

#### **Artificial Intelligence** Algorithmic Tools in Retrospective Review of

### Agency Rules

**Committee on Regulation** 

#### Proposed Recommendation for Plenary | June 15, 2023

1 Retrospective review is the process by which agencies assess existing rules and decide 2 whether they need to be revisited. Consistent with longstanding executive-branch policy, the 3 Administrative Conference has endorsed the practice of retrospective review of agency rules (including those that incorporate standards by reference), encouraged regulatory agencies to 4 5 cultivate a culture of retrospective review, and urged agencies to establish plans to conduct 6 retrospective reviews periodically.<sup>1</sup> The Conference has also recognized, however, that agencies 7 often have limited resources available to conduct retrospective reviews. To encourage agencies 8 to undertake retrospective reviews despite resource limitations, the Conference has identified 9 opportunities for agencies to conserve resources, for example by taking advantage of internal and external sources of information and expertise.<sup>2</sup> 10 11 New technologies may offer additional opportunities for agencies to conserve resources 12 and conduct more robust retrospective review in a cost-effective manner. Most significantly, 13 algorithmic tools may enable agencies to automate some tasks associated with retrospective 14 review. An algorithmic tool is a computerized process that uses a series of rules or inferences 15 drawn from data to transform specified inputs into outputs to make decisions or support decision 16 making.<sup>3</sup> The use of such tools may also help agencies identify issues that they otherwise might

Commented [RC1]: Proposed Amendment from Regulation Committee:

The Committee voted to replace the original title of this Recommendation (*Artificial Intelligence in Retrospective Review of Agency Rules*).

<sup>&</sup>lt;sup>1</sup> See, e.g., Admin. Conf. of the U.S., Recommendation 2021-2, *Periodic Retrospective Review*, 86 Fed. Reg. 36,080 (July 8, 2021); Admin. Conf. of the U.S., Recommendation 2017-6, *Learning from Regulatory Experience*, 82 Fed. Reg. 61,783 (Dec. 29, 2017); Admin. Conf. of the U.S., Recommendation 2014-5, *Retrospective Review of Agency Rules*, 79 Fed. Reg. 75,114 (Dec. 17, 2014); Admin. Conf. of the U.S., Recommendation 2011-5, *Incorporation by Reference*, 77 Fed. Reg. 2257 (Jan. 17, 2012); Recommendation 95-3, *Review of Existing Agency Regulations*, 60 Fed. Reg. 43,108 (Aug. 18, 1995).

<sup>&</sup>lt;sup>2</sup> Admin. Conf. of the U.S., Recommendation 2014-5, *Retrospective Review of Agency Rules*, 79 Fed. Reg. 75,114 (Dec. 17, 2014).

<sup>&</sup>lt;sup>3</sup> Algorithmic tools include, but are not limited to, applications that use artificial intelligence techniques.



17 not detect. The General Services Administration (GSA) and several other agencies have already 18 begun experimenting with the use of algorithmic tools to conduct some tasks in service of 19 retrospective review or similar functions.<sup>4</sup> 20 Although algorithmic tools hold out the promise of lowering the cost of completing governmental tasks and improving the quality, consistency, and predictability of agencies' 21 22 decisions, agencies' use of algorithmic tools also raises important concerns.<sup>5</sup> Statutes, executive 23 orders, and agency policies highlight many such concerns.<sup>6</sup> In a prior Statement, the Conference 24 itself described concerns about transparency (especially given the proprietary nature of some 25 artificial intelligence (AI) systems) harmful bias, technical capacity, procurement, data usage and storage, privacy, security, and the full or partial displacement of human decision making and 26 discretion that may arise when agencies rely on AI tools.<sup>7</sup> There are also practical challenges 27 associated with algorithmic tools-including the potentially high startup costs associated with 28 29 developing or procuring them, the need to develop internal capacity and expertise to use them appropriately, related needs in staffing and training, and the need for ongoing maintenance and 30 31 oversight-which may lead agencies to rely on the algorithmic tools developed and used by GSA 32 and other agencies. 33 The Conference recognizes that agencies may be able to leverage algorithmic tools to 34 more efficiently, cost-effectively, and accurately identify rules (including those that incorporate

35 standards by reference) that are outmoded or redundant, contain typographic errors or inaccurate

36 cross-references, or might benefit from resolving issues with intersecting or overlapping rules or

37 standards. Because agencies have only recently begun using algorithmic tools to support

<sup>7</sup> Admin. Conf. of the U.S., Statement #20, Agency Use of Artificial Intelligence, 86 Fed. Reg. 6616 (Jan. 22, 2021).

<sup>&</sup>lt;sup>4</sup> Catherine M. Sharkey, Algorithmic Retrospective Review of Agency Rules (May 3, 2023) (report to the Admin. Conf. of the U.S.).

<sup>&</sup>lt;sup>5</sup> David Freeman Engstrom, Daniel E. Ho, Catherine M. Sharkey & Mariano-Florentino Cuéllar, Government by Algorithm: Artificial Intelligence in Federal Administrative Agencies (Feb. 2020) (report to the Admin. Conf. of the U.S.).

<sup>&</sup>lt;sup>6</sup> See, e.g., AI Training Act, Pub. L. No. 117-207, 136 Stat. 2237 (Oct. 17, 2022); Exec. Order No. 14,091, Further Advancing Racial Equity and Support for Underserved Communities Through the Federal Government, 88 Fed. Reg. 10,825 (Feb. 16, 2023); Exec. Order No. 13,960, Promoting the Use of Trustworthy Artificial Intelligence in the Federal Government, 85 Fed. Reg. 78,939 (Dec. 3, 2020); Exec. Order No. 13,859, Maintaining American Leadership in Artificial Intelligence, 84 Fed. Reg. 3967 (Feb. 11, 2019).



38 retrospective review, this Recommendation does not address the potential use of those tools to 39 perform more complex tasks-such as identifying rules that may need to be modified, 40 strengthened, or eliminated to better achieve statutory goals or reduce regulatory burdens-for 41 which the potential risks and benefits are still unclear and which may raise additional issues 42 regarding agency decision making, including those highlighted above. This Recommendation 43 offers best practices for agencies to acquire, use, and assess algorithmic tools for retrospective 44 review in a way that accords with applicable legal requirements and promotes accuracy, 45 efficiency, transparency, and accountability.

#### RECOMMENDATION

46	1.	Agencies should assess whether they can use algorithmic tools to more efficiently, cost-
47		effectively, and accurately identify rules (including those that incorporate standards by
48		reference), that are outmoded or redundant, contain typographic errors or inaccurate
49		cross-references, or might benefit from resolving issues with intersecting or overlapping
50		rules or standards.
51	2.	When agencies contemplate using an algorithmic tool to support retrospective review,
52		they should consider whether it would be most efficient, cost-effective, and accurate to
53		develop a new tool in-house, implement a tool developed and made available by another
54		agency, or procure a tool from a commercial vendor or contractor. In making this
55		determination, agencies should assess whether there is an existing tool that meets their
56		needs and, in so doing, consult with other agencies that have experience using
57		algorithmic tools to support retrospective review. If there is no such tool, agencies should
58		consider whether they have sufficient in-house expertise and capacity to develop an
59		adequate tool.
60	3.	Agencies should ensure that regulatory decision makers who use algorithmic tools to
61		support retrospective review (a) have adequate training on the capabilities and risks of
62		those tools and (b) carefully assess the output for further consideration.

4. To promote transparency and build internal expertise, agencies should, when developing
or selecting an algorithmic tool to support retrospective review, ensure that the source

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65		code for the tool is publicly available and interoperable with other government systems.
66		If agencies do not use an algorithmic tool that is open-source, they should ensure that key
67		information about the tool's development, operation, and use is available to agency
68		personnel and the public.
69	5.	When agencies publish retrospective review plans and descriptions of specific
70		retrospective reviews, as described in Recommendation 2021-2, Periodic Retrospective
71		Review, they should disclose whether, and if so, explain how, they plan to use or used
72		algorithmic tools to support retrospective review. Additionally, when agencies
73		incorporate retrospective reviews in their Learning Agendas and Annual Evaluation
74		Plans, as described in Recommendation 2021-2, they should include information about
75		the use of algorithmic tools.
76	6.	When the analysis deriving from a retrospective review using an algorithmic tool will
77		influence a new rulemaking, agencies should be transparent about their use of the tool
78		and explain how the tool contributed to the decision to develop the new rule.
79	7.	The General Services Administration should continue to explore options for developing,
80		acquiring, and using algorithmic tools to support retrospective review and share its
81		findings and capabilities with other agencies.
82	8.	The Office of Management and Budget should provide guidance on the use of
83		algorithmic tools to support retrospective review.
84	9.	Agencies should share their experiences in using these tools and, to manage risk and
85		monitor internal processes, consider developing their own internal evaluation and
86		oversight mechanisms for algorithmic tools used in retrospective review, both for initial
87		approval of a tool and, as applicable, for regular oversight of the tool.

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