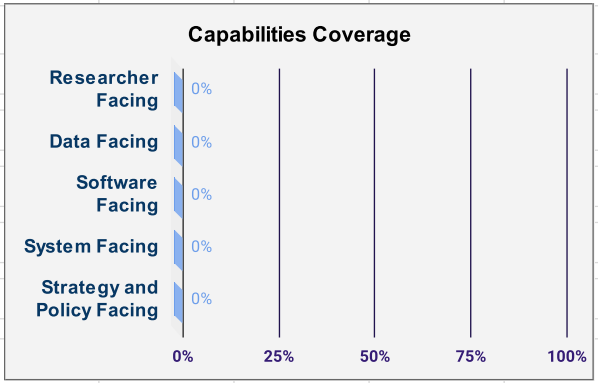
Summary page of Capabilities Model results

Your Institutional Scope/Context:	University of Arkansas

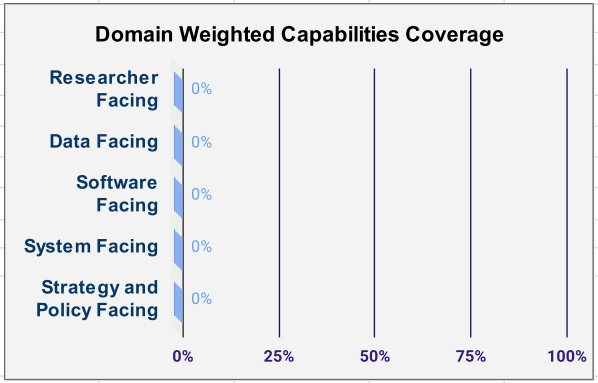
For suggestions on how to approach filling this out, background about the Capabilities Model, etc.,
please follow this link to see the Introduction and Guide to Use

Please do not alter/edit the tables below.
These are computed from your answers on the 'Facings' sheets, and editing the tables will just break the summary functionality.

Facing Area *(click the "+" to the left of each to expand areas within)*	*Computed Coverage*	*Domain Support*	*Domain Weighted Coverage*
Researcher Facing Capabilities Coverage	0%	0%	0%
Data Facing Capabilities Coverage	0%	0%	0%
Software Facing Capabilities Coverage	0%	0%	0%
System Facing Capabilities Coverage	0%	0%	0%
Strategy and Policy Facing Capabilities Coverage	0%	0%	0%
Total Organizational Research Computing and Data Coverage	**0%**	**0%**	**0%**



Identified Local Priorities *(first 5 from each Facing - click the "+" to the left of each to expand)*
Researcher Facing Capabilities Items
Data Facing Capabilities Items
Software Facing Capabilities Items
System Facing Capabilities Items
Strategy and Policy Facing Capabilities Items



Comments (please note any issues or comments related to the Summary results)

Questions? Suggestions?
Try the 'Capabilities Model Introduction and Guide to Use' first, if you have not already read through it.
If you still have questions or suggestions (beyond your comments above), click here to mail the working group.

Area	Questions to consider for: University of Arkansas	Help	Deployment at Institution	Multi-Institutional Collaboration	Service Operating Level	Computed Value	Local Priority	Notes, Questions, Comments
Research Computing and Data Staffing						**0%**		
	Do researchers have access to **introductory user support and training** related to the use of research computing and data resources available at local, regional, and national level? I.e., are there researcher-facing engagement and support staff who provide this?	?				0%		
	Are researcher-facing staff provided with **professional development and networking opportunities**?	?				0%		
	Do researcher-facing staff have the skills and capacity to **broadly support researchers across levels** (graduate students to PIs) **and across domains** with information about the use and effectiveness of new technologies?	?				0%		
	Can researcher-facing staff effectively **serve as advocates** for the research community **to leadership and IT governance**?					0%		
	To what extent is there **a clear vision, effective guidance, and strategy** for the allocation and prioritization of support resources/personnel?					0%		
Research Computing and Data Outreach (Initial Contact)						**0%**		
	Is there an institutional practice to **proactively reach out to researchers, new faculty, or prospective faculty** (for example during interviewing or new faculty onboarding processes) to explain research support services and help with computing beyond the desktop?					0%		
	Do researcher-facing staff have the skills and capacity to **effectively engage in community outreach** and broader impacts?					0%		
	Are researchers **made aware of research computing and data related resources**? E.g.: i. intra-campus resources (e.g., support, training, engineering, central IT services, library services, related centers or institutes) ii. cross-institution, regional, national, and/or international entities that comprise the larger ecosystem of Research Computing and Data (e.g., ACI-REF, Campus Champions, Research Software Engineers, CASC, CaRCC, CI Engineers, PEARC)?					0%		
	Does your institution have a process **to assess researcher awareness, satisfaction, and engagement** related to Research Computing and Data services and support?					0%		
	Does your institution have a process **to assess the impact** of research computing and data support?					0%		
	Does your institution have **marketing/communication resources** (staff) with the skills and capacity to help publicize and explain research support services?					0%		
Research Computing and Data Advanced Support						**0%**		
	Do researchers have access to application **support** (training, help) for standard **software packages, middleware, libraries, and modules**?					0%		
	Do researcher-facing staff have the skills and capacity to **diagnose inefficiencies, monitor usage, and advise on policies and optimizations** to make for more efficient utilization of research computing and data resources?					0%		
	Are researcher-facing staff engaged with **exploring, testing, and deploying emerging or advanced technologies** to help research?	?				0%		
	Do researcher-facing staff **regularly and effectively document processes, policies, and resources** both internally and for the user community?					0%		
Research Computing Management of the Research Lifecycle						**0%**		
	Are researchers **supported across the full research lifecycle**? I.e., are researchers supported during proposal development, during the active award, and post funding? *This may include support for project planning and proposal development, as well as providing research computing and data services.*					0%		
	Do researchers have access to **advice on research compute and data compliance, security, management, and governance**?					0%		
Researcher Facing Capabilities Coverage						**0%**		
Fields and Domains Support		?						
How strong is Reseacher Facing support across these fields and domains								

Area	Questions to consider for: University of Arkansas	Help	Deployment at Institution	Multi-Institutional Collaboration	Service Operating Level	Computed Value	Local Priority	Notes, Questions, Comments
	Arts and humanities					**0%**		
	Computer science and engineering					**0%**		
	Health and life sciences					**0%**		
	Physical sciences					**0%**		
	Social sciences					**0%**		
Other Domain	*(specify additional domain)*		*Not relevant or applicable 0*			*n/a*		Leave "Deployment at Institution" as "Not relevant..." if you do not use this
Aggregate Domain support						**0%**		

Comments (please note any issues or comments related to the Researcher Facing questions)

Area	Questions to consider for: University of Arkansas	Help	Deployment at Institution	Multi-Institutional Collaboration	Service Operating Level	Computed Value	Local Priority	Notes, Questions, Comments
Data Creation						**0%**		
	Do researchers have access to **consulting on data lifecycle requirements** during data creation (e.g., anticipating metadata, storage, reuse, publisher requirements, funder requirements)?	?				0%		
Data Discovery and Collection						**0%**		
	Do researchers have access to **data discovery consulting**, i.e., to help them identify appropriate data repositories (on campus, in domains, and more generally)? *Note: this may come from Research Computing and Data staff, library staff, or other partners.*					0%		
	Do researchers have **access to expertise about common Terms of Service** for frequently crawled websites/data repositories and best practices guidance? E.g.,: i. library or other staff with knowledge about common Terms of Service for frequently crawled websites/data repositories and **best practices guidance**? ii. library or other staff with skills and capacity to **inform policies and educate researchers on data use agreements** (DUAs)?					0%		
	Do researchers have access to **software supporting data collection** (i.e., for data crawling, scraping, gathering, etc.)?					0%		
	Do researchers have access to **resources** (e.g., staff) **to develop software supporting data discovery and collection**? E.g.,: i. resources to develop software for collection (crawling/scraping/etc.). ii. resources to develop user interfaces or do web development to collect and interact with data with appropriate security protocols and policies.					0%		
Data Analysis						**0%**		
	Do researchers have access to **consulting and expertise on data wrangling/manipulation** and **data analysis?**					0%		
	*Do researchers have access to **software that supports data wrangling/manipulation** and **data analysis**?*					0%		
	Do researchers have access to **dedicated resources** (e.g., staff) who can **perform data wrangling/manipulation** and **data analysis**?					0%		
	Do researchers have access to **resources** (e.g., staff) **for software development** of tools that support **data wrangling/manipulation** and **data analysis**?					0%		
Data Visualization						**0%**		
	Do researchers have access to **consulting and expertise on data visualization**?					0%		
	Do researchers have access to **software that supports data visualization**?					0%		
	Do researchers have access to **dedicated resources** (e.g., staff) who can **perform data visualization**?					0%		
	Do researchers have access to **resources** (e.g., staff) **for software development** of tools that support **data visualization**?					0%		
Research Data Curation, Storage, Backup, and Transfer						**0%**		
	Do researchers have access to **consulting and expertise** to help them **identify appropriate data repositories** (on campus, in domains, and more generally) to place their data?					0%		
	Do researchers have access to **resources** (e.g., staff) who can advise and assist with **database creation and data organization**?					0%		
	Do researchers have access to **tools/software** that supports **data backup, storage, and integrity checking**?					0%		
	Do researchers have access to **resources** (e.g., staff) **who will develop tools/software** that supports **data backup, storage, and integrity checking**?					0%		
	Do researchers have access to **software and/or environments** to deal with **datasets that exceed what is generally available to individuals** on a workstation or personal storage subscription?					0%		

Area	Questions to consider for: University of Arkansas	Help	Deployment at Institution	Multi-Institutional Collaboration	Service Operating Level	Computed Value	Local Priority	Notes, Questions, Comments
	Do researchers have access to **consulting and expertise on metadata design and use**. E.g., i. for establishing controlled vocabularies for metadata and metadata fields for repository systems? ii. for help with designing metadata applicable to their research? iii. for assistance in setting up metadata for reusable data sets, physical samples, research software?					0%		
	Do researchers have access to **tools, consulting, and expertise on good practices for use of identifiers**? Examples of good practice include: i. researchers are encouraged to use researcher identifiers; e.g., **ORCiD** (https://orcid.org/), **ResearcherID** (https://www.researcherid.com/), **Scopus Author ID**, etc. ii. researcher identifiers are supported in the enterprise directory. iii. researchers have access to mechanisms/services to establish unique digital identifiers (DOIs) for data.					0%		
Research Data Policy Compliance						**0%**		
	Does your institution have **research data governance processes** in place to establish data policies for research data?					0%		
	Do researchers have access to **information and training on research data policy**? E.g.: i. processes to support and inform users on **policy compliance**. ii. training on research **data security protocols**. iii. support for **Data Management Plan (DMP) development**.					0%		
	Do researchers have access to support for **analysis of research data sensitivity**? This may include: i. **Data Use Agreement (DUA) review/analysis** and consulting ii. **Institutional Review Board (IRB) templates** for datasets (with human or animal subjects), from small datasets that don't need HPC, up to large datasets that need HPC or Cloud services. iii. Support at the nexus of the IRB, legal counsel, and an office of sponsored programs.					0%		
	Do researchers have access to **expertise and policy infrastructure to manage and use sensitive data**? This may include: i. Data Management Plan (DMP) compliance services (institutional framework, etc.)? ii. expertise and consulting on **contracts and government mandated data controls** (e.g. FISMA, CUI, NIST 800-171, FEDRAMP, HIPAA, NAGPRA/Indigenous data rights)?					0%		
	Has your institution defined and deployed a **process for identifying which research data to archive, preserve, or discard**?					0%		
	Do researchers have access to **planning expertise for storing, archival and preservation of research data beyond the term of grant funding**? E.g., Do researchers' DMPs regularly include planning for the physical and/or cyber resources and facilities (including those supplied by third parties) that will provide data storage, archival, and/or preservation after the grant ends?					0%		
Data Security/Sensitive Data Support						**0%**		
	Do researchers have access to **compute and data environments to manage and use moderately sensitive data** (e.g. NIH dbGaP data controls)? This can include: i. **tools, systems, and environments that can scale** from small to large data sets (i.e., from workstations to VMs and up to high performance computing). ii. data security protocols in use, and monitored.					0%		
	Do researchers have access to **compute and data environments to manage and use "notice triggering" data** (e.g., PHI, HIPAA, Export Control, licensed data)? This can include: i. **tools, systems, and environments that can scale** from small to large data sets (i.e., up to high performance computing). ii. data security protocols in use, and monitored.					0%		
	Do researchers have access to **compute and data environments to manage and use extremely sensitive data** (e.g., requiring **cold room/air-gapped storage and computing**, closely monitored access, dedicated data stewardship etc.)?					0%		
Data Facing Capabilities Coverage						**0%**		

Area	Questions to consider for: University of Arkansas	Help	Deployment at Institution	Multi-Institutional Collaboration	Service Operating Level	Computed Value	Local Priority	Notes, Questions, Comments
Fields and Domains Support		?						
How strong is Data Facing support across these fields and domains								
	Arts and humanities					**0%**		
	Computer science and engineering					**0%**		
	Health and life sciences					**0%**		
	Physical sciences					**0%**		
	Social sciences					**0%**		
Other Domain	*(specify additional domain)*		*Not relevant or applicable 0*			*n/a*		Leave "Deployment at Institution" as "Not relevant..." if you do not use this
Aggregate Domain support						**0%**		

Comments (please note any issues or comments related to the Data Facing questions)

Area	Questions to consider for: University of Arkansas	Help	Deployment at Institution	Multi-Institutional Collaboration	Service Operating Level	Computed Value	Local Priority	Notes, Questions, Comments
Software Package Management (installation, documentation, validation, and retirement/removal)						**0%**		
	Do researchers have access to support for research **software package compilation and installation**?	?				0%		
	Do researchers have access to **support, facilitation or training on how to compile, install, and deploy research software** (e.g. The Carpentries, documentation on how to install and deploy anaconda environment, etc.)?					0%		
	Do researchers have access to support for **research software package assessment, documentation, and validation**? I.e., to assess and document security issues, sustainability issues, export control issues, etc. associated with a software package of possible interest to researchers.					0%		
Research Software Development						**0**		
	Do researchers have access to **resources** (e.g., staff) who can **develop research software?** E.g., staff to be written into grants to architect or develop specific research applications or workflow components.					0%		
	Do researchers have access to **resources** (e.g., staff) who can **develop software for wide usage? (including websites, portals, etc.)**					0%		
	Do researchers have access to **security validation for research software**? (e.g., analysis for vulnerabilities that can be exploited by hackers, especially for locally developed software)?					0%		
	Do researchers have access to **usability testing for research software** developed on campus?					0%		
	Do researchers have access to software or website **accessibility consulting, assessment tools, etc.**?					0%		
Research Software Optimization or Troubleshooting						**0%**		
	Do researchers have access to **performance optimizing tools (e.g., Allinea/ARM Map, Intel VTune)?**					0%		
	Do researchers have access to **support and consulting to optimize software** (e.g., to parallelize code, to port to GPUs or other new architectures, to analyze and improve efficiency, etc.)?					0%		
	Do researchers have access to **diagnostic and troubleshooting software (e.g., Allinea DDT, Intel Inspector)?**					0%		
	Do researchers have access to **support and consulting for diagnosing and troubleshooting software?** E.g., when migrating codes to new cluster environments, new operating systems, etc. This does not include deeper code porting or rewrite for new hardware, GPUs, etc.					0%		
Workflow Engineering						**0%**		
	Do researchers have access to **support for research workflow packages** (e.g., Toil, Pegasus, NextFlow)?					0%		
	Do researchers have access to **expertise and basic support to develop or script data workflows**? E.g.,: i. support for initializing a research computing and data workflow? ii. consulting on basic, common workflows, or guidance on good practices in developing custom workflows?					0%		
	Do researchers have access to **dedicated staff resources to develop or script data workflows**? E.g.,: i. authoring of advanced or specific workflows for given research areas (e.g., for genomics, for clinical research, for social sciences, etc.). ii. support for optimizing a research computing and data workflow? This does not/need not include complete implementation of workflows.					0%		
Software Portability, Containers, and Cloud Computing						**0%**		
	Do researchers have access to **support for making software portable**? (e.g., software repositories, containerization, etc.)					0%		

Area	Questions to consider for: University of Arkansas	Help	Deployment at Institution	Multi-Institutional Collaboration	Service Operating Level	Computed Value	Local Priority	Notes, Questions, Comments
	Do researchers have access to **guidance or training for cloud computing**? This can include: i. Local private campus cloud infrastructure ii. National (e.g., XSEDE-supported) cloud infrastructure iii. Commercial cloud platforms (e.g., AWS, Azure, GCP, etc.)					0%		
	Do researchers have access to **dedicated resources** (e.g., staff) **for architecting and deploying cloud solutions**? This can be platform independent, and may include: i. Platform evaluation/comparison, cost estimation ii. Orchestration design and development (Kubernetes, Puppet, Chef, etc.)					0%		
Securing Access to Software						**0%**		
	Do researchers have **access to credential systems** as an element of software security? E.g., access to and support for integration with systems like CAS, Shibboleth, SAML, Single-Sign-on, etc.					0%		
	Do researchers have **access to support for utilizing licensed software on shared resources?** E.g., do researchers have access to a common / shared **software license server**?					0%		
	Do researchers have access to support for **managing export controlled software**?					0%		
	Are processes defined and adhered to for **educating, monitoring, and auditing** Research Computing and Data staff, other IT professionals, and researchers, **to comply with software license agreements**?					0%		
Software Associated with Physical Specimens (e.g., samples, research / museum collections)						**0%**		
	Do researchers have access to **management software for physical collections**?					0%		
	Do researchers have access to **software for discovery and research use of physical collections**?					0%		
	Do researchers have access to **resources** (e.g., staff) for **software development for discovery and research use of physical collections**?					0%		
Software Facing Capabilities Coverage						**0%**		
Fields and Domains Support		?						
How strong is Software Facing support across these fields and domains								
	Arts and humanities					**0%**		
	Computer science and engineering					**0%**		
	Health and life sciences					**0%**		
	Physical sciences					**0%**		
	Social sciences					**0%**		
Other Domain	*(specify additional domain)*		Not relevant or applicable 0			*n/a*		Leave "Deployment at Institution" as "Not relevant..." if you do not use this
Aggregate Domain support						**0%**		

Comments (please note any issues or comments related to the Software Facing questions)

Area	Questions to consider for: University of Arkansas	Help	Deployment at Institution	Multi-Institutional Collaboration	Service Operating Level	Computed Value	Local Priority	Notes, Questions, Comments
Infrastructure Systems								
Infrastructure Support						**0%**		
	Do your systems-facing staff have access to a **fully functional and reliable data center** (e.g., full time IT operations and equipment facility)?	?				0%		
	Is the **data center professionally managed**? (e.g. dedicated FTEs, change management, 24/7, person-trap, closed circuit video, appropriate access controls and auditing)					0%		
	Are there institutional **resources for leveraging commercial cloud services** for research computing and researchers?					0%		
	Are **deployment, operations, and maintenance of your infrastructure automated** (e.g. foreman, razor, puppet, ansible, chef)?					0%		
	Do systems staff have the **skills and capacity to support container deployment and orchestration** (via APIs, kubernetes, docker, singularity)?					0%		
Compute Infrastructure						**0%**		
	Do researchers have access to **high performance** (batch) **computing** (HPC)?					0%		
	Do researchers have access to **high throughput computing** (HTC)?					0%		
	Do researchers have access to a **production-level compute, storage, and network environment**?					0%		
	Do researchers have access to **specialized hardware capabilities, such as accelerators** (e.g. GPU, FPGA)?					0%		
	Do researchers have access to **interactive computing services**? E.g., support for VDI, Gateways, JupyterHub.					0%		
	Is a **standardized set of operating systems** supported for HPC, workstations, and/or virtual machines?					0%		
Storage Infrastructure						**0%**		
	Do researchers have access to **active data storage services** (a.k.a., "scratch" storage, often a parallel filesystem) sufficient for HTC/HPC?					0%		
	Do researchers have access to sufficient **storage to support researchers' data intensive computing** needs?					0%		
	Do researchers have access to mechanisms for **isolated and secure support for storage of sensitive/secure data**?					0%		
	Do researchers have access to **policies and technologies that facilitate management and wide access to data**? E.g.,: i. **Automated tiering and data migration** ii. Security/compliance management **support for sensitive/controlled data** that require special access/export controls					0%		
	Do researchers have access to **data archival and preservation services** (e.g. tape, cloud)?					0%		
	Do researchers have access to a **place to store final research data** to address **institutional policy and/or funding agency requirements**?					0%		
	Do researchers have access to support for **collaborative data grids and/or data repositories** (national-local-commercial:: e.g.: OSN, iRODS, etc)?					0%		
Network and Data Movement Infrastructure						**0%**		
	Do researchers have access to a **high-performance network** that supports **research within campus**?					0%		
	Do researchers have access to a **Science DMZ** (a means to securely enable high performance inter-campus data flows that bypass campus firewalls)?					0%		

Area	Questions to consider for: University of Arkansas	Help	Deployment at Institution	Multi-Institutional Collaboration	Service Operating Level	Computed Value	Local Priority	Notes, Questions, Comments
	Do researchers have access to support for **high performance data movement** with dedicated **data transfer nodes** (DTN) and associated **data movement software** such as Globus, FDT, BBCP, or rclone, among others?					0%		
	Do researchers have access to **infrastructure for data buffering** between **high I/O lab instruments** and the data center, and/or external resources ("data capacitors" or "burst buffers")?					0%		
	Do researchers have access to mechanisms for **isolated and secure support for movement of sensitive/secure data**?					0%		
	Do researchers have access to **virtualized networking techniques** such as Software Defined Networks, overlays, etc.?					0%		
Specialized Infrastructure						**0%**		
	Do researchers have access to support for **edge computing and data resources**?					0%		
	Do researchers have access to support for **sensors, internet of things**?					0%		
	Do researchers have access to support for **researcher workstations or laptops**?					0%		
	Do researchers have access to support for **special science instruments** (e.g. cryo EM, DNA sequencer, telescope, etc)?					0%		
	Do researchers have access to **specialized compute capability** (e.g. bare metal hardware, reconfigurable BIOS, OS, and network, or experimental cloud testbeds)?					0%		
Infrastructure Software						**0%**		
	Do researchers have access to **resource management and/or queuing software** for managing access to resources (e.g. **SLURM, Torque**)?					0%		
	Can researchers leverage **institutional-level Identity and Access Management**?					0%		
	Do researchers have access to **2-factor authentication** (where prudent)?	?				0%		
	Is **researcher access** to systems and data managed with a common, **project-based or role-based** tool?	?				0%		
	Are **researchers' external collaborators** able to **use their home organization credentials** (or ORCID IDs, etc.) to access systems and data?	?				0%		
	Do researchers have access to **modules support** to provide access to **system-wide software libraries and applications**?					0%		
Systems Operations								
Monitoring and Measurement						**0%**		
	Is there a practice in place for **monitoring infrastructure at the node (individual unit) level** for resources that support research?					0%		
	Is there a practice in place utilizing **active network measurement tools** (i.e. perfSONAR) for the research-supporting network, DMZ, DTN etc.?					0%		
	Is there a practice in place for **whole system testing** (e.g./chaos monkey) on resources that support research?					0%		
	Is there a practice in place for both **active and passive measurement of infrastructure** that supports research?					0%		
	Do researchers have access to **monitoring tools** as part of their workflow?					0%		
	Is **performance data** (on resources that support research) **analyzed and used for operational decision making**?					0%		
	Is a method in place to **track and report resource usage at the researcher/project level** (e.g., for institutional and funding agency reporting purposes)?					0%		
Change Mngmnt, version control, administration, and ticketing						**0%**		

Area	Questions to consider for: University of Arkansas	Help	Deployment at Institution	Multi-Institutional Collaboration	Service Operating Level	Computed Value	Local Priority	Notes, Questions, Comments
	Do Research Computing and Data staff **follow a documented change management process**?					0%		
	Do Research Computing and Data staff utilize **version control repositories of services and infrastructure data** (i.e., configuration management)?					0%		
	Do Research Computing and Data staff leverage a **ticketing system for user support**?					0%		
	Do Research Computing and Data staff follow an established procedure for **privileged account management** among the administrators, including tracking of elevated privileges?					0%		
	Have Research Computing and Data staff established a **workflow environment to support end-to-end network performance troubleshooting**?					0%		
Documentation						**0%**		
	Do Research Computing and Data staff **produce and regularly maintain systems facing documentation**?					0%		
	Do Research Computing and Data staff have **documented processes, procedures, and policies for infrastructure management**?					0%		
Planning						**0%**		
	Do Research Computing and Data **planning processes include/incorporate security and compliance** considerations?					0%		
	Do Research Computing and Data staff follow a **formal process for procuring research computing, data, networking, etc. resources**? (e.g., noting requirements, benchmarks, cost analysis, acceptance plans, terms and conditions, etc?)					0%		
	Is a **systems and infrastructure lifecycle plan defined and maintained**?					0%		
	Are **researchers and governance roles engaged** to explore gaps and to address emerging needs and technologies?					0%		
	Are **systems-facing staff engaged** with exploring, testing, and deploying **emerging or advanced technologies** to help research?					0%		
Systems Security and Compliance								
Best security practices for open environments						**0%**		
	Is Research Computing and Data (RCD) **security coordinated with institutional IT Security and Compliance**? E.g., i. Is the institutional IT security team leveraged for training and education? ii. Do RCD staff leverage institutional compliance resources/offices?					0%		
	Are **Security Best practices implemented** (such as those from NIST, trusted CI, CVE, and others)? E.g., i. Are **security zones defined** for different data sets and science workflows? ii. Is **monitoring** in use for **intrusion detection, malware**, and other threats?					0%		
	Is there a **security incident response plan**, and an associated response team? i. Are the associated **procedures followed when incidents arise**? ii. Are the plan and team membership **reviewed on a regular basis** (e.g., annually)?					0%		
System Facing Capabilities Coverage						**0%**		
Fields and Domains Support		?						
How strong is System Facing support across these fields and domains								
	Arts and humanities					**0%**		
	Computer science and engineering					**0%**		
	Health and life sciences					**0%**		
	Physical sciences					**0%**		
	Social sciences					**0%**		

Area	Questions to consider for: University of Arkansas	Help	Deployment at Institution	Multi-Institutional Collaboration	Service Operating Level	Computed Value	Local Priority	Notes, Questions, Comments
Other Domain	*(specify additional domain)*		Not relevant or applicable 0			*n/a*		Leave "Deployment at Institution" as "Not relevant..." if you do not use this
Aggregate Domain support						**0%**		
Comments (please note any issues or comments related to the System Facing questions)								

Area	Questions to consider for: University of Arkansas	Help	Deployment at Institution	Multi-Institutional Collaboration	Support Level	Computed Value	Local Priority	Notes, Questions, Comments
Note: in this facing, interpretation of the answers is more abstract. E.g., "Deployment" will be interpreted as "support" or "adoption"; "Collaboration" may be on topics related to the question (e.g., shared practices for strategic planning), rather than directly on the activity in the question; and "Support Level" will be interpreted as the robustness of support for the practice or understanding.								
Institutional Alignment (How policies and priorities are set)						**0%**		
	Does your Research Computing and Data (RCD) team/group **have a strategic plan**? i. Is this strategic plan **updated on a regular basis** (e.g., annually, semi-annually)?	?				0%		
	Is your Research Computing and Data (RCD) **strategic plan aligned to campus plans**? i. Does the RCD plan connect/relate to an institutional (campus-wide) strategic IT plan? ii. Does the RCD plan **connect/relate to an overall institutional** (campus-wide) **strategic plan**?	?				0%		
	Do the Research Computing and Data (RCD) service and support community and underlying IT service providers **have a good awareness and understanding of major research efforts/initiatives** across the institution?					0%		
	Are **research priorities, and Research Computing and Data (RCD) strategic priorities well-understood by your institution's management and planning groups**? i. Are the institution's research priorities well-understood by campus leadership? ii. Are RCD strategic priorites understood and supported by campus leadership?					0%		
	Does institution-level management and planning recognize and value the impact of Research Computing and Data (including return/value on investment)? E.g., are research computing and data services valued at the same level as or higher than other enterprise services when discussing of prioritization of campus (budget) resources?					0%		
	Are researchers effectively informed and made aware of Research Computing and Data (RCD) resources and services? i. Is there an institutionally defined role that includes responsibility to create awareness of RCD resources and services available on campus or externally? ii. Are RCD services documented in an accessible platform, such as an IT service catalog? iii. Is the importance of outreach and training recognized by campus leadership?					0%		
	Are Research Computing and Data (RCD) **resources and services available in support of instruction** or other pedagogical uses? E.g., i. Can and do instructors leverage research computing resources for instruction? ii. Are instructors effectively informed about available resources?					0%		
Institutional Culture for Research Support						**0%**		
	Is there an understanding across the IT organization, research community, and institutional leadership **of the distinction between Research Computing and Data services and standard (enterprise) IT services**? *Note: This does not imply greater importance of one or the other, nor is it meant to imply how an organization should support each. Rather, it is a recognition that the goals, constraints, metrics, and support models tend to be quite different.*					0%		
	Is **facilitation of Research Computing and Data services recognized as an important role** to the campus?					0%		
	Are Research Computing and Data **operating metrics captured and reported to leadership** (IT, Office of Research, or other institutional leadership)?					0%		
Funding						**0%**		
	Are Research Computing and Data **services funded in a sustainable manner**? E.g., i. Is there recurring program budget for the staff and services operations (i.e., not primarily dependent upon grants or other non-recurring funding)? ii. Are campus funding partnerships formalized with an MOU or equivalent agreement? iii. For activities funded from contracts and grants, is there a strong track-record of renewed funding?					0%		
	Are **new funding opportunities proactively identified and assessed at an institutional level, for relevance** to institutional mission and alignment to Research Computing and Data needs and priorities?					0%		
	Do **research funding activities actively integrate** the **Research Computing and Data** (RCD) services group? E.g., i. Do RCD groups/teams collaborate with the Contracts and Grants groups/teams? ii. Do RCD staff assist Principle Investigators (PIs) with proposal preparation?					0%		

Area	Questions to consider for: University of Arkansas	Help	Deployment at Institution	Multi-Institutional Collaboration	Support Level	Computed Value	Local Priority	Notes, Questions, Comments
Note: in this facing, interpretation of the answers is more abstract. E.g., "Deployment" will be interpreted as "support" or "adoption"; "Collaboration" may be on topics related to the question (e.g., shared practices for strategic planning), rather than directly on the activity in the question; and "Support Level" will be interpreted as the robustness of support for the practice or understanding.								
	Do Research Computing and Data (RCD) services groups/teams **submit** (extramural) **grant proposals** for RCD investments and innovations?					0%		
	Have Research Computing and Data (RCD) services groups/teams **been awarded** (extramural) **grants they applied for**, in support of RCD investments and innovation?					0%		
Partnerships / Engagement with External Communities						**0%**		
	Do Research Computing and Data (RCD) services groups/teams **actively engage with regional and/or national Research Computing and Data peers/communities** (e.g. regional research network providers, CaRCC, CASC, Internet2, Campus Champions, NSF regional Big Data Hub, etc.)?					0%		
	Are institutional **Research Computing and Data services provided to external users**, such as hosting data repositories, providing computing resources, etc.? E.g., are you a provider to XSEDE or the Open Science Grid (OSG)					0%		
	Is there a practice of **active engagement** of your institution **in external partnerships** (for funding, or for advancing Research Computing and Data activities and interests? E.g., are there regional partnerships, and/or active industry partnerships?					0%		
Professional Development of Research Computing and Data Staff						**0%**		
	Are Research Computing and Data (RCD) **staff provided with professional training opportunities**? i. Do RCD staff have access to funding for training? ii. Does each RCD staff member have a professional development plan?					0%		
	Are Research Computing and Data **staff provided with opportunities for career advancement**? i. Are there clear career paths defined for each role? ii. Are staff encouraged/supported in pursuing career advancement opportunities?					0%		
	Are Research Computing and Data (RCD) **staff permitted to use staff time to engage in regional or national community efforts**? E.g.,: i. Do RCD staff participate in regional networks, Campus Champions work, Linux user groups, CaRCC, etc.? ii. Do RCD staff contribute to the Carpentries work (training materials or activities)?					0%		
Diversity, Equity, and Inclusion						**0%**		
	Is there a **policy and practice to ensure** (and if necessary, improve) **diversity, equity, and inclusion**, on the Research Computing and Data (RCD) staff? i. Are RCD staff regularly surveyed on engagement, cultural climate, etc.? ii. Does RCD management track this over time? iii. Are the results used to develop ongoing strategies to improve diversity, equity, and inclusion?					0%		
	Are Research Computing and Data **recruitments** (job listings) **reviewed for inclusive language to attract a broad range of applicants**?					0%		
	Do Research Computing and Data staff have **access to diversity, equity, and inclusion training** (e.g., on unconscious bias, communication styles, multicultural awareness, etc.)					0%		
Strategy and Policy Facing Capabilities Coverage						**0%**		
Fields and Domains Support		?						
How strong is Strategy and Policy Facing support across these fields and domains								
	Arts and humanities					**0%**		
	Computer science and engineering					**0%**		
	Health and life sciences					**0%**		
	Physical sciences					**0%**		
	Social sciences					**0%**		
Other Domain	*(specify additional domain)*		Not relevant or applicable 0			*n/a*		*Leave "Deployment at Institution" as "Not relevant..." if you do not use this*
Aggregate Domain support						**0%**		

Area	Questions to consider for: University of Arkansas	Help	Deployment at Institution	Multi-Institutional Collaboration	Support Level	Computed Value	Local Priority	Notes, Questions, Comments
Note: in this facing, interpretation of the answers is more abstract. E.g., "Deployment" will be interpreted as "support" or "adoption"; "Collaboration" may be on topics related to the question (e.g., shared practices for strategic planning), rather than directly on the activity in the question; and "Support Level" will be interpreted as the robustness of support for the practice or understanding.								
Comments (please note any issues or comments related to the Strategy and Policy Facing questions)								

DO NOT EDIT TERMS!!!	Weight	Notes
Measuring Deployment at Institution	**1**	Weight for "**Deployment at Institution**" column. Set to less than 1, to reduce the impact of this globally. **MUST be a value between 0 and 1**
Deployment/support institution-wide - 5		
Deployment/support for parts of the institution - 4		
Planning, piloting, and initial deployment - 3		
Tracking potential use - 2		
No deployment or support - 1		
Not relevant or applicable - 0		
Measuring Multi-Institutional Collaboration	**0.1**	Weight for "**Multi-Institutional Collaboration**" column. Set to less than 1, to reduce the impact of this globally. **MUST be a value between 0 and 1**
Leading multi-institutional collaboration - 5		
Sustaining multi-institutional collaboration - 4		
Piloting multi-institutional collaboration - 3		
Exploring multi-institutional collaboration - 2		
No existing multi-institutional collaboration - 1		
Service Operating Levels	**1**	Weight for "**Service Operating Level**" column. Set to less than 1, to reduce the impact of this globally. **MUST be a value between 0 and 1**
Priority/Premium - 5		
Basic/Economy - 4		
Lights on Only - 3		
Substantial Risk of Failure(s) - 2		
No existing service or support - 1		
Support Levels	**1**	Weight for Alternate term list on Strategy & Policy facing sheet, replacing "**Service Operating Level**" with "**Support Level**" Defaults to weight for Service Operating Level. **MUST be a value between 0 and 1.**
Strong Support, Awareness, Commitment- 5		
Basic Sustained Support and Awareness - 4		
Minimum Resources & Commitment - 3		
Very limited support, and At Risk - 2		
No existing support or awareness - 1		
Fields and Disciplines support levels	**0.7**	Weight for "**Fields and Disciplines**" factor. Set to less than 1, to reduce the impact of this globally. **MUST be a value between 0 and 1**
Strong Support 3		
Limited Support 2		
Little or no support 1		
Not relevant or applicable 0		
Fields and Disciplines		
Arts and humanities		
Computer science and engineering		
Health and life sciences		
Physical sciences		
Social sciences		
Local Priority		Note this is just for your own use, and does not impact the model calculations in any way
High Prio		
Med Prio		

Logic for each row	Notes

`IF((LEFT(D3,3) <> "Not"),`
`  MIN(1,`
`  (MAX(0,`
`  1-(`
`  ((5-VALUE(RIGHT(D3)))*'Terms and Weights'!$D$2`
`  +(5-VALUE(RIGHT(F3)))*'Terms and Weights'!$D$17)`
`  / (4*'Terms and Weights'!$D$2+4*'Terms and Weights'!$D$17)))`
`  * ( (VALUE(RIGHT(E3))-1)`
`  *((1-'Terms and Weights'!$D$10)`
`  +((2/3)*'Terms and Weights'!$D$10)) ),`
`"n/a")`
	`// Filter Not relevant`
	`// Cap at 1 (allow for boost below)`
	`// Safety to have Min 0`
	`// Sum is discount from 1`
	`// Weighted Deployment at Inst`
	`// Weighted Service Op Level`
	`// Normalize with sum of weights`
	`// Scale by the Collab level`
	`// Base of .9 (if wt=.1), so discount for`
	`// "No..." or "Exploring...", else boost`
	`// If row not relevant, return "n/a"`

Logic combines Deployment and Service Operating Level equally and then scales up or down with collaboration: It gives a penalty for "No existing..." and "Exploring...", a neutral impact for "Piloting..." and a boost for "Sustaining..." and "Leading..."	