

2016-2017 SENATE COUNCIL ON RESEARCH & SCHOLARSHIP AGENDA
March 13, 2017
2:00 p.m. Marston Library L136

Academic Analytics update

Research Information Management

Project Management and Electronic Lab Notebook: survey discussion

University Library Committee

Research related equipment

Additional Topics

Research & Scholarship Council Minutes
February 6, 2017 2:00 p.m.
Marston Science Library L-136

Attendees:

Dimitri Bourilkov, College of Liberal Arts & Sciences, Department of Physics
David Day, Office of Technology Licensing
Erik Deumens, Research Computing
Sylvain Doré, College of Medicine, Department of Anesthesiology
Stephanie Gray, Office of Research
Sobha Jaishankar, Office of Research
Edith Kaan, College of Liberal Arts & Sciences, Department of Linguistics
Gillian Lord, Department of Spanish and Portuguese Studies
Valrie Minson, George A. Smathers Libraries, Marston Science Library
Jorg Peters, Computer and Information Science & Engineering
Plato Smith, George A. Smathers Libraries, Data Management Curation Working Group

Valrie Minson convened the meeting at 2:05.

University Libraries Committee (ULC):

The ULC discussed a request to have a resolution regarding ORCID identifiers. SCORS will discuss in the 2017-2018 academic year. ULC also reported on the temporary closing of the Education Library and Normal Hall. The Library will close in August and reopen in January 2018.

Office of Technology Licensing (OTL)

David Day, Assistant Vice President and Director of Office of Technology Licensing, presented on the mission of the three offices he oversees. The OTL bridges the gap between the university and the marketplace. 350 invention disclosures a year at UF with 2/3 of the inventions patented. UF ranks in the Top Ten of Public AAU Universities in most categories. Mission is threefold: 1) faculty service, 2) put technologies in play in the marketplace, and 3) economic development for making the world a better place. UF has about ~500 active deals open. The 11th Annual Celebration of Innovation will take place on April 4th, 2017 with a biomed track and an investor track, to match investors with inventors. Attendees pay \$79.00. Recommendations from OTL is to 1) be David Day's friend of Facebook and 2) that the University needs to come up with a couple million to nurture ideas.

Office of Research and Data Management Curation Working Group

ORCID: At a recent meeting of Research Deans the topic of tracking research was raised and the research deans suggested that a policy be developed that asks that everyone at UF have an ORCID identifier. Plato and Erik are asking SCORS to move forward a resolution. ORCID attempts to solve the problem of author disambiguation and also of dynamically producing annual reports for departmental reporting purposes. ORCID is the leading identifier and would help with making the connections between grants, publications/publishers, and the creators. The resolution will be presented early in the 2017-2018 academic year.

Research Computing: Offers infrastructure for high-performance computing, shared analytics, and large exchange of data across collaborators. A significant portion of the costs are covered by subsidies, but the P.I. must pay for space utilized. The P.I. is protected from security risks when

utilizing Research Computing. If anyone (group or individuals) would like a tour of HyperGator, it can be requested.

DMCWG: The Data Management Curation Working Group is a task force comprised of faculty and staff across UF. They have performed research survey(s) to understand the research environment/needs. DMCWG has discussed ORCID implementation and provides support in the development of data management plans. The DMP Tool provides data management plan templates which can be adjusted based on local context. A recommendation would be for the DMP Tool to be distributed to the grant specialists in each unit.

Academic Analytics:

Provost Glover has requested someone from SCORS represent on a campus-wide committee to look at supporting implementation of a new Academic Analytics collaboration tool. Sylvain Dore will serve as the representative. The committee will sit down with the Vice President of Research's office. Four databases can be added to the collaboration tool and the committee will be deciding what data to include in the system (patents, licenses, all grants, contracts, etc.). The timeline for configuration is 12 weeks. It was noted that Academic Analytics currently looks at data for tenure-track faculty from the last 5 to 7 years. The collaboration tool has the ability to cover 15 years and non-tenure track faculty.

Research Information Management:

Future implementation of an ORCID policy/resolution would further support the success of a future RIM system. Val, on behalf of SCORS, will compose a statement citing the importance of supporting data gathering to improve the processes of faculty evaluations and T&P and also of publication reporting for units. The statement will include a list of the institutions that are providing this software and clarify that that Academic Analytics supports benchmarking and doesn't have a tool for data gathering.

Project Management and Electronic Lab Notebook:

The survey is completed and ready for distribution. Dissemination of the survey has been delayed in the search for the appropriate list. Cheryl Gater is the appropriate distribution list.

Additional Topics:

The training recommendation document developed by several Councils will be shared with HR and the Office of Research for implementation, rejection, or long-term goal setting. In regards to the NIH vs CITI IRB-02 training: The training is longer and a bit more comprehensive, but is also general in approach. It is not heavily clinical/research background, but is slightly longer in length. Two CLAS representatives were concerned that someone from Office of Research mentioned that the NIH IRB-02 training may have clinician leaning content in an upcoming update. Valrie emailed Michael Mahoney to find out more details about the update.

Postponed for next meeting: Inventory of research-related equipment

Research & Scholarship Council Recommendation

The Faculty Senate Research & Scholarship Council (SCORS) recommends exploration of a UF-wide adoption of a Research Information Management (RIM) system to support annual data gathering processes. Typically information about grants and publications are manually maintained by faculty in isolation for such purposes as the annual evaluation and for assessment of faculty performance for tenure and promotion, as well as to populate vitae and biographical sketches for grant applications. RIM systems collect information about scholarly activity including publications, grant awards, patents, teaching and mentoring activities and serve different purposes than benchmarking tools (i.e., Academic Analytics), collaboration/research network tools (i.e., VIVO, Academic Analytics, etc.), or profiling tools (i.e., VIVO, ResearchGate, etc.). The two leading RIM systems are Symplectic and Pure and while they may have network analysis or profiling capabilities, these systems do not support the data gathering efforts required of all faculty.

SCORS recommends creation of a working group from a variety of interested departments to explore implementation of a campus-wide system as a way to reduce faculty time spent managing activity data.

R-1 research institutions subscribing to Symplectic

- Boston University
- Carnegie Mellon University
- Columbia University
- Cornell University
- Duke University
- Emory University
- Massachusetts Institute of Technology (MIT)
- Northwestern University
- Ohio State University
- Princeton University
- Texas A&M University
- Tufts University
- University of Tennessee Knoxville
- University of Alabama Birmingham
- University of California System -- all ten campuses (8 are R-1), utilizing Elements publications
- University of Colorado Boulder
- University of Georgia
- University of Pennsylvania
- University of Pittsburgh
- Virginia Polytechnic Institute

R-1 research institutions subscribing to Pure:

- Arizona State University
- Case Western Reserve University
- Clemson University College
- Duke University
- Indiana University

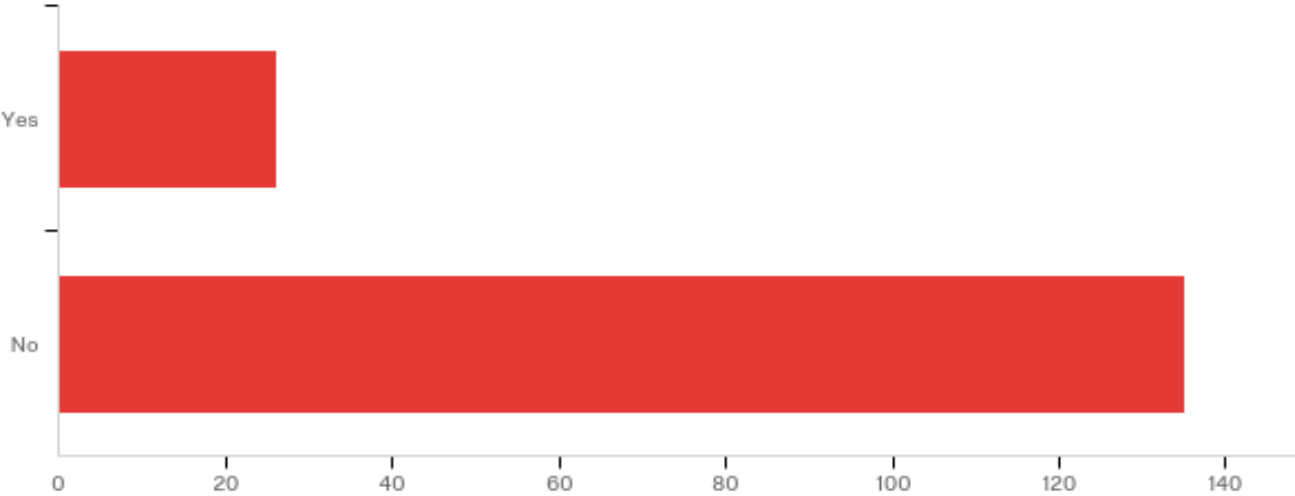
- Johns Hopkins university
- Michigan State University
- New York University
- Northwestern University
- University of Arizona
- University of California Davis
- University of Illinois (Chicago; Urban-Champaign)
- University of Michigan
- University of Nebraska
- University of Texas System
- Washington State University
- Wayne State

Default Report

Research & Scholarship Council Software Survey

March 7th 2017, 8:43 am EST

Q5 - Do you already use or own Project Management Software?

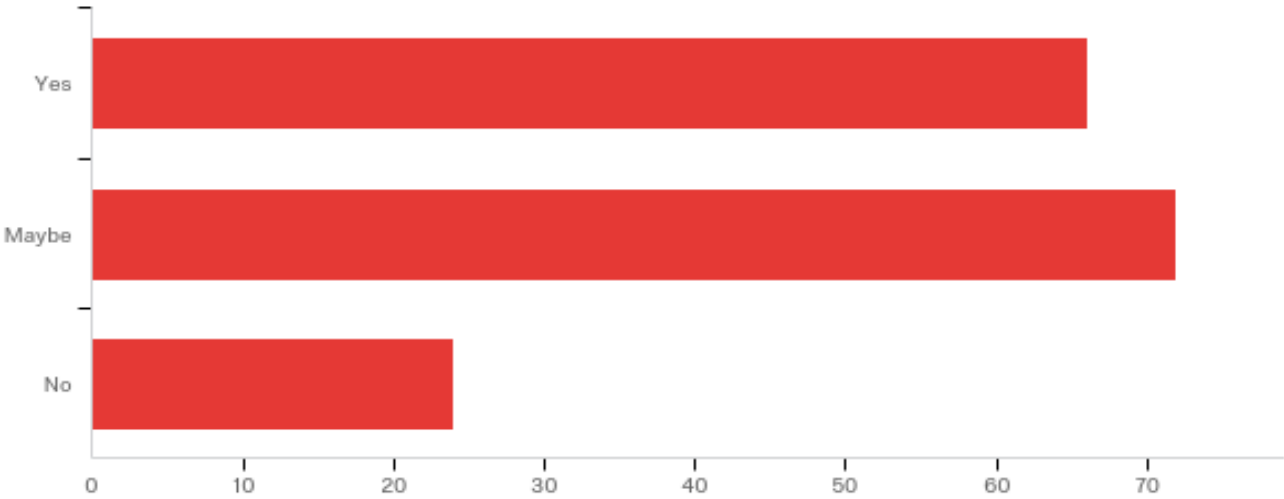


#	Answer	%	Count
1	Yes	16.15%	26
2	No	83.85%	135
	Total	100%	161

Q12 - If yes, what is the name of the software?

If yes, what is the name of the software?
Basecamp, Sharepoint
labarchives
Onenote
elabFTW
We use Slack and Trello as a combo team collaboration/project management suite.
BaseCamp
basecamp
basecamp
Office Timeline, MS Project
Wordpress
Microsoft project
(I ahve in the past MS Project) - I don't like basecamp
Kanbanchi
Active Collab
Teamwork
github
OmniPlan
Basecamp
asana, basecamp
Microsoft Project
Asana
Asana
html
Mind Manager

Q1 - Would you use a Project Management Software (such as Basecamp, Workfront, or Microsoft Project) if UF provided campus-wide access?

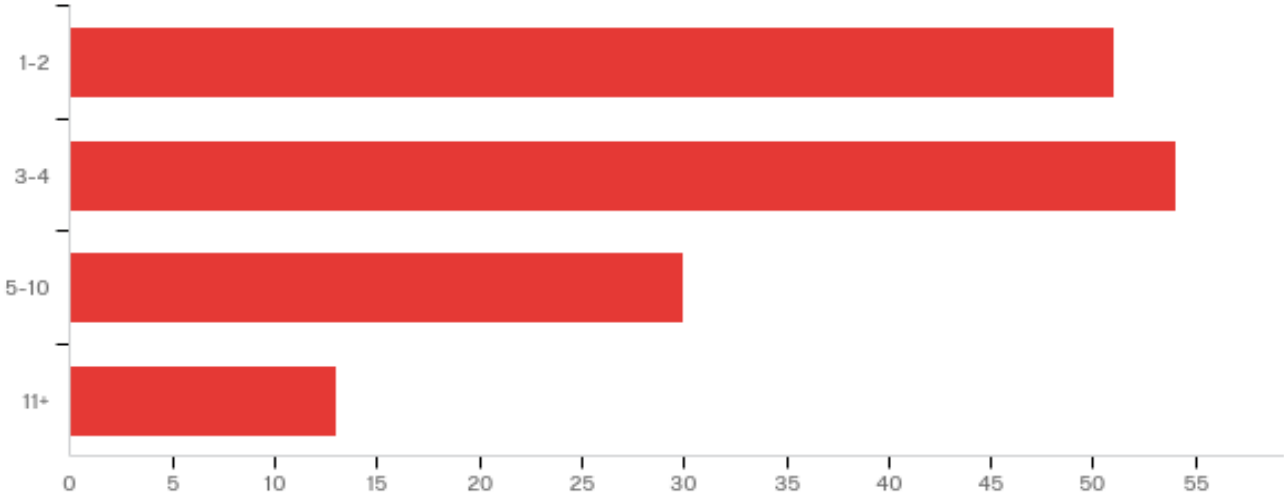


#	Answer	%	Count
1	Yes	40.74%	66
2	Maybe	44.44%	72
3	No	14.81%	24
	Total	100%	162

Q2 - What key features do you need in Project Management Software?
(0 = rarely needed and 100 = absolutely needed)

Field	Minimum	Maximum	Mean	Std Deviation	Variance	Count
Gantt charts	0.00	100.00	61.42	30.78	947.58	97
Time tracking	0.00	100.00	63.24	29.59	875.38	110
File sharing	0.00	100.00	79.65	25.90	670.82	135
Percent-complete tracking	5.00	100.00	66.79	26.99	728.57	112
Communication	0.00	100.00	73.47	29.49	869.71	123
Collaboration	1.00	100.00	79.17	25.55	652.91	127
Risk analysis	0.00	100.00	42.09	30.07	904.18	85
Issue tracking	2.00	100.00	62.10	28.11	790.03	101
Budgeting	5.00	100.00	65.27	27.98	782.95	111
Multiple project management	5.00	100.00	80.28	23.10	533.70	116
Advanced task management	0.00	100.00	66.56	29.98	898.81	100
Testing	0.00	100.00	43.71	31.64	1001.11	77
Mobile access	1.00	100.00	72.06	29.97	898.18	117
Customize reports and excel outputs	0.00	100.00	69.59	31.71	1005.24	106
Customizable fields, comments, clinical observation, tasks, measurements, mortality, or device dictionaries	0.00	100.00	62.45	35.90	1288.47	98
Algorithms for statistical analysis, graphing, randomization, or reporting	0.00	100.00	65.49	31.44	988.39	103
Animal tracking or study assignment	0.00	100.00	55.28	39.27	1541.85	75
Immediate viewing all study activities and data for current and archived studies	0.00	100.00	62.91	33.35	1112.28	102
Asynchronous data collection and alignment	0.00	100.00	64.85	31.59	997.91	94
Flexible scheduling of study tasks/events	0.00	100.00	68.72	29.24	854.74	112
Attaching and linking files with specific data points	0.00	100.00	65.69	31.85	1014.29	98
Graphing for cross study comparisons	0.00	100.00	58.46	34.03	1158.23	89

Q6 - How many collaborators from other institutions/sites will need access to the projects/software?



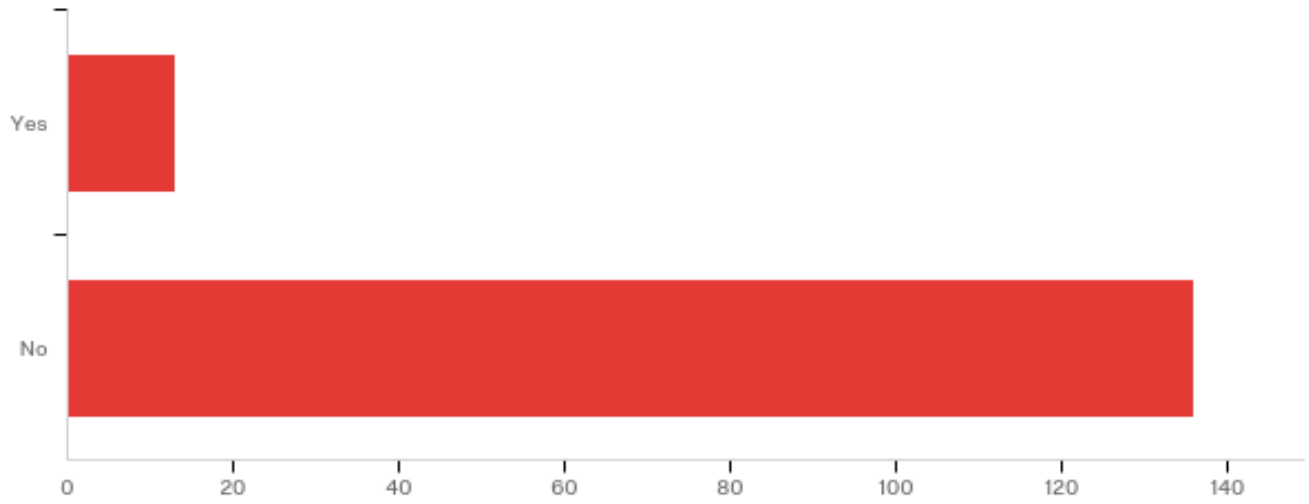
#	Answer	%	Count
1	1-2	34.46%	51
2	3-4	36.49%	54
3	5-10	20.27%	30
4	11+	8.78%	13
	Total	100%	148

Q8 - Please share your general comments about the usefulness of a Project Management Software to your research:

Please share your general comments about the usefulness of a Project Manage...
I would like to use PMS for all 3 of my ongoing reserach projects, and I would like to have a lab-wide project as well. I'm VERY interested, having had a lot of success with PMS in the past.
Hard to judge. I have used base camp before in a very limited manner, but have not had a need to use anything like this for more than 5 years.
can be extremely useful provided my team gets proper training
it is critical, I had hoped around for a whole year and seeing that UF was not doing anything decided to use onenote
Between SharePoint and available options for file-sharing, I don't have a need for this type of software. I would also be very hesitant to trust "mission critical" information for my research to software without a long-term, >10 years, of support from the vendor. Too often, I've used software in my research that after a few years the supplier decides to drop support. This is a major issue.
i think it could be useful if it is simple and intuitive
Research reproducibility tools are increasingly being expected from federal funding sources, with public access to all data. I think this could help organize us from the beginning...
Not useful. Nearly all the things you query are needed for research but do not require a dedicated program. A big waste of money, one size fits all solution that always fails. Creates artificial work for labs managing software. Why are none of the questions critical? Budget management shift onto labs is a long term goal.
I typically use Primavera P6
I rely heavily on BaseCamp for large grant projects - having a UF-based software (NOT Sharepoint) would be very beneficial
Helps with managing projects with my Co-PIs
This has been discussed for years that it was coming and it is still pending. Any rigorouos investigators need it now. There are more regulations by the NIH and the FDA and others that such system is now essential. This would ease the life of investigators and all faculty members. It would be great if the University can sponsor part of the cost. While we are not looking for one system fits all, a system that can work with our calendar and startdard Microsoft doc would be great. The goal is to be able to manage each project over time (and from anywhere) without having to send many emails. Thanks for such effort.
Prefer open source solutions.
necessary, would be great to have an integrated tool
makes management of multiple projects easy
I haven't used such software but I could potentially see this as a highly valuable research tool. I deal with psycholinguistic data, primarily from chronometric button responses or eye-tracking and such research is highly collaborative both on campus and with other universities. One of the most frustrating aspects is version control, where some members of the team inevitably end up working on a different version than the most recent. Dropbox is to some extent helpful for syncing but if the files become extremely large, then non-paying members are not able to efficiently make use of dropbox. similarly, if you want it to sync with your own file directory, then inevitably it will take up a large portion of your own work laptop.
Not needed.

My collaborators are mostly at other universities
Very valuable, focus on overview charts, try not to duplicate sponsored programs activities (e.g. re budgeting)
has to be better than than freeware
I've used the microsoft project with my grad students. I found it cumbersome and not particularly helpful. I might use it again if the software improved.
I help manage several projects (5-10) and I need the ability to plan, execute, and monitor projects.
I haven't seen enough about it to judge, and for me, there is a big activation barrier to learning how to use new software.
not particularly relevant to me
I think our lab would definitely use it... I think an ELN would be a higher priority though
this will be used for class as teaching tool
UF needs to allot more bandwidth to these types of sites.
N/A
No use at all
Not very useful
Helpful with many projects.
communicating across groups and platforms is common so having software to facilitate this would be valuable. I am currently using Basecamp through a NIH funded consortium
Good idea
I think it would help organize members of our collaborative teams.
It may be useful if similar to an electronic Lab Notebook. We need a searchable way to store experiments and a central location for data that can be accessed by the PI after someone leaves the lab.
Would greatly facilitate multidisciplinary teams
I think is becoming more critical to the future success of my research group.
need to learn more
It would be very useful in sharing data with collaborators and internal lab members. It would facilitate transparency and data tracking within labs
Time management and lab workflow
mostly for reporting
Somewhat useful, but not critical

Q22 - Do you already use or own Electronic Lab Notebook (ELN) software?

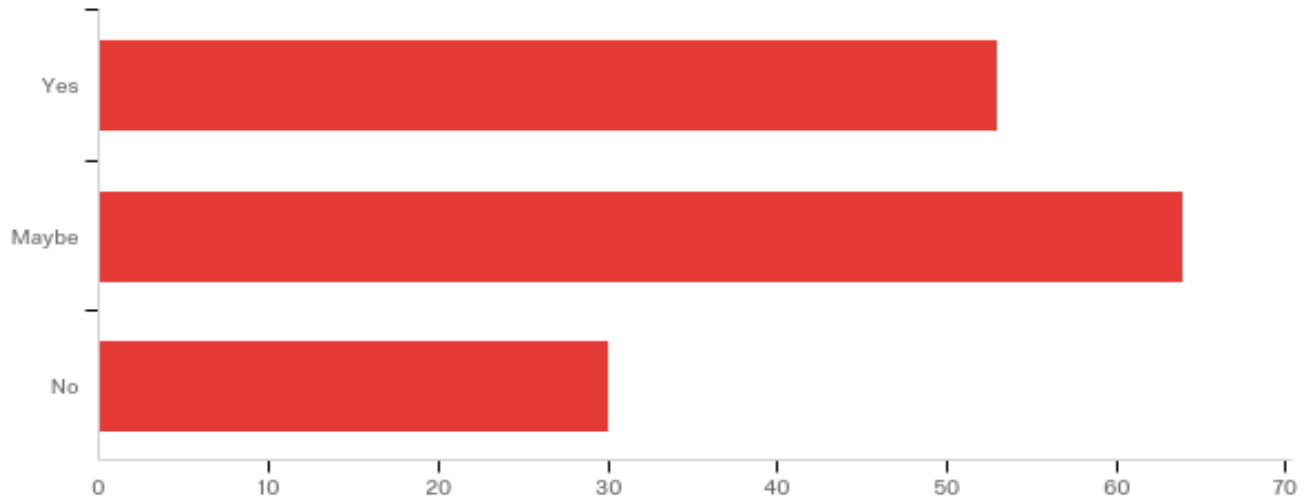


#	Answer	%	Count
1	Yes	8.72%	13
2	No	91.28%	136
	Total	100%	149

Q20 - If yes, what is the name of the software?

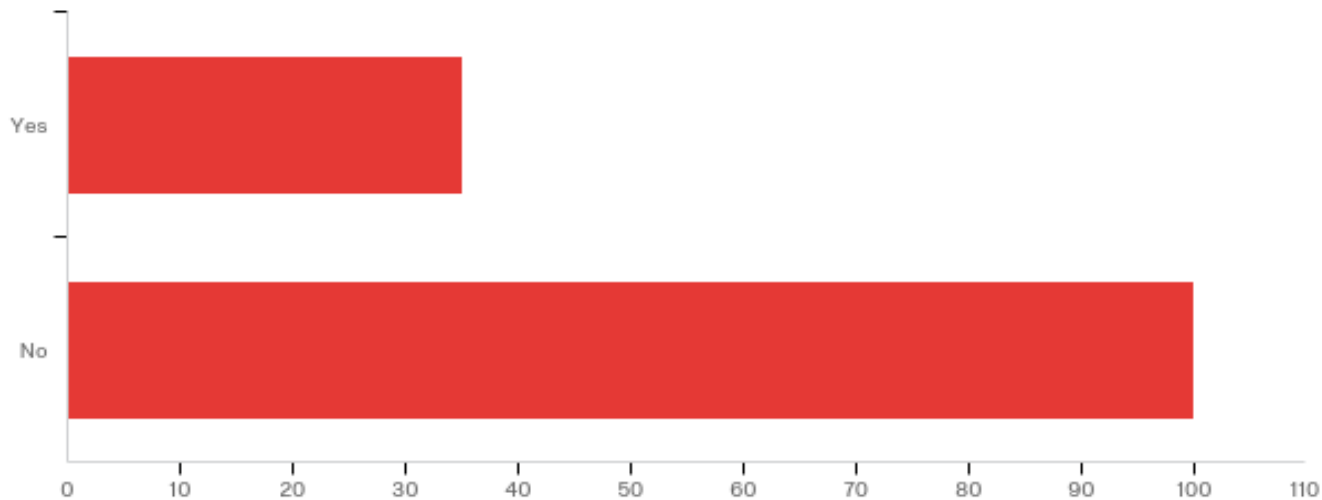
If yes, what is the name of the software?
Findings
OneNote
Virgo OSL (https://lapp-virgoosl.in2p3.fr/)
Wordpress
Benchling
Biovia Notebook Cloud
I have used one in the past working for a company
elabFTW
github, jupyter notebooks, Rmarkdown files
LabArchives
Findings
Evernote, Bechling
html: Mac OS X Server
Lab Archives

Q21 - Would you use a ELN software if UF provided campus-wide access?



#	Answer	%	Count
1	Yes	36.05%	53
2	Maybe	43.54%	64
3	No	20.41%	30
	Total	100%	147

Q18 - Some types of data that may not be appropriate include: sensitive data, human subject data, or data subject to government regulations. Are these data that you include in your current lab notebooks?



#	Answer	%	Count
1	Yes	25.93%	35
3	No	74.07%	100
	Total	100%	135

Q17 - Please share general comments about the usefulness of ELN software to your research:

Please share general comments about the usefulness of ELN software to your...
Might be useful for our undergraduate volunteers.
Could be useful if all use it
not sure
This would be very useful. Most of our data is electronic, so with electronic notebooks we can keep the data and other experimental records and notes in the same place.
i would like to know more i hate wasting paper
I have 2 labs... electronic notebook would help with not having data in the right place at the right time.
very helpful
It's about time, in 2017 that UF is considering this. While most companies and serious research institutions have been investing in it. This is essentially now required by the new rules and regulations for the NIH about Rigor and Transparency, etc. This is also required by anyone who wants to file an IND or apply to the FDA. This would help all faculty members to satisfy these new requirements and then it can be mentioned such that it would increase our percentile on grant submission through the Study Sections. 1, It would provide transparency; 2. it would facilitate collaboration; 3. it would store info/data in a secure server; 4. it would improve accuracy and precision; 5. it will be searchable; 6. it will be developed in parallel with lab info management systems, 7. It has the potential to directly collect data; 8. At this end this is very cost effective; 9. These are the traditional lab notebook of the future and we need now. We need it to teach our students and next generation of scientists. It is just a question of time before everyone has one.
Prefer open source solutions
We have MANY simultaneous projects and keeping track of all projects without something falling through the cracks is the main issue.
have not used, but am interested
This would highly ensure quality and version control. This would also provide a way for the PI to supervise lab members' work.
Not useful.
not much
We use paper notebooks but they are incomplete because it is difficult to get all the important data we need in a paper notebook.
It has been extremely useful for sharing data and protocols with other lab members.
IT is always problematic when students want to take their lab notebook with them when they graduate, but I need to keep it here. Plus, they are not very organized with the notebooks, and I should be making them all follow a similar recording procedure. However, it seems like it would be rather clumsy to do a chemistry type of experiment and record observations when the lab notebook is not laying next to you on the lab bench. But if they can snap a photo with their cell phone, and type in observations on a cell phone or lab iPad, or other data by that means, it might be useful.
we switched to an ELN this year. It is hard to get used to but I can tell that our notebooks are now much better quality. now that we are used to it, it is a much better way to archive data than a paper notebook

I use ELN (just in word) for my students in a lab class but it is unsatisfactory
We use REDCap for tracking our patient data
N/A
Paper notebooks with attached computer printouts do the job more efficiently
I dont really use a notebook per se
not very useful
good idea
highly useful for both data security, integrity, and accessibility
ELN software is essential to my research. I use it daily and refer to it often.
PIs need a way to search data entries, even after lab personell leave the lab. There needs to be a central place for data storage with an easy way to link all data from 1 experiment together.
I do not run a lab
This too will be critical to my group's future success.
none
Would be useful for qualitative research and transfer of knowledge among lab members
critically needed for documenting student and project progress, as well as lab metings, collection of pertinent data and literature.
Extremely useful to us as researchers and also the University OTL if the notebook is properly utilized
We absolutely need this
This would be a big help to our lab
extremely useful to prevent data and info loss

Q22 - Please share your recommendations on ways in which UF can better support faculty in terms of Research Management Software:

Please share your recommendations on ways in which UF can better support fa...
training
Spend money on improving secretarial support
Provide access in the App store similar to what is offered (which is VERY much appreciated)
Electronic Lab Notebook (ELN) software
A webinar or workshop on the benefits of the software would be helpful
This ELN could be developed in parallel with the Management Software. This would ease and facilitate research to be accomplished in a timely manner... at the end this would save time and money
Use open source solutions.
We actually have been blocked by IT staff from putting OneNote on lab and office computers, which has been detrimental to our lab organization.
trial basis? workshop to introduce and demonstrate features?
Unneeded.
Provide training workshops which are video-conferenced
not much
a licence for Endnote citation software would be nice.
Please, please buy an ELN or develop one... UF must lose so much research data to poor recording or recording in foreign languages etc. A lot of institutions have started subscribing to Lab archives. I would suggest trying that first
I would like to use the ELN for my class (~700 students/semester microbiology lab)
N/A
Demos of these might be nice before I can really answer a survey. I did look at the links but the questions had much more detail that I'm not sure I was completely clear about when answering
provide adequate training
Multiple sites
Paid subscriptions to this type of software with full features would be quite useful.
Making this available to all UF researchers would be very helpful to a lab.
Not only the purchase of Management/ELN software but support staff to help build the framework and tools needed
need training or time
University License would be nice. I am currently paying out of my own funds.
Top priority is ELN

provide software access and training