

# Putting DISCO Managed Review to the Test

*DISCO reviewers perform 18% faster than Am Law 50 associates, with high accuracy.*

## Background

A government agency (the “Agency”) was in the midst of litigating a complicated financial matter with thousands of their own documents to produce. The documents had already been reviewed and coded by associates at an Am Law 50 firm, but the Agency wanted to see how DISCO Managed Review — both DISCO AI and the reviewers themselves — stacked up. The Agency sent 11,000 of these documents to the DISCO review team for a proof of concept.

## Case summary

- 11,000 documents
- 65 docs/hr (18% faster than anticipated)
- 4 days (1 day ahead of schedule)
- 99% AI accuracy

## The review

The Agency opted for a team of five reviewers. Given the complicated nature of the case and the speed of the Am Law 50 associates, it assumed the reviewers would average 55 docs/hr. With these assumptions, the review was projected to take 200 hours and last five days.

The Agency gave DISCO their document review protocol and trained the review team with a single hour-long phone call. The review team took it from there.

### How DISCO AI works

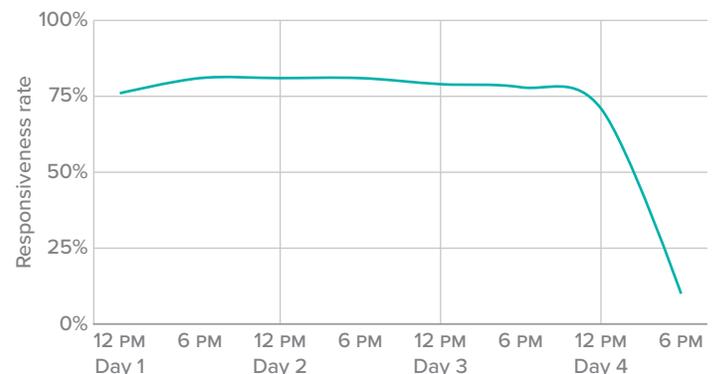
Based on the reviewers’ coding decisions, DISCO AI builds a model for responsive documents and sends the documents most likely to be responsive to the reviewers. As the reviewers accept or reject the predictions, the model becomes more accurate or improves. As the review progresses, DISCO AI sends reviewers batches with increasingly high rates of responsive documents until all of the responsive documents have been found.

## The results

### AI prioritization

The reviewers started coding documents with DISCO AI running in the background. By the first day, the responsiveness rate climbed to 80% — despite the final responsiveness rate being only 59% — and stayed there until 12 PM of the fourth day of review. After that, the rate of responsive documents fell sharply, indicating that nearly all of the responsive documents had been found.

### Responsiveness rate by day



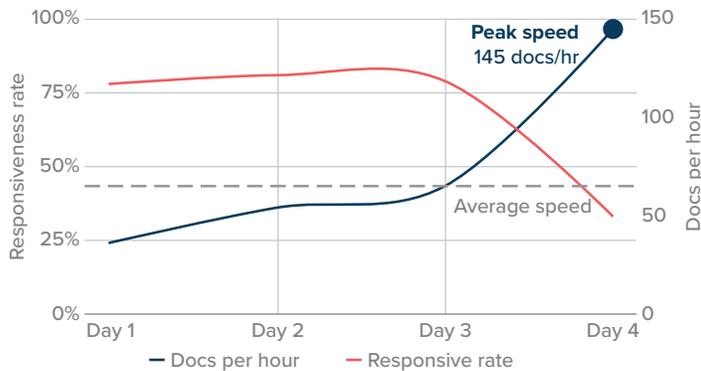
### Why AI prioritization speeds up reviews

When reviewers receive batches with high proportions of similar documents — whether responsive or non-responsive — they don't have to context switch between each document and are able to make coding decisions more quickly.

### Speed

By Day 2, the review team had reached an average pace of 58 docs/hr, slightly faster than the anticipated 55 docs/hr. Their speed remained relatively steady until the rate of responsive documents fell sharply on Day 4 — from 80% to 10%, and then 5%. At this point, the review rate shot up to 145 docs/hr because the reviewers only had to confirm that the documents shown to them were non-responsive. The final 25% of the population (2,700 documents) was coded in under three hours.

### Responsiveness rate v. reviewer pace



Taken together, the reviewers averaged 65 docs/hr across the review. The reviewers finished in 169 hours, rather than the 200 hours anticipated — which allowed the review to finish a full day ahead of schedule.

	Estimated	Actual
Speed (docs/hour)	55	65
Hours (combined)	200	169
Days	5	4

### AI accuracy

DISCO AI performed with textbook accuracy. Over 99% of the documents DISCO AI deemed “highly likely” to be responsive or non-responsive were tagged accordingly. For documents that DISCO AI deemed “likely” to be responsive or non-responsive, reviewers agreed approximately 90% of the time — validating the DISCO AI’s confidence level.

Tag prediction	Accuracy	
Responsive	Highly likely	99.0% (3,592/3,627)
	Likely	89.7% (2,253/2,511)
Non-Responsive	Highly likely	99.2% (2,193/2,210)
	Likely	93.3% (1,393/1,492)

### Reviewer accuracy

Across the document population, the codes applied by the DISCO reviewers were almost identical to those applied by the associates at the Am Law 50 firm. Where there were differences, the Agency determined that the documents represented edge cases, and it was reasonable for the calls to have gone either way.

### The verdict

When tested against the associates at an Am Law 50 firm, DISCO AI and DISCO reviewers passed with flying colors. Together, they provided with the Agency with a fast, high quality review, at a fraction of the cost.