

Technology-assisted review proven effective in Japanese-language products liability case

An Epiq Challenge

In order to test the accuracy, effectiveness and cost-savings capability of Epiq's technology-assisted review processes in cases with large amounts of Japanese or other Asian-character language documents, Epiq experts chose to run technology assisted review across a large set of data – approximately 74,000 documents – involved in a products liability case.

An Epiq Solution

An expert with comprehensive knowledge of the details of the case reviewed small batches of sample documents, rating them as responsive or not responsive. After each batch, the classification engine within Epiq's technology-assisted review system compared the expert's classifications with its own predictions, to continually refine its assessments of document relevance for the case. When it found that it could learn nothing more from the document collection, the system terminated the training process, and applied its analysis to the entire document collection. This took about 15 hours of expert time. The system reached stability after about 1660 documents, and the tool estimated that about 11-15 percent of the documents in the data set were responsive, or relevant to the case.

With Epiq Results

Epiq's test of its technology-assisted review process on Japanese-language documents performed better than expected, returning a rate of responsiveness of between 11 to 15 percent. The default recall rate was 73 percent, which would have required review of 18,469 documents, or 25 percent of the collection. The best practices default of an 80 percent recall rate would require the review of 19,895 documents, or 27 percent of the collection. Savings at an 80 percent recall rate would mean 53,772 documents could be spared from expensive, manual review.

When compared with a traditional linear review process, technology-assisted review, when applied to this case, would save a legal team approximately \$146,582.

Estimated Savings Over Manual Review: \$146,461

Linear Review

Linear review of 73,667 documents at \$1.15 a document: \$84,717

Counsel quality control of 20% at \$400 per hour (50 documents per hour) = 294 hours of review time at a cost of: \$117, 864

Total cost for linear review: \$202,581

Technology-Assisted Review

Expert train and validation time: \$15,520

Review of 19,895 documents at \$1.15 per document: \$22,879

Counsel quality control of 3% of the collection = 200 documents at 50 docs per hour = 44 hours at \$400 per hour: \$17,600

Total cost for TAR review: \$55,999



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