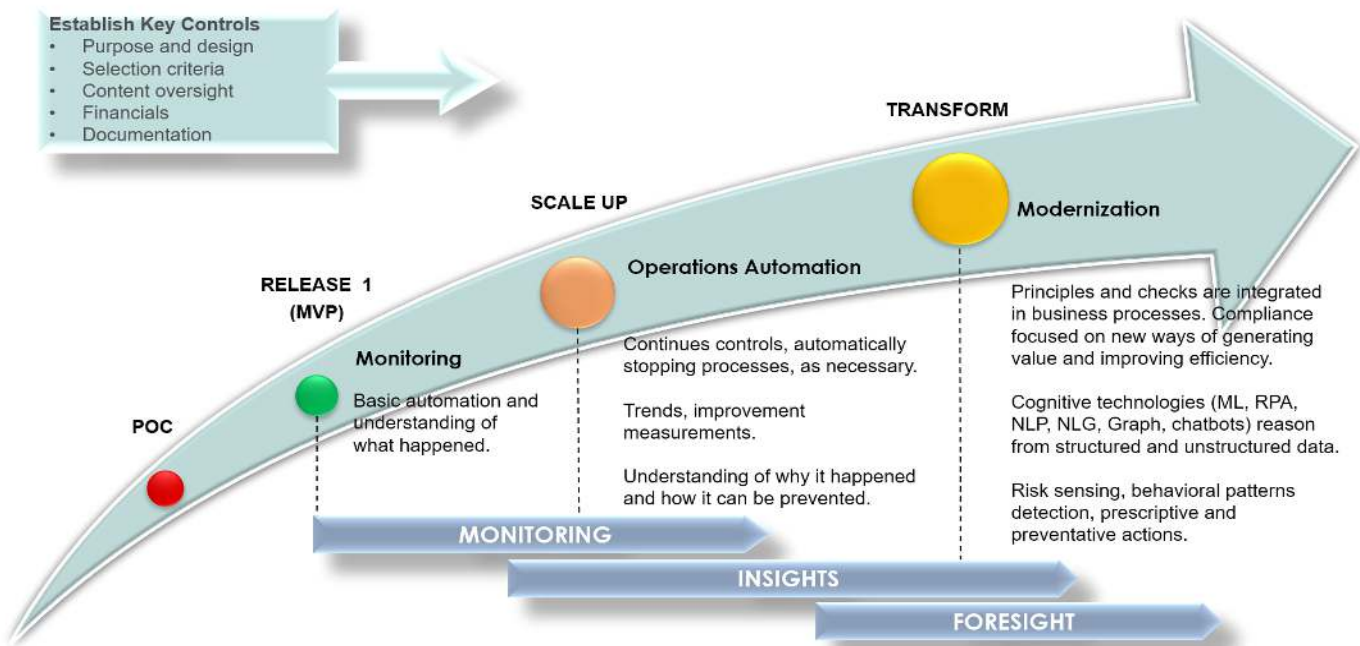# Predictive Analytics for Compliance

Companies are investing in predictive analytics as part of their compliance strategy. The data models and forecasts they generate can more accurately and efficiently identify risks, monitor customer and employee behavior, and fulfill regulatory responsibilities.

With predictive analytics and workflow automation, we tie historical and current data together to see inherent risks and enable you to act on them sooner. Our compliance data models, and forecasts they generate, can more accurately and efficiently identify risks, monitor customer and employee behavior, and fulfill regulatory responsibilities. As a result, our solutions provide better visibility into your risk landscape so that you make compliance decisions efficiently and confidently.

When collected and managed correctly, compliance data provides compliance teams with enriched business intelligence, enabling invaluable insight into internal and external business processes, performance, and control metrics. In addition, our solutions capture and model your real-time audit data to predict and prevent compliance risks to:

- Create an intelligent automated compliance risk management model and process
- Spot fraud, policy violations, and other potential misconduct
- Enforce regulatory compliance
- Find, prioritize, and flag risks for review

Compliance Modernization Roadmap

Establish Key Controls
- Purpose and design
- Selection criteria
- Content oversight
- Financials
- Documentation

TRANSFORM

SCALE UP

RELEASE 1 (MVP)

Modernization
Principles and checks are integrated in business processes. Compliance focused on new ways of generating value and improving efficiency.

Cognitive technologies (ML, RPA, NLP, NLG, Graph, chatbots) reason from structured and unstructured data.

Risk sensing, behavioral patterns detection, prescriptive and preventative actions.

Operations Automation
Continues controls, automatically stopping processes, as necessary.

Trends, improvement measurements.

Understanding of why it happened and how it can be prevented.

Monitoring
Basic automation and understanding of what happened.

POC

MONITORING
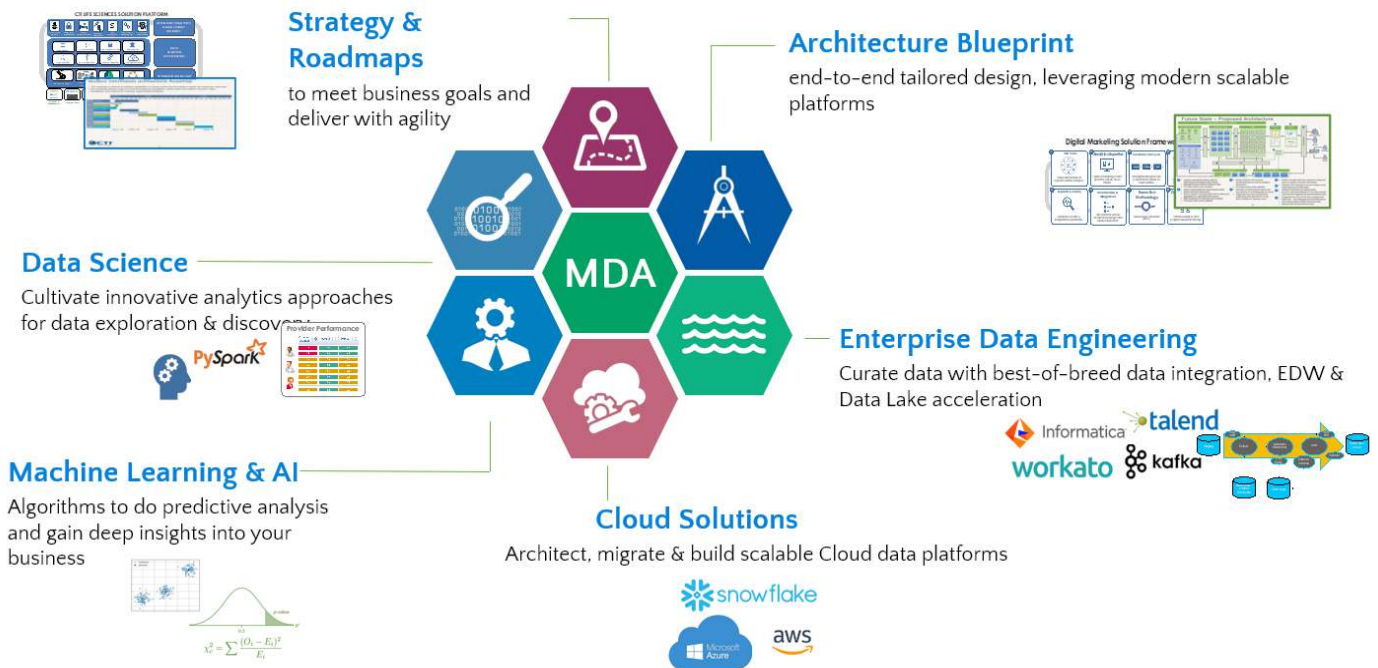
INSIGHTS

FORESIGHT

Implementing a Modern Compliance Data Architecture

Our consultants assist organizations in reducing the complexity and cutting the cost of compliance by building on a systematic approach based on data models that use prior audit results. We work closely with you to:

• Create a system that provides compliance integrity by getting deeper insight from your data.
• Replace time-consuming manual and spreadsheet-based workflows with automated intelligent processes.
• Assist every auditor, monitor every activity, and identify non-conformance across your organization.

Our solution is delivered using a methodology that includes all necessary elements for a trusted agile solution:

Strategy & Roadmaps
to meet business goals and deliver with agility

Architecture Blueprint
end-to-end tailored design, leveraging modern scalable platforms

Data Science
Cultivate innovative analytics approaches for data exploration & discovery

Enterprise Data Engineering
Curate data with best-of-breed data integration, EDW & Data Lake acceleration

Machine Learning & AI
Algorithms to do predictive analysis and gain deep insights into your business

$$\chi^2 = \sum \frac{(O_i - E_i)^2}{E_i}$$

Cloud Solutions
Architect, migrate & build scalable Cloud data platforms

Business Value of Proactive Compliance Management

For compliance effectiveness & efficiencies:	For data-driven competitive advantage:
✓ Minimize cumbersome tasks that drive up the "cost of compliance" ✓ Reduce violations and minimize risk over time using ML models ✓ Increase compliance detection accuracy	✓ Fast-track approvals to support innovative activities and business opportunities ✓ Approve questionable activities more quickly and with confidence ✓ Intelligently automate approval workflows

About CTI

CTI is a modern consulting firm focused on strategy, technology, and digital transformation using data's hidden value. Our engagement philosophy encompasses more than a project as we work to earn every client's trust to continue providing value towards achieving long-term success.