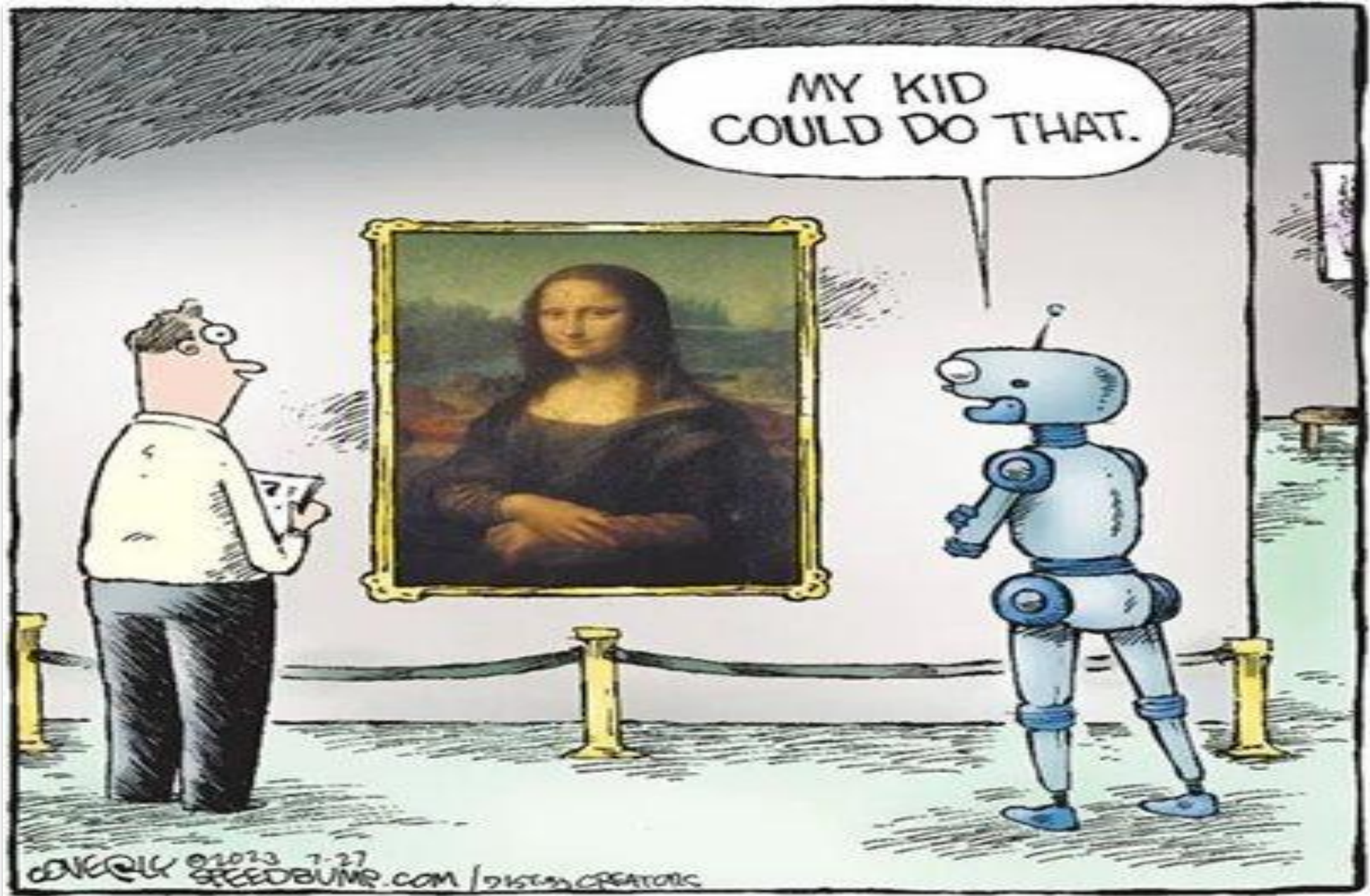




The Impact of AI on Academic Libraries

Think forward

Ezer Alshech - Senior Director, Clarivate



AI is impacting every aspect of our lives and libraries are no exception



The Challenges Facing the Library Industry

Digital Preservation & Subscription Strategy

Request for transparency and clear communication.

Concerns about content permanence, especially under new subscription models.

Sustainable digital preservation plans.

AI Literacy & Ethical Integration

AI is transforming library services.

Need for industry-wide support in building AI literacy, ethical frameworks, and tools that save time without compromising research integrity.

Operational & Budget Challenges

Budget constraints are impacting libraries.

Workflow efficiencies, streamlining services and value-for-money are priorities.

Business case for any change is essential

Collaboration & Strategic Advocacy

Libraries seek stronger partnerships with vendors and peers to advocate for research, defend against political pressures, and elevate the strategic role of the library.

With Change, Comes Responsibility



Challenge # 1: How to maintain & sustain academic integrity and trust?



Challenge # 2: How to align responsible AI with academic freedom?



Our Approach: Informed and guided by the global community

Surveys | Research | Beta programs | Development Partnerships | AI Advisory Councils | Customer Advisory Boards | Collaboration with Publishers and Standard Organizations | Open Education Programs

We Leverage the Power of our Global Communities to Learn

User Groups

94

Countries worldwide

7,517

Institutions

81

National libraries

1,807

Resource Sharing institutions

Ideas Exchange

2,892

Alma institutions

3,704

Discovery institutions

9,965

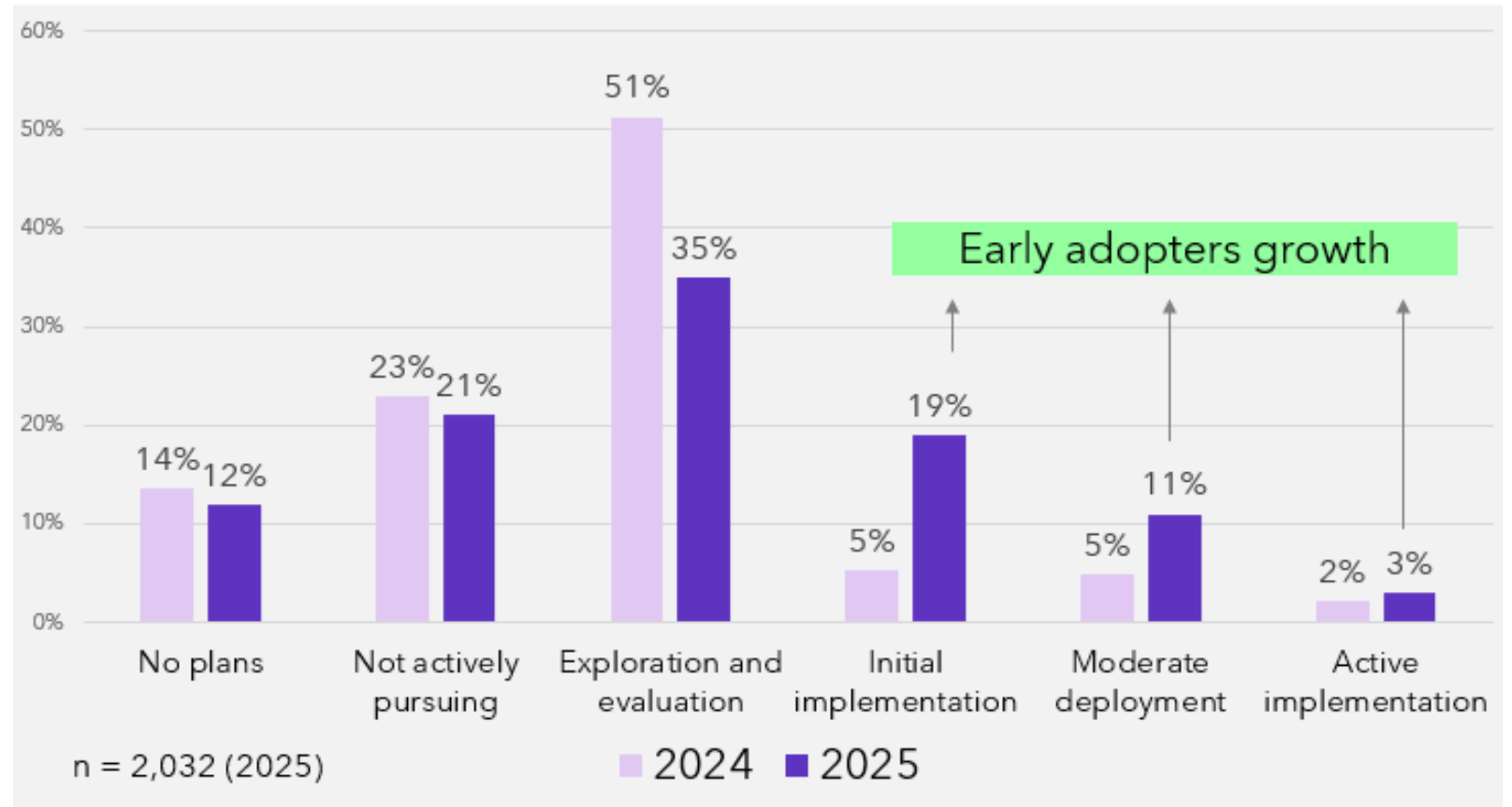
Library user group members

Dev Partners



Where does your library currently stand in terms of implementing AI tools and technologies?

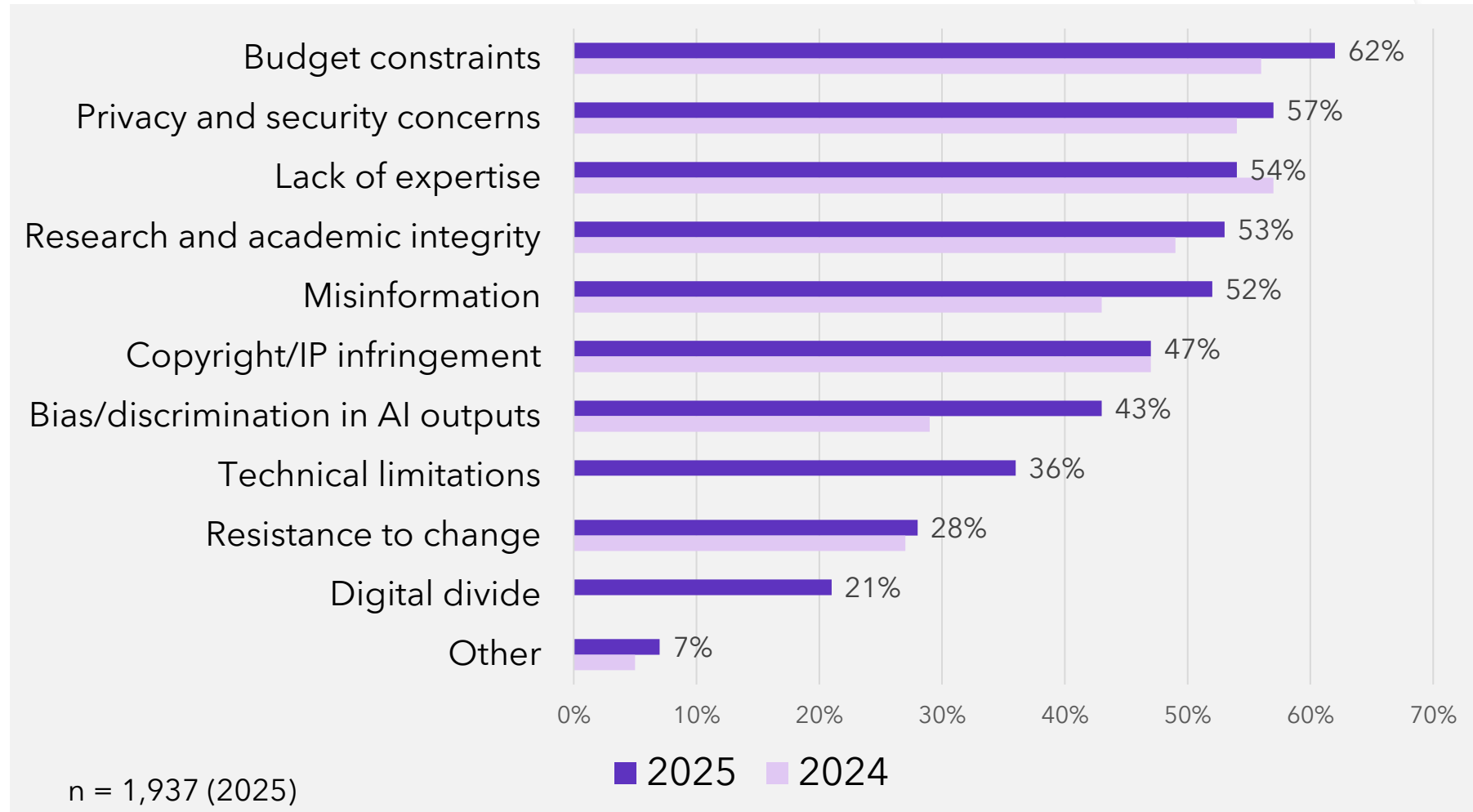
- Majority of libraries are still exploring and evaluating
- Notable acceleration in libraries moving to implement AI
- US libraries appear to be lagging behind in terms of AI adoption and confidence



What are the primary concerns your library faces in adopting or scaling AI technologies?

TOP CONCERNS:

- Budget constraints
- Privacy and security
- Lack of expertise
- Academic integrity



Librarians' perceptions about AI impact on staff roles, skills and professional development

56%

AI will necessitate significant upskilling and reskilling

56%

The AI literacy gap: Staff learn independently with no structured support

49%

AI will enable staff to focus on strategic & creative tasks by automating routine work

53%

Have no plans at this time to change staffing or roles in response to AI

26%

AI will lead to the creation of new job roles and specializations within the library

39%

AI may lead to concerns about job displacement

[Particularly noted by U.S. & UK respondents]

A future Created by AI and Humans

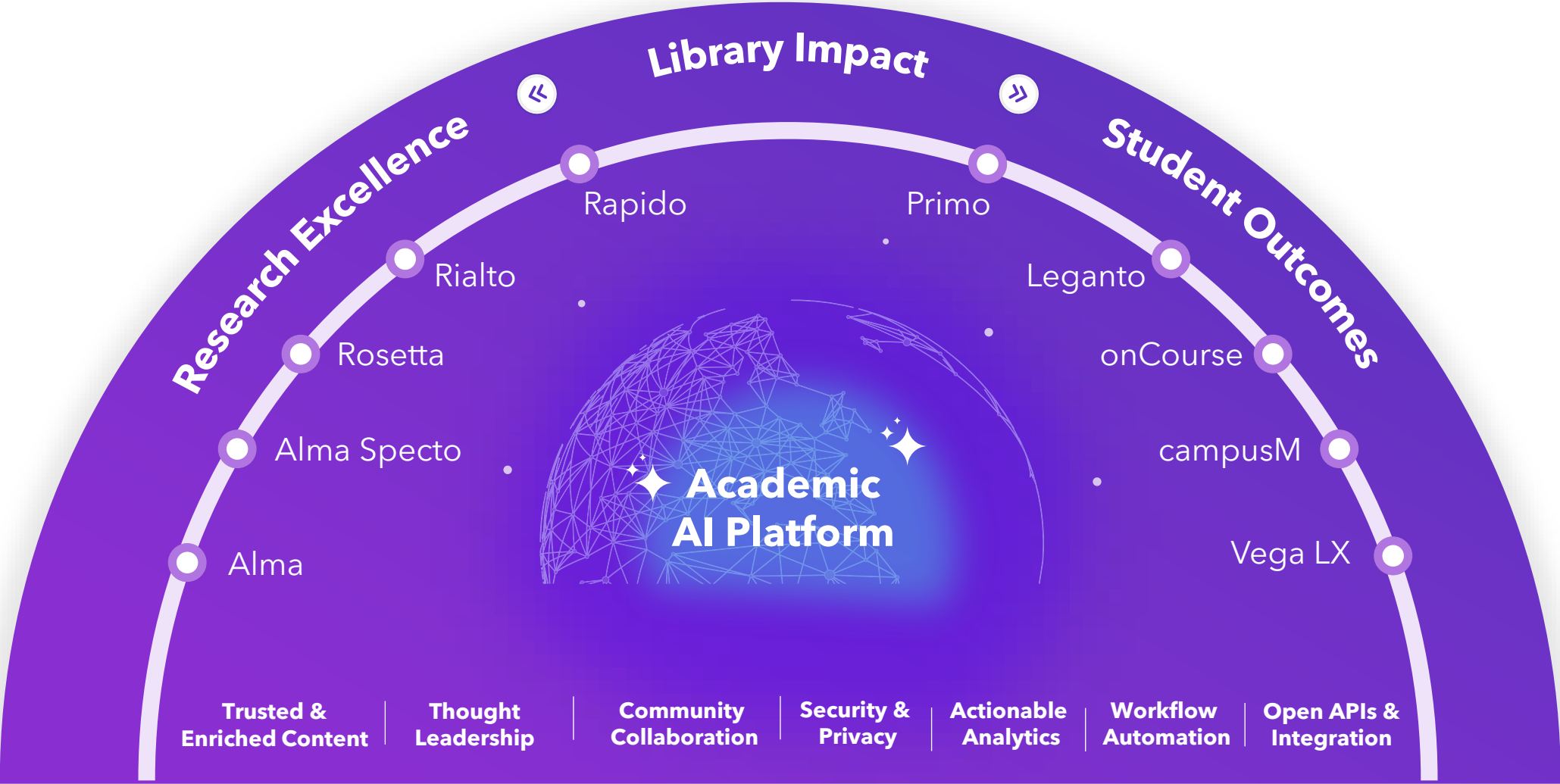
A Future Created by AI and Humans
— **Demanding a Shift from
Competition to Collaboration**



KUROHASHI, Sadao

Director-General, National Institute of Informatics
Inter-University Research Institute Corporation
Research Organization of Information and Systems

The Result: Our Unified Ecosystem for Academic Libraries



The next wave of Academic AI

Agentic AI

Wave 3

Agentic AI

- Reasoning & Planning
- Goal-based action
- Synthesizing multiple sources
- Automating multi-step processes

Example: Literature review

Wave 2

Generative AI

- AI Assistants
- Contextualized knowledge
- Guided workflows

Example: Research Assistants

Wave 1

AI/Machine Learning

- Task automation
- Personalized recommendations

Example: Citation extraction

2021

2025

So What Does The Future Looks Like? Agentic AI Agents in Action

Knowledge and Support Agent

Handles queries regarding documentation and Knowledge, connection to support. Agent/chat.

Metadata Agent

Handles cataloging requests, MARC records, and bibliographic data management.

Selection Agent

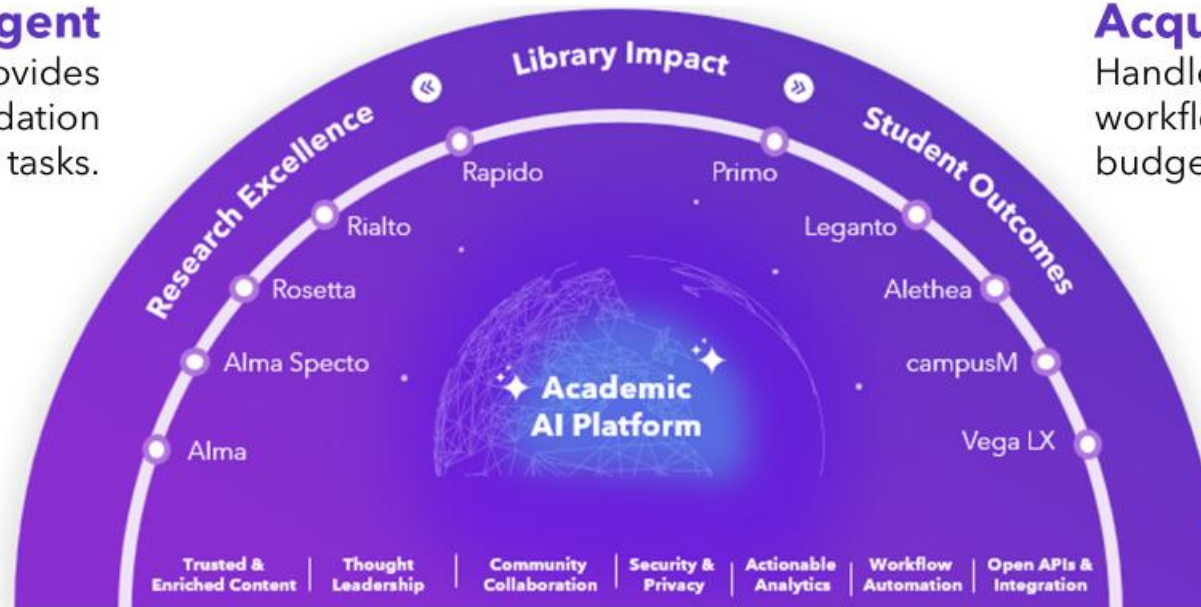
Handles queries, provides intelligent recommendation and marketplace related tasks.

Acquisitions Agent

Handles purchasing and invoicing workflows, vendor management, and budget related tasks.

Resource Management Agent

Handles electronic and physical resources queries and related inventory tasks.



Fulfillment Agent

Handles circulation, patron requests, and resource delivery processes. Supports automated communication with end users.

Primo NDE Resource Assistant Agent

Handles *patron* research needs and personal library services. Guides patrons through discovery, from finding and accessing resources to managing requests and account activities.

AI Assistants

- Enables staff to ask **natural language questions**
- Provides answers based on library's data
- Will offer relevant actions

The screenshot displays the Alma library system interface. The main content area shows a list of funds and ledgers, with the following entries:

Item	Code	Type	Status	Fiscal Period	Path	Allocated Balance	Expended Balance	Cash Balance	Encumbered Balance	Available Balance
1	FHCL*Deland, Theodora+Rawle+Phyllis+Wilbur Levin Fund for Dramatic Arts in the HCL (2001)	Allocated fund	Active	FY-2026	FHCL*Havy Coll Library-Ledger>FHCL*Houghton - Parent Summary>FHCL*Houghton - Theatre Collection - Child Summary (org)	1,525.50 USD	0.00 USD	1,525.50 USD	0.00 USD	1,525.50 USD
2	FHCL*Houghton Lib - Special Purposes	Allocated fund	Active	FY-2026	FHCL*Havy Coll Library-Ledger>FHCL*Houghton - Parent Summary>FHCL*Houghton - Modern Books+ MSS - Child Summary (org)	0.00 USD	0.00 USD	0.00 USD	0.00 USD	0.00 USD
3	GSD*Vischi-Vignolo Fund to Support the GSD Landscape Library (2013) FLL (SERIALS)	Allocated fund	Active	FY-2026	GSD*Grad School of Design-Ledger>GSD*Library - Parent Summary>GSD*Library-Child Summary (org)	7,000.00 USD	110.97 USD	6,889.03 USD	4,831.66 USD	2,057.37 USD
4	HMS*Talbot, Dr John H Book Fund 1981	Allocated fund	Active			5,000.00 USD	0.00 USD	5,000.00 USD		

The interface also features a sidebar with navigation options like Alma QA, Collection Development, Acquisitions, Resources, Discovery, Fulfillment, Admin, and Analytics. The top navigation bar includes tabs for Monitor Jobs, Browse Shelf Listing, Publishing Profiles (Resources), Manage Users, Design Analytics, Purge User Records, Customer Parameters, Publishing Information, and Manage Sets. The bottom of the screen shows a Windows taskbar with the search bar and system tray.

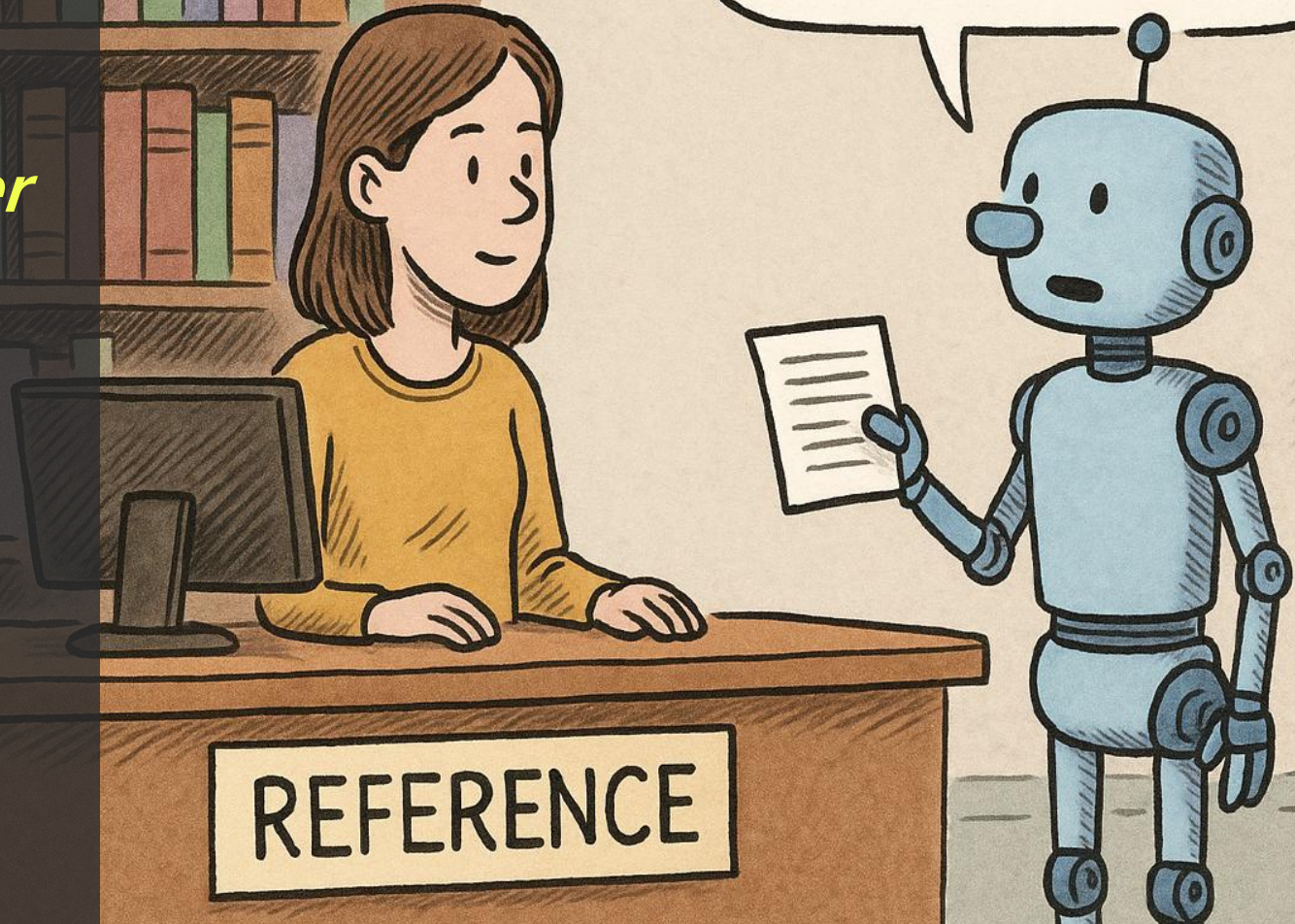
DM

Dana Moshkovits

"Regardless of AI, the most critical tool for a librarian is our mind. I think AI is just another tool and I think that's an important one too. It's not replacing us."

John Sandstrom

Head of Acquisitions,
New Mexico State University





Nexus Academic Assistant

Your library's content and services, wherever users are

January 2026

The research landscape is evolving **students** & researchers are leading the change

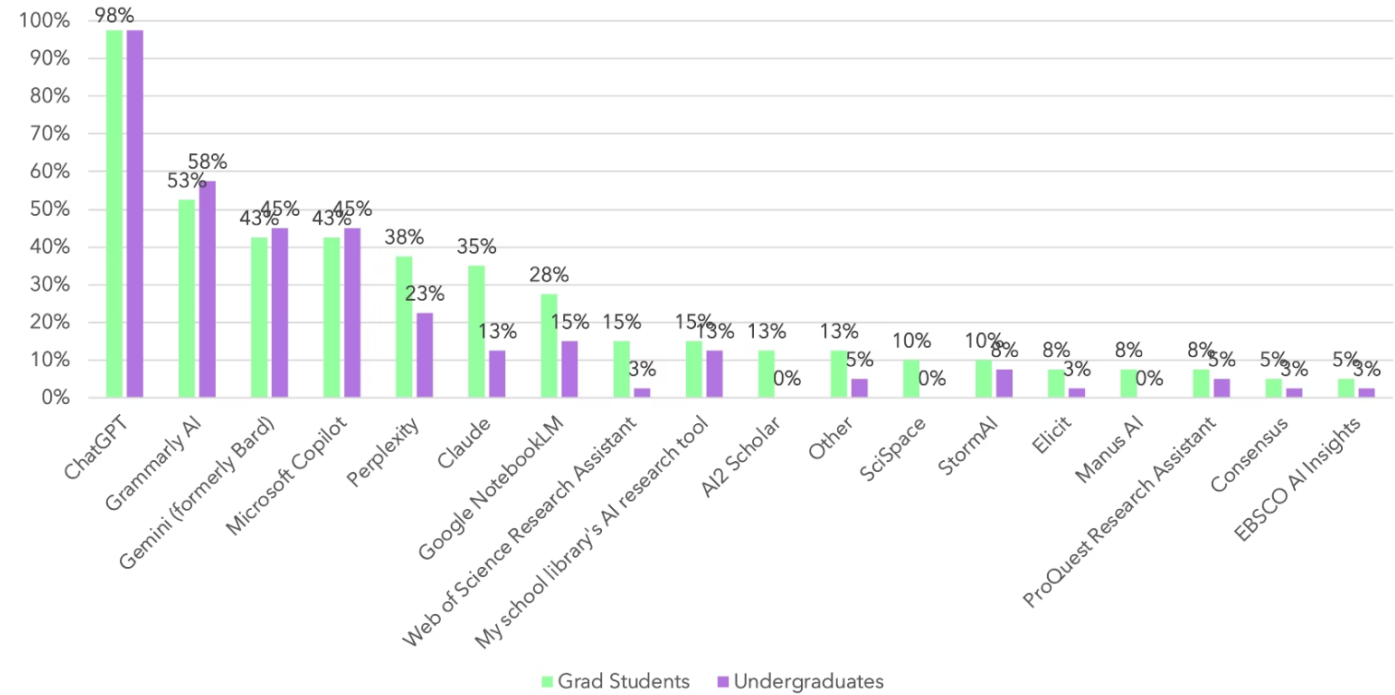


The proportion of students reporting using any AI tool has jumped from 66% in 2024 year to 92% in 2025.

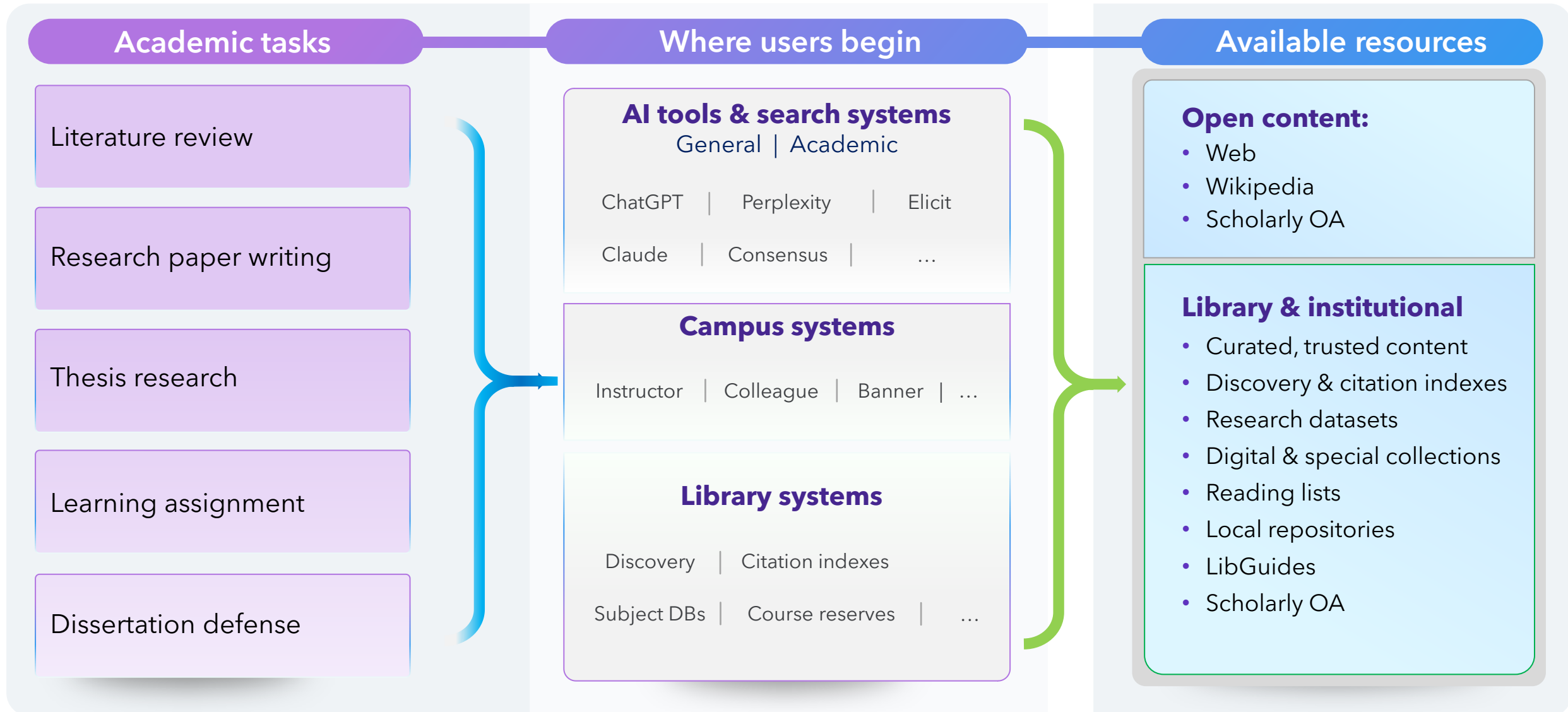
HEPI Student Generative AI Survey 2025 - Freeman, Josh (February 2025)

What AI tools do you use for academic tasks?

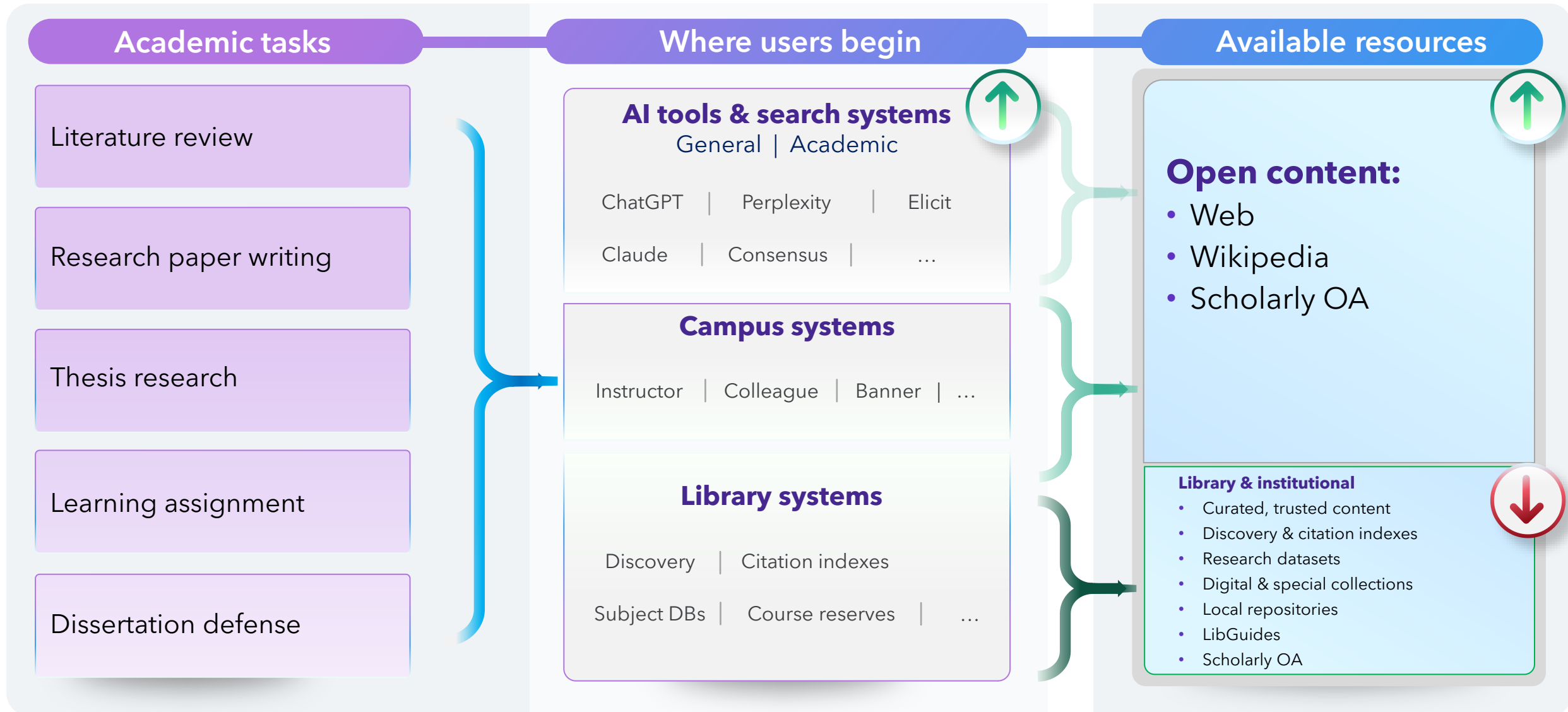
23% of users surveyed have used Agentic AI tools.



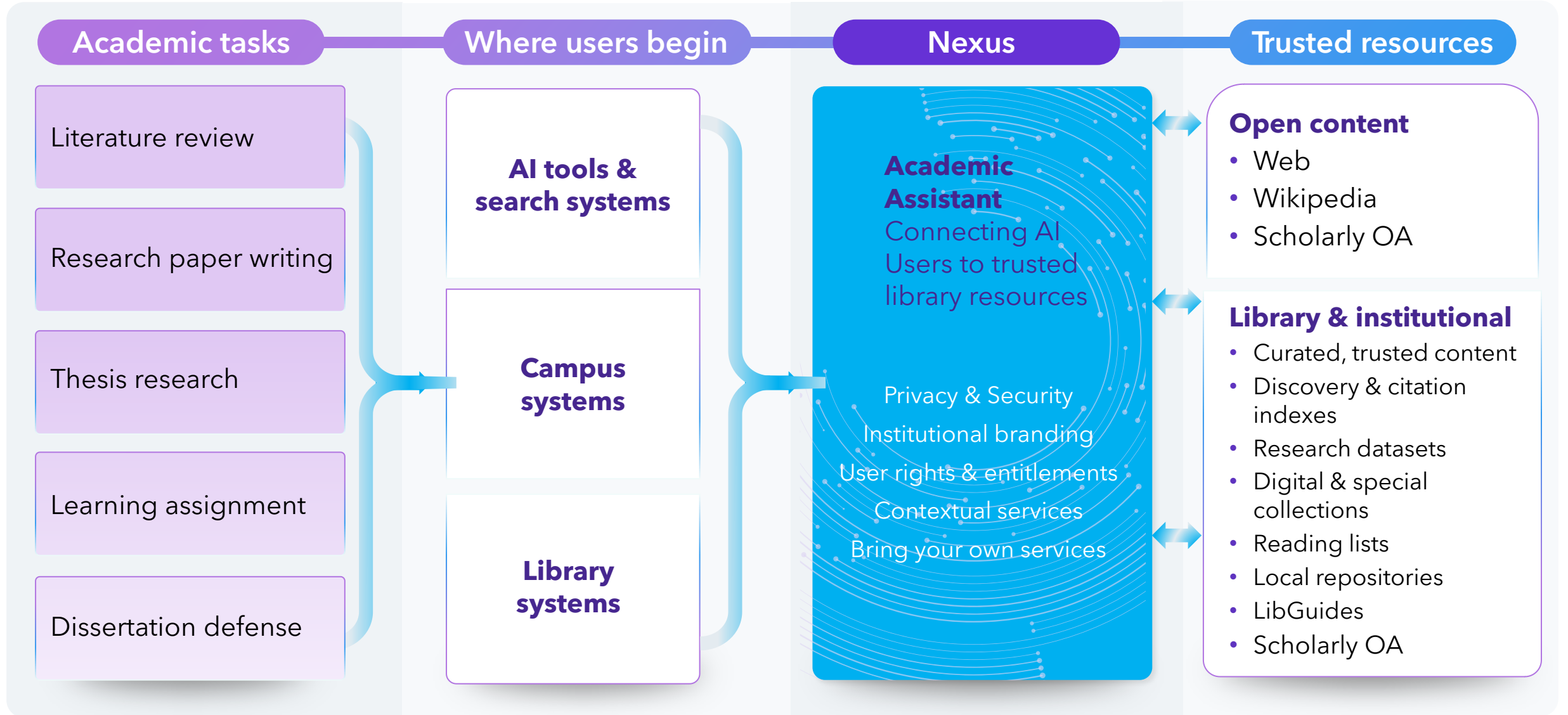
A user's journey: From academic tasks to trusted resources *(in an ideal world...)*



A user's journey: From academic tasks to trusted resources *(in reality...)*



From academic tasks to trusted resources





How can I help you today?

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What are the ethical implications of Large Language Models (LLMs) in personalized learning environments?

How can AI transform personalized learning?

Privacy concerns with educational AI

How does bias affect AI in education?

U What are the ethical implications of Large Language Models (LLMs) in personalized learning environments?

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Large language models in education: A comprehensive meta-analysis
 Chen, X., & Rodriguez, M. (2024)

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Artificial Intelligence and Education: Policy Guidelines ⚠

UNESCO (2024)

REPORT

Not peer-reviewed

Academic integrity challenges in the age of generative AI ✔

Brown, M., Davis, J., Thompson, E., et al. (2024)



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Why these sources: Based on your conversation about AI and ethics in education—peer-reviewed research on LLM implementation, ethical considerations, and pedagogical approaches.

#1 Ethical Considerations in the Use of Large Language Models for Academic Writing

Anderson, K., Chen, M., & Williams, R.

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147 citations

68 references

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Journal of Academic Ethics (2024)

[Available](#) • Directly addresses ethical concerns about AI in education...

#2 Generative AI and the Future of Higher Education: Opportunities and Challenges

Martinez, L., Thompson, J., & Kim, S.

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112 references

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Educational Technology & Society (2024)

[Available](#) • Provides broader context for your discussion on AI in education...

#3 Privacy-Preserving Machine Learning in Educational Technology: A Systematic Review

Zhang, Y., O'Brien, P., & Patel, N.

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Computers & Education (2024)

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- User research
- Finalize first launch scope
- Main flow prototypes
- Recruit dev partners
- Finalize product name
- Architecture & technology

Onboard development partners for Nexus tracks, initiating pilot collaborations

- Development partners iterations

- Development partner release
- + General release





Questions?