

# Data Governance Framework At Stony Brook University

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This framework for data governance for PeopleSoft and the Data Warehouse establishes a set of principles, structures, roles, and responsibilities at Stony Brook University to improve the data infrastructure and to advance institutional goals for operational excellence. The executive sponsors of Stony Brook's Data Governance System are the Vice President for Strategic Initiatives and the Chief Information Officer, who elevate issues and resource requirements to senior leadership as needed.

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## Scope

This data governance framework applies to all University administrative data. Systems housing HIPAA-protected patient data and research data managed by principal investigators and their teams lie outside the scope of this framework. The scope is extensible to other data assets with approval of the Data Governance Council and notification of the Executive Sponsors.

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## Values

### Shared Assets

Data and information are shared organizational resources that constitute valuable assets.

### Stewardship

Employees of Stony Brook University have a responsibility for the curation of data. They serve as caretakers of data to ensure data are collected, stored, and maintained under the premise that others will access and use them over time.

### Quality

To ensure data retain value, quality of data is actively monitored and maintained.

### Privacy and Confidentiality

Maintenance of individual privacy and confidentiality of educational and personal records represent not only legal requirements but also primary outcomes of data management.

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## Data Governance Definition

To enable and enhance organizational effectiveness, data governance formalizes behavior around how data are defined, produced, used, stored, and destroyed (Seiner, 2014; Gartner, 2013).

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## University Administrative Data

Administrative data are information collected or created through a function of the university. (Stony Brook Policy 302). These data are owned by the university with responsibility for stewardship delegated to areas or individuals.

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## Principles for Data Governance

### Organizational Effectiveness

Data governance activities improve organizational effectiveness and efficiency of operational processes.

### Transparency

Data governance policies, activities and products exhibit transparency through documentation available to the University community.

### Communication

Data governance promotes and ensures communication so that the data produced are fully understood and can be reproduced with the same results.

### Compliance

Data governance adheres to and enables institutional compliance with applicable statutes, regulations, and policies; including but not limited to areas of security, privacy, and record retention.

### Auditability

Data governance promotes means to document and verify data and metadata, track changes and justifications for changes.

### Integrity

Data governance participants practice integrity with their dealings with each other; they are truthful and forthcoming when discussing drivers, constraints, options, and impacts for data-related decisions.

### Accountability

Data governance defines responsibilities for cross-functional data-related decisions, processes, and controls.

### Standards

Data governance identifies and supports consistent standards for data elements, dictionaries, metadata, quality, and usages.

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## Structures for Data Governance

- I. **Data Governance Council (DGC)**
  - a. Role: Recommend and implement institutional policy for data governance of university administrative data, including for how data are defined, produced, used, stored, and destroyed
  - b. Responsibilities
    1. Develop and follow procedures for internal council operation, officers, meetings, workflow, and voting
    2. Develop and oversee implementation of institutional data strategy
    3. Develop, recommend and evaluate effectiveness of policies, procedures, and processes for data management, data quality, and data use
    4. Elevate to Executive Sponsors issues of institutional policy or practice that require resolution or additional resources
    5. Set priorities for preserving and increasing value of data assets
    6. Oversee data quality monitoring and improvement
    7. Set standards for data dictionaries and definitions, reporting conventions
    8. Ensure compliance and coordination with security policy
  - c. Membership
    1. Chief Institutional Research Officer
    2. Analytics and Enterprise Data Officer
    3. University Controller
    4. Chief Enrollment Management Officer
    5. University Registrar
    6. Chief Financial Aid Officer
    7. Provost's Office designee
    8. VP Student Affairs designee

9. SVP Administration designee
  10. VP Finance designee
  11. VP Advancement designee
  12. VP Human Resources designee
  13. VP Information Technology designee
  14. VP Research designee
  15. SVP Health Sciences Designee
  16. University Senate designee
  17. Ex officio: University staff directly supporting data governance
- d. Structure
1. Chair
  2. Vice-Chair

## II. Roles for individuals

### a. Domain Data Stewards

1. Role: Domain data stewards implement data management policies and procedures in domains of data that cut across multiple business areas.
2. Responsibilities
  - a. Maintain inventory of data assets
    - i. List of tables, fields, dictionary information
  - b. Coordinate Area Data Stewards in implementation of consistent data standards
  - c. Maintain data dictionary for domain in consultation with data owners, ensuring each element
    - i. Has clear an unambiguous definition
    - ii. Has clear value definitions assigned to all values
    - iii. Is still being used (oversee removal/retirement of unused elements)
    - iv. Has adequate documentation for origin and sources of authority
  - d. Communicate data governance policies, procedures and practices to data owners
  - e. May have role in security policy to confer and restrict access to data
3. Membership
  - a. Data stewards are identified by the functional leader of an operational unit that manages data
  - b. Data stewards have data governance responsibilities as formal components of their performance plan

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### Domain Data Stewards

Domains include:

- Enrollment Management
- Financial Aid
- Human Resources
- Research Administration
- Student Records
- Accounting, Budget, Administration areas
- Campus residences
- Center for Excellence Teaching & Learning

### b. Area Data Stewards

1. Role: Responsible for data and metadata of one or more domains for a specific organizational area or unit and work with domain data stewards to ensure data in their area are aligned with business requirements, to manage the life-cycle of their data, and to ensure data quality
2. Responsibilities
  - a. Ensure data in area are complete and adhere to valid values as specified in data dictionary.

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### Area Data Stewards

Areas with domain data stewards include:

- Colleges & Schools
  - VP area HR functions (Provost, HSC, Medicine)
  - Enrollment management areas (West Campus UG, East Campus UG/GR, SPD, Graduate School)
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- b. Oversee life cycle of data in the area – data collection, entry, maintenance, and deletion
  - c. Communicate business requirements for data elements to domain data stewards and other areas of the university
  - d. Communicate data standards and requirements to members of their area/unit to ensure consistency
- c. Data Users**
- 1. Role: individuals who use and analyze institutional data as part of their assigned duties and role at the university.
  - 2. Responsibilities:
    - a. Recognize that institutional data and information derived from it are potentially complex. Make efforts to understand the source, meaning and proper use of the data through training sessions, utilizing data dictionaries and knowledge of supporting system processes.
    - b. Include information about the data source and criteria when distributing data, reports and ad hoc analytics to guard against misinterpretations of data. (see Report Standards in Communication and Training)
    - c. Respect the privacy of individuals whose records they may access. Unauthorized disclosure or misuse of institutional information stored on any device is prohibited (DoIT Policy-D101).
    - d. Ensure that passwords or other security mechanisms are used for sensitive data that need to be stored or delivered electronically
    - e. Report data quality issues to appropriate data steward

### **III. Administrative Data Governance Function**

- a. Role: administer data governance system including carrying out policy agenda of the data governance council
- b. Responsibilities
  - 1. Support the DGC and carry out its policy agenda
  - 2. Respond to inquiries about process, content, limitations and uses of data, especially in cross-functional settings
  - 3. Set up and administer data governance management tools
  - 4. Consider and confirm changes to code sets, additions to tables that have cross-functional impact
  - 5. Assemble and coordinate issue-related teams to address specific data governance issues
  - 6. Generate reports on data quality; recommend metrics for DGC review

**Roles and Responsibilities Matrix**

	<b>Data Governance Council</b>	<b>Domain Data Stewards</b>	<b>Administrative Data Governance Function</b>
<b>Standards and Policies</b>	Define, establish, monitors, audit, verify, develop, revise	Functional implementation	Support, implement, communicate
<b>Data Quality</b>	Identify, adopt enterprise-wide data quality tool, Big picture monitoring, To what extent is Data Quality improving? Where? Monitor Data Quality- identify areas for improvement, Monitor improvement	Review audit reports, Coordinate remediation/clean-up, initial prioritization for Data Quality, Prioritize Data Quality levels by table/area,	Generate data quality reports, make recommendations to DGC, implement DQ policies and procedures
<b>Metadata</b>	Establish standards for metadata format-enterprise-wide	Ensure all meta-data are collected/accurate	Implement standards for meta-data collection
<b>Metrics</b>	Reviewing metrics, Identify metrics for monitoring, Monitoring, Identify priority areas based on metrics	Monitoring, take action based on metrics (clean up)	Propose and generate metrics for DGC review

Data Governance Administrative Function: Ensure cross-functional alignment among metadata

**Changes and Amendments**

This policy shall be amended by a vote of 50% plus one of all members of the Data Governance Council and notification to the Executive Sponsors. Changes go into effect after 60 calendar days of this notification, unless the Executive Sponsors reject the amendments. Amendment and notification is required for extension of scope to additional data assets; changes to membership; etc.

**References**

Gartner (2013). IT glossary “information governance.” Retrieved April 9, 2015 from <http://www.gartner.com/it-glossary/information-governance>

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Stony Brook University (n.d.) DoIT Policy-D101: Classification and use of information assets. Retrieved April 9, 2015 from <https://it.stonybrook.edu/policies/d101>

Stony Brook University (2018). P302: Sensitive information classification policy. Retrieved April 21, 2021 from <https://www.stonybrook.edu/policy/policies.shtml?ID=302>