

"I have been waiting twenty-five years for this technology to arrive! This is really going to drive down our operational costs by allowing us to use fewer people at the data entry level and ultimately at the verification level too."

CEO, National Title Company

Document Classification and Data Extraction

Leading Financial Services Firm Saves \$2.5 Million Using Axis AI for Mortgage Loan Processing

BACKGROUND

In October 2016, Axis Technical Group and an industry-leading financial services firm completed Phase 1 of an Automated Loan Classification, Separation and Data Extraction Project. The Client's goal was to streamline their due diligence and audit process by organizing their loan packages — ranging from 250 to 9,000 pages — into a consistent document format. This included classifying, separating and reordering the loan documents and extracting the necessary data to perform the audits.

Axis' goal was to allow them to quickly locate and pull data from the loan documents with ease and in a repeatable fashion, resulting in roughly **10-15% time savings and \$2.32 to \$4.37 cost savings per loan**, depending on the audit type.

CHALLENGE

The Client processes thousands of loan files each month, which range from 250 up to 9,000+ pages in length and are received as a single PDF. Their previous audit process required underwriters (paid at \$27/hour) to re-underwrite the loan for a Credit, Compliance and Forensic reviews. This meant the auditor had to scroll thru the 250 to 9,000 pages of the loans numerous times looking for specific information on a particular

document. Then they would have to manually data enter 150 to 300 fields (depending on the review type) into the LOB system to perform the audit. Since the documents in the loan were in no consistent order, this was an extremely time consuming process and not an advantageous use of the underwriter's time and expertise.

This process would typically take 2.5 to 3 hours per loan and could not be done by lower cost data entry clerks because the underwriter is required as a SME (Subject Matter Expert) to identify the correct information from the document. Alas, one of the nuances of the mortgage loan servicing and compliance process.

SOLUTION

Axis AI automatically classifies, staples (separates), reorders and bookmarks the loan by the document type (i.e. Note, Mortgage, Deed, Income Documents, etc.) into a consistent, easily digestible format, allowing the underwriters to locate the information more quickly and increase speed of data entry. The are processed through an optical character recognition ("OCR") process, after which the OCR'd data and images are classified and analyzed using Axis AI's patent-pending Natural Language Processing and Machine Learning technology.



...THEN WE ENSURE YOUR SOLUTION
SUPPORTS YOU WELL INTO THE FUTURE.

What Makes Axis AI The Right Choice?

Organizations have a superior alternative to manual keying or the costly and ineffective results of other data extraction solutions

The required documents were then carefully classified, stapled, reordered and bookmarked into a specific order to help streamline the data entry into the present LOB system.

Documents submitted by our Client were processed and data indexes delivered back to the Client in less than 48 hours. The project recently reached completion on schedule and on budget.

PHASE TWO

Next steps would be to automatically extract the 150 to 300 data elements and programmatically feed the LOB system. The required data elements will be extracted, validated and/or corrected, and the values then returned to the Client for seamless ingestion into their LOB system.

This will not only eliminate most of the manual data entry but will allow a lower-cost data entry clerk to validate the data. This frees up the underwriters and allows them to focus their primary purpose, which is to underwrite the loan.

This combined savings in time and labor cost will result in estimated **54% increase in throughput**, which equates to **\$8.11 to \$15.73 total savings per loan**. Taking an conservative average of \$10 per loan multiplied by 250,000 loans per year brings the **annual savings to \$2.5 million**.

Since 2002, Axis has served as a trusted technology advisor to leading companies in the mortgage, title, healthcare and financial services industries. Fast, fluid and focused, our global team offers unmatched technical and business expertise at a reasonable cost. We combine the comprehensive skills and resources of a global consulting firm with a personal, solution-oriented approach.

**It's not just about technology –
It's what technology can do for your business.**

TESTIMONIALS

The Managing Director for our global partner stated: *"The Axis Team is outstanding, to say the least, and we truly appreciate everything they have done to enable us to streamline our process! We are mostly pleased with the 15% savings from Phase 1 alone, and want to ensure that all future eligible loans are sent through the Axis AI process."*

Axis' CEO, had this to add: *"We are excited to see our NLP technology utilized on a broad range of disciplines and document types. Unstructured contents is what Axis AI was originally designed for, but our clients are finding it also incredibly efficient on structured content, like tax forms. It is perfect for a business process that encompasses a mix of document types and lay-outs, where clients don't have to mess around with bar codes, separator sheets or manual sorting to classify and prepare their content. The labor savings are incredible in both time and money."*

THE BOTTOM LINE

Axis AI is a revolutionary product that offers solutions that are faster, less expensive and extend to a wider range of document processing challenges than ever before. No other vendor on the market has the experience, technology and know-how to address the most complex document processing opportunities out there today.



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