BIS team loaded Neo4j with how all users in the enterprise accounting system are linked to accounts. This allows questions like “what accounts can a user see” and “who is able to see an account”?

Example: What accounts (green) can a user (blue) see?
Example: Who can see an account?

One account (green) can be seen by 29 different users (blue) through different paths.

Some paths (orange) do not have users (blue).