



GenAI at Clarivate: From research to applications

IGeLU 2024

Guy Ben Porat, VP of Academic AI

The

honeymoon

is over

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

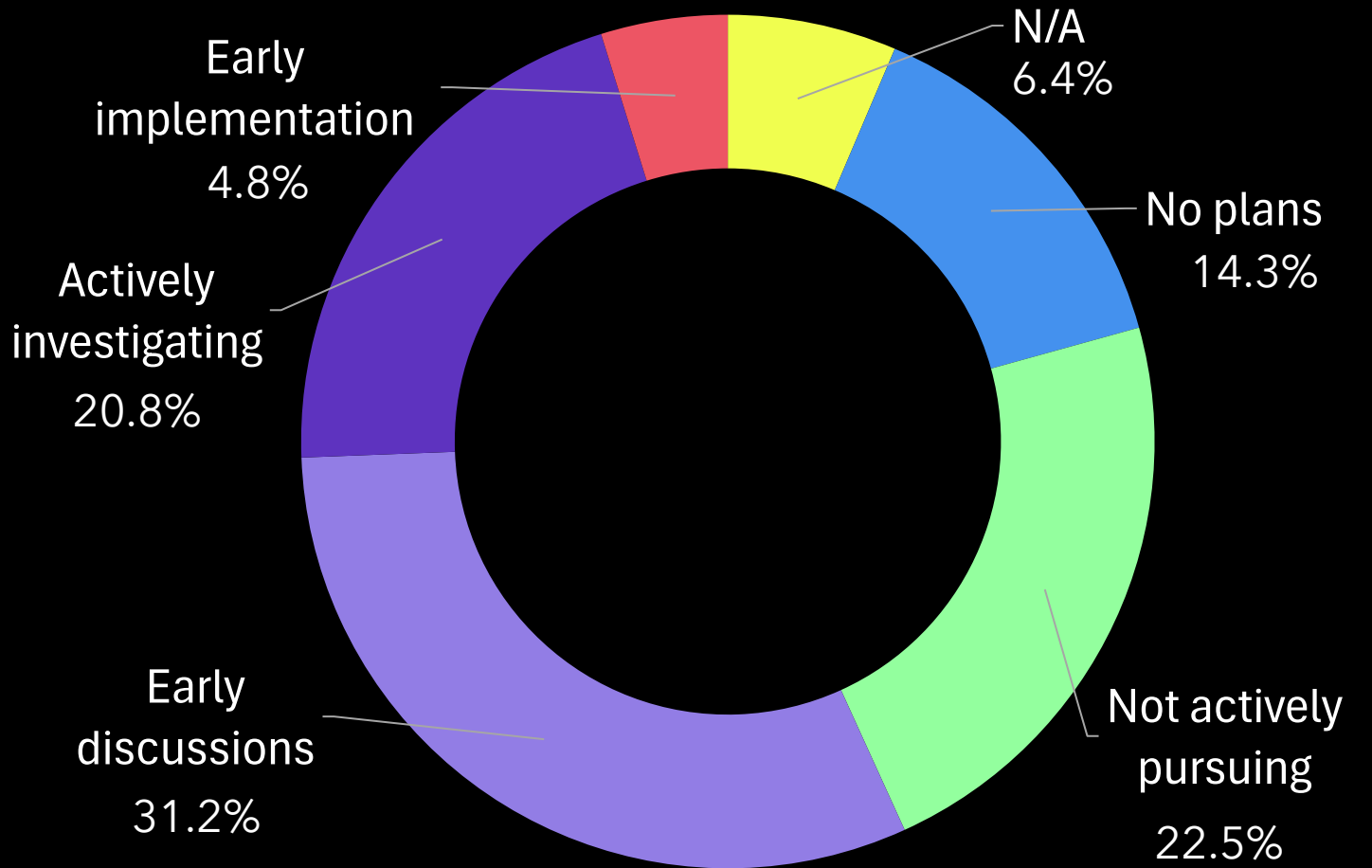
Clarivate Library Survey,
1,500+ respondents

Survey:

- Academic (75%), Public and National Libraries
- 20+ qualitative interviews

Visit:

clarivate.com/pulse-of-the-library



In which area of library services do you see AI having the most significant impact?

Clarivate Library Survey, 1,500+ respondents

Visit: clarivate.com/pulse-of-the-library



Supporting institutional student success initiatives
11.4%

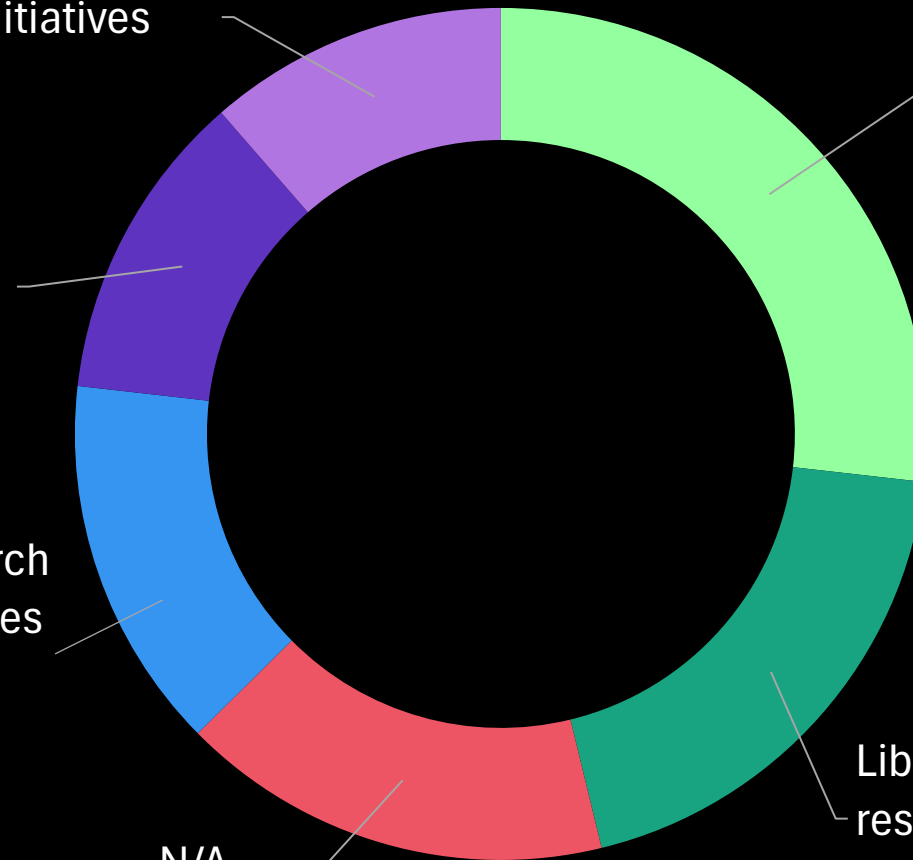
Cataloging and metadata
11.8%

Supporting institutional research excellence initiatives
14.2%

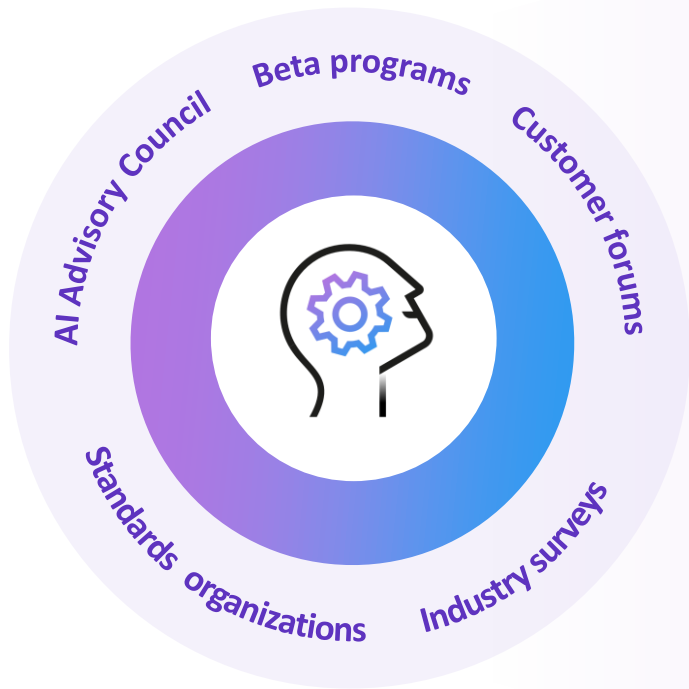
N/A
16.4%

Library content and resource accessibility
19.4%

Content discovery
26.8%



Responsible AI principles, informed by the academic community



Opportunities:

- Content discovery
- Insights from data
- Personalized learning
- Staff productivity

Concerns:

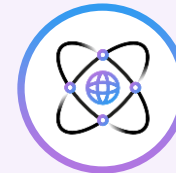
- Bias & hallucinations
- Learning shortcuts
- Bad actors (e.g. papermills)
- Plagiarism

AI Framework



Transparent

- Clear information about the content sources used
- Proper attribution and easy access to cited works



Ethical

- Measures to reduce bad information
- Collaboration with publishers to ensure clear usage rights
- Collaboration with industry org. for responsible AI implementations



Safe

- Human-in-the-loop
- Uphold privacy & security standards
- Adherence to evolving global regulations

Clarivate AI Advisory Council

Collaborating to promote responsible use of AI in academia

Launched May 2024
Members representing
libraries and wider academia



Aaron Tay

Head, Data Services
Singapore Management University



Allen Jones

Director of Digital Libraries & Technical Services
The New School



Andrea Brandstatter

Head,
Universitätsbibliothek
Bibliothekssysteme
University of Vienna



Andreas Kirstein

CEO
Swiss Library Service Platform (SLSP)



Boyhun Kim

AUL for Library Information Technology
University of Michigan



Claire Lanyon

Collection Development and Access Manager
University of Auckland



Foster Zhang

Library Director and Chief Engineer
Hong Kong University of Science & Technology



Josh Sendall

Director of Library Services
University of Leeds



Kristel Veimann

Director of Library Services
National Library of Estonia



Leo Lo

Dean and Professor;
ACRL President-Elect
University of New Mexico



Niamh McGuigan

Director
Center for Library Exploration and Research,
Brown University Library



Ryun Lee

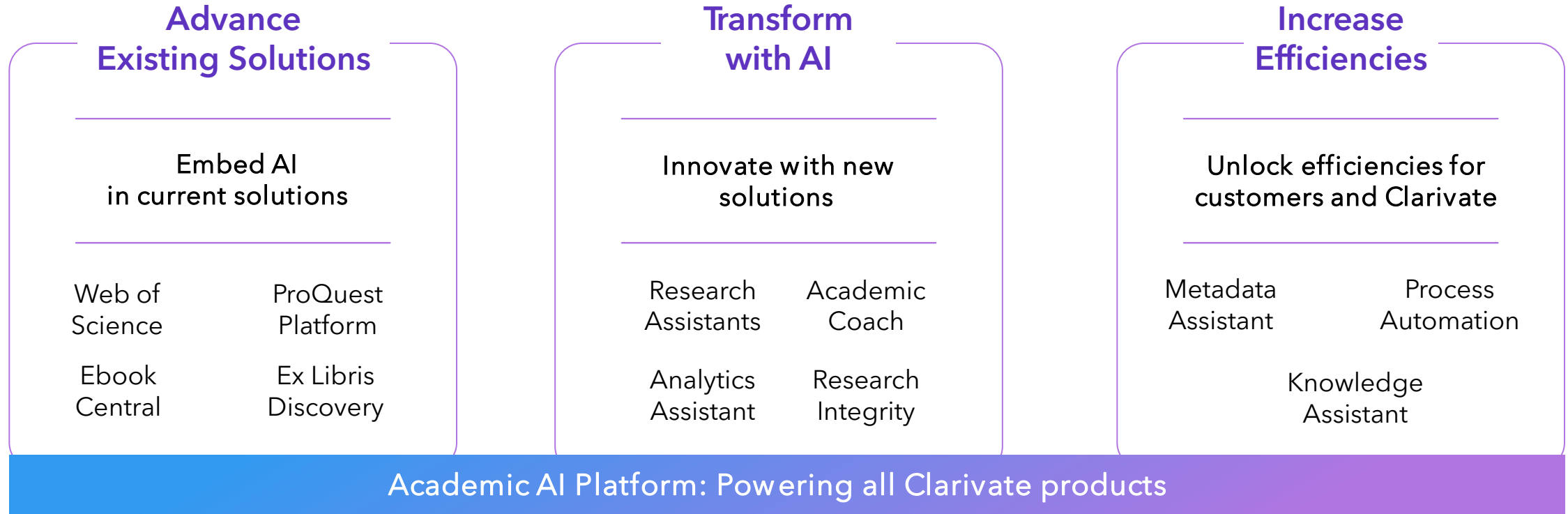
Head, Digital Initiatives
The Chinese University of Hong Kong Library



Samuel Fosso-Wamba

Professor in Information Management and Data Science
TBS Education

Academic AI: Our Strategy & Approach



Uniquely designed for academic needs

Authoritative, trusted scholarly content

Embedded in academic workflows

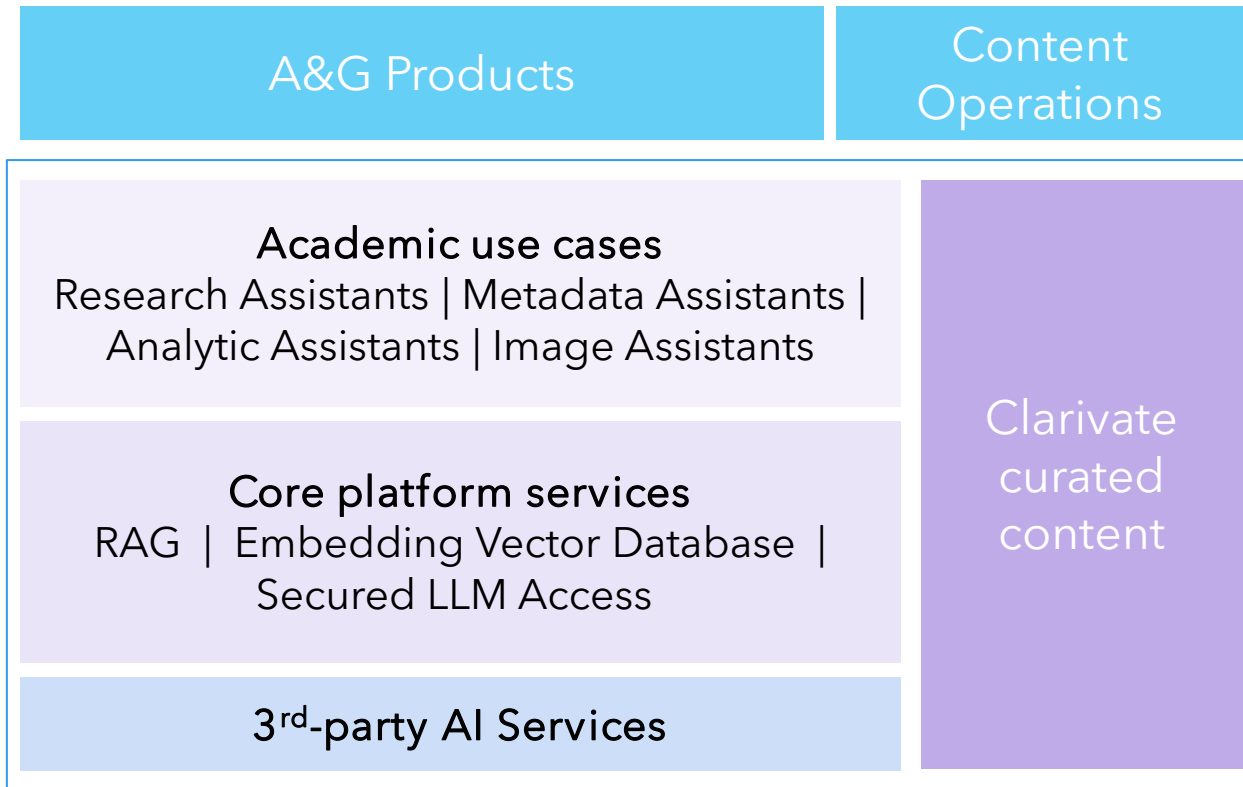
Secured & private

Deep partnerships with academic community

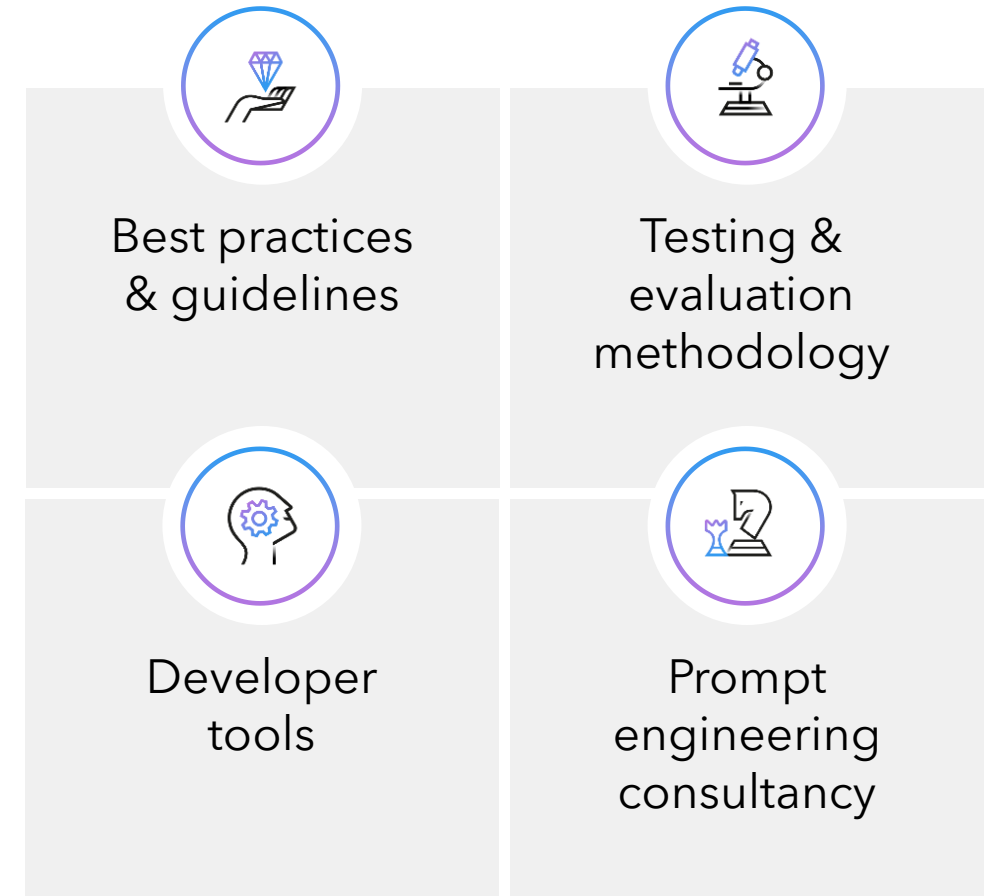
Quality testing for responsible AI

Clarivate Academic AI Platform

Technology Backbone



AI Practices & Expertise



AI Ecosystem



Bring AI into our products

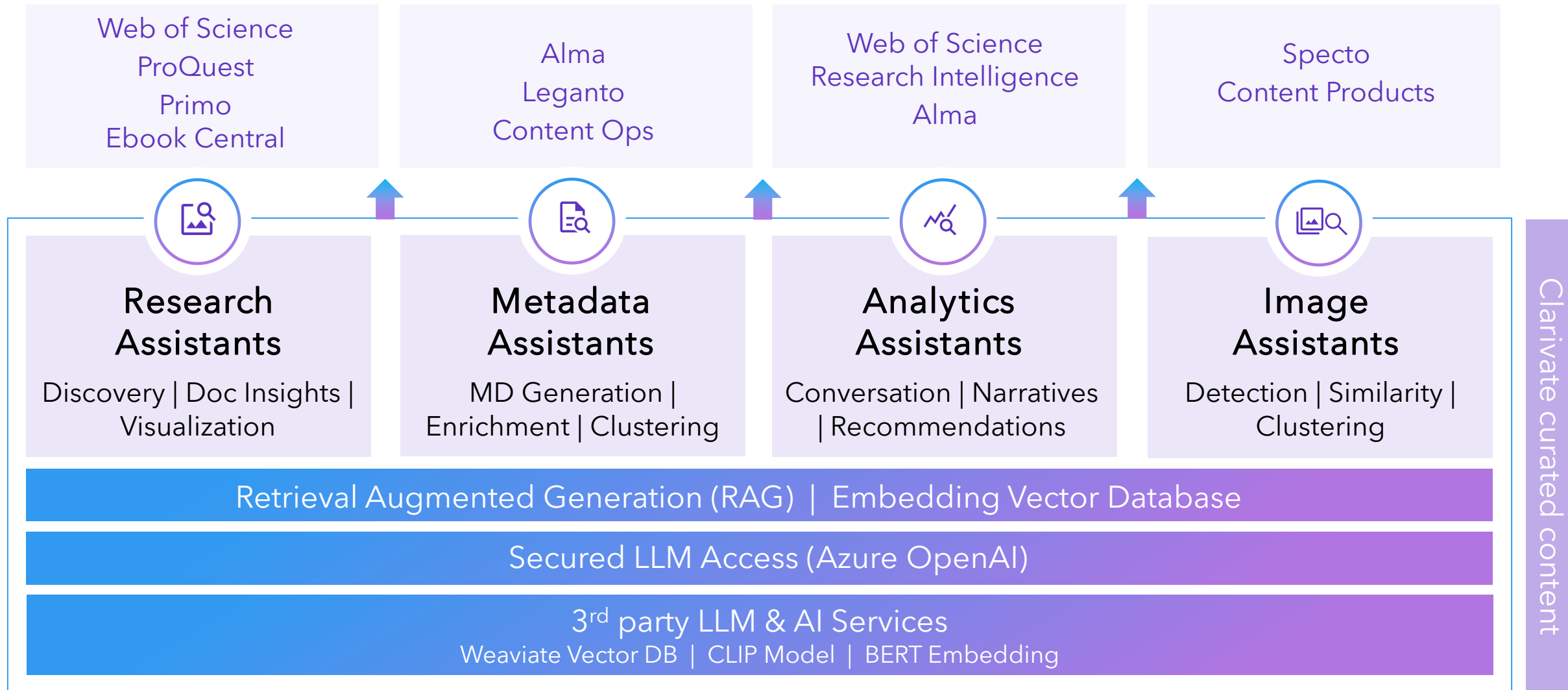


Meeting users
were
they are



Clarivate A&G

The Clarivate Academic AI Platform

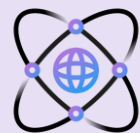


Research Assistant

Discovery Assistant*



Conversational
Discovery



Linked Entities
Visualization



More...

Document Insights*



Summary
Entity Extraction



Predefined
Questions

Users
Questions



More...

Metadata Assistant

Metadata: Books, Journals

Digital Files: Text, Image, Video



Record
Improvement



Record
Enrichment



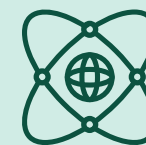
Using Cover
page



Metadata
Generation



Clustering



Conversational
Discovery
Ready
(LLM Vector)

Analytics Assistant

Conversational



Guided data-driven
Conversation



Chart
Generation



Push
Recommendation
(Funds,
Collaborations)



Trend Analysis
(Emerging Topics,
Opportunities)



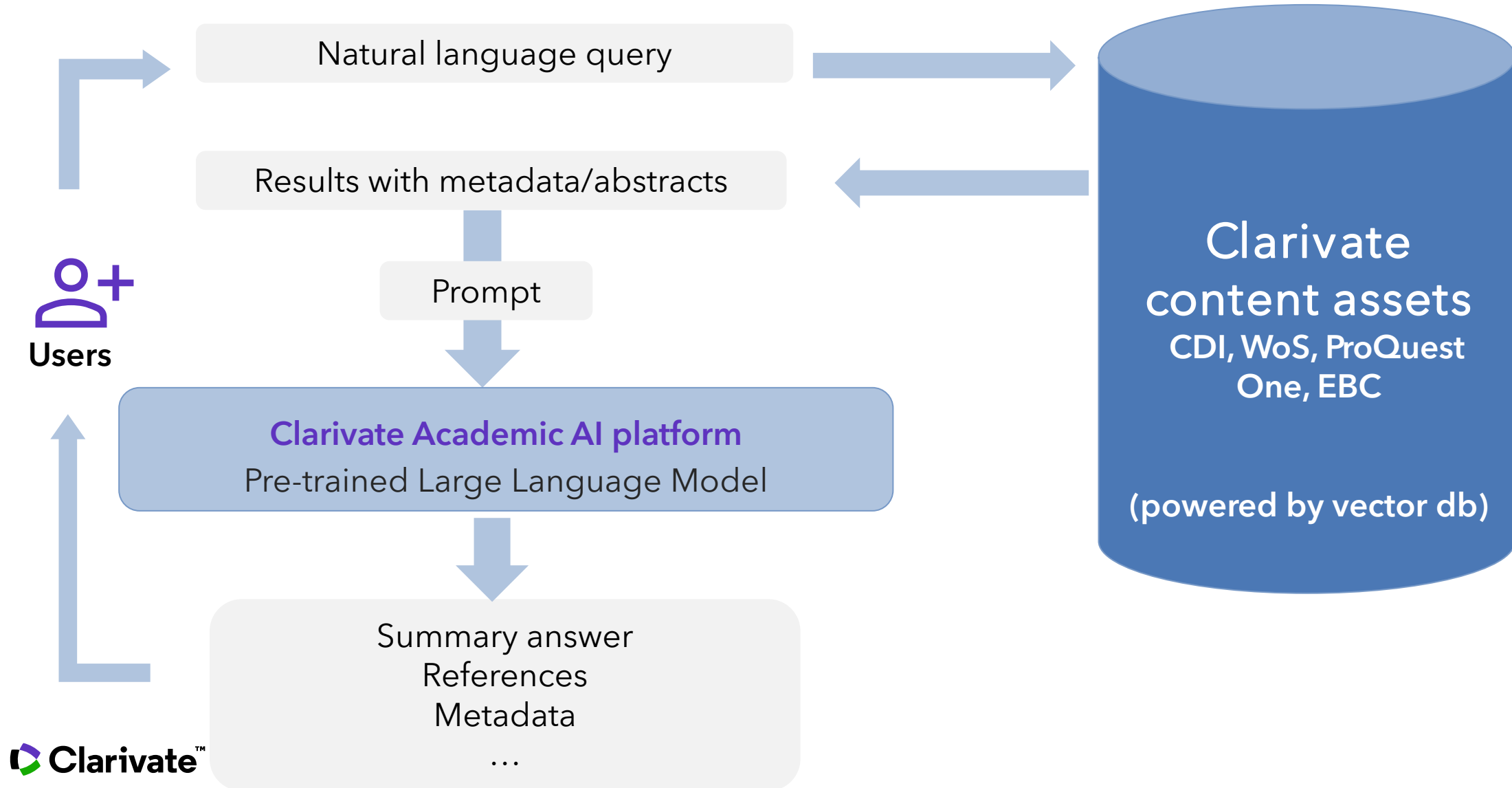
Chart Analysis
Narrative
Generation



Narrative
(Societal
Impact)

Basing output on our trusted content sources:

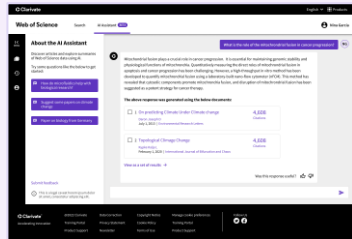
Retrieval Augmented Generation Architecture (RAG):



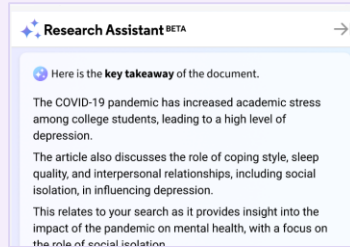
AI for Academia: Our focus areas

Research Assistants

AI-powered research & discovery capabilities



Web of Science
Launch: Sept. 2024



ProQuest
General release
of beta version:
Sept. 2024

Analytics Assistants

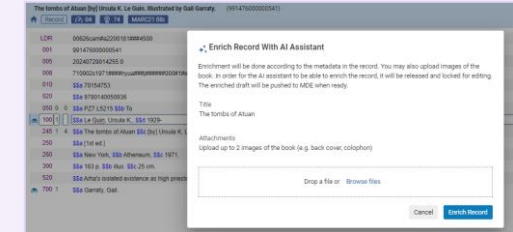
A new way to engage with data and uncover insights



WoS Research Intelligence
First Dev. Partner Release: Sept. 2024

Metadata Assistants

Enhancing efficiencies and improving discoverability



Ebooks in Alma Community Zone
First phase released

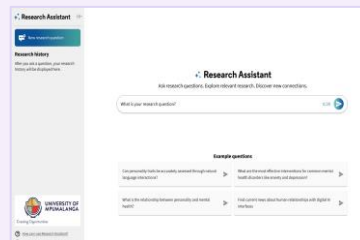
Alma Metadata Assistant
Beta starts Sept. 2024

Academic Coach

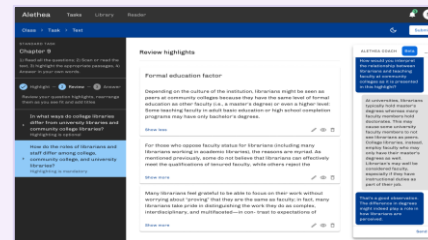
Improving student learning & skills



Ebook Central
Beta starts Q4 '24



Primo
Launch: Sept. 2024



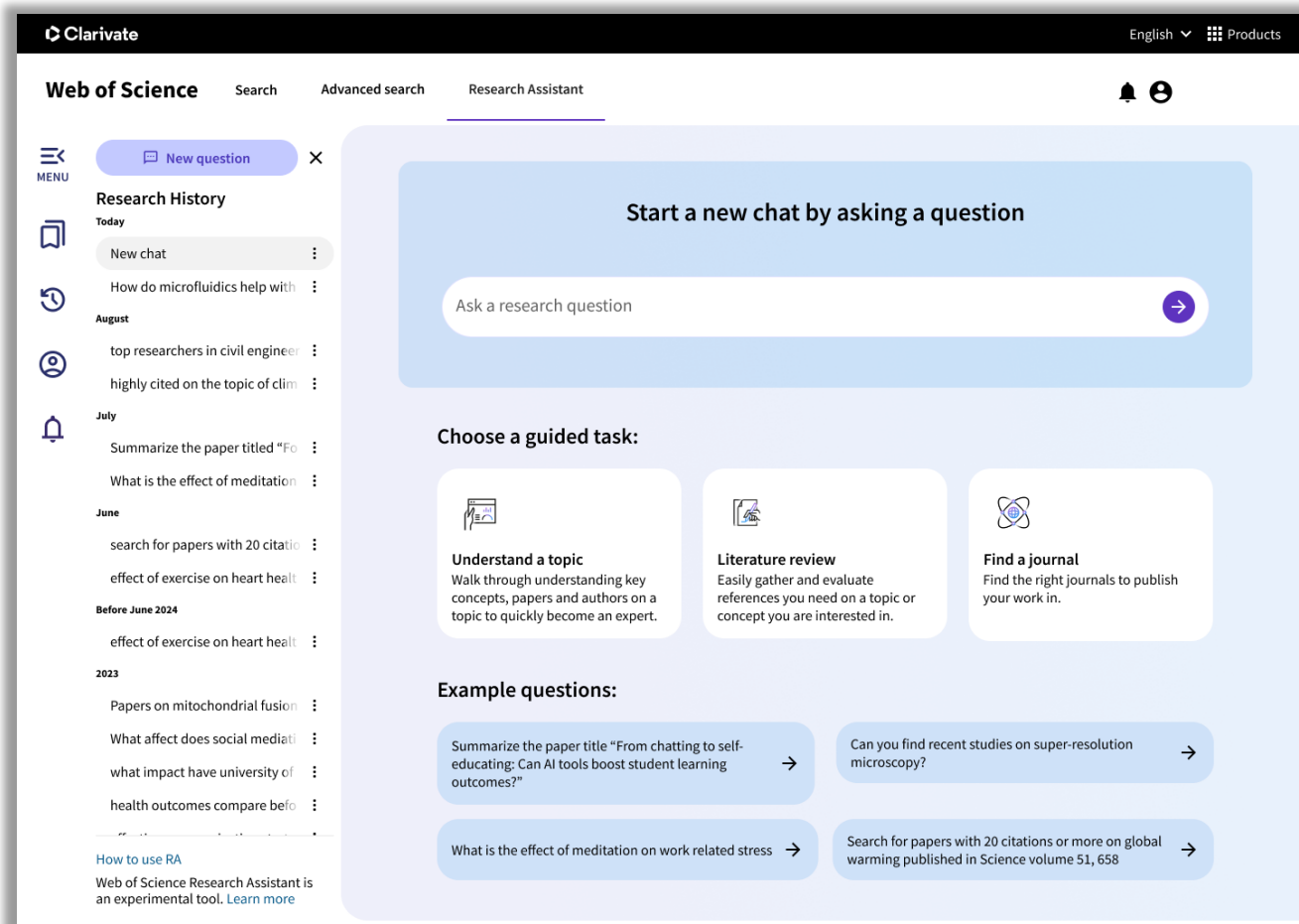
Alethea
Launched

More products in planning, incl.:

- Leganto
- EndNote
- TDM Studio
- Specto

Web of Science Research Assistant

Available from September 2024



Research smarter

Helping researchers at all levels get more out of their interactions with the world's most trusted citation index—Web of Science Core Collection.

- ✓ *Intelligent discovery*
- ✓ *Task-based guidance*
- ✓ *Responsible AI*



The Web of Science Research Assistant

Key features



Search and Discovery



Guided workflows



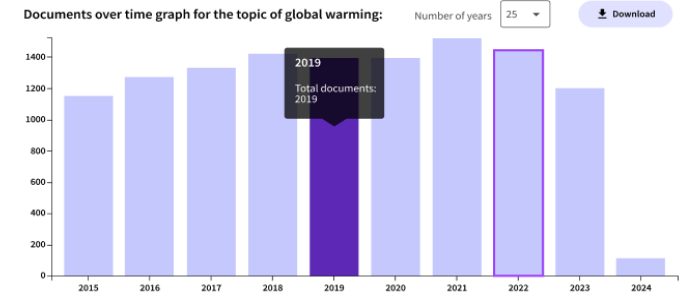
Contextual visualizations

Articles on a topic over time



Patterns of publishing
on this topic

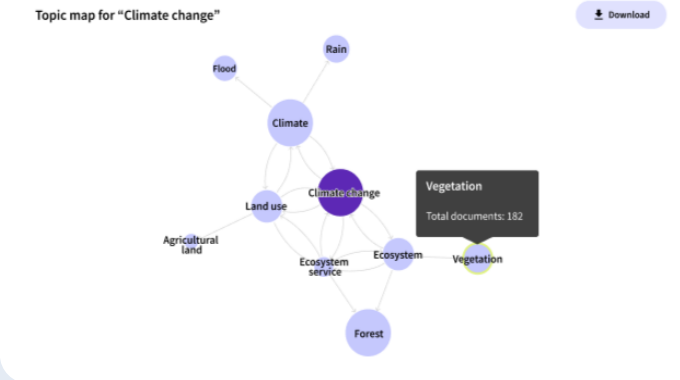
A chart of documents published over time on a specific topic provides insights into research trends, historical context, and the impact of scholarly work. It helps identify emerging subtopics, collaborative networks, and shifts in interest. Researchers and policymakers can use this information to make informed decisions.



Topic map



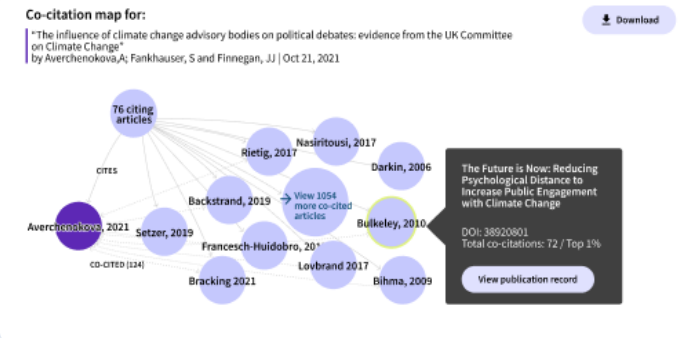
See related and
connected concepts



Citation network



See related
documents
Co-citation map

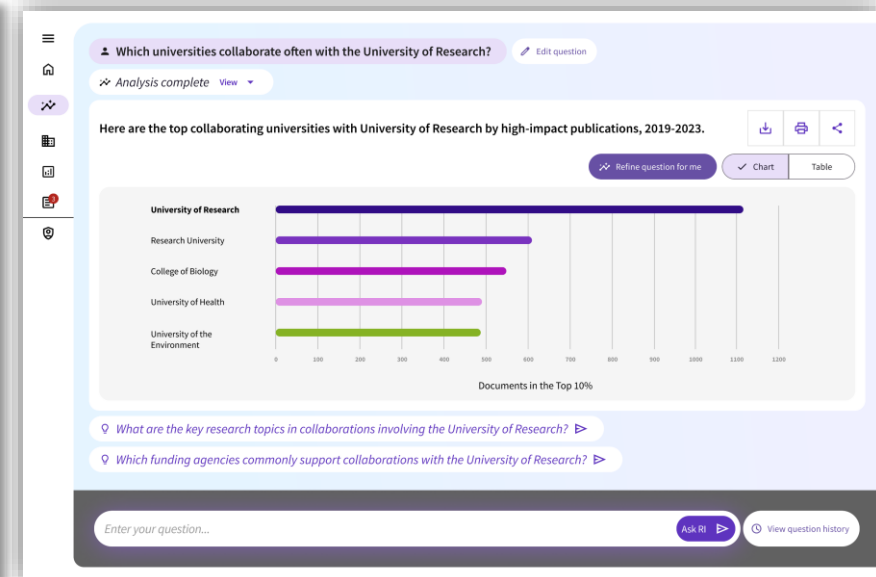
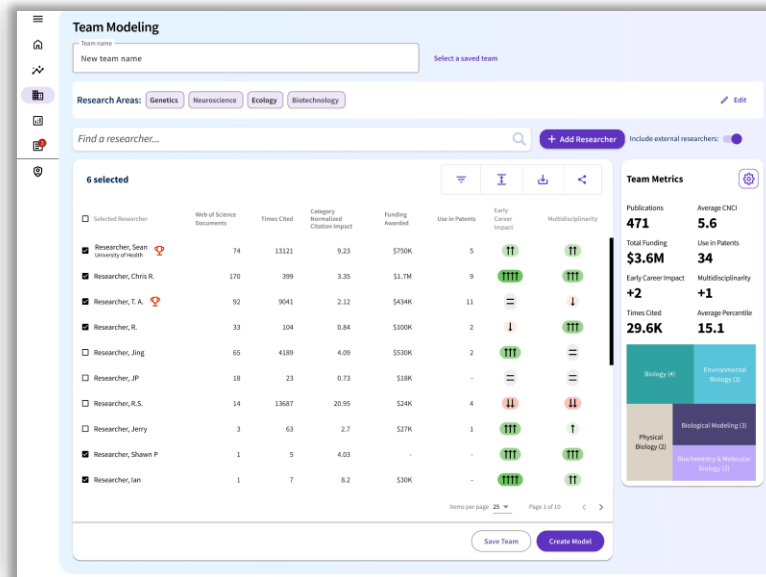
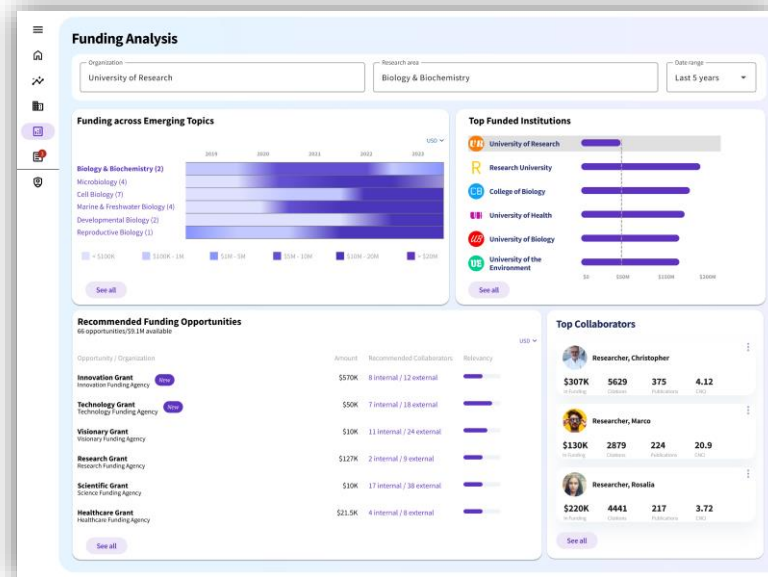


Web of Science Research Intelligence

First Development Partner Release: Sept. 2024

Lead research forward in a changing world

- Multiple research output types in one intuitive platform
- Tailored recommendations and scenario modelling
- Comprehensive societal impact framework and indicators



Unified funding & publication data to reveal opportunities you are uniquely positioned to win

Powerful scenario modeling capabilities

Analytics Assistant to gain insights whether you're a data scientist or have limited analysis experience

ProQuest Research Assistant

General release of beta version in ProQuest One products: Sept. 2024

Providing rich document-level insights and helping users create better search queries

- Key takeaways of the document to quickly determine relevance
- Guidance on next steps like choosing a research topic and understanding key concepts in the document
- Helping users turn generic searches into structured Boolean queries, including synonyms and related terms

The screenshot displays the ProQuest One Psychology interface. At the top, the breadcrumb navigation shows '< Back to results >' and '< 25 of 11,958 >'. The article title is 'The relationship between academic stress and depression among college students during the COVID-19 pandemic: a cross-sectional study from China' by Chen, Baoling; Wang, Weiwei; Yang, Shanlin, published in BMC Psychiatry, London, Vol. 24, (2024): 1-14. The interface includes a sidebar with 'Full text - PDF', 'Abstract/Details', and '1 Times cited in Web of Science'. The main content area shows the article title, authors, and abstract. The Research Assistant beta tool on the right provides key takeaways, suggested sources, and prompts for generating research topics and concepts.

ProQuest One Psychology

< Back to results > < 25 of 11,958 >

Full Text | Scholarly Journal

The relationship between academic stress and depression among college students during the COVID-19 pandemic: a cross-sectional study from China

Chen, Baoling; Wang, Weiwei; Yang, Shanlin. BMC Psychiatry, London, Vol. 24, (2024): 1-14. DOI:10.1186/s12888-024-05506-8

Download PDF | Cite | Copy URL | Print | All Options

Full text - PDF

Abstract/Details

1 Times cited in Web of Science

10i4X 1 / 15 98% +

Chen et al. BMC Psychiatry (2024) 24:46
https://doi.org/10.1186/s12888-024-05506-8

BMC Psychiatry

RESEARCH Open Access

The relationship between academic stress and depression among college students during the COVID-19 pandemic: a cross-sectional study from China

Baoling Chen^{1,2*}, Weiwei Wang³ and Shanlin Yang¹

Abstract
Background The COVID-19 pandemic is a global public health crisis. During the COVID-19 pandemic, mental health has attracted great attention. However, there is a lack of research on the relationship between academic stress and depression in Chinese college students and its mechanisms. Therefore, this study investigated the mechanisms of coping style, sleep quality, and interpersonal relationship in academic stress and depression among college students.
Methods The cross-sectional study was conducted from May to June 2022 through face-to-face questionnaires with college students in Anhui Province, China. The questionnaires included sociodemographic information, the Simplified Coping Style Questionnaire, and the Self-Rating Depression Scale. Ordered logistic regression model was used to study the relationship between academic stress and depression of college students during the COVID-19 pandemic through the mechanism analysis of coping style, sleep quality and interpersonal relationship.
Results Two thousand thirty-three Chinese college students participated in the study, including 1,285 female and 748 male college students, with an average age 19.81 years old (SD=1.22 years old). The results showed that (1) Academic stress had a significant impact on depression in college students under the background of COVID-19.

Research Assistant BETA

Here is the **key takeaway** of the document.

The COVID-19 pandemic has increased academic stress among college students, leading to a high level of depression. The article also discusses the role of coping style, sleep quality, and interpersonal relationships, including social isolation, in influencing depression.

This relates to your search as it provides insight into the impact of the pandemic on mental health, with a focus on the role of social isolation.

This is AI generated. [Learn more.](#)

Explore **suggested sources**.

Use of Virtual Reality (VR) as a Clinical Tool for Management of Self-Perceived Anxiety in College Students
Bennett, Michele et al. Journal of Higher Education Theory and Practice (2024)

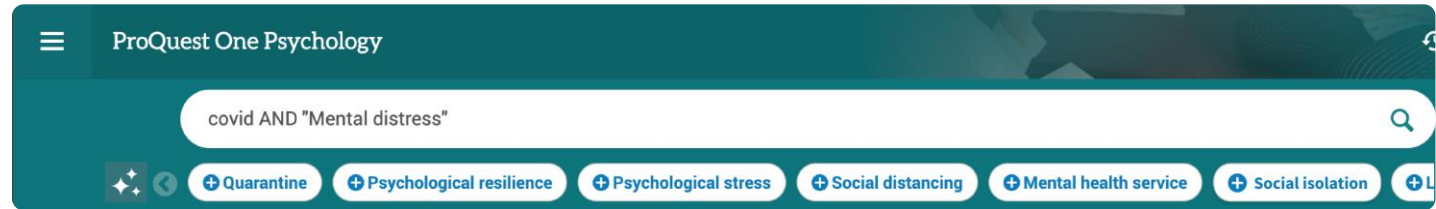
Effect of Loneliness and Stress among Afghan Students in India during COVID-19 Pandemic
Mansoor, Lida et al. International Journal of Education and Management Studies (Jun 2022)

The Mediating Role of Perceived Stress and Academic Procrastination between Physical Activity and

Brainstorm **five research topics** based on this document.

Describe the important **concepts** in this document.

Generates synonyms and related terms to help users easily craft a structured Boolean search, adding relevant terms with a click



Insights are customized to the document being viewed, including a key takeaway to quickly determine relevance

Research Assistant BETA

Here is the **key takeaway** of the document.

The COVID-19 pandemic has increased academic stress among college students, leading to a high level of depression. The article also discusses the role of coping style, sleep quality, and interpersonal relationships, including social isolation, in influencing depression.

This relates to your search as it provides insight into the impact of the pandemic on mental health, with a focus on the role of social isolation.

Users are guided to useful next steps such as exploring the key concepts discussed in the document...

Describe the important concepts in this document.

Here are important **concepts** discussed in this document and why they are important.

- COVID-19:** A global public health crisis caused by the novel coronavirus, which is the main topic of the text and has a significant impact on depression and mental health.
- Academic stress:** Stress experienced in the educational environment related to academic issues, which is a key factor influencing depression among college students in the context of the COVID-19 pandemic.

...or choosing from suggested research topics based on the document

Brainstorm five research topics based on this document.

Here are five **research topics** based on this document

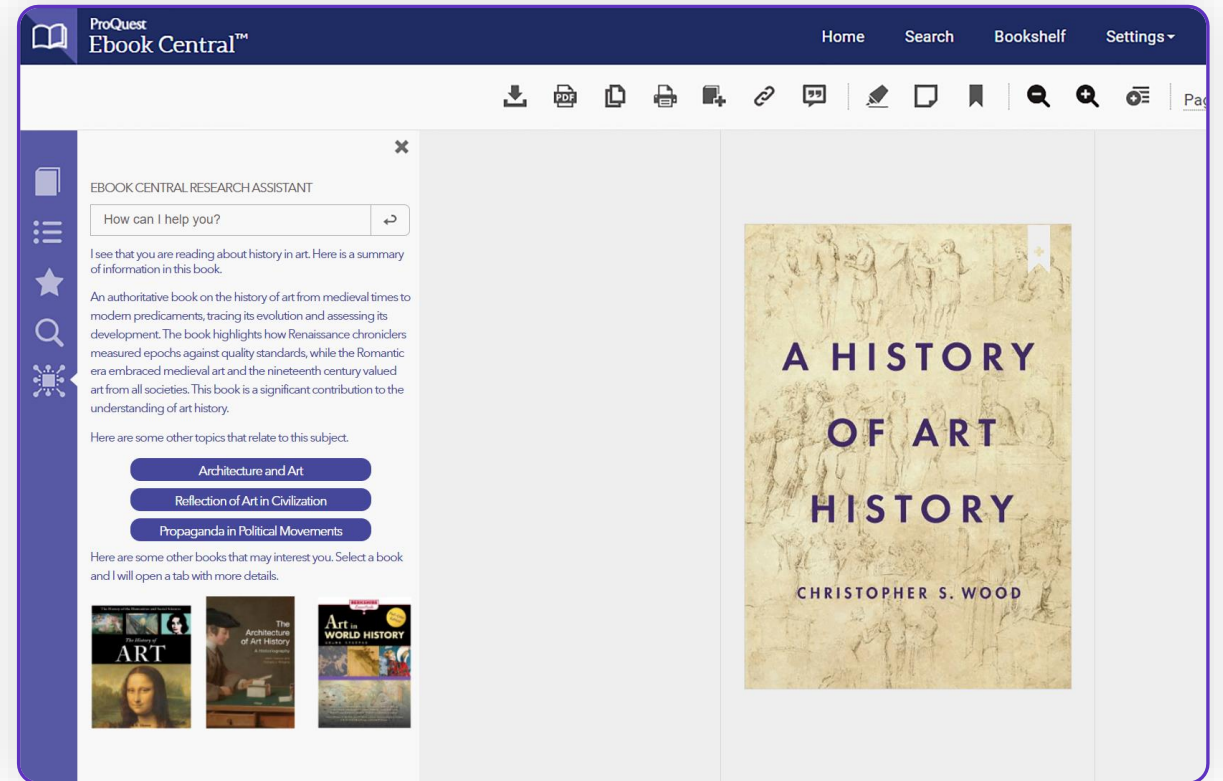
- The impact of academic stress on depression among college students during the COVID-19 pandemic
- The role of coping style in managing academic stress and depression among college students

Ebook Central Research Assistant

Beta starts Q4 2024

Enhancing patron engagement with ebooks and helping libraries get the most out of their holdings

- Key takeaways of the chapter to quickly determine relevance to the specific user and their search query
- Key concepts with contextual explanation
- Suggested research topics based on the chapter
- Helps address questions such as:
"How do I know this is the right book for me?"
"I don't have time to read the whole book"
- Triggers DDA, e.g., longer reading times, downloads, copy, and print



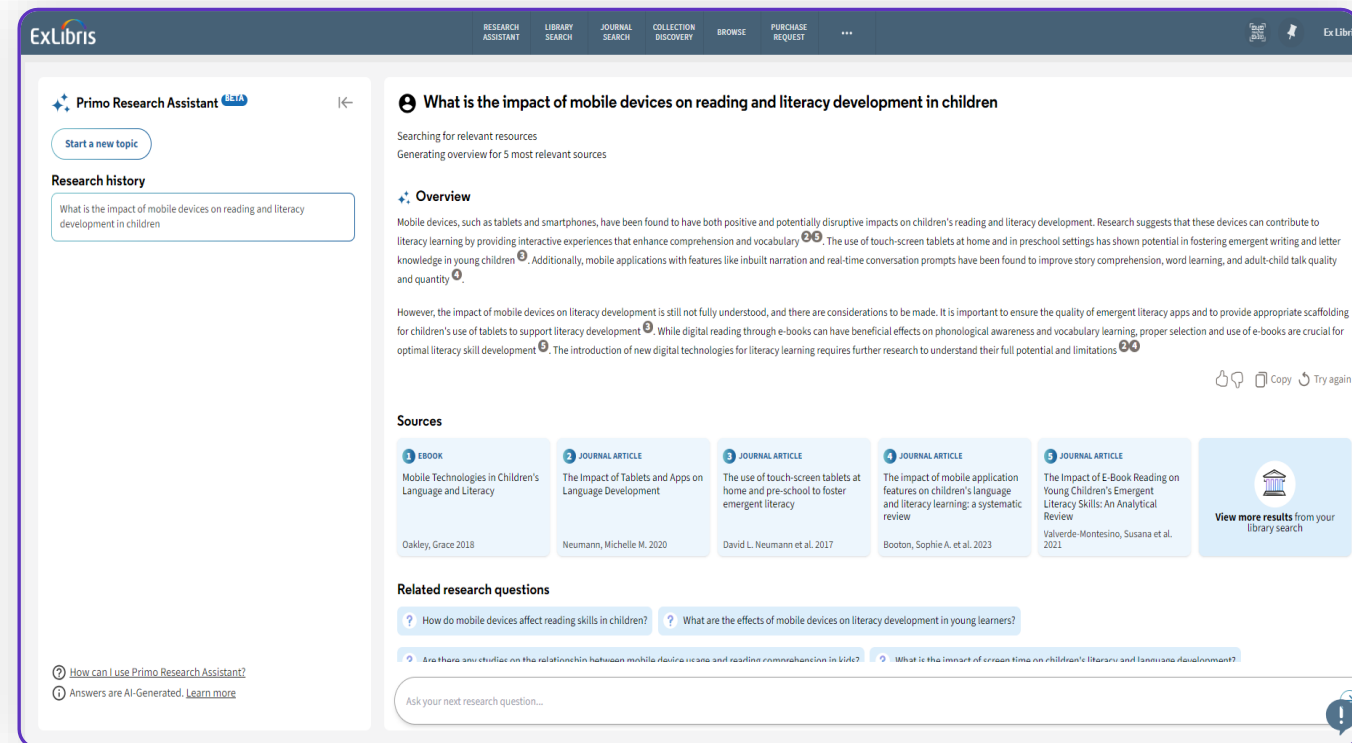
*Design preview

Primo Research Assistant

Available from September 2024

Providing users an ideal starting point to find and explore learning and research materials

- Intuitive natural language search
- Narrative answers with links to relevant sources
- Multi-lingual, with answers and scholarly sources in English and the user's own language
- Helping users turn simple queries into more precise Boolean searches
- Maximizing use of your library's electronic collection



Research Assistant

New research question

Research history

How do social media influencers affect consumer behavior?

How does consumer materialism affect influencer impact?

Which influencer reputation aspects most affect consumer choices?

How does consumer materialism affect influencer impact?

Which influencer reputation aspects most affect consumer choices?

Search history

How can I use Research Assistant?

How do social media influencers affect consumer behavior?

- ▶ searching your library for **social media influencers** and **consumer behavior**
- ▶ generating summary of 5 most relevant sources

Summary

Social media influencers (SMIs) significantly influence consumer behavior, as evident from various studies. In 2023 ¹, technology-oriented SMIs impact purchase decisions through attractiveness, expertise, and trustworthiness. A 2021 study ² emphasizes perceived influencer credibility's (IC) effect on purchase intentions, augmented by psychological ownership (PO). Another 2023 study ³ explores emotional bonds' role, revealing familiarity and intimacy influence purchases. A 2021 study ⁴ identifies four dimensions shaping an influencer's reputation, impacting decision-making. Lastly, a 2021 paper ⁵ underscores SMIs' credibility, with trustworthiness and expertise predicting purchase intentions, moderated by materialism. These studies highlight SMIs' diverse impact on consumer choices through emotional connections, credibility, and reputation.

Expand this summary Copy text Rate this answer

Sources

- 1** Mediation Effects of Social Cognition in the Real World: Reconnecting the Study of Social Cognition with Social Reality
Simpson et al., Journal of Psychology and Social Science. 2023
[Download PDF](#) [Available Online](#)
- 2** Impact of social media influencers' credibility on millennial consumers' green purchasing behavior: a concept paper on personal and social...
Simpson et al., Journal of Psychology and Social Science. 2023
[Download PDF](#) [Available Online](#)
- 3** Social Media Influencers and its Impacts on Consumer Behavior: Malaysia
Simpson et al., Journal of Psychology and Social Science. 2023
[Available Online](#)
- 4** The impact of credibility of influencers recommendations on social media on consumers behavior towards brands
Simpson et al., Journal of Psychology and Social Science. 2023
[Download PDF](#) [Available Online](#)
- 5** Heterophily or Homophily of Social Media Influencers: The Role of Dual Parasocial Relationships in Impulsive Buying

Ask a follow-up question

1/20



Semantic search

Answer with references

Sources with links to full text

Next Chat Prompt

Alma Metadata Assistant & Community Zone

Beta starts Sept. 2024

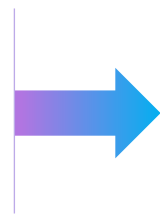
Phase 1: Enriching records in the Alma Community Zone and Ebook Central Platform

- Increasing content discoverability
- Enhancing productivity - metadata generation at scale

040	__ a UTSIPG b eng c IL-JeEL
041	__ a eng
100	__ a Scheele, Carl Wilhelm d 1742-1786 e Author
245	10 a Discovery of Oxygen, Part 2
260	__ b Project Gutenberg
	__ a The book 'Discovery of Oxygen, Part 2' by Carl Wilhelm Scheele, delves into the discovery of oxygen and the associated experiments. Scheele explores the nature of fire, air, and their compounds, challenging existing theories. He presents the idea of different types of air, experimental proof over mere conjecture. He also discusses his experiments with substances like sulphur and alkali, and their impact on chemical science and the history of scientific discoveries. 7 Generated by AI.
588	__ a Part of the metadata in this record was created by AI, based on the text of the resource.
542	__ f Public domain in the USA. k Project Gutenberg i 2008-08-09
650	_0 a Chemistry x Experiments 7 Generated by AI.
650	_0 a Oxygen 7 Generated by AI.
906	__ a BOOK



Original Full Text



Metadata Assistant

- Language
- Summary
- Subject Headings (LoC)



Enriched MARC Record

Alma's Metadata Assistant - Beta in Sep

Fully Embedded in the Metadata Editor

New Record From AI Assistant



Enter the metadata and/or images you want to use to generate the record. The new record draft will be pushed to MDE when ready.

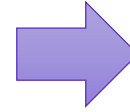
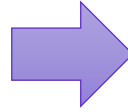
Title* Content Note

Author Summary Note

ISBN

Attachments
Upload up to 2 images of the book (e.g. back cover, colophon)

	File Name	
1	 The will title.jpg	...
2	 The will cover.jpg	...



The Will of the Many (99246241400521)

LDR #####nam#a22#####u#4500

008 #####s2022#####:xx#####r#####000#0#eng#d

020 \$\$a 9781922790910 (paperback)

020 \$\$a 9781922791948 (ebook)

041 | | | ...

100 1 | | | \$a James Islington

245 0 0 | | | \$a The Will of the Many

250 | | | \$a First edition

264 1 | | | \$a Melbourne, Victoria \$b The Text Publishing Company \$c 2023

520 | | | \$a At the elite Catenan Academy, a young fugitive uncovers layered mysteries and world-changing secrets in this new fantasy series by internationally bestselling author James Islington. The Catenan Republic—the Hierarchy—may rule the world now, but they do not know everything. I tell them my name is Vis Telimus. I tell them I was orphaned after a tragic accident three years ago, and that good fortune alone has led to my acceptance into their most prestigious school. I tell them that once I graduate, I will gladly join the rest of civilized society in allowing my strength, my drive and my focus—what they call Will—to be leached away and added to the power of those above me, as millions already do. As all must eventually do. I tell them that I belong, and they believe me. But the truth is that I have been sent to the Academy to find answers. To solve a murder. To search for an ancient weapon. To uncover secrets that may tear the Republic apart. And that I will never, ever cede my Will to the empire that executed my family.

588 | | | \$a Part of the metadata in this record was created with the help of AI

650 | | | \$a Fantasy fiction

650 | | | \$a Fugitives from justice

650 | | | \$a Academies

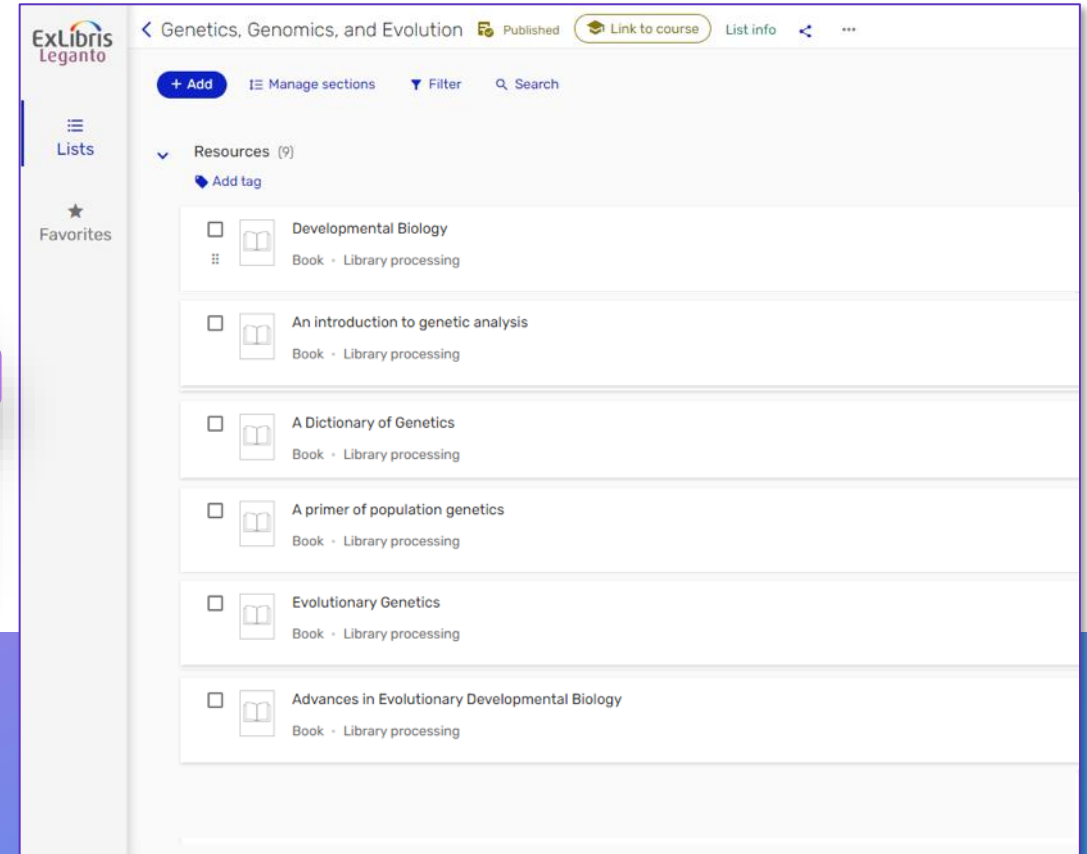
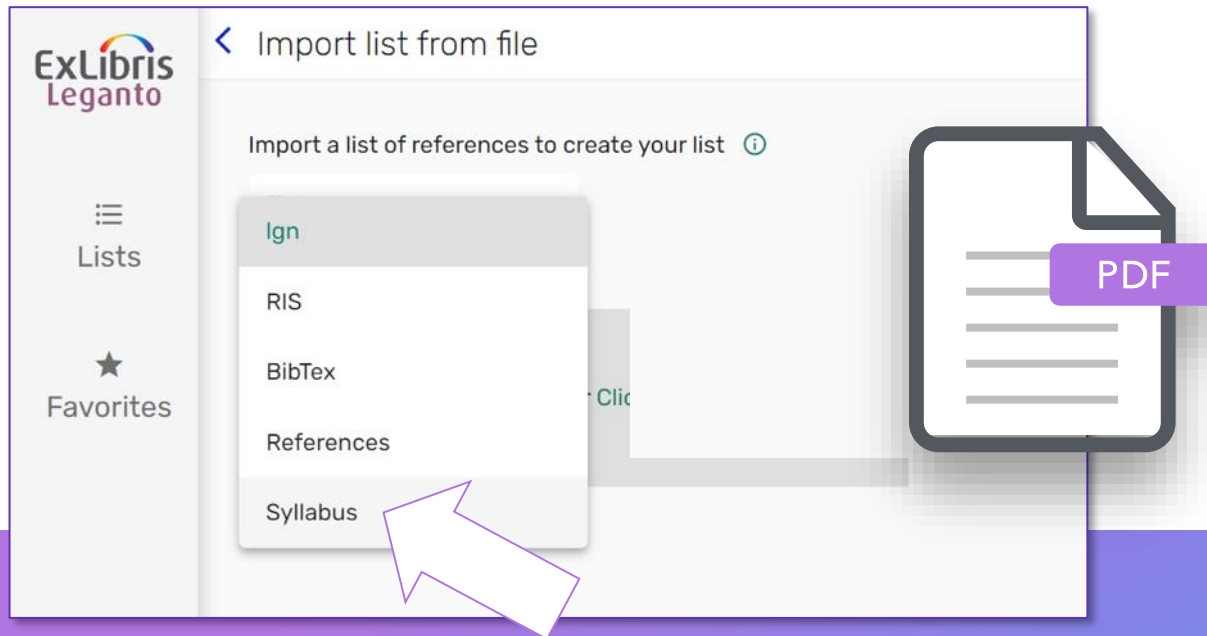
650 | | | \$a Murder

650 | | | \$a Secrets

700 1 | | | \$a Faceout Studio

700 1 | | | \$a Kathryn A. Kenney-Peterson

Leganto - Syllabus to Reading List



Beta release at the end of the year

Boosting students' engagement with course readings and nurturing learning skills

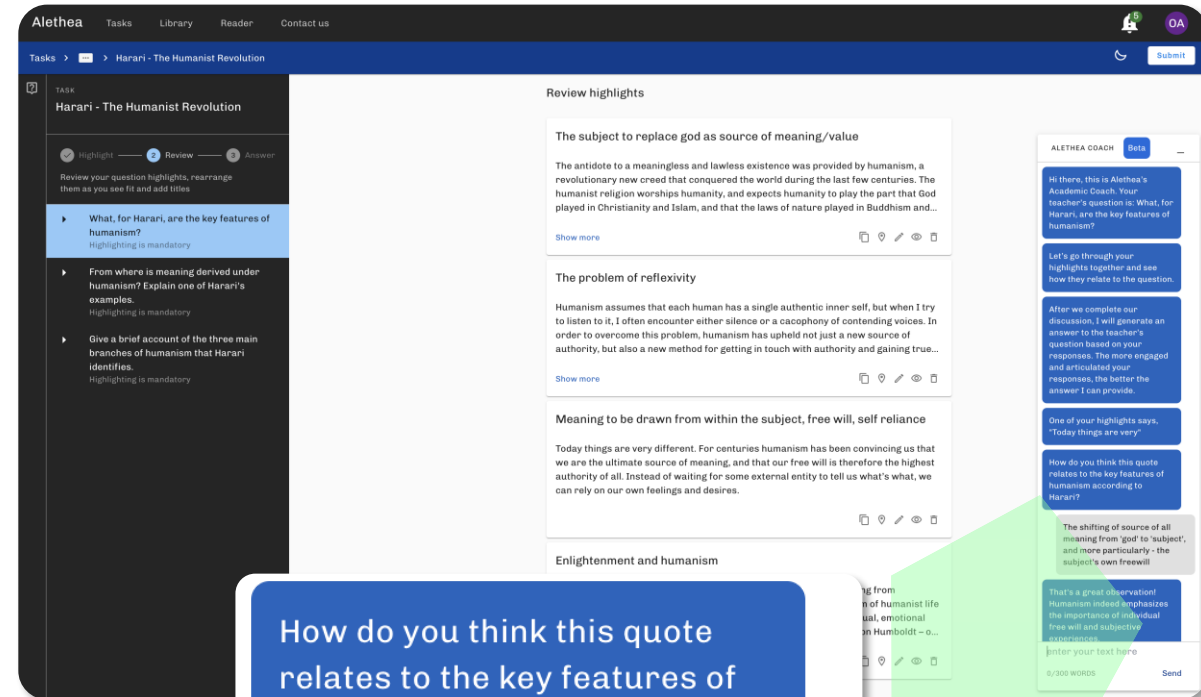
Academic Coach

- Chat-based interactions and prompts to improve engagement with course readings
- Combines proven learning principles and AI

Instructor Assistant

- Easily build effective reading assignments, with questions tailored to course materials
- Actionable insights to evaluate student needs
- Integrated into Learning Management Systems

Alethea is part of Clarivate's A&G Innovation Incubator



The screenshot displays the Alethea interface for a task titled "Harari - The Humanist Revolution". The interface includes a navigation bar with "Tasks", "Library", "Reader", and "Contact us". The main content area shows a list of prompts for a reading assignment, such as "What, for Harari, are the key features of humanism?" and "From where is meaning derived under humanism?". A chat window on the right shows an AI coach named "ALETHEA COACH" interacting with the user. The chat messages include: "Hi there, this is Alethea's Academic Coach. Your teacher's question is: What, for Harari, are the key features of humanism?", "Let's go through your highlights together and see how they relate to the question", "After we complete our discussion, I will generate an answer to the teacher's question based on your responses. The more engaged and articulated your responses, the better the answer I can provide.", "One of your highlights says, 'Today things are very'", "How do you think this quote relates to the key features of humanism according to Harari?", "The shifting of source of all meaning from 'god' to 'subject', and more particularly - the subject's own freewill", and "That's a great observation! Humanism indeed emphasizes the importance of individual free will and subjective experiences". The chat window also includes a text input field and a "Send" button.

How do you think this quote relates to the key features of humanism according to Harari?

The shifting of source of all meaning from 'god' to 'subject', and more particularly - the subject's own freewill

AI for every library

Clarivate webinar series

Demystifying AI (and what it means for libraries)

On-demand



Research Smarter with the Web of Science Research Assistant

Sept. 18



Advancing research and discovery

ACRL-Choice

Oct. 1





Thank You

Guy Ben Porat, VP of Academic AI