



Parabole software helps banks deal with large volumes of unstructured content in the risk and finance domain.

Today, analyst spend 1000's of hours reading hundreds of pages in order to extract relevant, actionable information.

The software identifies and assimilates key contexts from the new FASB-CECL rule and links relevant paragraphs resident in existing institutional documents.

By using Parabole automation at scale, banks will realize significant efficiencies and cost reductions.

## AUTOMATED ANALYSIS OF UNSTRUCTURED INFORMATION USING AI



### Problem

The Financial Accounting Standards Board (FASB) has issued the Current Expected Credit Losses (CECL) Standard that will overhaul the current impairment models. The affected banks need to analyze the CECL regulation in order to assess their governance and risk management frameworks, credit models, data requirements, accounting and operational policies in order to plan for successful implementation of the new requirements. Failure to adjust to these new standards may result in significant fines, penalties and expose institutions to reputational risk.



### Solution

The platform enables risk & finance professional to have granular view of the CECL rule and the ability to contextually analyze all relevant documents. It maps individual paragraphs of the rule document with relevant paragraphs resident in internal documents including but not limited to models, policy or process documents. Additionally, the governance mechanism in the platform provides a transparent view of various workstreams and allows for monitoring and tracking of all checklists in a intuitive manner.



### Return of Investment

Today, analysts spend 1000's of hours analyzing documents in the initial stages of regulatory compliance or for day to day risk decisions. By leveraging our machine-assisted analytics approach, the institution will achieve significant time and cost savings without sacrificing accuracy.



### Uniqueness

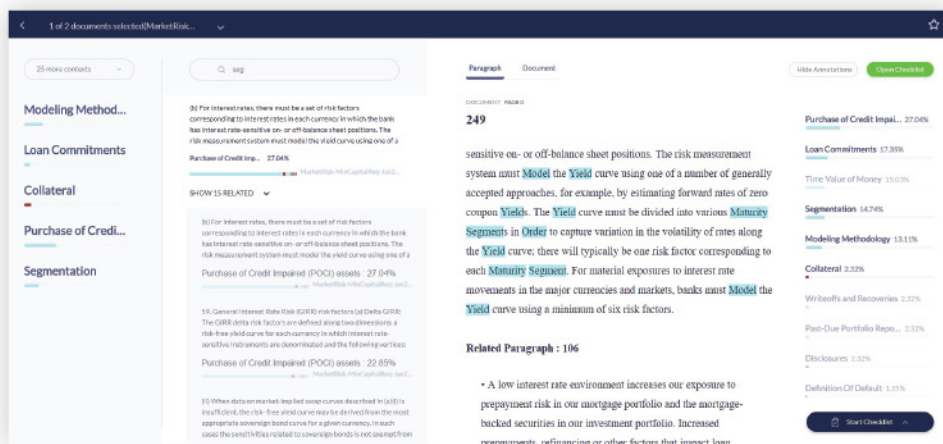
The software is built to contextually analyze millions of pages of unstructured contents in Finance, Credit risk, Market Risk and Liquidity Risk areas.

## Technology

Parabole's platform technology is comprised of Machine Learning and Natural Language Processing tools that analyze documents ( eg. regulations, model, policy, and process documents) and discover semantic relationships between multiple documents in the risk and finance domain. For the purpose of extracting semantic information from the documents, we use a pre-trained, word embedding algorithm to represent all financial terms using vectors. Clustering techniques are then implemented on this vector space to identify themes and terms across the same or disparate documents. This data is then enriched by the information present in the knowledge layer where the functional vocabulary and internal themes of the entity are defined.

The ability to analyze this semantic knowledge and context can be used by subject matter experts (SME's) to make decisions more efficiently in a fraction of the time taken by manual text analysis.

## Illustrations



## Production Ready

The software has been engineered to follow the architectural and operational guidelines of large enterprises

## Security Policy Compliance

The software adheres strictly with enterprise security policies. It interrogates only those documents where access has been granted

## Minimal Risk

The software operates in read only mode. The user is not capable of making any changes to institution's document repository

## Interoperable

Parabole's software is designed to work alongside existing applications within the enterprise. A REST API is provided, allowing rapid information exchange across the software ecosystem

## About Parabole

[www.parabole.ai](http://www.parabole.ai)

Parabole, a Princeton, NJ-based software solutions company, helps banking and financial organizations automate the analysis of volumes of unstructured information with our knowledge-infused cognitive platform.

Work that historically has taken weeks or months to perform accurately can be done in near real-time with Parabole's AI.