ERM(S) + Workflow
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My name is Angie Rathmel. I’ve been working at KU for the past 17 years – all of it in the Acquisitions and Resource Sharing area and most of it dealing with serials and electronic resources. This practical experience was helpful since during my MLS studies there was no course in e-resource management. Shortly after receiving my MLS from Emporia State, I was hired as one of two e-resource librarians at KU. In that role, and in my role as head of Acquisitions & Resource Sharing, my professional and research interests center around change in response to e-resources (and by extension open access resources), particularly the responses in workflow systems and tools, and in interpersonal and organizational communication. I am also involved in service with the ALCTS (Associate of Libraries Collections and Technical Services) arm of ALA and I blog with ACRL (Association of College and Research Libraries) at acrlog.org

**CLICK** Your turn. Could each of you use the chat to introduce yourself and let me know one thing you’re hoping to learn in tonight’s class.
Outline

• Focus
  • Systematically (from the vantage point of systems/tools)
  • Constructively (from course outline so far)

• Basics
  • Definition
  • View inside/outside

• Evolution, Current, and Future State
  • Lifecycle and Workflow
  • Staffing and Organization
  • System Alternatives, Market
ERM System

- Knowledge Base (KB)
  - Holdings, description
- Administration around the KB
  - Beyond bibliographic descriptors
  - Ongoing maintenance of holdings
  - License, usage
- Administration of administration
  - IPs, URL, EZ Proxy configurations
  - Administrative logins, contacts

The ERM system at its core is a knowledge base, you’ll hear that term a lot. Basically, it is the catalog where you describe what electronic resources your library owns or wants to make discoverable by associate holdings to those records. The integrated library system (ILS) is also a knowledgebase, primarily or historically developed for libraries’ print holdings. So in simple comparisons, ILS=print as ERM(S) = electronic holdings.

The ERM system was somewhat in response to the fact that the ILS had limitations by virtue being designed for print. The ILS didn’t have structure for administrating other necessary elements for describing electronic resources, its holdings, and managing their discovery on an ongoing basis.

A major defining major part of the ERM, distinguishing it from the ILS, is the administration of data around the knowledge base holdings. For example, the way those particular e-journal and e-books are packaged, their cost, the terms of use or license associated with it, and how they are used, the statistics used for evaluation.

There is also an additional layer of administration of those administrative details that the ERM manages as well. For example the tracking your IP ranges, and EZ Proxy configurations, in order to manage ongoing maintenance of holdings and access. Where you go to download statistics, manage interface, for each of your providers requires
centralized management of those admin interface login detail, and the contacts for troubleshooting.
Knowledge Base

• Selection to Discovery
  • Items under consideration now or in the past.
  • What options for purchase are available (platform, package)

So, the Knowledge Base function of the ERM is primarily providing a centralized place for tracking selections and holdings. As you select and track resources in the ERM, they are “turned on” and become connected to that linking and discovery capability.

But considering selection from a workflow and staffing perspective, the ERM is providing two things. There's the selection as an acquisition and cataloging function – what options are available to buy and selecting what record to attach the holding once its purchased and available. But the ERM can also help track at what stage of the selection process the e-resource is and provide a historical perspective on the selection process for a particular resource. Let’s see what this looks like in more detail.
The ERM I’m going to use in my examples called Serials Solutions 360 RM product. It is actually no longer the current system we use at my library, but they ways it is laid out makes it better for explaining ERM system structure than current systems which are better for actually working in. I’ll explain that difference a little later on when we dive into workflow influences on systems.

We’re looking here at the basic knowledge base structure (starting with the data element called the “provider”) and drilling down to the most familiar bibliographic level data (books and journals).

Shown here in the breadcrumb we see the relationship between the platform provider EBSCOhost and its database Academic Search Complete, and the titles within that database.

One more level of down to the individual title is where you see the more specific bibliographic details including the access URL. It is here you would make edits in order to select this as part of your holdings by changing the status to Subscribed and manage the coverage date ranges of your holdings. It is also here where you take the initial step to enable linking and discoverability.
...shown by the fact that Display In categories are checked.

360Link in this case indicating the linking to discovery in enabled, and 360 MARC indicates a choice to add a MARC record to your ILS catalog for an additional point of discovery.

The URL includes what’s called a proxy prefix that enables it to authenticate users from off campus as part of your on campus network. Here you are seeing the proxy addition to the URL at the title level of this record. But the way the ERM is structure around the provider allows you to set specific details at that top layer and the systems manages the inheritance down, so you are not maintaining thousands of URLs.
To illustrate discovery a little further detail, let’s look at this journal level detail in the ERM to show how the ERM structures what the patron sees. I am showing here a journal title Psychopharmacology and the various different databases in which we have selected to track our holdings. The ERM allows me to sort these results however my workflow needs to see it. But ERM also allows me to administer what sorting priority is given to the patron, so that you can optimize their display to show what databases are the most reliable.

So this is search results of the journal itself in a patron interface. This is especially important for when patrons are searching for articles with a more general search.

And which resource is most reliable may change over time. So this is a comparison of the display’s order of databases from last year to this year. What’s happened is our subscription with the publisher Springer for this title, was canceled, so it is only showing the access for the years we formerly had a subscription. It also reflects some rethinking of the Alumni access being lower in priorities and probably at some point giving a higher overall priority to ProQuest databases, perhaps because their linking mechanisms were more reliable the EBSCO SPORTDiscus, etc).

Unfortunately, ERM and linking capability currently aren’t sophisticated enough in ERMs to prioritize these by date range provided. So the best we can do is deprioritized cancelled
resources, since they definitely will not have to present access, and these others may have present access for some titles (if not this one). Other reasons you may have for prioritizing certain providers might be based on the openness of its access or terms of use. That was our thinking with prioritizing Alumni access in the first option. But, you have to balance that with the reliability of the linking capability. So we have adjusted order based on reported errors in some cases.

In this search result the link resolver function is going to try to match them with the most reliable result, either by taking them directly to that full text article or to an intermediary like this screen where they can click Full Text Online.
You can begin to see how the ERM manages administration around our holdings in the knowledge base, centralized around the provider and how that shows up to users. Let’s work our way back to how other administrative details about a electronic resource, like licenses, are from this display managed in the ERM.

The ERM allows staff to track licenses associated with a resource, but it also has the same mechanisms to make the terms of the license to display to patrons in the discovery layer. In all honesty, patrons rarely, if ever, use this because its an optional and buried link to click, unlike “click through agreement” we see when download an app or update our software, reviewing and accepting these terms are not usually a required action by patrons to access the full text. But when you do click the Terms of Use link here, or (more likely) when staff do so for troubleshooting, you’d be able to see terms that were first administered and managed in the ERM and made displaying to public in this interface. You can see its showing the terms for each one of these providers.

So even though users may not directly use this display, the staff and workflow that depends on this piece of the display staff troubleshooting access for patrons that may be related to for example their users status or whether the provider allows ILL for a particular article in the database, or in some cases more restrictive terms that apply only to a portion of the content in the database (e.g. HBR). You can see that the display here is only showing those
most relevant and frequently referenced terms. But there are 76 possible fields in the ERM that you could display. As you image looking at just these few displaying that could get real messy real quick from a design and usability perspective.
Now, in the ERM can serve as a centralized repository for electronic resource license data, and in some cases, a repository for the license document itself.

Here is where a URL to the license (at the publisher site or your negotiated license stored on a local network).
And where you input license terms values either to manage within the ERM or which of those 76 possible terms are you want to display on the patron interface.

Despite the limitation of the patron display and the license details are a necessary piece of the administration around the knowledgebase, because it allows it to be connected not just to the bibliographic holdings and titles involved, but also connected to the other details, such as cost.
Cost is probably the most potentially valuable and yet unrealized aspect of the ERM system and why ERM are on the whole failing to meet libraries’ needs. One reason for this is because this cost data is already stored and managed in the library’s main integrated library system (ILS).

The ILS provides order, invoice, and accounting details necessary to manage budgeting of all library resources. Just as with ILS knowledge base, the ILS accounting features were also not designed to accommodate additional e-resource data needs like the license, e-resource vendor contacts, and renewal mechanism. Unfortunately, ERM design never developed sufficient interoperability with the ILS so when it comes to cost data, many institution lack the staff to support for loading and managing that data in two systems.
One of the reasons cost data management is so necessary and yet unrealized in either the ILS or ERM has to do with the fact that the pricing and accounting associated with e-resources is extremely complex. First, book prices are fairly stable between institutions, but e-resource are priced according to institutional size or number of users.

Second, whether purchasing e-resources as a one-time purchase (like back-file) or as an ongoing commitment (subscription database) there are costs associated with ongoing maintenance and accounting for that provision of access. Where that cost and renewal falls in a budget year—always on the calendar or at varying points throughout the year.

Other cost complexities come as e-resources are often bundled into various packages. These deals that may or may not be offered to institutions in equal ways; institutions may request multi-year pricing discount in response to the particular budget environments at any given time; or institutions may group together in a consortia as another way to collective bargaining tool for controlling costs. Each introduces different complexity to cost management and reporting. Reporting cost is the end-result of this administrative aspect of the ERM, as an evaluation tool. But equally important to that end is begin able to tying that cost evaluation to the evaluation of usage of these resources.

Cost Data - Detail

- Institutional size (Carnegie Classification)
- Number of users (FTE, sim user limits)
- One-time vs ongoing
- Static vs Varied renewal dates
- Big Deals, multi-year contracts
- Consortia
- Evaluation with usage
ERMs address the management of usage data in a repository kind of way as well, usually as a separate module or feature of the ERM because at the time separate vendors were also offering this service and also because of the complexity and system resources needed to store and manage usage data itself. Normalization of data across multiple providers is not easy. ERMs often are limited to loading only COUNTER compliant (or standardized) usage data. Often because this is what is reported out to National Organizations that compare peer institutional data, like Association of Research Libraries (ARL) and because its standardized format allows for more automated collection and comparison.
This is what Release 4 Counter Journal Report 1 looks like. Shows the usage date range, details about the provider and each title (ISSN, etc) and the number of downloads or use, counted by HTML views, PDF downloads, or combined total and combined by each month of the provided date range.
But when the ERM is not the actual ingest repository for these reports, its primary function is centralizing the secure access points to obtain or connect the providers’ usage data, and for storing other administration details describing how to collect that data. (e.g. how its delivered, how often its reported or delivered in some vases, the releases and types of reports available) And as you can see this ERM is dating itself into irrelevance as you can no longer record the most current COUNTER release types available for a provider.
ERMS that do ingest COUNTER usage reports, either allow this manually or through an automated process according to certain protocols for communicating with providers secure sites, and which align to match up with COUNTER standard data points for delivery and reporting.

The primary one is called SUSHI protocol, but some vendors have created their own proprietary automated harvesting mechanisms (Intota called their DRS – data retrieval service, for example to reflect that the entire process is not entirely automated, but still requires a fair amount of human intervention, normalization, and service (troubleshooting).

In addition to being the repository these systems usually also providing additional layer of visual analysis or peer comparison of data.
The way the ERM administers such administrative details is the final layer of functionality. The ERM’s centralization of the vendor’s administrative portal details that assists in the usage collection process is one example. That portal also administers each provider’s search display features and the ability to add library branding. Vendor contacts may seem minor, but centralization here is important given there are many for each different aspect of e-resource management of a particular resource (from sales, to licensing, to tech support).

The core of the administration of the administration around the knowledge base.

The other administration of administration has to do with the metadata associated with the access details for all your resource. IPs, EZproxy, etc.
So here is a look at the basic function of the system the context of what you’ve already covered in your course so far.

1) The knowledge base connecting to selection and how e-resource content is packaged, and linking capabilities is what connects the knowledge base to allow it to be discoverable to patrons.

2) The administration function around the knowledge base holdings, relates to what you’ve covered as far as packages and pricing license and usage data.

3) And the administration of those administrative details in the ERM is talking about the work of vendor relations and the administrative modules of vendors, and the metadata associated with the vendors platform – how the link resolvers functions, customizing user interface features, adding local library branding, etc.
Questions before we talk about how the ERM aligns with e-resource workflow and staffing?. Then we’ll wrap up with where the system market is headed.
Those who’ve taken a catalog class,
Question: What’s another word we could use here to define this administration of all this data about data?
Answer: Metadata

Albeit in a different sense than is commonly understood for that term in cataloging, which has had years of historical development. Metadata and the necessity of standards is a core part of ERM systems and workflow we developed much more quickly. As such, there are some guiding standards ERM metadata, which I’ll point to as we go thought various sections of the ERM system and workflow, that remains pretty unstandardized, which is why e-resource management has engendered such metaphors as taming the tiger, putting out fires, or herding cats.

So I going to talk about how the ERM as a system evolved as an attempt to herd cats of metadata, so to speak. But also talk about how that chaotic metaphor extended to the development of the e-resources lifecycle, workflow, staffing and organizational structures. This will include a discussion of system alternatives and the state of the ERM in libraries and in the market.
As we think about how the ERM evolves to address needs the ILS was not providing, it involved a lot of rethinking design, addressing new standards for new kinds of data, and new ways of structuring everyday work in libraries. It was fast and furious, mostly reactive, and still involves a lot of workarounds and troubleshooting.

One of the first attempts to address the ILS inability to handle this chaos was the DLF ERM Initiative which outlined standardized features and functions needed to support managing electronic resources. ERM platforms were developed using the report as a blueprint. Other guidelines evolved associated with various ERM aspects – licensing, usage. The SUSHI protocol was one of many other workflow and system standards (KB standards, Linking, Transfer are other examples) developed as part of the National Information Standards Organization (NISO)

However part of the problems from the get go, were the fact that it was a separate system that did not integrate well with existing systems. Much of the usefulness of that system required duplicating data the ILS did provide into the ERM (biggest example e.g. cost data). In this way it just didn’t do a great job of supporting workflow. It was designed with data in mind instead of workflow. As acquisition of e-resources grew and the development of different kinds of possible e-resource format grew, outpacing the design of our systems to accommodate it. So, this raised significant workflow problems. To address this, ERM
began to look at metadata elements from the perspective of workflow, which was no longer linear, but cyclical – and staffing competencies.
Oliver Pesch in 2009 (who worked for EBSCO at the time) outlined the e-resources life cycle in this image has been used often to illustrates the complexity of the workflow management involved and the chaos that has challenged e-resources management workflow and systems to date. But you can see here too the details involved in administrating data around the e-resource lifecycle.
It was this diagram that lead Jill Emery and Graham Stone to develop a crowdsourced wiki-project to collect best practices from practitioners in the field for the techniques associated with each point in the lifecycle. Their project developed 6 TERMS.

Understanding the e-resource lifecycle and workflow and the particular work involved at each stage has been useful for refining the use of ERM systems to address workflow.
Recently the TERMS have been revisited into a 2.0 version that incorporates issues related to open access aspects/differences in investigation and acquisition there, as well as important issues related to digital preservation.
The emphasis on the lifecycle is addressed in another key project, the development of CORE Competencies for E-resources Librarians.

If I were to address how the ERM supports these competencies I would say that is pulls data together at each point in the lifecycle, but the librarian must understand how they fit together.

The ERMS as a specific piece of technology, needs to interoperate (and the librarian must understand the interoperability) with other systems and technology.

The ERM and later the newer Library Services Platform understand the important of data and assessment and incorporate data elements necessary to evaluate resources. But the librarian must remain understand the limitations of data and how to effectively analyze data for decision-making.

You cannot rely on the tool to replace librarians. However, when evaluating systems, their ability to complement to work of e-resource staff and help address efficiency in this work is critical. In these last several competencies is where the ERM has not been as effective. There are basic workflow needs that the ERM simply can’t yet address. Two of the biggest are staffing and communication across the e-resource lifecycle. The TERMS lifecycle
project and these competencies have helped guide and align staffing support with the increase in e-resource acquisition, there is still a great deal that is still developing with respect to how e-resource staffing is organized and managed.
I’ve found in my own research and reorganizational efforts at my institution, that question of best ways to staff and organize of e-resources responsibilities center around the question of whether e-resources is specialized work of a person or group, or if it is better distributed among everyone’s responsibilities? Typically e-resources work evolved out of serials work, as a specialized function. But more and more, and particular as e-books evolved out of print based and linear workflow, e-resources has had to become everyone’s concern. In fact, discussion around the core competencies has addressed the fact that they are not intended to account for the responsibilities of a single e-resource librarian position. The one person wearing many hats is not very sustainable in libraries where e-resources content account for nearly 80% of budget. As I mentioned at KU when I was hired into a specialized e-resource librarian, I was one of two, and still e-resource responsibilities were also covered in other areas of the organization. While it may still be necessity in some organizations to designate a specialty in this way, the strict interpretation of one person to many hats (or responsibilities) is not desirable. In additional to potentially overloading a single person, you prevent everyone from experiencing and evolving with the change that effects every part of the library from selection to discovery.

To help see how these responsibilities are staffed in either model, I’ll outline some of the key specializations and areas of the library where you will find these responsibilities either specialized or distributed.
As I mentioned, beyond these specializations in individual positions, e-resources responsibilities can be also be distributed across the lifecycle of the work.
Starting with selection. Usually this is the responsibility of selectors or bibliographers (subject librarians); whether they are in collection development unit, or in a liaison model that involved reference and instruction. They determine relevancy to Univ. programs, figure out how to budget for item, trial resources, ask for comments, Are other resources in subject area used? With selection comes deselection.
Acquisition, and at KU our acquisitions is combined with Resource Sharing (ILL). This is one of the ways we have worked to distribute e-resource responsibility across the organization. We’ve divided responsibilities into the request process both for acquisitions and interlibrary loan and document delivery – everyone is expected to know the processes and workflows around requests for e-materials as well as print.

Another unit coordinates with the accounting, payment, and invoicing; and the especially complex annual subscription renewals process. Because of the close relationship of license negotiation to sales and payment negotiation, licensing is part of this unit.

The work of e-resource in acquisitions is also more patron facing, since what we are acquiring electronically is them immediately available to patrons, there is not longer an intermediary, so cataloging, information management and troubleshooting with an actual service desk presence is part of our third unit in this department as well.
Our structure in ACQRS attempts to mirror the cycle of e-resource management from acquiring and some implementation in NRF, to implementation, review, and evaluation in PRL, and overall management of the records for cancelling, replacing, or preserving. Troubleshooting is included in that.
Thinking back the ERM system functions for acquiring e-resources, licensing remains a major task and specialization for librarians’ roles. We currently have a Library Specialist devoted to this specialize task. Licensing is one of the hats I wore as an e-resource librarian in acquisitions, and before that our serials librarian handled this role. As head of acquisitions & resource sharing I still have a role working with our license specialist and the university’s general counsel who regularly negotiate licenses directly with publishers. I am often involved in licenses that involve consortia or groups of libraries – sometimes these are negotiated and signed by the consortia coordinator. Other responsibilities under license include interpreting rights related to ILL, perpetual access, fair use and public performance rights often requested by instructors, and evolving issues in open access initiatives and researchers needs for online content to have text and data mining capability.
Cataloging is obviously involved in e-resource from the description, holdigns and discovery aspects. Some specialized positions in cataloging involve original cataloging of databases and e-resources, updating a web-version A-Z database list, and loading of MARC records sets associated with either database holdings, e-books, or demand driven discovery records (records for items not yet in our holdings).

As for journal content, our library subscribe to services from the vendor Serials Solutions to maintain our e-journal holdings. This activities is not managed in the Cataloging department because the information is so closely tied to the license and renewal process handled in Acquisition & Resources Sharing. Once a month, however, Cataloging receives updated files from Serials Solutions to add, delete, or insert updated brief MARC into our ILS knowledge base (aka catalog).
We’ve talked about monitoring and collection usage statistics as very important feature in ERMs. We have a full time staff member who manages this often with additional student help. Over the course of many years we have tired this workflow as a manual process, used the ERM usage module, and explored separate assessment systems. While these stats are made available to content development to review on their own, often staff pull together special groups of usage for comparison and reproduce the data in a format that is conducive to analysis, sometimes comparing across years, adding in cost, and other factors on request. This kind of work requires a keen eye for detail.

This step also involves Selectors (Content Development) for Decision to Cancel or Replace.
You can see how communication in the organization is essential across the lifecycle. One obvious one being campus wide communication that is involved with cancelling or replacing resources. But communication is much more than PR it is an ongoing part of the entire process given the many internal and external players and handoffs involved in the workflow.

Internally, there is strong communication between the technical services end and the public end. For example informing reference/instruction staff about database platform changes, new features, problems, as well as interface and search features available in databases. Communication with the IT staff regarding more technical aspects such as problems with the linking mechanism and EZ proxy configurations is also important. You may also work with IT to address excessive use claims by providers. IT Security office may be involved in identifying users involved, so you can communicate the terms of use associating the activity as a breach of contract, and the risks that effect the entire campus.
And is also closely tied to aspects of helping to preserve access on a ongoing basis and helping users when they run into trouble. Good communication skill and good service skills are needed just as much, if not more that technical ERM expertise.

Ongoing maintenance of these resources is an enormous part of the e-resource staffing responsibility, and requires a lot of coordinated effort. We try for a approach that balances our own internal information control while also making it easier for patrons to report errors. This is where for example the administration of vendor contacts and administrative profiles is important.

Many people from many different parts of the organization rely on that “metadata” to address the upkeep of e-resources access and to troubleshoot problems patrons may experience. So it is necessary to have both centralized expertise and distributed effort.
Communication necessitates good information management. This is challenging when decision points across the lifecycle, happens almost entirely over email (license and renewal negotiation, troubleshooting and incident resolution, and increasing amount of customer service). It is not likely that an ERM or products that evolve from it will entirely replace our email systems. You should expect, however, to seek ERMs or other system solutions that facilitate these communication needs better than traditional email, for example, ticketing and customer relation management systems.

This is especially important for tracking problem resolution for better customer service communication, but also for the purpose of streamlining this part of the workflow as another valuable element in of assessment and evaluation. Like email, and these customer management tools, other shadow systems continue to permeate e-resource management workflows, from basic spreadsheets, to project management software tools, as well as separate e-resource usage assessment tools, or vendor provided usage assessment tools that aimed to take care of cost data de-duplication, or in library-wide assessment tools that address stats across library services beyond content use evaluation. It remains to be seen whether new library services platforms will eliminate the need these extra systems. But it is clear from the evolution of their develop that the began with a strong assessment focus and workflow design in mind.
To recap, the ERM evolved out of workflow and data management and reporting needs that ILS were not meeting. Basically, ERMS served as linked repositories of data around the e-resource knowledge base, but didn’t (still doesn’t) integrate well with existing systems to maintain relevance to evolving workflows. This meant creation and reliance on additional shadow systems while ILS vendors and open source developers attempted reinvent both the ILS and ERM in what is know as Library Services Platforms (or formerly aka Universal Resource Management).

Alma, WorldShare Management, and FOLIO are the top new LSP on the market. But library are still not rapidly adopting these systems, given the level of support a migration of this type involves. Each claims to follow agile product development, rather than major and less frequent releases to keep up with rapidly changing technology needs of libraries.

Marshall Breeding is well know in the library systems field. His library technology guide is an excellent resource. What I’ve excerpted here is from his 2016 library systems report which shows the level of adoption of these new LSP systems remains minimal from 2014-2015, but really changing in the following year with greater adoption of ExLibris’ Alma meeting or supassing Voyager implementations.
On the face of it, it this image of FOLIO’s architecture is not similar to how other LSP described themselves as they were developing. Adding in flexibility to incorporate various different applications common to University's and libraries (core ILS and ERM functions, course management systems, university budgeting systems). But the language to describe this functionally similar to the app and platform environment you may be used to on your iPhone, may be just a better way of describing it, by FOLIO claims it is an entirely different architecture that makes it possible.

One key difference between FOLIO and other LSP’s being that FOLIO development is open source, so its apps are developed by non-proprietary academic library programmers (or anyone developing for the academic library market) and the platform is flexible enough that people will want to design apps for it and interoperate with it so users can use their products.
ERMs are still used by a number of libraries, despite the fact that the providers are not currently being investing development to them, instead that development and the needs I’ve talked about here is being invested in LSP development. As these LSPs and other systems develop, these some key features that are already offered that need to remains, and needs LSP might consider developing specifically related to ERM workflow.

ERM(S) + Workflow Considerations

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<th>OFFERS</th>
<th>NEEDS</th>
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<tr>
<td>• Allows for additional metadata associated with e-resources</td>
<td>• Better integration with ILS</td>
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<td>• Ability to track and communicate the e-resource lifecycle</td>
<td>• To keep pace with development of new formats</td>
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<td>• Potential for centralized assessment (usage, cost)</td>
<td>• Accommodate the most customizable communication mechanisms along the lifecycle</td>
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<td></td>
<td>• Data normalization and system deduplication</td>
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<td>• To integrate troubleshooting</td>
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Event: FOLIO Roadmap Update & Demo
Time: Wednesday, November 1, 2017 at **11:00 AM EDT / 1600 GMT**
Registration [Here](https://zoom.us/webinar/register/WN_4O-Mr9XSzOV7rfOeoxT8A)

The FOLIO platform continues on a fast development track. In this forum, you will hear an update on the roadmap for releasing version 1 of the platform and see a live demo of the components of the system now in place. Hear Harry Kaplanian present the short, medium and long term project goals and deliverables. Watch FOLIO developer Jeremy Huff give a demonstration of the platform as it exists today and take advantage of the opportunity to ask Harry and Jeremy questions about the project and its progress.

**Host:** Eric Hartnett, *Texas A&M University*

**Presenters:**

- Harry Kaplanian, *EBSCO*
- Jeremy Huff, *Texas A&M University*
References and Resources

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