

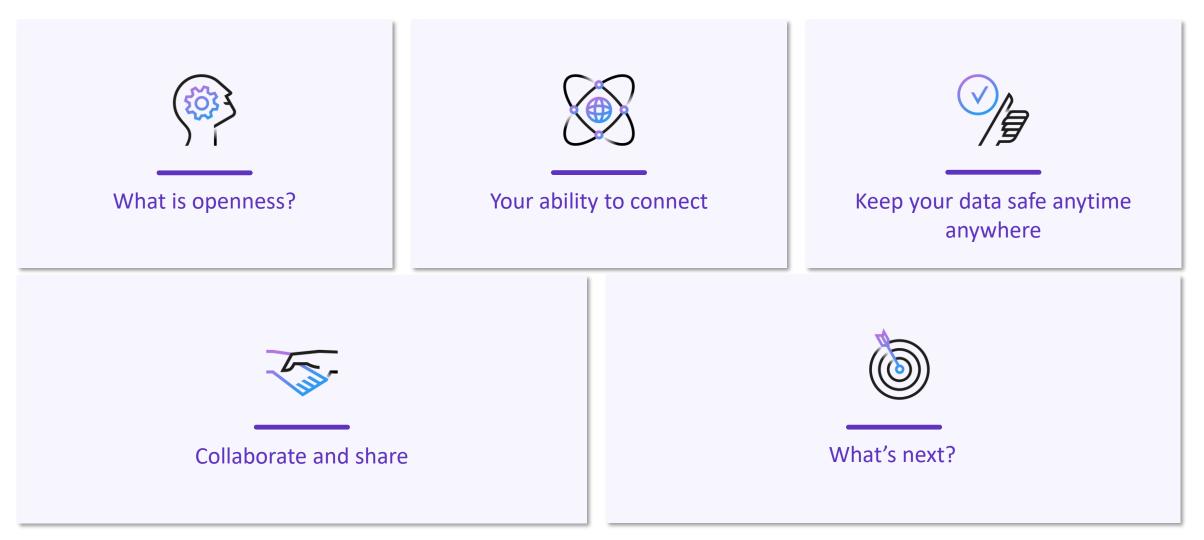
# Community Collaboration

**Empowering Libraries in an Open Platform** 



Itai Veltzman, September 2024

## Agenda

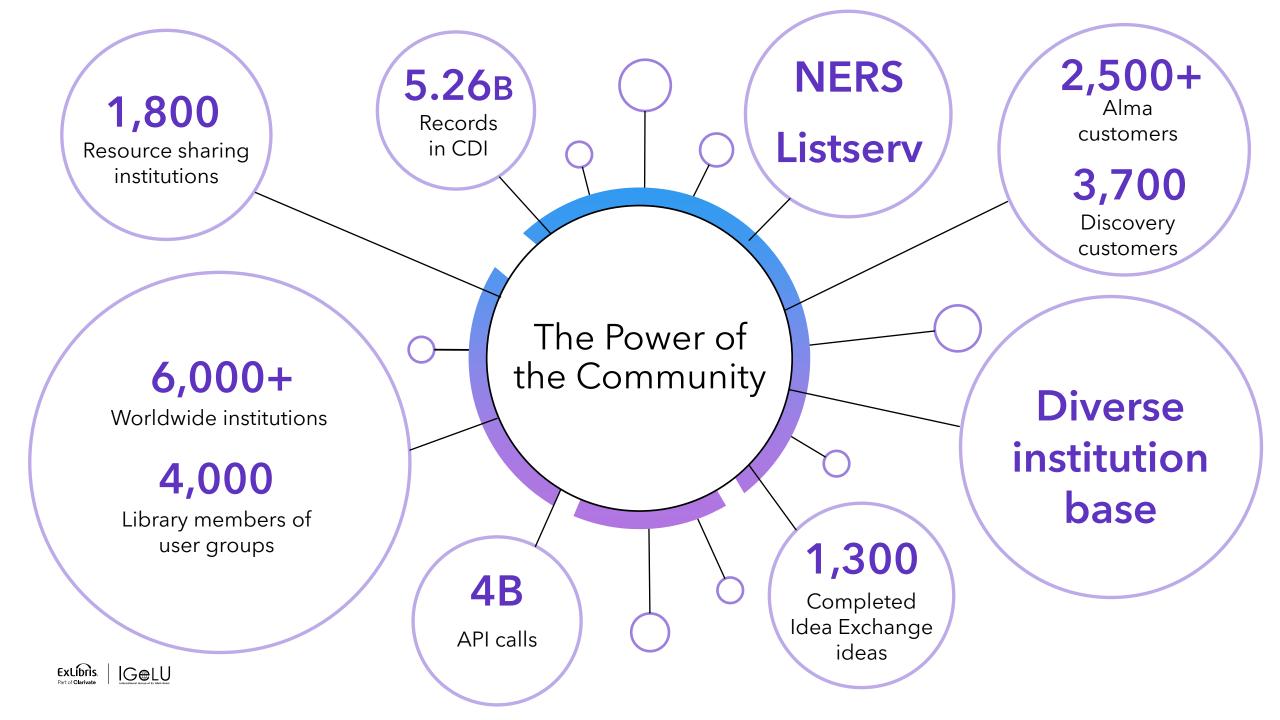




## Openness — Community

## Being part of the Library of Tomorrow



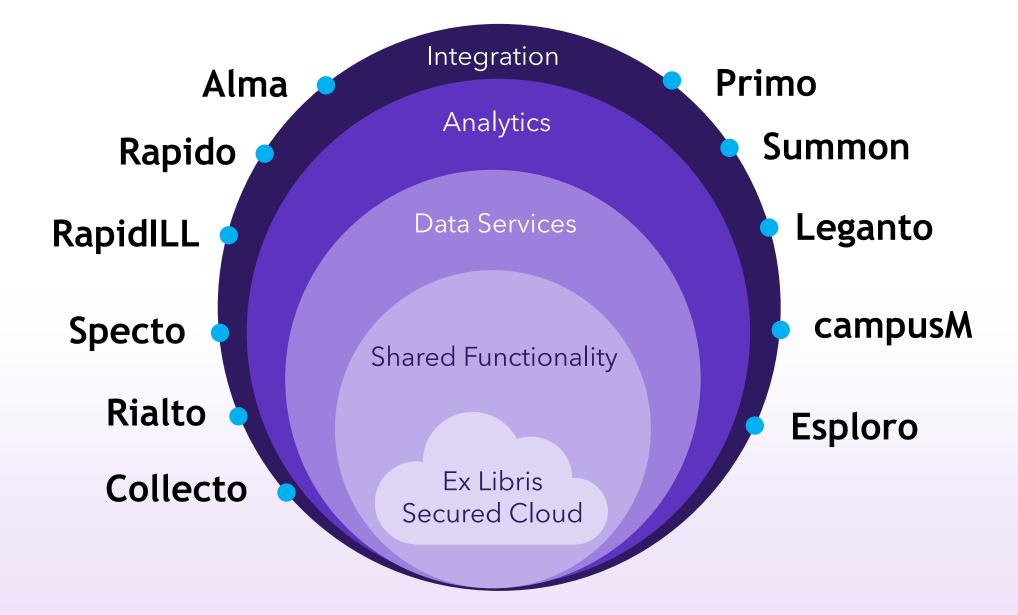


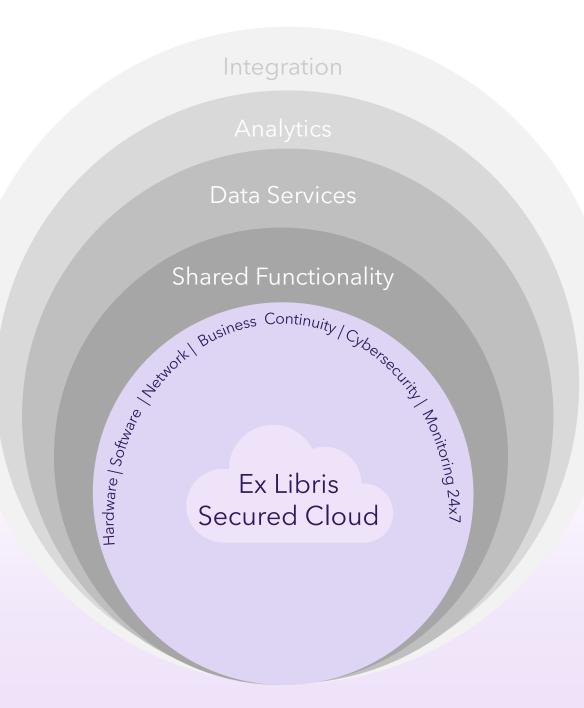
## What does "Open Platform" actually mean?



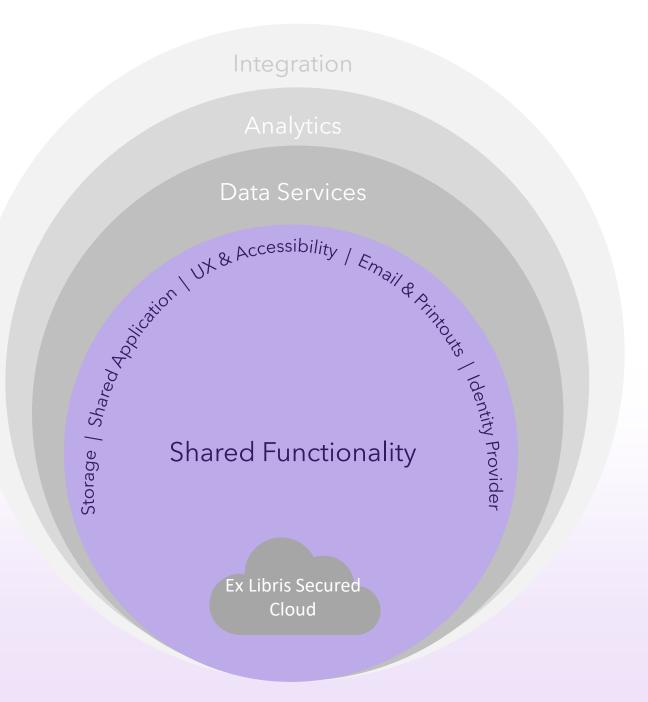


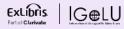


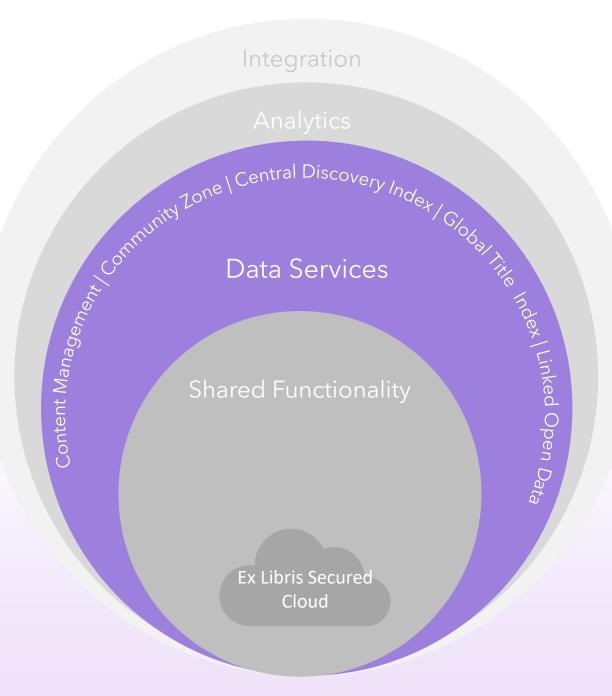


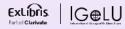


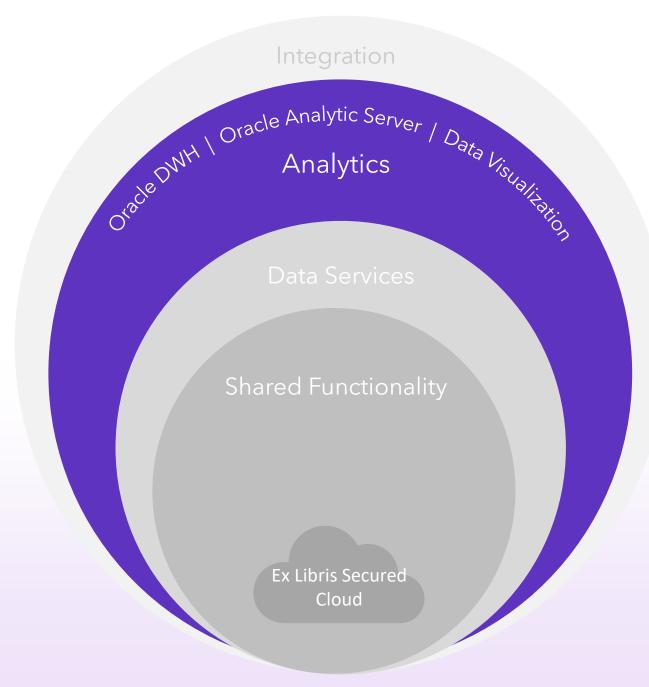




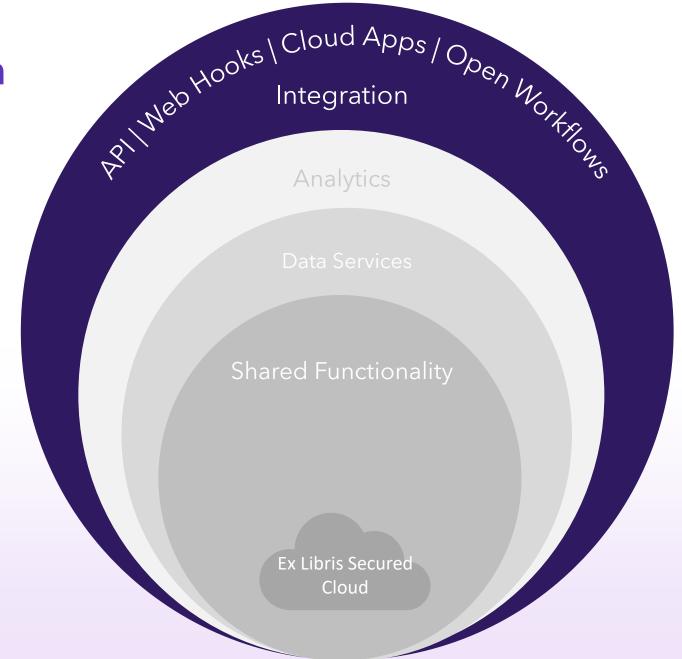


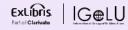


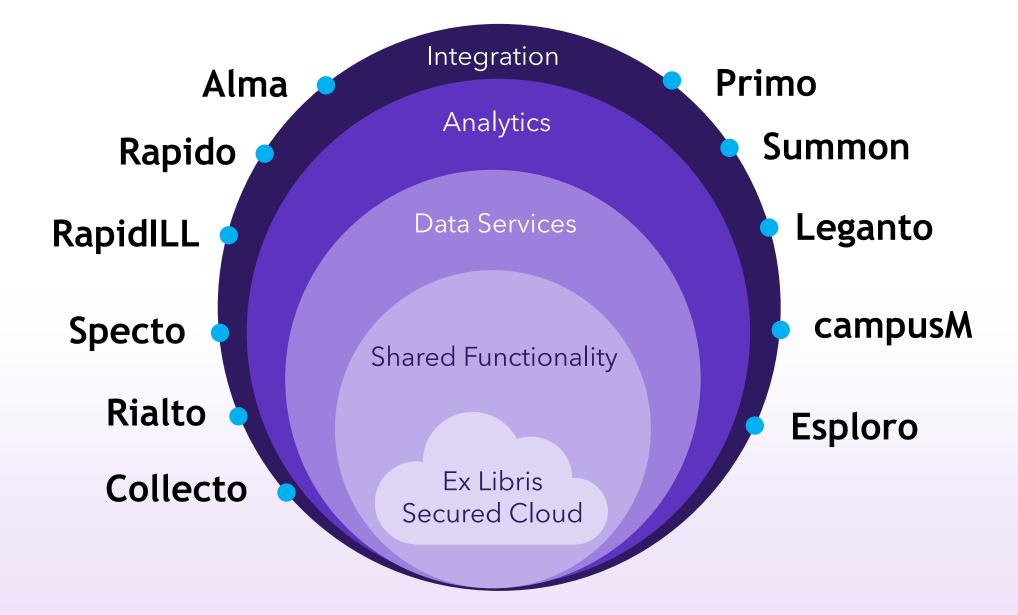




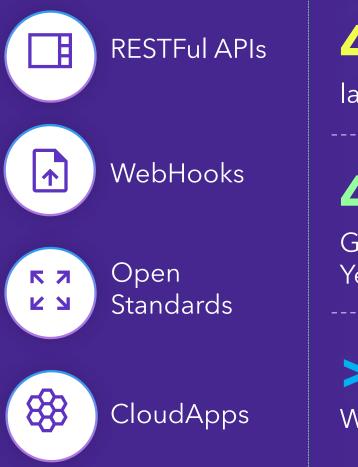








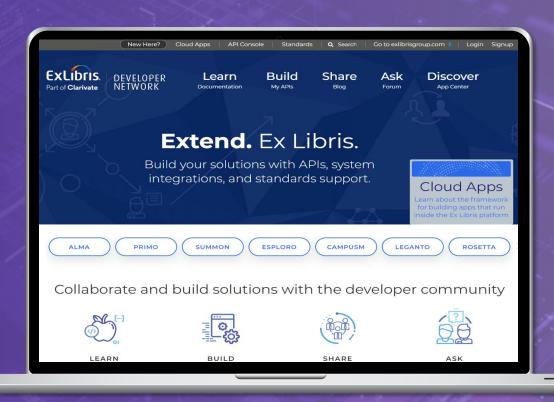
### How open is the platform?



**4B** API calls in last 12 months

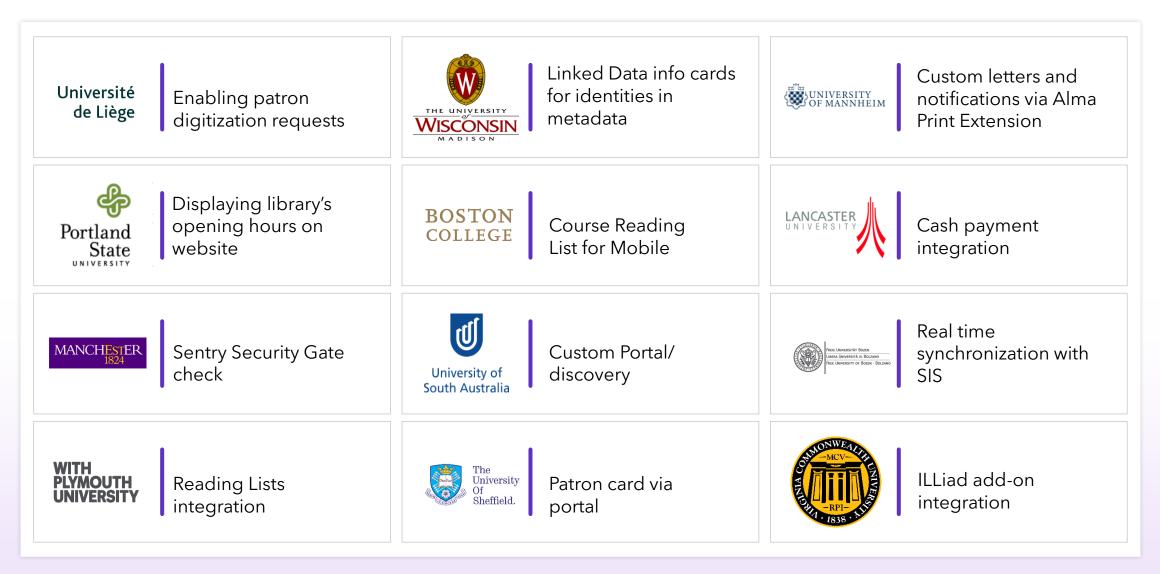
**48%** Growth in last 2 Years

>200 M Webhooks in 2023





### How do our customers use our REST APIs?





### Many possible integrations

Using industry standards

• <u>Bursar</u>	• <u>NCIP</u>
• <u>Courses</u>	• <u>OAI</u>
• <u>Digital</u>	<ul> <li>Resource Sharing</li> </ul>
• <u>EDI</u>	• <u>OpenAthens</u>
<ul> <li>Electronic Holdings</li> </ul>	• <u>RFID</u>
• <u>Finance</u>	• <u>Self Check</u>
•Linked Data	• <u>SMS</u>

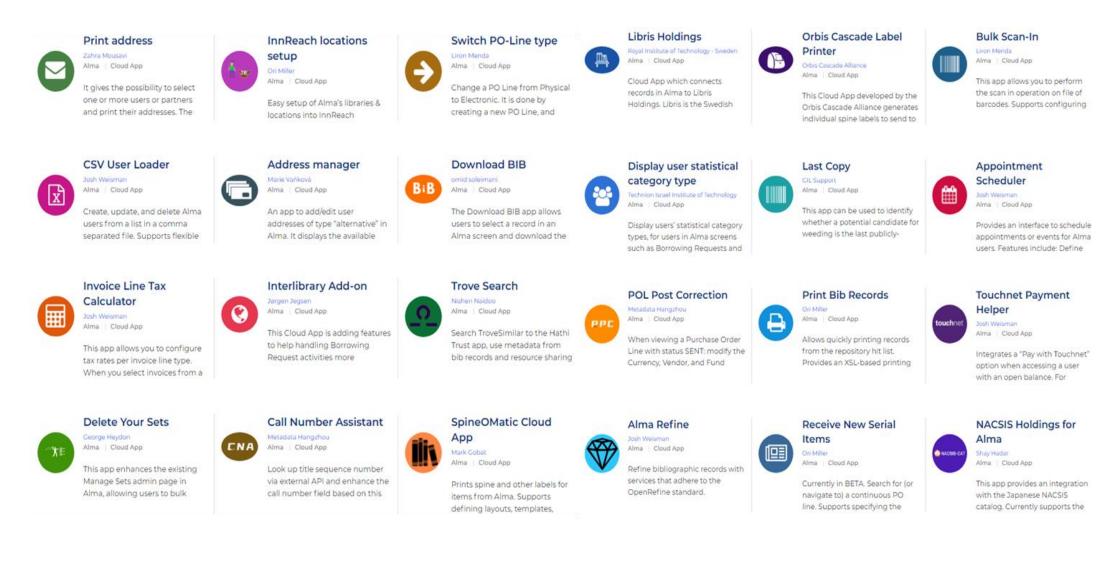
•<u>SRU</u> •<u>Stunnel</u> •<u>SWORD</u> •<u>Users in Alma</u>

•<u>Webhooks</u>

•<u>Z39.50</u>



### **Over 50 Cloud Apps are out there...**



Exclibris. | |G@LUU

# Is being open enough?

# What about cloud security and data protection?







### **Internal and External Auditing**

Our Cloud Security Strategy

#### Risk Management

Ongoing assessments and remediation

### Business Continuity

Business impact assessment, disaster recovery tests and drills

### External

ISO and 3PAO audits, assessments, certification and consulting









### Internal

Monitor, vulnerability scan and review



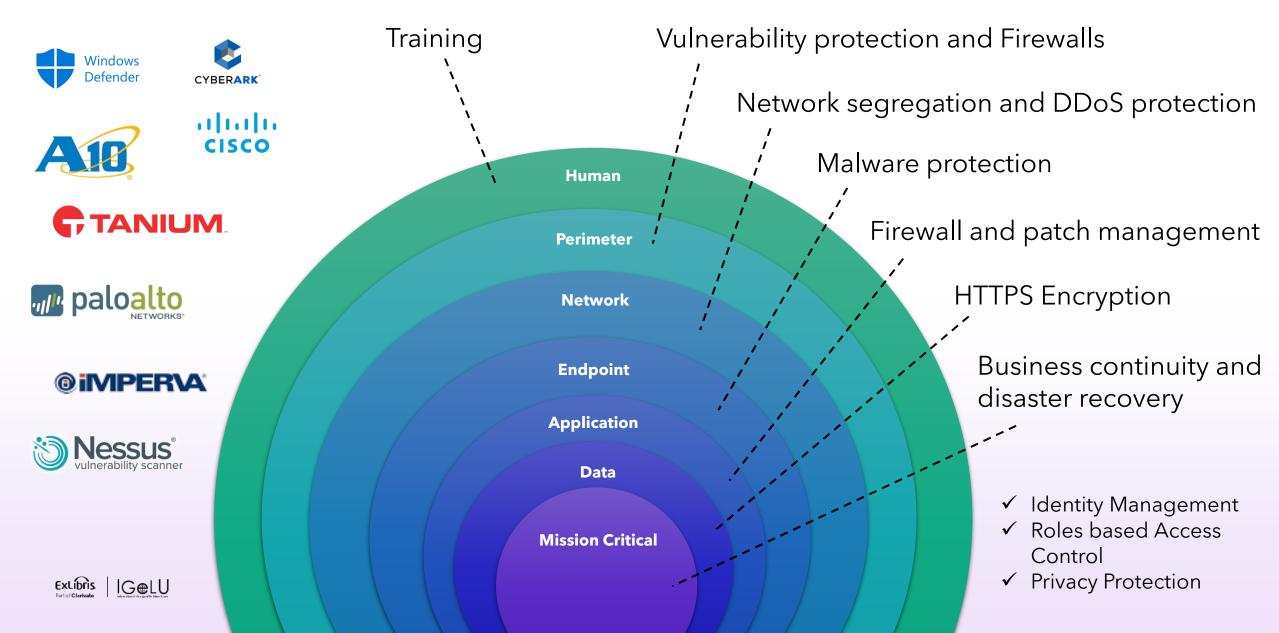
### **Best-in-class security and privacy standards**



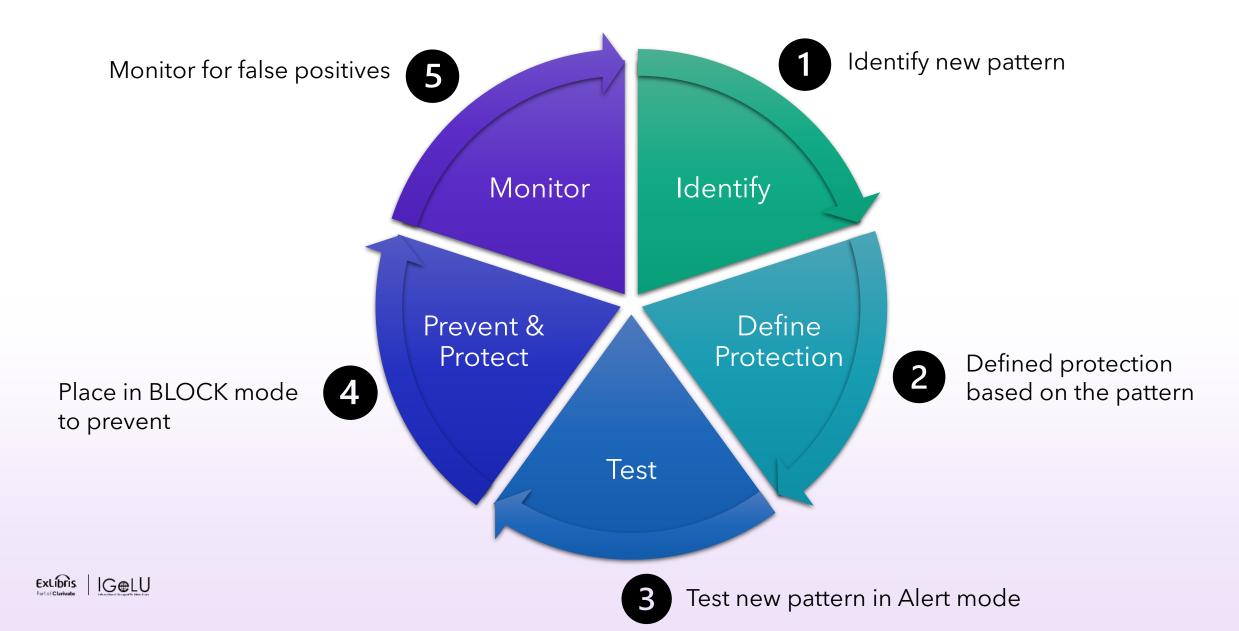




## **Cloud Cybersecurity for all Layers**



### Security Operation throughout the year



### Security and Privacy Incident Management 24x7

- Incident response
- Event management
- Escalation
- Ongoing updates
- Root cause analysis
- Service Disruption Policy
- Uptime reports







# Collaborate and share







## Using the Community Zone

- Content
  - Bibliographic Record
  - Portfolio
  - Collection
  - General Electronic Service
- Rules and Templates
- Import Profiles
- Publishing Profiles

<b>Data.</b> (995	41000000102969)
Record	(🕫 08 👰 95 MARC21 Bib Community Record
LDR	01448ngm#a22003731i#4500
001	99541000000102969
005	20210607122642.8
006	m    o  c

Electronic Collection Editor	Contribute to Community	Cancel
Electronic Collection Description General Additional Notes Group Settings History CDI	-	
Summary and Inventory Information		~
Type Database		
Interface name		

Name*	Add	245 h (video)		
Description:		Add 245 h (video) when pos 6 of LDR is g		
Contact name		Stein, Adam		
Contact email Ad		Adam.Stein@exlibrisgroup.com		





## Using the Community Zone

- Content
  - Bibliographic Record
  - Portfolio
  - Collection
  - General Electronic Service
- Rules and Templates
- Import Profiles
- Publishing Profiles

D	ata. (995	541000000102969)	<	Electronic Collection Editor	ribute to Community	Cancel
				Electronic Collection Description General Additional Notes Group Settings History CDI		
2	Record	(ℤ) 08 95 MARC21 Bib Community Record		Summary and inventory Information		~
				Type Database		
	LDR	01448ngm#a22003731i#4500		Interface name		
	001	99541000000102969				
	005	20210607122642.8				
	006	m    o  c				

Rule sharing			Import Profiles					Monit	or Imports
3			1 - 18 of 18 Profile na	ame		٩		O Add Ne	w Profile
ie*	Add 245 h (video)		▼ Profile type : All ▼						
	Add 245 h (video) when pos 6 of		ID	S	al Profile name 🔺	Profile description \$	Profile Type 💲	Contributed by \$	
escription:	LDR is g		1 88284800000521	I.,	Bibliographic Records with Mixed Print a	Bibliographic Records with Mixed Print a	Repository		
ontact name	Stein, Adam		2 95011234000052	1 A.	Botany 101 - CT	test for CT training import	Digital		Edit View
ontact email	Adam.Stein@exlibrisgroup.com	Ť	3 94946733000052	1 A.	CLS_D_SPACE		Digital		Job His
			4 94937835000052	1 A.	Dublin Core Example - CLS		Digital		Copy Contribu
Ok	Cancel		5 30786370000541	Α.	Load Bib Records - MARCXML - import when	Load Bib Records only	Repository		Delete



### The Open ILL Network



**2023 Annual Statistics** 



# **Open ILL Network**



### Interoperability

Advocate for standards based, open and extensible approaches to ILL interoperability

> Example: ILL system to ILL system



### Integration

- Combining systems to function as a unified whole
- Support integration approaches

Example: ILL system with ILS

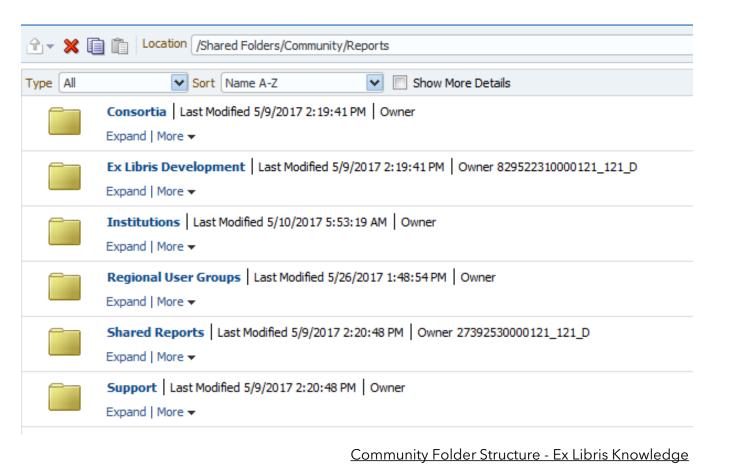


- Do no harm
- Adapt to changing circumstances
- Be responsive and resilient
- Provide reasonable notice



### **Sharing reports**

In Analytics you have a Community folder, which enables institutions to contribute and share reports with one another.





# What's next?

F



## What are we hearing?

There is a **learning curve** for writing Cloud Apps

We need an **easy** way to send SMS's Cloud Apps are great! For **UI integration...** 

Give us tools to schedule scripts

What about Al for developers?



## What do we want to change?

- Lower the technical barrier
- Enable new capabilities (e.g. custom batch jobs)
- Enable better

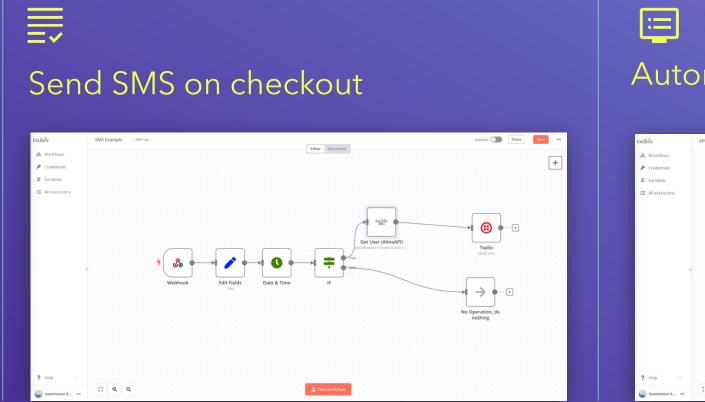
integrations in the

Enterprise ecosystem

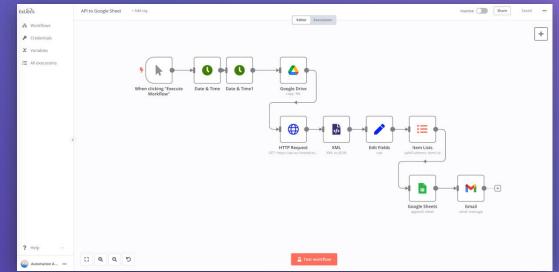
Complex Functionality	
Target!	Complex functionality/ Hard to write/ maintain
Simple functionalty / Easy to write	Skills & Maintenance Effort



### Library Open Workflows - Examples



### Automatic report to Google Sheet

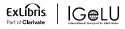




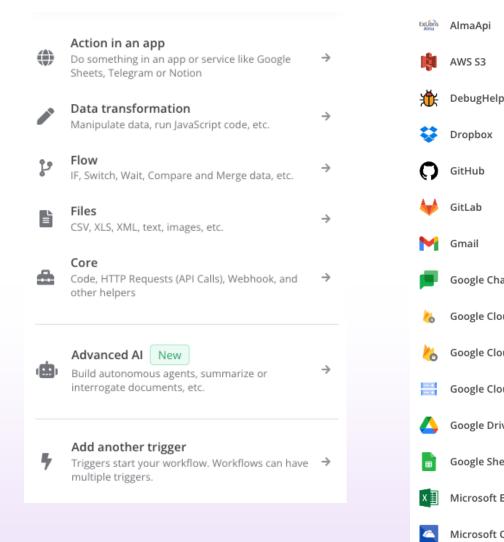
### How will we be able to share workflows?

#### Workflow templates

Categories	Q	
All Categories		
Acquisitions	Workflows (12)	
Resources		
Fulfillment	Automated Web Scraping: email a CSV, save to Google Sheets & Microsoft Excel	📄 💮 🚺 M 🥫
Analytics		
Admin	Update Alma users based on Excel 365 data	
Resource Sharing	5 day ago Ex Libris	×
	Get all Excel workbooks 1 week ago   Ex Libris	×
	Reconcile Rent Payments with Local Excel Spreadsheet and OpenAl 1 month ago   Ex Libris	{} 📾 🖏 <> <>
	Get CSV from URL and convert to Excel 7 months ago   Ex Libris	$\bigoplus$
	Convert SQL table into Excel spreadsheet	E.
	Working with Excel spreadsheet files (xls & xlsx) 1 year ago   Ex Libris	🌐 🛆 🔄 📰
	Insert Excel data to Postgres 4 years ago   Ex Libris	<b>G</b> P



### Very large number of included integrations

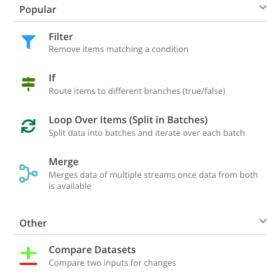


AlmaApi	$\rightarrow$		Microsoft OneDrive	⇒	
AWS S3	÷	0	Microsoft Outlook	⇒	
DebugHelper		×	Microsoft SQL	→	
Dropbox	÷	Ţ	Microsoft Teams	÷	
GitHub	÷	۲	MongoDB	÷	
GitLab	÷	E.	MySQL	$\rightarrow$	
Gmail	÷	ф	Postgres	→	
Google Chat	÷	۳	RSS Read		
Google Cloud Firestore	÷		S3	→	
Google Cloud Realtime Database	÷		Send Email		
Google Cloud Storage	÷	V	seven	→	
Google Drive	÷	ų.	Slack	⇒	
Google Sheets	÷	*	Snowflake	⇒	
Microsoft Excel 365	÷		Sticky Note		
Microsoft OneDrive	÷	@	Twilio	÷	

ExLibris. IGeLU

### All the actions you need

Popular



- Execute Workflow
- ➡ Helpers for calling other n8n workflows. Used for → designing modular, microservice-like workflows.
- Stop and Error Throw an error in the workflow
- Switch Route items depending on defined expression or rules
- Wait
   Wait before continue with execution
- Workflow Triggers based on various lifecycle events, like when a workflow is activated

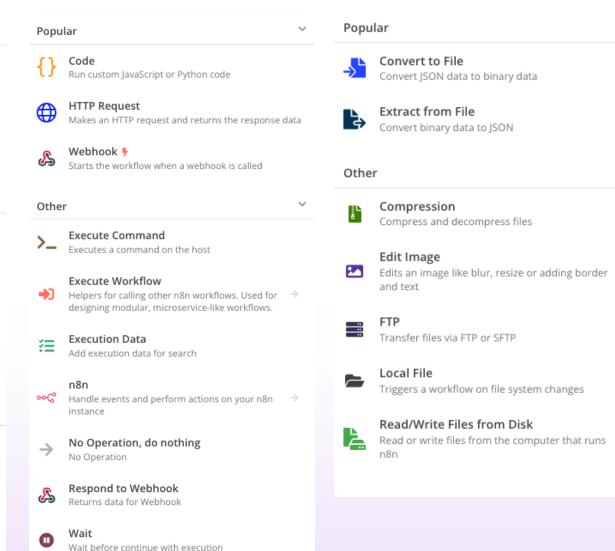
{} Code
Run custom JavaScript or Python code

 $\sim$ 

 $\sim$ 

 $\sim$ 

- Date & Time
   Manipulate date and time values
- C Edit Fields (Set) Modify, add, or remove item fields
- Add or remove items
- Filter Remove items matching a condition
- Limit Restrict the number of items
- Remove Duplicates
  Delete items with matching field values
- **Split Out** Turn a list inside item(s) into separate items
- Combine items
- Combine a field from many items into a list in a single item
  - Merge
     Merges data of multiple streams once data from both is available
  - Summarize



 $\sim$ 

 $\sim$ 

 $\rightarrow$ 

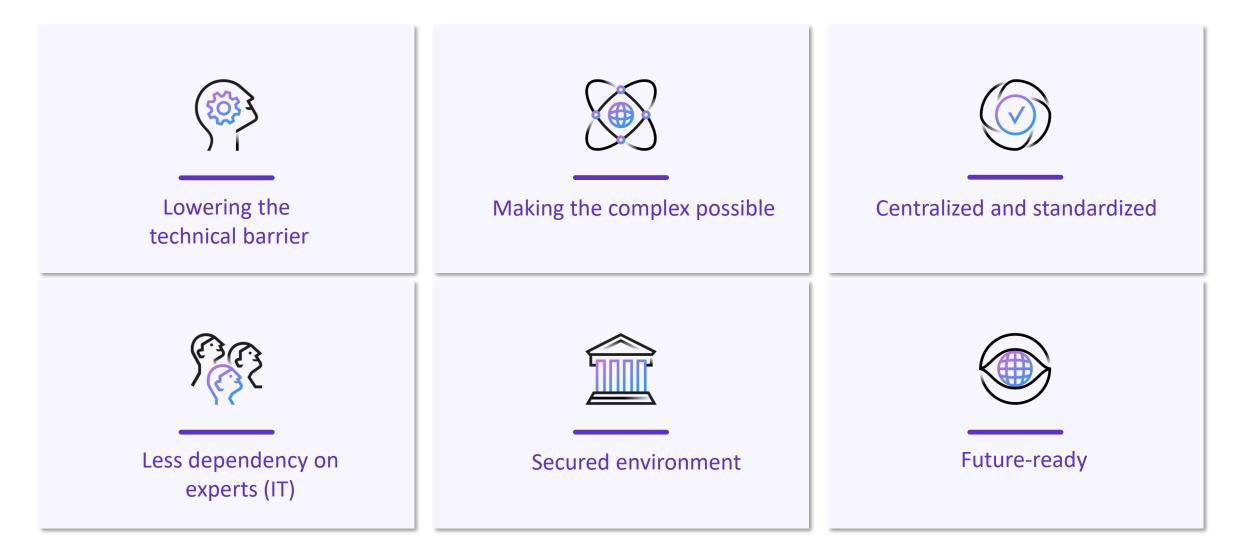
ExLibris.

### **Open Workflows - Timeline**





### Why choose Library Open Workflows?





### Library Open Platform

### **Takeaways**

Community is driving the openness

It must be an open and secured platform



Boost productivity by using open workflows



# **Your Voice Matters!**

## Register now for our Voice of Customer survey launching October 22<sup>nd</sup>



Don't miss your chance to win a prize at IGeLU 2024 by registering for our survey!



