

# Axonwave Content Intelligence System for Enhanced Document Management

## The Problem

Document management systems do a good job of keeping your company documents safe and appropriately accessible. But when it comes to working with the meaningful content of your documents, document management systems can't offer much in the way of intelligent help.

Navigating your document collection only by file attributes like name, date, and author, while better than nothing, often isn't good enough. You might be able to search for the occurrence of certain words, but this is no help unless all your authors used the same word to reference the same concept. Resolving ambiguities or looking for relationships that weren't part of the original classification scheme usually requires that you *read the documents concerned*. Of course, this is slow, error-prone and frustrating.

## The Solution

The Matrikon Axonwave Content Intelligence System (CIS), in conjunction with a document management system, allows documents to be navigated in terms of the *concepts* they contain and eliminates much of the drudgery and imprecision of existing systems.

For instance, in a collection of workplace accident reports, an investigator might be interested in examining safety-related incidents where operator fatigue could have been a contributing factor, but not the main cause of the accident. If the reports were already in a document management system, she could probably find most safety-related documentation in a single location. If the relevant documents all contained the word "fatigue" in appropriate places, the rest of the task might not be too difficult. In practice, the concept of *fatigue* is likely denoted by text like "Richardson worked a split shift that day" or "Jones complained that he 'wasn't feeling sharp'...". Short of actually reading each document for senses like this, it will be very difficult for our investigator to find the information she wants, unless she has a system that can be made to *understand the concept of fatigue*. The Axonwave CIS understands the meaning of phrases in context, helping the investigator work more effectively.

With Axonwave assisting her, the investigator can now quickly and accurately find the appropriate documentation to support her investigation. Because of this improved efficiency, her analysis is deeper and her conclusions better supported. She is able to cite documents she may never have found otherwise.

This is only one of the ways the Axonwave CIS can work with a Document Management System. It can also:

- Add metadata.
- Create conceptual categories.
- Create reports on your document collection according to any available dimension: concept occurrence, relations, time sequence.
- Pinpoint text-based security breaches – information that has been copied or even paraphrased. This material could be on an employee's laptop, for instance.
- Tag and index OCR'd text.
- Identify inconsistencies.



- Automatically mark or hide sensitive text.
- Track the mood, tone or sentiment of passages of text.

Document types supported:

- Text
- Word processor files
- Web content
- E-mail
- MS PowerPoint presentations
- Some drawing formats
- PDFs
- Excel

With the Axonwave CIS your Document Management system becomes much more than a repository; your users will be able to retrieve information according to their specific needs and perform sophisticated analyses across the whole collection.