



From Untapped to *Unleashed*

Gain a competitive
advantage by taking
a strategic approach
to unstructured data

cognaze

Actionable intelligence
from unstructured data



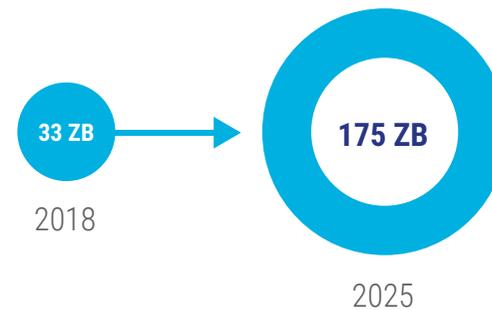
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The finance industry is overwhelmed by massive volumes of unstructured data

Banks, insurers, and other financial institutions are producing more documents than ever.

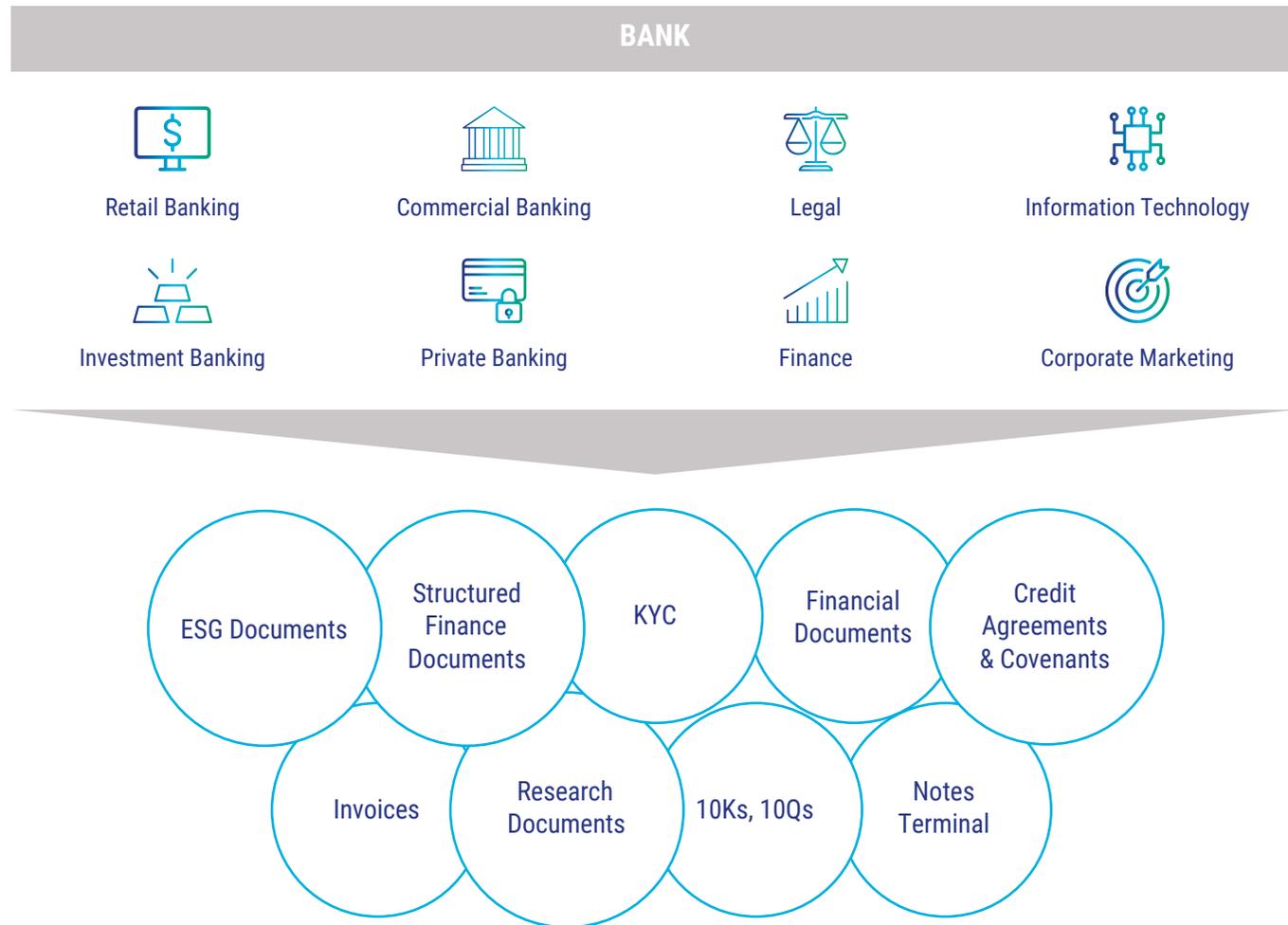
80%
of the world's data
are unstructured, and
multiplying each year.



An overwhelming majority of the world's data are unstructured and the volume of these data is growing by more than 25% per year. According to the latest figures from research firm ITC, the volume of unstructured data is set to grow from 33 zettabytes in 2018 to 175 zettabytes, or 175 billion terabytes, by 2025.¹

1. Venturebeat.com "Why Unstructured Data is the Future of Data Management"

Banks are complex organizations with many internal groups and lines of business. All these divisions are processing a lot of unstructured data daily. The accumulation of these data will inevitably pose risks and challenges to CDOs if they remain uncontrolled.



How will you deal with
the coming surge?

Will you wait and see how it
affects your firm or *build a
comprehensive strategy now?*

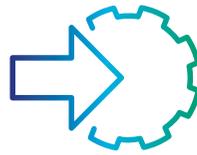
CDOs face profound challenges as volumes of unstructured data rise and bog down the data ecosystem.



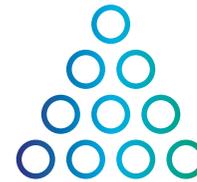
Data Security & Compliance



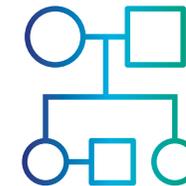
Data Quality & Uniformity



System Integration &
Cloud Migration



Data Availability



Data Lineage

CDOs that act now to establish a corporate strategy for managing unstructured data will gain a competitive advantage.

As the volume of unstructured data processed by financial institutions doubles in the next three years, CDOs will be responsible for managing its quality, compliance and security. In addition, these data contain untapped insights that business units are unable to mine in order to improve the customer experience or develop new products. CDOs that do not act now to develop an unstructured data strategy will fall behind more proactive competitors. The more CDOs delay, the more challenging it will be to catch up.

Deep learning holds the key

Deep learning is an artificial intelligence (AI) technology that imitates the way a human brain processes data and creates decision-making patterns. Rather than formulating a system of rules and principles to develop automation, deep learning uses annotated data to learn. As a result, deep learning copes with diverse data formats by building a model of underlying structures that is beyond our explicit understanding. This makes deep learning particularly well suited for processing financial documents in manifold formats.



“WE KNOW MORE THAN WE CAN TELL”

MICHAEL POLANYI

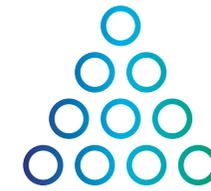
Deep learning is already transforming many disciplines



Consumer Technology
Virtual assistants that learn individual preferences



Medicine
Analyzing genomes to improve accuracy and speed of diagnosis



Biology
Protein structure prediction that enables faster drug innovation

Organizations typically rely on manual processes to extract information from unstructured data, such as entering data from a loan application into a database. Deep learning platforms can do this automatically at high rates of speed and accuracy that only increase over time.

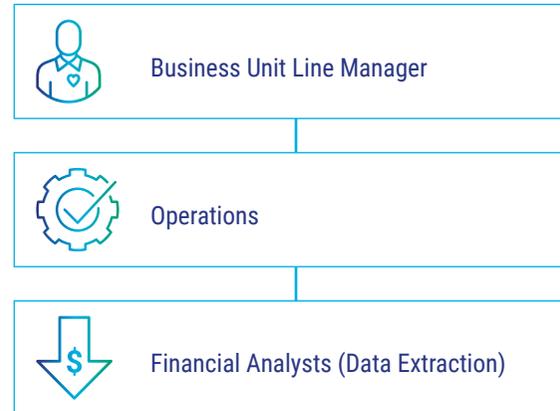
Deep learning allows organizations to analyze more unstructured data than ever, and use these data to generate insights and build competitive advantages.

So why aren't more companies using it?

Lack of collaboration between data science and operations impedes automation

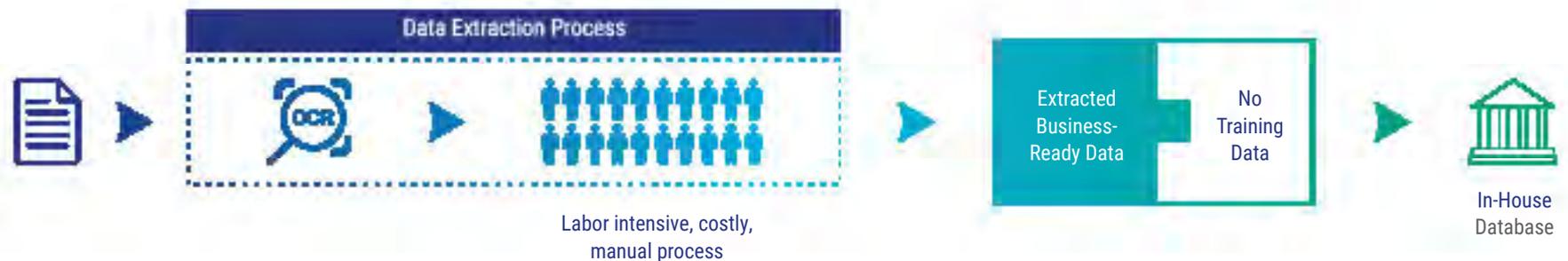
Operations

Operations teams have domain expertise but are removed from the data science process. They can get frustrated with the slow pace of automation and be overly reliant on manual extraction.



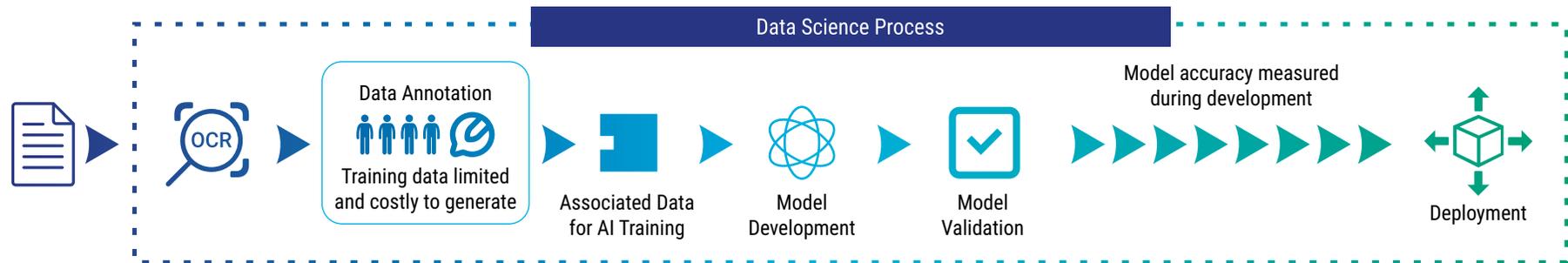
Challenges for the CDO:

- + Costly manual process and long cycle times
- + Suspect data quality limits opportunities for automated quality checks
- + Lack of an audit trail from a particular insight to its source document poses compliance risks



Data Science

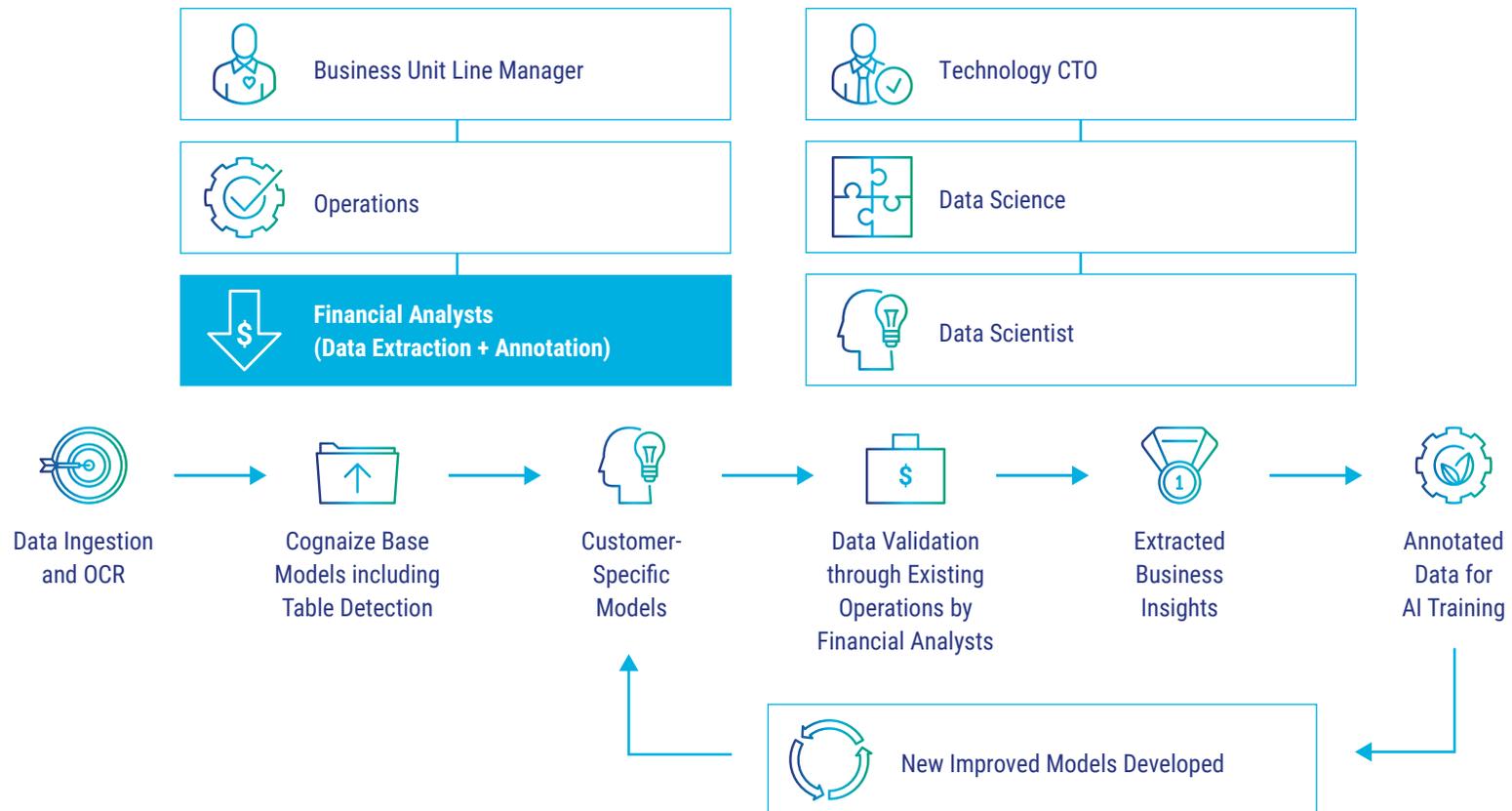
Data science teams need large volumes of training data to help deep learning models understand what to extract from complex documents. This is a costly process that is difficult to scale.



Connect operations and data science with a business-centric strategy

Cognaize developed the proprietary **Financial Insights Engine™** to bridge the gap between data science and operations teams. Its speed and accuracy in extracting key intelligence is uniquely enabled by deep domain knowledge and advanced, trained AI working together to achieve the optimal balance of immediate improvements and long-term, transformational benefits.

On a practical level, the Financial Insights Engine™ enables firms to integrate annotation seamlessly into the day-to-day workflow of the operations team, helping analysts work more accurately and efficiently. At the same time, data scientists benefit from a sharp increase in training data to use in advancing automation projects.





Cognaze can help CDOs unleash the value of unstructured data

Balance sheet

1	2	3	4	5	6	Text representation	Current value	Previous value	
						Dates	12/31/2019	12/31/2018	
						Cash	Cash and cash equiva	1,623,677.00	1,562,189.00
						Time Deposits			
						Marketable Securities			
						Total Accts/Rec-Net	Accounts receivable -	56,537.00	80,802.00
						Bad Debt Reserve (-)			
						Accts/Notes Rec-Trade	56,537.00	80,802.00	
						Loans to Related Co - CP			
						Due from Related Co - CP	Accounts receivable -	3,766.00	5,771.00
						Accts/Notes Rec-Other			
						Income Tax Receivable			
						Def Inc Tax Recover - CP			
						Raw Materials			
						Work in Process			
						Finished Goods			
						Other Inventory			
						Supplies			
						Derivative Assets - CP			
						LIFO Reserve			

	2019	2018
Assets		
Current Assets		
Cash and cash equivalents	\$ 1,623,677	\$ 1,562,189
Cash - restricted for collateral	145,276	145,058
Accounts receivable - trade, net	56,537	80,802
Accounts receivable - related party	3,766	5,771
Unbilled revenue receivable	2,961,643	3,557,923
Prepaid expenses	417,760	450,204
Total current assets	5,208,659	5,801,947
Fixed Assets, net	743,955	194,416
Total assets	\$ 5,952,614	\$ 5,996,363
Liabilities and Stockholder's Equity		
Current Liabilities		
Accounts payable	\$ 112,043	\$ 70,756
Current maturities of long-term debt	352,632	341,136
Current maturities of capital lease obligation	8,880	7,541
Accrued expenses		
Salaries and wages	2,655,191	3,155,832
Payroll taxes and payroll taxes withheld	1,357,824	1,281,018
Other expenses and payroll withholding	318,389	325,452
Total current liabilities	4,804,959	5,181,735
Long-term Liabilities		
Long-term debt, less current portion	287,002	591,395
Capital lease obligation, less current portion	35,205	4,384
Total liabilities	5,127,166	5,777,514
Stockholder's Equity		
Common stock, no par value; authorized 10,000 shares; issued 5 shares, 995 shares outstanding	15,500	15,500
Retained earnings	4,349,948	3,743,349
Treasury stock, 9,000 shares at cost	(3,540,000)	(3,540,000)
Total stockholder's equity	825,448	218,849
Total liabilities and stockholder's equity	\$ 5,952,614	\$ 5,996,363

Why Cognaize?

Purpose-Built for Finance

The Cognaize interface and base model are specifically designed for financial analysts and the finance industry, putting you a step ahead from day one.

Continuous Improvement

Fed by massive amounts of training data, Cognaize empowers data scientists to automate the most complex documents with higher and higher accuracy.

Ready for Collaboration

Cognaize brings synergy to operations and data science driving more accurate automated extraction of insights from unstructured data.

Cognaize helps CDOs develop a proactive, service-oriented strategy for unstructured data



Gain a competitive advantage

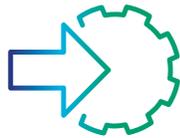


Improve data quality



Reduce compliance risk

Cognaize helps you future-proof your strategy



Transparency

Cognaize tracks the data lineage for every extracted data point, allowing teams to solve data quality issues more rapidly.



Privacy

Using Cogniaize, all data remains in-house, enabling organizations to maintain strict control over their IP and preserving competitive advantages from data science efforts.



Flexibility

While Cogniaize can run in all of the major cloud environments (AWS, Azure, GCP), it can also run in hybrid or private cloud environments.

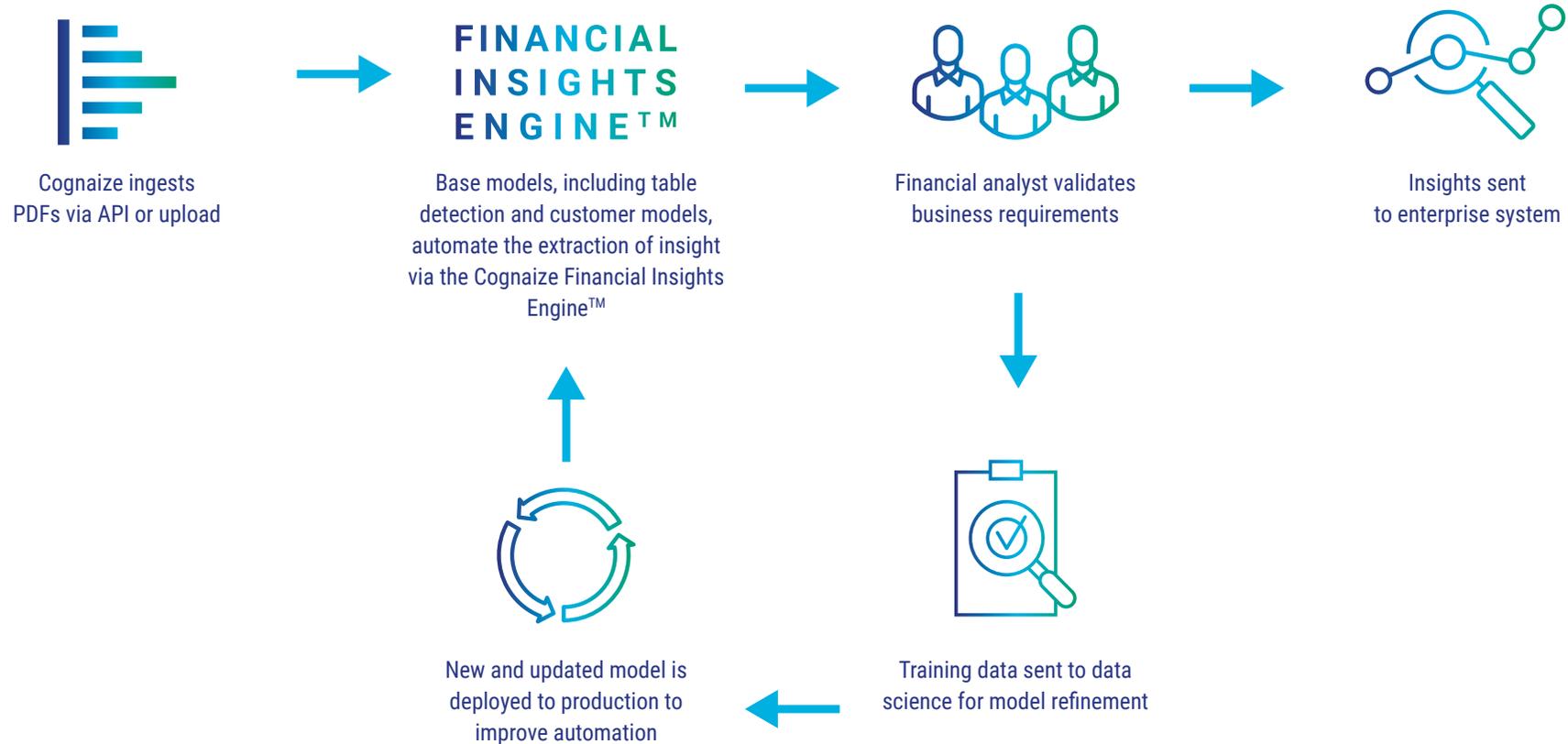


Auditability

Cognaize maintains a record of every instance of training data and how it changed the model. With these snapshots, data extraction can be replicated at any time supporting auditing or compliance requirements.

Cognaize in action: financial spreading

A large financial institution partners with Cognaize to reduce costs and increase accuracy in the financial spreading process.



Cognaize deploys the Financial Insights Engine™ to increase efficiency of financial spreading

Financial analysts use machine-assisted annotation leveraging Cogniaize base models trained on more than 1.3 million financial documents.

Analysts can easily correct any issues by dragging and dropping table boundaries or simply editing any values that need adjustment.

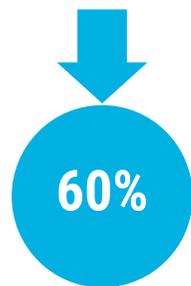
Corrections made during validation are tracked and become private training data for future model development.

Training data is sent to the data science team that uses it to refine their proprietary model.

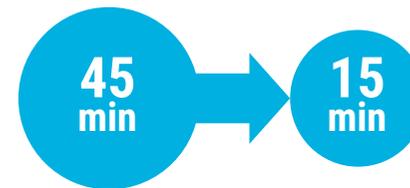
Extensive accuracy checks are automated. For example, the extracted total (e.g. "Total Assets") is matched to the sum of the extracted individual asset values.

Complex spreading rules are implemented to meet the firm's classification requirements.

Cognaize Financial Insights Engine™ Results



Per spread cost drops 60%



Per spread cycle time drops from 45 minutes to only 15

Automate unstructured data using a proven technology

With the Cognaiize methodology and Financial Insights Engine™, CDOs can drive automation to unparalleled levels for the most complex unstructured data while maintaining high data quality and compliance.

The time to act is now



Partner with Cognaize

Learn more about how Cognaize
can help you at www.cognaize.com

Contact us at info@cognaize.com
or visit www.cognaize.com/contact

Scan with your smartphone to
learn more:



Actionable intelligence from unstructured data

cognaize™

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Cognaize creates actionable intelligence from unstructured data to provide financial institutions with powerful competitive advantages. Our customers harvest priceless insights enabled by our AI platform, exclusive methodology, deep domain expertise, and unequalled industry experience solving the most complex automation problems. CognaiZe's growing list of customers includes some of the world's largest banks, financial information providers, insurance companies, and more. These firms rely on our customer-centric, innovative workforce and intense focus on continuous improvement.

