

**Pathway Goal:** Research, Scholarship, and Creative Activity

**Action Item #**  
2-3

**Report:**

- Mid-Year: December 2016  
 Year-End: April 2017

**Action Item Description:**

Information and Data Management

**Submitted By:**

Name	Department
Kendall Hartley	Graduate College

**Working Group Members:**

Name	Department
Annette Day	Library
Mike Sauer	ESS
Janine Barrett	Graduate College
Christina Drum	Decision Support
Kivanc Oner	ESS
Lori Temple	OIT
Joe Lombardo	Supercomputing Center
Kate Korgan	Graduate College
Rama Venkat	College of Engineering
Mike Ellison	Office of the Controller
Tondre De	VPFA

**Provide a written overview of the year-long process for your working group.**

The committee met four times to date. We systematically addressed the groups charge and developed the accompanying report.

### 2016-17 Accomplishments

Updated the RSCA Key Measures Spreadsheet (linked in accompanying report).  
Developed recommendations for the support of an organization-wide faculty activity reporting system and the implementation of a Top Tier RSCA Steering Committee (see attached for details).

### Recommendations

See attached

### 2017-18 Next steps

- **What should the goals / activities be for the subcommittee?**
- **Who should be responsible?**

The committee recommends the development of a Top Tier RSCA Data Steering committee. The charge, membership, and activities are detailed in the attached report.

**Please review the list below and “X” the appropriate box(es).**

- Potential resources required
- Any reports generated by this working group  
*Information and Data Management Subcommittee 2016-17 RSC 2-3*  
*UNLV Tools Available for Supporting Data Reporting (Key Systems (DSRG spreadsheet))*
- Metrics to be used
- No additional reference material

**Any additional information you wish to share.**

# Information & Data Management Subcommittee 2016-17

## Activity & Recommendations Report

Committee: Kendall Hartley (Chair), Annette Day, Mike Sauer, Janine Barrett, Christina Drum, Kivanc Oner, Lori Temple, Joe Lombardo, Tondre De, Kate Korgan, Rama Venkat, & Mike Ellison.

### Charge

1. Assessment of technology and systems
  1. needs
  2. gaps
  3. challenges
  4. proposed solutions
2. Assess & coordinate
  1. data dashboards
  2. reporting
  3. access to support top tier goals

### Current Technology & System Needs

1. Needs
    - a. Agreed upon measures to determine progress towards research, scholarship, and creative activity goals
    - b. Systematic collection, maintenance, governance, and reporting tools
    - c. It appears as though the necessary information is currently collected (see Key Measures Spreadsheet)
  2. Gaps
    - a. Some measures lack concrete definitions and data stewards
    - b. Collection and reporting is often manual and not systematic
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- c. Level of detail is not sufficient for comprehensive reporting
3. Challenges
- a. Lack of an agreed upon mechanism and infrastructure to support the needs noted above
  - b. Disruption resulting from implementation of Workday.

## Recommendations

1. Faculty Activity Reporting System (FARS)
  1. UNLV must have a consistent digital repository of faculty activity used by all faculty.
  2. This tool would be used for official annual reporting of faculty activity
  3. ORCID ID implementation across the university
    1. Faculty
    2. Doctoral students
    3. Other students should be considered
  4. Establish an infrastructure to support the faculty activity reporting system
    1. Identify appropriate systems of record for incoming data
    2. Identify outgoing data for which FARS will be the system of record
    3. Integration with other systems
    4. Develop systems to support FARS innovation, implementation, training, and maintenance
    5. Identify appropriate staffing
  5. Communication
    1. The campus community must understand the needs being met by the system and the benefits that will result.
2. New Top Tier RSCA Data Steering Committee

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1. Charge
    1. Coordinate and identify the support necessary to achieve the Top Tier Research, Scholarship, and Creative Activities goals. This includes, but is not limited to, systems, data, and infrastructure.
  2. Membership
    1. Decision Support (dashboards / systems)
    2. Library (faculty productivity, data management)
    3. Graduate College (graduate degrees awarded)
    4. EVP&P (faculty activity reporting system)
    5. VPR / OSP (research expenditures)
    6. ESS (dashboards / systems)
    7. Dean's Council representative
      1. Needs to represent entire council (including professional schools)
    8. Department Chair representative
  3. Tasks:
    1. Provide to the Data Services for Reporting Group (DSRG) the key measures and reporting needs of Research, Scholarship, Creative Activity
    2. Identify clear stewardship
      1. Formalize stewardship responsibilities and accountability,
      2. Provide necessary support
      3. See current UNLV Data Policy
    3. Key measures
      1. Updating with current information
      2. Reviewing metrics for additions and/or deletions
    4. Ongoing data requests

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1. Including request for data that is not currently captured
  5. Coordinating with DSRG
  6. Prioritization
    1. Data requests
    2. System needs
  7. Dashboard and reporting coordination
  8. Cataloguing internal and relevant external systems collecting and managing RSCA information (in coordination with DSRG).
3. Infrastructure considerations
    1. Overview of the current status of information management at UNLV (e.g., Chief Information Officer noted in 2015-16 subcommittee report, and the IT Master Plan).
    2. Resource recommendations:
      1. Resources should follow stewardship (see recommendation 2 - task 2) and priorities (task 6).

The committee recognizes that there are many other data needs across campus. It is important that these recommendations, including the RSCA Data Steering committee recommendation, be reviewed in light of other Top Tier Subcommittee outcomes.

### Sample [Key Measures](#) from Top Tier Initiative

Research (largely finance system - Workday)

1. Research Expenditures
2. Proposal dollars submitted
3. Award dollars received
4. Source of Funding

Graduate Degrees Awarded (MyUNLV)

1. Total Doctoral Degrees Awarded annually

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2. PhD's Awarded annually
  3. Masters - research degrees (typically with thesis)
  4. Masters - professional

Faculty Research (largely Faculty Activity Reporting System)

1. Journal Publications # and impact (impact factor, eigenvalue etc)
2. Citation of work (include h-index)
3. Presentations
4. Published books

[Key Systems \(DSRG spreadsheet\)](#)

UNLV Tools Available for Supporting Data Reporting								
Tool	General Use	Intended use Function	Limitations	Status	Available Data Sources	Type of Tool	Unit Fiscally Responsible	Notes
Attunity	Data Replication	Identify data changes for Delta identification	Licensing only for PeopleSoft Two endpoints only	Implementation In progress	PeopleSoft Only	Transportation Transformation	OIT	Replacing Data Stage
ODI - Oracle Data Integrator	Data Integration, Merging many Sources	ETL, coalesces data from multiple data sources	Must be hosted in an IBM hard partitioned LPAR	Implementation In progress	Unrestricted	Transportation Transformation	OIT	Replacing Data Stage
Data Stage (ODS)	Data Integration	ETL from PeopleSoft Source	PeopleSoft only End of Life (Nearer to death)	Production	PeopleSoft Only	Transportation Transformation	NSHE (SCS) iNtegrate Funded	Will be replaced by ODI
ODL - (Operational Data Lake)	Raw data (not transformation) from multiple data sources (ie Workday, Identity Management, PeopleSoft)	Single point for the gathering of raw data from multiple data sources.	None	Production	Unrestricted	Infrastructure	OIT	Currently only a small subset of Legacy HR, Finance and Identity data
Data Warehouse - EPM	Historical Data		Currently only Student data Data Stage Licensing limit data scope	Production	PeopleSoft with current limitations ** ODI will make this unrestricted	Infrastructure	NSHE (SCS) iNtegrate Funded	
SAS	Suite of Tools	ETL Visualization Analytics Underlying Database Reporting Star Schemas - Define & Manage	None that have been identified	Implementation In progress	Unrestricted	Reporting Analytical Visualization ETL Underlying Database Star Schemas	Enterprise	
Cast Iron	Integration and Extract tool	The extract and integration for multiple data sources.	License? Resources? Data Volume?	Limited Production	Unrestricted	Integration	ESS / OIT?? Enterprise	
OBIEE	Business Intelligence Analytic Reporting Visualization		Must be hosted in an IBM hard partitioned LPAR	Production	Primarily PeopleSoft but can be expanded	Reporting Analytical Visualization	NSHE (SCS) iNtegrate Funded	Training is significant
Control-M	Job Scheduling	Job Scheduling	Limit to 300 Job Executions per Year	Implementation In progress	Unrestricted	Job Scheduler	OIT	
Cognos	General Reporting		Currently set for Legacy HR	Production limited access	Only Legacy HR data	Reporting	OIT	
Tableau	Reporting & Visualization		??	Production in various Units	??	Reporting	Current by individual Units	Need to move to Enterprise service
Splunk	Analytics and Reporting Visualization		Licensing limited to small number of users	Production	Unrestricted	Reporting	OIT	
Financial Data Warehouse	Financial Reports from Advantage data		End of Life (Unknown final date)	Production	Advantage Financial	Reporting	SCS	
PS Query Manager	PeopleSoft Reporting	Limited reporting and Data Driver generation	Only Student application. Reusability and number of users limited	Production	PeopleSoft Student Data	Reporting	OIT/ NSHE (SCS) iNtegrate Funded	Steep learning curve.
Focus	HR/Fin & old SIS Reporting and extraction	Reporting & Data Extractions	Only HR / Fin data. Siloed to either HR or Fin for report	Production	HR and Finance	Reporting	SCS	Limited knowledge and End of life for current reporting when Workday go-live completes
Workday Report Writer	HR and Finance transactional and data extracts	Reporting and Data Extracts	only HR & Finance data in Workday available for use.	Implementation In progress	HR and Finance	Reporting	NSHE (SCS) iNtegrate Funded	Steep learning curve

