One Step Ahead: Proactive Versus Reactive Approaches to Avoiding Research Integrity Issues

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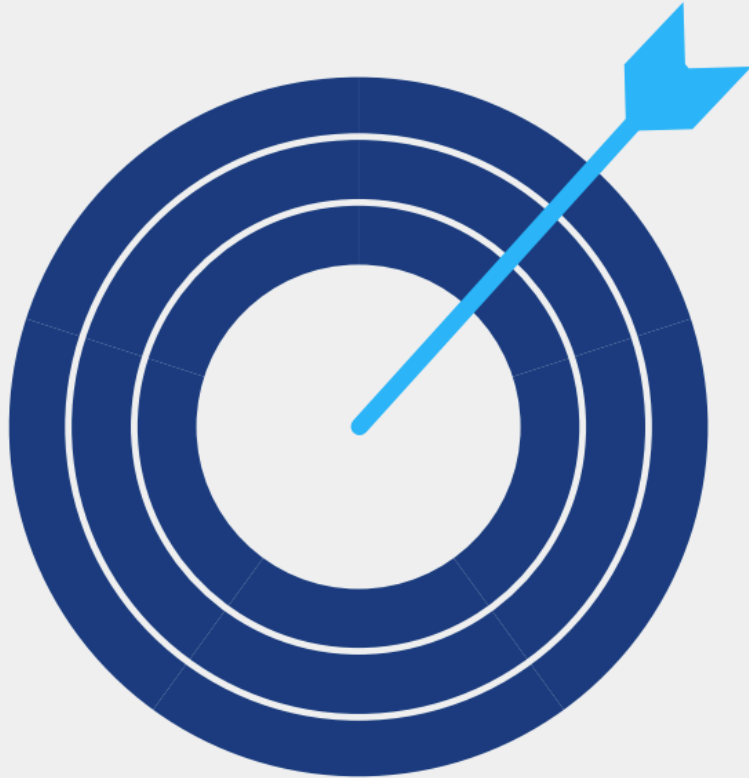# Speaker and Collaborator

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Drilling into objectives

Reactive

1 **Mitigation of risk**
through recognizing and closing our gaps and vulnerabilities

2 **Making our findings explainable**
leveraging interpretability and inter-contextuality to build actionable, operationalizable narratives

Transition

3 **Consistently improving**
optimizing, iterating, and innovating... understanding the results of our checks, what they mean, and how we can improve them

Proactive

4 **Horizon scanning**
creating and leveraging our new feedback loops to help us observe trends, recognize emerging threats, and respond to them

Journal Policies

Increased screening for Research Integrity issues may require journal policy updates and adjustments to author guidelines. It is important to think ahead about how any Research Integrity issues will be escalated and managed.

Do

- Audit to ensure consistency across your portfolio
- Stay up to date on COPE and other industry standard guidelines
- Think carefully about author communication

Don't

- Wait until you find a problem with a manuscript to change your policy
- Assume authors know what you mean
- Neglect examining practice to ensure it aligns with policy

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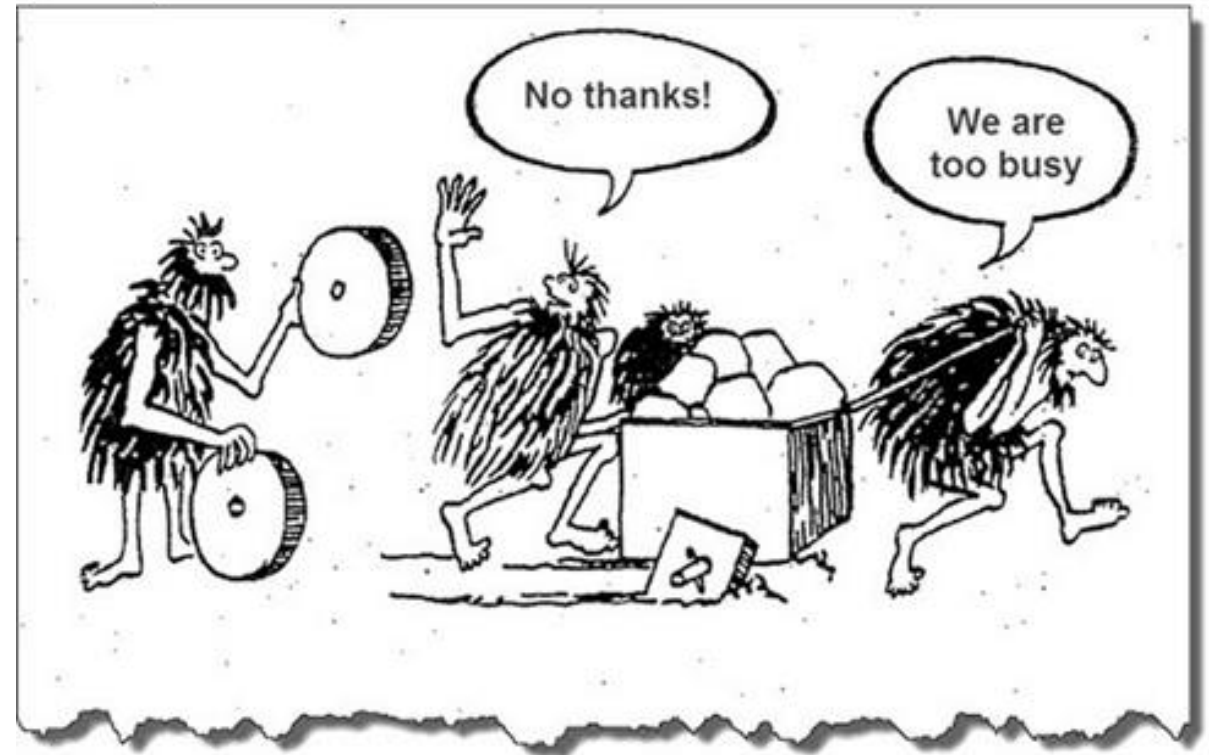
Standardization

A standardized set of system configurations and processes:
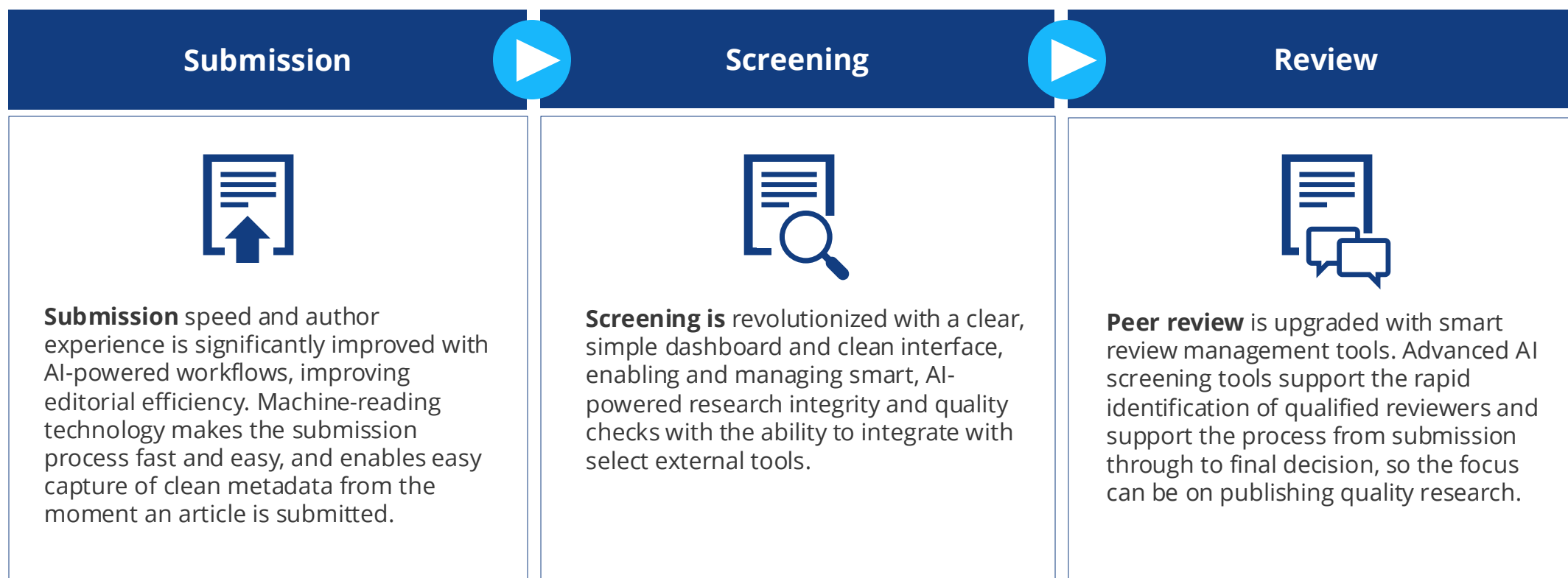
- Allows staff, Editors, and reviewers to easily perform their roles
- Establishes a unified author experience across the portfolio
- Harmonizes article types, decision terms, custom questions, and file designations
- Creates data consistency for analyzing and comparing data across the portfolio
- Optimizes transfers within your portfolio
- Promotes faster, more consistent turnaround times for authors
- Accelerates publishing strategies and innovation
- Facilitates scale at reduced costs

Standardization does not mean a journal or portfolio can have no customizations. However, there must be criteria for approval, an implementation process, and impact analysis before customizations are made at the publishing program level.
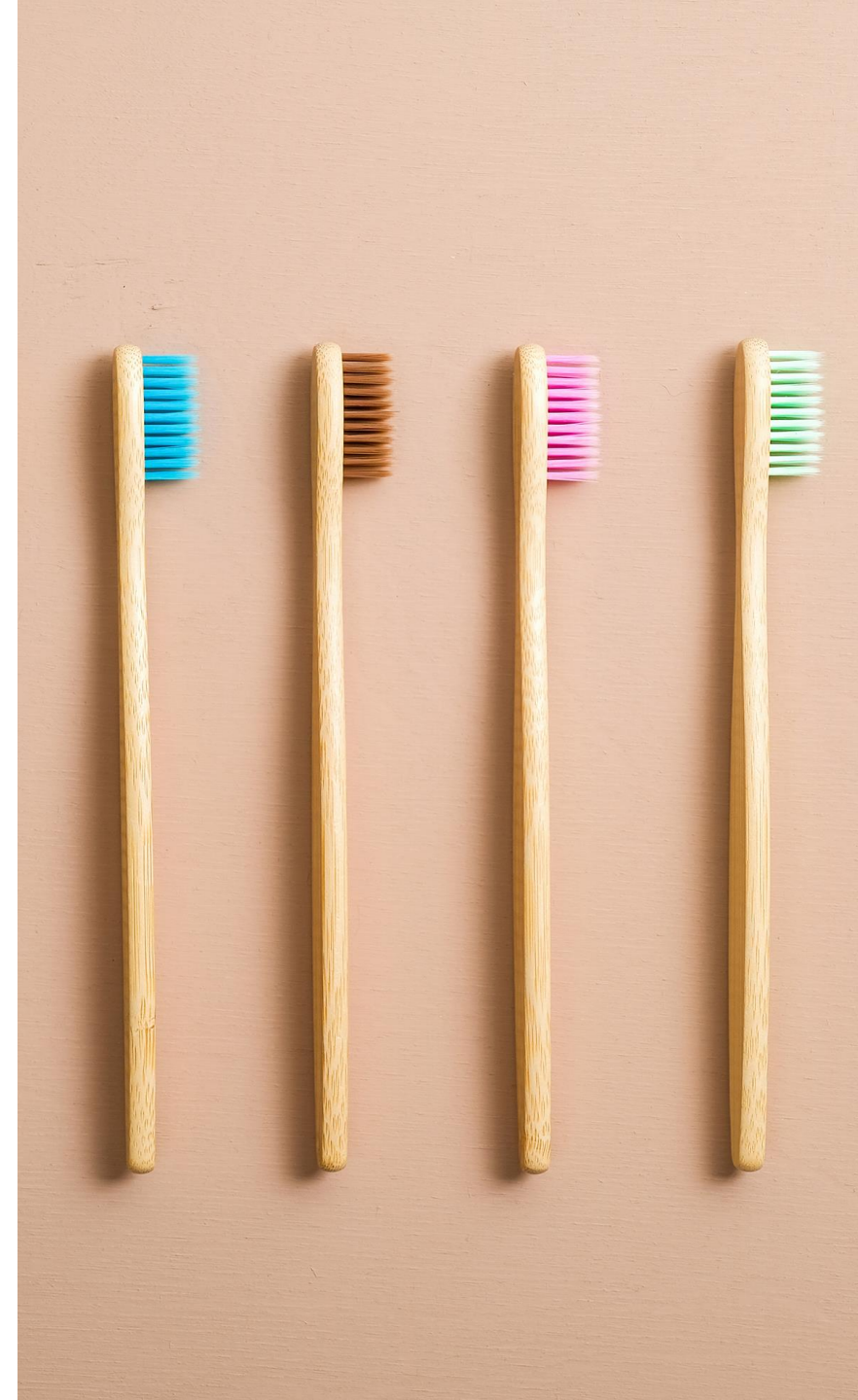
What is Research Exchange

Research Exchange is a harmonized submission, screening, and peer review platform that unifies publication workflows, improves the author experience, and gives editorial teams smart tools that allow for greater focus on submission quality and growth.
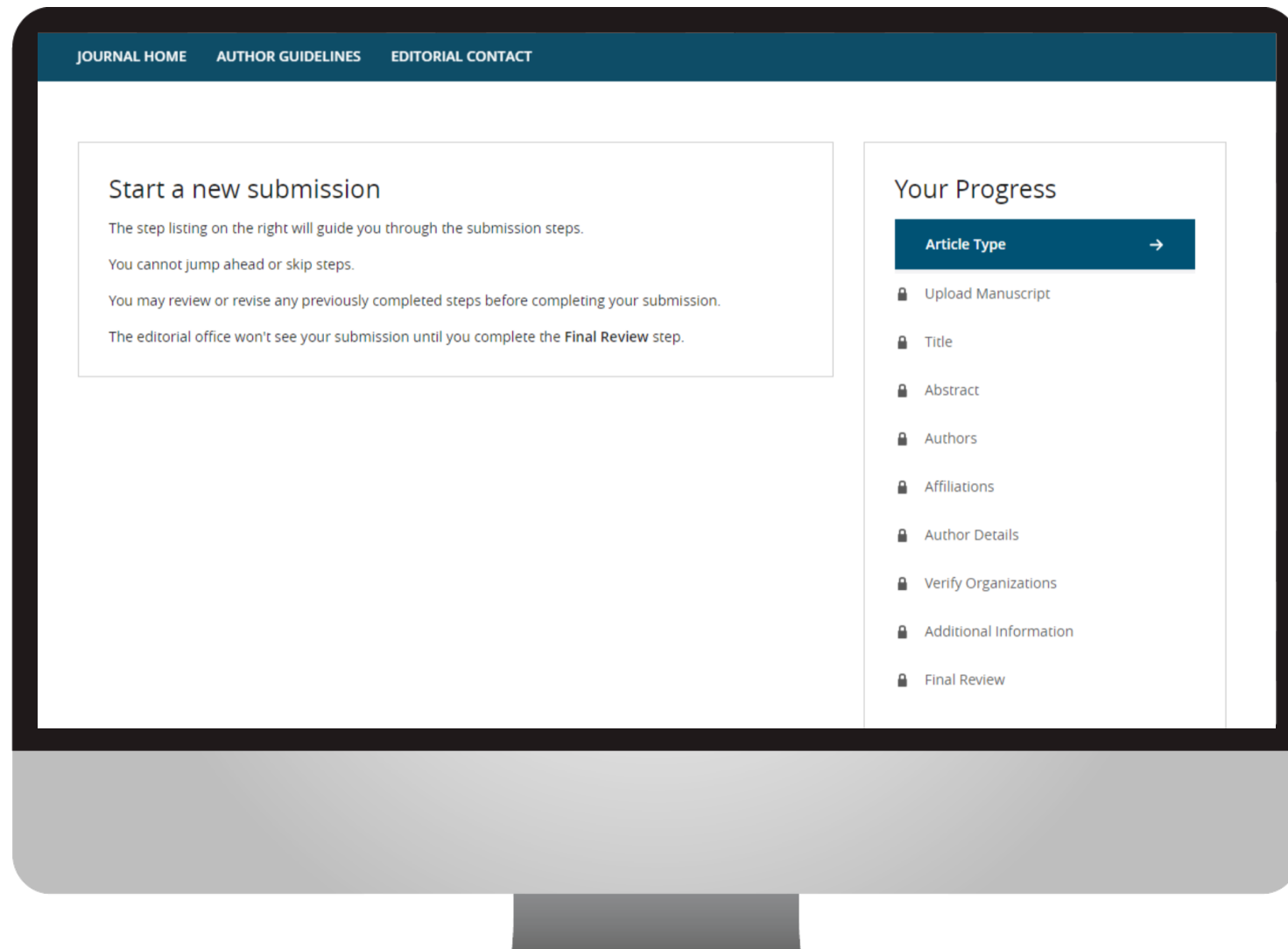
Submission	Screening	Review
Submission speed and author experience is significantly improved with AI-powered workflows, improving editorial efficiency. Machine-reading technology makes the submission process fast and easy, and enables easy capture of clean metadata from the moment an article is submitted.	**Screening is** revolutionized with a clear, simple dashboard and clean interface, enabling and managing smart, AI-powered research integrity and quality checks with the ability to integrate with select external tools.	**Peer review** is upgraded with smart review management tools. Advanced AI screening tools support the rapid identification of qualified reviewers and support the process from submission through to final decision, so the focus can be on publishing quality research.

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Research Exchange Submission

Best-in-class author experience leveraging machine-reading to make submission fast and efficient.

Research Exchange Submission

JOURNAL HOME   AUTHOR GUIDELINES   EDITORIAL CONTACT

Start a new submission

The step listing on the right will guide you through the submission steps.

You cannot jump ahead or skip steps.

You may review or revise any previously completed steps before completing your submission.

The editorial office won't see your submission until you complete the **Final Review** step.

Your Progress

Article Type →

🔒 Upload Manuscript

🔒 Title

🔒 Abstract

🔒 Authors

🔒 Affiliations

🔒 Author Details

🔒 Verify Organizations

🔒 Additional Information

🔒 Final Review

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Research Exchange Screening

Dedicated Editorial Staff UI
to manage 24+ industry-wide
and proprietary quality and
integrity checks to weed out suspicious
or low-quality content before Editorial
review, all in one place.

Research Exchange Screening
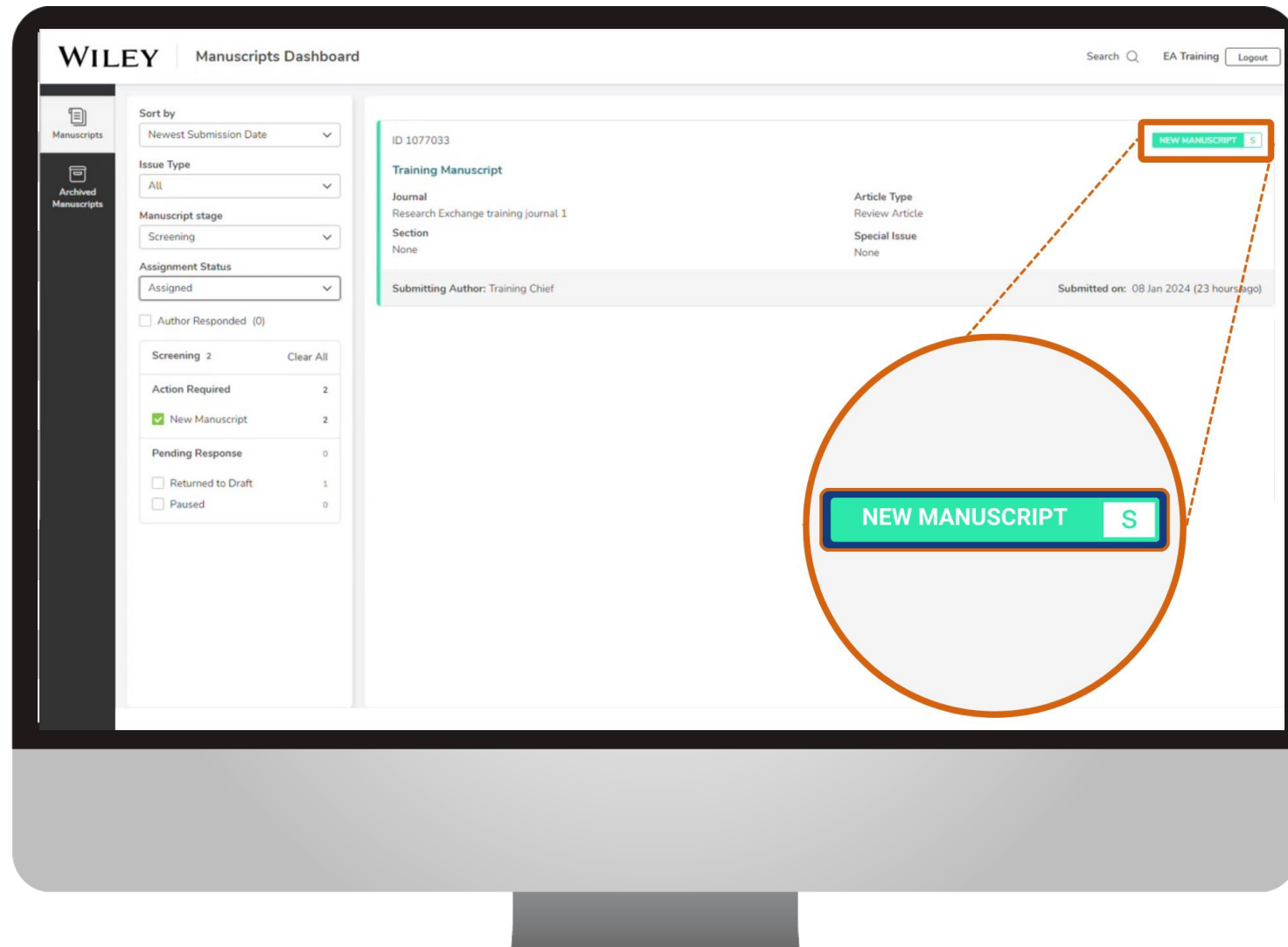
Screening

Spot low-quality papers, potential paper mills papers, and machine-generated content before peer review, saving editors time.

Proprietary and industry-standard screening checks, with more in development, including:

- **Info Validation:** Cross-referencing abstract, title, and supporting content to paper content.
- **Author Identity Verification:** Disambiguate author name, ORCID, and affiliation using CONNECT, internal and open-source databases.

Screening

Proprietary and industry-standard screening checks (continued)

- Language & Wordcount
- Suspicious Words database
- iThenticate
- Submission Similarity: Check if paper has been submitted in other journals (integrated with EKG and STM Integrity Hub)
- Machine-Generated Content
- Problematic Phrases
- Scope Match: Is the paper appropriate for this journal?

Screening

Proprietary and industry-standard screening checks, (continued)

- Reference Assessment (including Crossref, CrossMark, DOI, self-citation, citation stacking, etc.)

Screening

Our tools ask key integrity questions across three areas:

Identity Verification
- 'Who' our users are
- Institution history of users
- Industry-standard identifiers
- Known bad actors

Unusual Researcher Activity
- Outliers in author networks
- Peer Review Rings

Peer Review Analysis
- Suspicious Review activity
- Citation Coercion
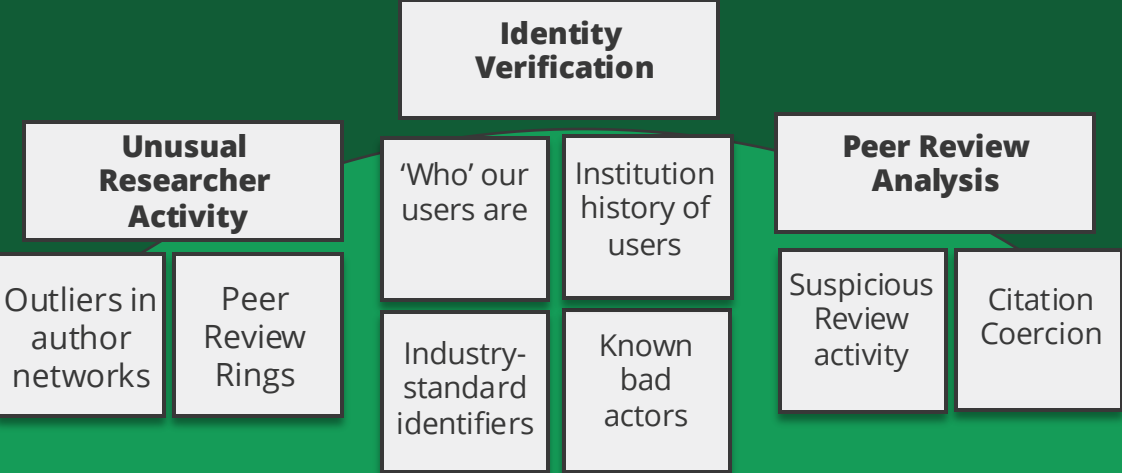
Researcher misconduct, potential paper mills

Content analysis
- Identify LLM or tool usage
- Machine-authored paper detection
- Identify Paper Mill content

Scope analysis
- Duplicate submission detection
- Similarity checking
- Retraction history
- Recognized COIs
- Journal Scope
- Reviews fit paper topics
- Author Statement analysis
- Open Science/ Data analysis

Reference analysis
- Poor reference quality
- Coercive-Citation
- Citation stacking
- Self-Citation

Image analysis
- Spot image similarity
- Spot image manipulation

Machine-generated content

Submission quality

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Research Exchange Review

Smart peer review management tools that serve Authors, Editors and Reviewers. The final piece of our streamlined and output-driven system.

Research Exchange Review

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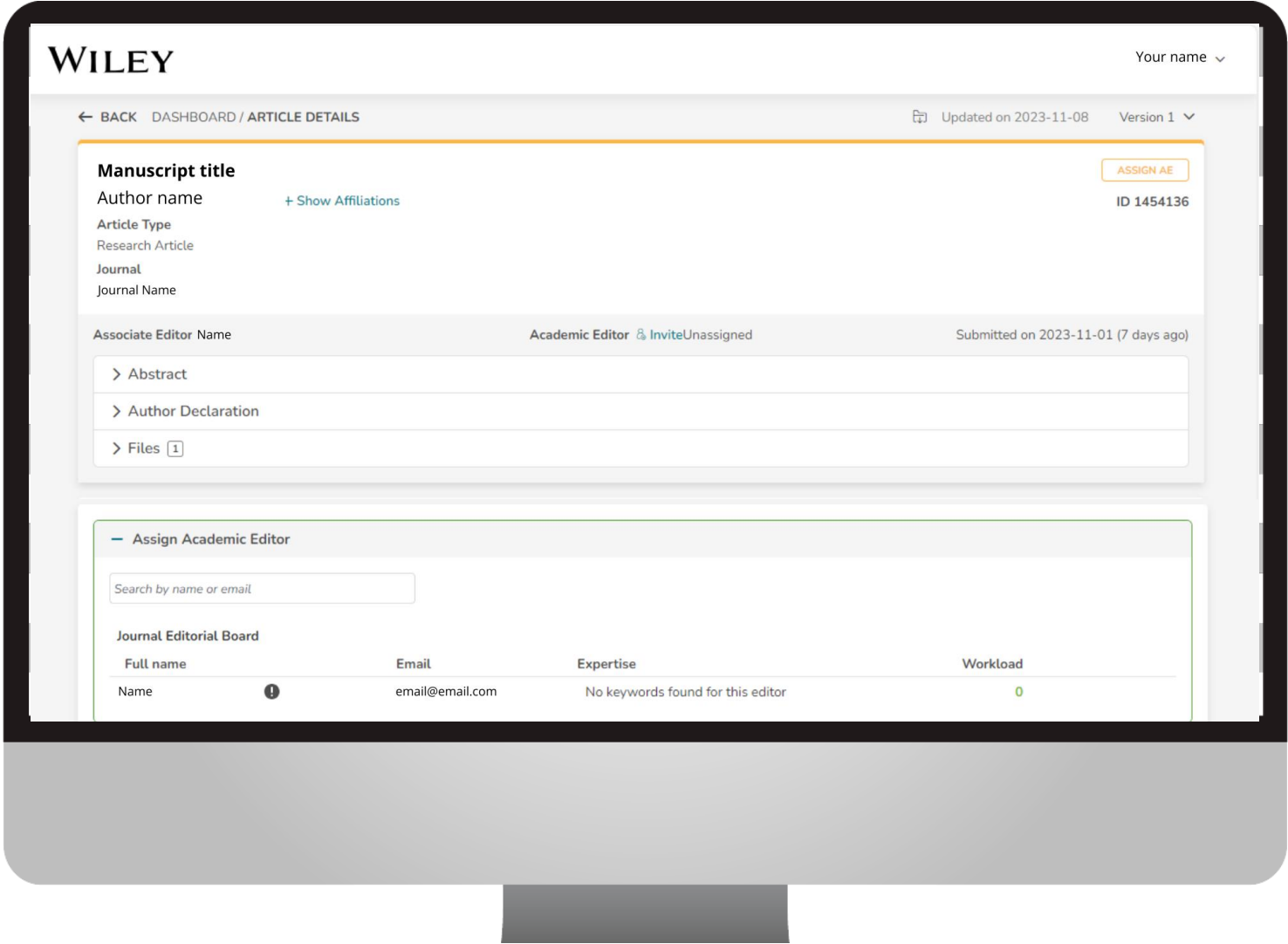# Data helps us to build narratives

Bringing multiple data points together cohesively is where we begin to really see value

Tools and AI can help us accelerate this, speeding up the process of identifying patterns and behaviors, helping in distinguishing between standard and potentially problematic activities.

Report date
26 Dec 2023, 16:20

Report
1. The paper is original, it reads well and is of importance to clinicians, patients, teachers and policymakers. Journal of Exposing Narrative is the appropriate place to publish because it can reach each of these target groups. The scientific reliability is further discussed below with reference to the consort statement for reporting of randomised controlled trials. (Improving the quality of reporting of detecting potential problems: JoEx123) I would recommend publication in the JoEXN following revisions by the authors.- Show Less

⚠ 3 duplicates of this report submitted by 2 reviewers

	Reviewer	Report Date	Article	Journal & Special Issue
1	Jane Reviewer reviewer2@123.com	26 Dec 2023, 16:20	V1 1055500 • Sample Paper 1	Journal of Exposing Narrative
2	John Reviewer j_reviewer@reviewing...	9 Jan 2024, 10:40	V1 1021122 • Sample Paper 2	Annals of Pulling Threads
3	Joan Reviewer 123@reviewername.c...	9 Jan 2024, 10:37	V1 1021122 • Sample Paper 2	Annals of Pulling Threads

< **1** >

Reactive > Proactive

Reactive

Solutions that **empower** publishers, funders, and institutions to **elevate their standards of research integrity and trustworthiness**

Solutions that foster a culture of **continuous innovation and optimisation**, using data to help us **rapidly respond to evolving needs and threats** in the research landscape

Move away from a journal article as an individual object - instead looking at it and its surrounding artefacts as **a larger part of a research network of activity** from which to draw insights

Delivering clear, interpretable, and transparent narratives for users of all experiences to make **accurate, confident, and swift assessments and escalations**

Proactive

Thank You!

Ready to learn more?

Email jworkman@wiley.com or ajester@wiley.com to continue the conversation!

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