• Introduction
  Oksana
• AIDA Updates
  Adrian
• ODG Project Updates
  Sara / Tammana
• Collibra DGC Updates
  Chrissy
  • Upgrade / UX updates
  • Change to Business Term Approvals
  • Frequency of Workflow Notifications Poll
• EDM Roadmap FY23-25
  Satya Kunta
• EDM Communications
  Manish Devjani
  • Enterprise data communications preferences
AIDA Updates
AIDA Roadmap FY21

Updated 2021-08-02

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<th>AIDA Core</th>
<th>AIDA Core Enhancement</th>
<th>Client Backlog (Operations)</th>
<th>Enhance User Experience</th>
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<tr>
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<td>AnalytixDS to Collibra Conversion</td>
<td>Interfolio (Faculty)</td>
<td>Steward Training</td>
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<td>Events; Athletics (Student)</td>
<td>Emma - Phase 2</td>
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<td>Steward Training</td>
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<td>Housing (Student)</td>
<td>Wherescape Conversion</td>
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<td>DQ using DataGaps</td>
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<td>Building Attributes from SMS</td>
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<td>Shop for Data</td>
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<td>Link Buildings: SMS &amp; Lenel (Space)</td>
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<td>Career Outcome (Student)</td>
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<thead>
<tr>
<th>Client Request Backlog</th>
<th>AIDA Core</th>
<th>External, IT Funded</th>
<th>Registry Replacement (Identity)</th>
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<tbody>
<tr>
<td>Done</td>
<td>AIDA Core</td>
<td>External, IT Funded</td>
<td>Registry Replacement (Identity)</td>
</tr>
<tr>
<td>Start To Be Determined</td>
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</table>
**Institutional Data Assets**

- **1000+** Data Attributes
- **45+** Business Glossaries

**Org Enablement**

- **5+** Strategic Projects
- **2+** Enterprise Databases

**Data Governance Support**

- **2000+** Business Terms
- **900+** Structures’ Lineage

- Development focused on reusability
  - BI, Data Integration, Advanced Analytics
  - Data and attributes across functional areas
    - Identity, Student, Faculty (180)
    - Space
  - Reference Data Management
    - Managed Code Sets

- Integrations and Data Sourcing
  - *Interfolio*, identity-related projects, others

- Operational Streamlining
  - API Request Form integration
  - Data Automation (*WhereScape*)

- Continued Development of the Business Glossary
  - Data Dictionary

- Continuing Training & Support
  - Partnership with Office of Data Governance

- Workflows
  - Review and Enhancements

**Future in Progress**

- Institutional Data Assets
  - Continued development across functions

- Reference Data
  - Distributed support for crosswalks
  - Additional code sets

- User Experience
  - More automated workflows
  - Additional support resources

- Unified Effort
  - ...across schools, portals, and central
  - Shared view across major work streams
    - Data Governance
    - Enterprise Architecture
    - Data Management
    - Information Security
    - Data Quality
    - Business Intelligence

*October 2021*
### UNIVERSITY BUSINESS CAPABILITIES (FUNCTIONS)

<table>
<thead>
<tr>
<th>Attract, Admit &amp; Retain Students</th>
<th>Enable Research &amp; Scholarship</th>
<th>Enable Teaching &amp; Learning</th>
<th>Foster Alumni and Constituent Relations</th>
<th>Manage Academic Programs</th>
<th>Manage Academic Enrollment</th>
<th>Manage Facilities</th>
<th>Manage Finances</th>
<th>Manage Human Resources</th>
<th>Manage Information Technology</th>
<th>Run the Campuses</th>
<th>Run the Institution</th>
<th>Support Faculty Engagement and Development</th>
<th>Support Student Life</th>
</tr>
</thead>
<tbody>
<tr>
<td>Admit Students</td>
<td>- Execute Research</td>
<td>- Assess Learning</td>
<td>- Design Program Curriculum</td>
<td>- Confer Degrees and Credentials</td>
<td>- Design and Construct Facilities</td>
<td>- Maintain Accounting</td>
<td>- Total</td>
<td>- Deploy Solutions</td>
<td>- Enable Campus Transactions (ID Cards)</td>
<td>- Communicate</td>
<td>- Manage Career Trajectory</td>
<td>- Deliver Career Services</td>
<td>- Manage Student Athletics</td>
</tr>
<tr>
<td>- Award Grants, Scholarships &amp; Aid</td>
<td>- Initiate Research</td>
<td>- Deliver Instruction</td>
<td>- Manage Accreditation</td>
<td>- Maintain Student Academic Records</td>
<td>- Ensure Facilities Compliance</td>
<td>- Manage Liquidity (Treasury)</td>
<td>- Attract Employees</td>
<td>- Develop Solutions</td>
<td>- Ensure Campus Security</td>
<td>- Conduct University Outreach</td>
<td>- Recruit and Retain faculty</td>
<td>- Enable Student Athletics</td>
<td>- Manage Work-study</td>
</tr>
<tr>
<td>- Foster Localized Student Experience</td>
<td>- Manage Grants</td>
<td>- Design Courses</td>
<td>- Manage Online Programs</td>
<td>- Manage Student Registration</td>
<td>- Manage Buildings</td>
<td>- Manage NYU Endowment &amp; Investments</td>
<td>- Develop Employees</td>
<td>- Manage Architecture</td>
<td>- Manage Campus Retail</td>
<td>- Innovate</td>
<td>- Track Faculty Credentials and Portfolio</td>
<td>- Manage Work-study</td>
<td>- Manage Work-study</td>
</tr>
<tr>
<td>- Manage Student Recruitment</td>
<td>- Manage Library Services</td>
<td>- Evaluate Courses</td>
<td>- Register and Review Academic Programs</td>
<td>- Schedule Courses</td>
<td>- Manage Space</td>
<td>- Manage Payroll and Benefit Disbursements</td>
<td>- Engage Employees</td>
<td>- Manage Data</td>
<td>- Manage Dining</td>
<td>- Manage Institutional Research</td>
<td>- Track Faculty Workload</td>
<td>- Provide Mentoring Opportunities</td>
<td>- Manage Work-study</td>
</tr>
<tr>
<td>- Promote Student Success and Retention</td>
<td>- Manage Research Compliance</td>
<td>- Provide Academic Advising</td>
<td>- Support Academic Programs</td>
<td>- Provide Fire and Life Safety</td>
<td>- Manage Student Financials</td>
<td>- Offboard Employees</td>
<td>- Manage NYU IT Services</td>
<td>- Manage Events</td>
<td>- Manage Institutional Risk</td>
<td>- Provide Student Residential Services</td>
<td>- Support Activities and Clubs</td>
<td>- Support International Students</td>
<td>- Support Student Health &amp; Wellness</td>
</tr>
<tr>
<td>- Manage Research Computing</td>
<td>- Manage the Budget Total</td>
<td>- Retain Employees</td>
<td>- Mitigate Risk and Cybersecurity Threats</td>
<td>- Manage NYU Global Identity</td>
<td>- Support Activities and Clubs</td>
<td>- Support International Students</td>
<td>- Support Student Health &amp; Wellness</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>- Publish &amp; Share Research</td>
<td>- Manage Travel and Expense Total</td>
<td>- Run Day-to-Day IT Operations</td>
<td>- Perform Optimally</td>
<td>- Support Customer Support</td>
<td>- Support Institutional Governance</td>
<td>- Support Student Health &amp; Wellness</td>
<td>- Support Student Health &amp; Wellness</td>
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</tr>
</tbody>
</table>

### References & Notes:
1. **Business Capabilities** are mapped to University leaders, key support personnel, and systems.
2. Use the business functions hyperlinks to better understand business terms, definitions, and technical details in Collibra.
3. Green italics indicate related data is in AIDA.
Facilitate decisions using coherent, trustworthy, institutional data assets.

Note: The details listed are intended as illustrative examples only.
Facilitate decisions using coherent, trustworthy, institutional data assets.

- Promote a common view of the university
  - Business Capabilities Model
  - Participation across schools, campuses, central
- Build a knowledge and asset repository
  - Data governance
  - Collibra
- Build and support communities of practice
  - Data analysts, scientists, and other consumers
  - Data trustees, stewards, and other stakeholders
ODG Project Updates
1. Data Governance and Collibra Onboarding
2. Collibra Standards Development
3. Data Governance Participants List
4. Fall Enrollment Census
5. Census ETL Process Improvement
6. DG Model for Enrollment Census
7. DG Model for Undergraduate Admissions Reporting
8. Reporting Department Crosswalk
Objective:
• Provide **foundational and contextual knowledge** on the goals and strategies of the NYU Data Governance Program, as well as inform participants about their roles, responsibilities, and expectations.
• Provide **hands-on Collibra training** to data stewards in alignment with core responsibilities.

• DG Onboarding and Collibra Trainings are being provided in a single 1 hour session.

• New DG Participants and DG Participants who have not yet attended a session are all sent invitations.

**Note:** if you have not attended a session, you may not have full access to your content in Collibra.

**Note:** If you missed the sessions offered in the past, reach out to the Office of ODG to schedule your training session.
Objective:
• Create standard requirements and document best practices around the creation and development of metadata in Collibra, in order to...
  ○ have consistency across assets, domains, and communities
  ○ have information necessary for end users

Complete:
• Business Glossary Standards (shared in DG Onboarding/Collibra Training Sessions)

In Progress:
• Physical Data Dictionary Standards
• Data Set Standards
• Report Standards
Objective:

• Review, update, and confirm the structure and names within the Data Governance Participants List to ensure we appropriately represent and have buy-in from areas of data around the university.

• If you have team members that are leaving, please let us know!

• Ad-Hoc Changes Request form can be found on the Participants in Data Governance of the ODG website

• We will be implementing our annual confirmation starting in 2022. Keep an eye out for instructions in our January DSQ meeting.
Final Status

- Adding two new rules to check for enrolled students with 0 credits/classes
- Final DQ Score was 99.98% Passing
Objective: (1) Identify differences between the census (snp) and daily load ETL processes and determine if they are necessary, and (2) eliminate unnecessary differences such that there is either a single ETL process or two aligned ETL processes, in order to make NYU data more consistent as well as reduce time and effort during census validation processes.

Overview:
• Explore differences in the ETL and resulting values; request buy-in from stakeholders to determine potential effects
• Develop single / aligned ETL process(es)
• Pilot aligned ETL; run old ETL in parallel for reliability testing
• Implement single / aligned ETL for all future terms

Progress Updates
• regular meetings between ETL and IR team scheduled
• technical due diligence in progress
# Data Governance Model for Enrollment Census

**Objective:**
- Implement the Data Governance Model for the Enrollment Census process in Collibra
- Create business and technical metadata for Enrollment Census, including lineage and traceability between pieces of metadata

## Key Deliverables:

- **Report Catalog** → Complete
- **Business Glossary** → In Progress
- **Physical Data Dictionary** → Complete
- **Data Set** → In Progress
- **Data Quality Rules** → TBD

... all linked together for a holistic view and understanding of the data → In Progress
DG Model for Undergraduate Admissions Reporting
Progress Update

Objective:
• Ensure the values of the Data Governance Model are aligned to the Gartner recommended goals.
• Partner with DGSS to ensure regular improvements in Collibra on topics of Business Glossary, business metadata, and provide support to the
  Data Governance Participants list.
• Strengthen network across NYU by communicating and support training for roles and responsibilities as needed.

Overview:
• The DG Model for Undergraduate Admission Reporting Project intents to implement a process to ensure that the data that is being sourced
  from “Common App” is aligned in systems using the data for reporting purposes. The systems in scope are SIS Albert & SLATE.

Progress Updates
• DataGap was the data quality tool used to identify differences between the NYU Undergraduate Admissions data in SLATE and SIS
• Data quality assessment and dashboard is ready for review to eliminate data discrepancies, and make NYU data more consistent across
  systems while reducing time and effort during the annual census validation processes
• Assessments can be processed throughout the year to ensure that data quality is consistent and reliable at any point in time
• Next Step: Data cataloging will be completed in Collibra where technical and business metadata will be linked

<table>
<thead>
<tr>
<th>Project Phase Updates</th>
<th>Completed Items</th>
<th>Outstanding Items</th>
</tr>
</thead>
<tbody>
<tr>
<td>Discovery – Completed</td>
<td>• Project Charter and deliverables were signed off by the project team</td>
<td></td>
</tr>
<tr>
<td>Design – Completed</td>
<td>• All data quality rules completed in DataGaps and available for review</td>
<td></td>
</tr>
<tr>
<td>Implementation – Completed</td>
<td></td>
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</tr>
<tr>
<td>Post-Implementation – Started</td>
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</tbody>
</table>
Final Status

- 113 data quality rules were added to Datagaps to ensure data is consistent across SLATE & SIS
- Latest DQ Score was 98.8% Passing
Objective: To standardize academic and administrative names & codes across NYU enterprises affecting reports that determine data access and engage with senior leadership.

Project Objective:
Restore historical logic to update Reporting Department Crosswalk (RDC) - Ongoing Process

Project Outcomes

- Process is ran biweekly and tracked by ModTrack (Last Update: 10/22/2021)
- NYU program “CUSP” has moved under Tandon School of Engineering, the recent change in school hierarchy will be available in the Crosswalk in the near future
- Streamlined validation process to ensure data accuracy in downstream reports

Next Steps

- Continue to further streamline & clean up the Crosswalk and Hierarchy reports
- Pending decision from NYU Registrar on how the NYU CUSP codes should be in the Reporting Department Crosswalk
2022 DSQ Meetings

- Q1 = Monday, January ? @ 2 - 2:30 PM
- Q2 = Monday, April 11 @ 2 - 2:30 PM
- Q3 = Monday, July 11 @ 2:30 - 4 PM
- Q4 = Monday, October 17 @ 2 - 2:30 PM
Collibra DGC Update
We are upgrading to a new version of Collibra this month. Same information, new look and feel:

Find your community

Global "Create"

Your profile

Global Business Glossary
We’ve increased the number of terms in the business glossary tenfold. Thank you!

Have you referred anyone to the Collibra business glossary yet?
Based on your valuable input, we are updating the business term approval workflow so that:

✓ Data Stewards, rather than Trustees, approve terms
✓ Data Trustees have the option to be informed when terms get approved
✓ Terms move from Candidate to Accepted
EDM Roadmap FY23-25
Presented by Satya Kunta
NYUIT Enterprise Data Management
Vision, Mission and Guiding Principles

DATA@NYU: Protected, Organized and Interconnected

**Vision**

To provide protected, organized and interconnected data as a service to everyone who has a need for information

**Mission**

Establish the strategies, services, standards, tools and platforms to support an open, flexible, trusted, secured and governed data ecosystem to support application integration, reporting and analytics

**Guiding Principles**

Simple, Accurate, Timely, Secured, Self-Service
Data Strategy Alignment to Business Goals

**Data Literacy**: Improve data training for the knowledge workers

**Standard Data**: Continuously grow strategic IT investments (e.g., API portal, AIDA Data Hubs, UDW+ Modernization, Shared Reporting Portals etc.) to establish and disseminate standard data sets to knowledge workers.

**Data Security/controls**: Develop and improve processes for requesting access to data with approval workflows and controlled access policies using data security guiding principles.

**Data Supply**: Reduce the time and cost required to ingest, process and disburse data from variety of data sources for business needs.

- Improve NYU’s ability to create, preserve, and disseminate knowledge
- Improve trust in data management decisions and data quality
- Reduce risk through regulatory, policy and procedural compliance
- Provide visibility of “What” and “Where” the data is located
- Provide “How” the data can be requested and used
- Provide what systems are using the data and for what purposes
**System of record**

- **Mulesoft**

**Middle layer - Data building blocks -- AIDA - SLT**

**Mulesoft - API governance**

**Unique Data services (data for Sailpoint)**

- **designed for:**
  1. unique attributes for given use cases
  2. near real time data ingestion
- **challenges:**
  1. on going maintenance

**reusable system APIs - e.g. Identity API**

**Collibra - data about data (metadata catalog), data shop front and workflows**

- **designed for:**
  1. common uses cases
  2. most efficiently way to control data access
EDM Strategic Priorities

**BI/Analytics**
• BI licensing strategy across toolsets (OBIEE, Tableau, Brio)
• BI data management/data services modernization (OAC/Saas)
• Develop Data Science strategy/support (R, Python, Spark)

**Data Warehouse**
• Modernize UDW+ & migration to Cloud DW (Snowflake)
• Create Data Marketplace for Data Shopping experience
• Create Metadata repository with Governance process

**API Platform**
• Create an open, accessible API platform
• Introduce new and improved reusable APIs
• Introduce advanced capabilities (JWT, GraphQL APIs)

**Data Governance**
• Align with “Business Capabilities Model” for DG functions
• Continue to maintain knowledge and asset repository
• Foster “Community of Practice” for consumers and authors

**Data Operations**
• Cost and performance optimization strategies
• Re-architect and consolidate UDW and Census
• Build and implement low cost global operating model
Appendix
EDM High Level Technical Architecture
EDM Communications
Presented by Manish Devjani
Zoom Poll

1. For which information items do you believe it is very important that you receive communications about? (pick all that apply)
2. How do you typically get information about the enterprise data activities?
3. How would you prefer to get information about the enterprise data activities?

Discussion Questions

1. What other topics do you feel are important for you to know more about and would like the data team to include in future communications? {Zoom chat}
2. Other feedback on ways to improve communication {Zoom chat / open discussion}
Questions?
Thank you!