**COGILITY**

# Cogynt™

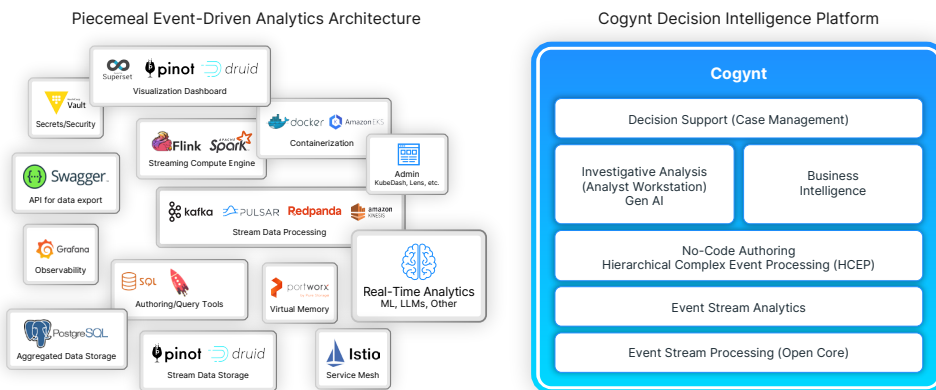## Decision Intelligence Platform

## Summary

Government and enterprise's adoption of big data and streaming technologies demand a new category of decision intelligence (DI) applications to inform critical decision making. These DI applications fuel today's situational awareness, operational efficiency, and risk management initiatives. Many organizations invest in a multifaceted set of event streaming, real-time analytics, decision support, and business process integration technologies that are the foundation of a decision intelligence platform (DIP) architecture. Attempting to build DI applications with a fragmented set of DIP tools leads to significant development, resource, and performance costs. Organizations need a scalable, integrated platform that simplifies DIP management and expedites DI application delivery. This approach increases development efficiency, fortifies predictive analysis, and optimizes analyst, data scientist, and engineering resources.



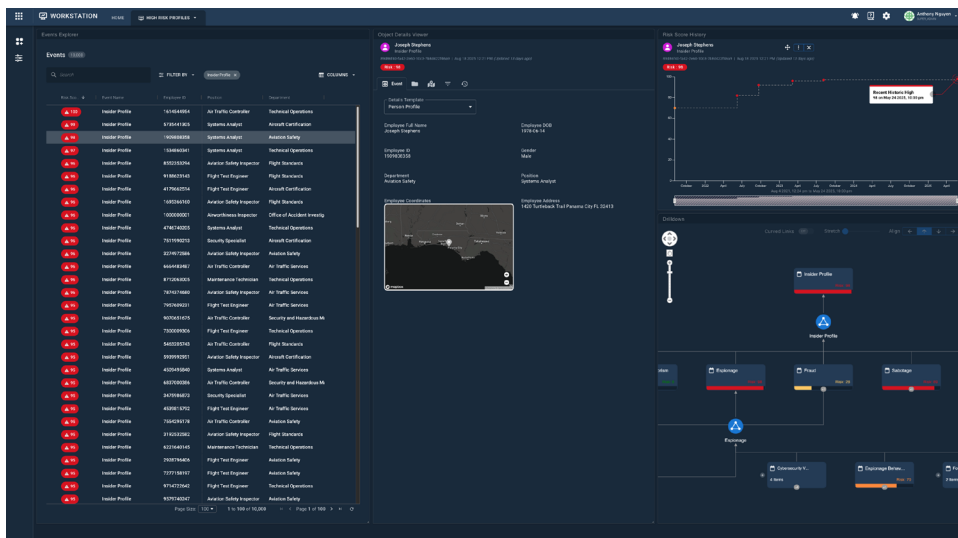*Piecemeal architecture versus Cogynt Decision Intelligence Platform*

## Benefits

- Gain real-time, predictive and actionable intelligence regardless of data volume and diversity, pattern complexity, or scale

- Accelerate decision intelligence application delivery with increased development and operational efficiencies

- Make faster, informed decisions with greater consistency, accuracy, and confidence

- Detect and respond to high-consequence threats (and opportunities) proactively and effectively

- Optimize SME, business analyst, and data scientist expertise and utilization

- Streamline tailored intelligence usage across teams and decision makers with assured oversight and auditability

- Enrich the operational intelligence of external applications

- Increase analyst investigative analysis and case workflow efficiency

## Challenge

DIP infrastructure and skilled engineers are the cornerstone for modern DI application development. However, an in-house method using piecemeal toolsets to support DIP creates ongoing complexity, efficiency, and operational challenges. As engineers and data scientists develop and extend DI applications, expanding data sources, creating and improving analytic models, and integrating findings into existing workflows becomes burdensome to enhance and maintain. Worse, the process underutilizes analysts, the subject matter experts (SMEs) that are requesting DI applications for their stakeholders. They are not directly working within the modeling environment. This disconnect between engineers, data scientists, and analysts undermines the development of accurate models, prolongs application delivery, and increases costs.

## Solution

Cogynt is a decision intelligence platform that offers the most comprehensive, versatile, and simplified means to deliver continuous decision intelligence for decision support automation. The platform integrates event streaming, advanced analytics, no-code modeling, and intelligence augmentation. Applying an expert AI approach, Cogynt enables analysts and data scientists to directly design models, examine results with full traceability, and optimize outcomes. This streamlines DI application delivery while reducing release cycles, engineering overhead, and expenditure. As a result, organizations can transform massive, diverse data into predictive and actionable decision insight — in real-time and at enterprise scale.

# Accelerate Your Competitive Edge

Cogynt, powered by event streaming and behavioral analytics technology, enables organizations to gain high-confidence predictive insights required to make rapid, informed decisions — continuous decision intelligence that accelerates an organization's competitive edge. The DIP simplifies deployment, creating, publishing and refining models, ingesting data sources, and processing event streams. It automates visualization, investigation, workflow, and integration processes.

Analysts and data scientists use Cogynt's no-code authoring environment to easily map data sources and create models with full data lineage. Cogynt makes even the most difficult real-time analysis possible with its patented Hierarchical Complex Event Processing (HCEP) technology. The HCEP engine works seamlessly to detect and track complicated patterns of behavior — even if occurring infrequently or evolving over long periods of time. The system publishes resulting insights to external systems and provides contextual notifications to analysts within Cogynt's Analyst Workstation.



*Analyst Workstation: customizable, interactive dashboards with analysis widgets*

Using Analyst Workstation, analysts can visualize, examine, and review findings and deliver timely, high quality DI products to their stakeholders. Extensive case management functions that boost analyst productivity include workflow customization, case assignment, delegation, assessment, annotation, collaboration, and reporting. A built-in Superset Tool provides BI dashboard features that facilitate immediate performance and management oversight.

# Achieve Decision Advantage

With almost two decades of research and development behind it, Cogynt stands as the decision intelligence platform of choice for government and commercial organizations to gain continuous intelligence and achieve decision advantage.

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Visit **www.cogility.com** to obtain more information and request an expert demo.

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# Highlight Capabilities

**Decision Intelligence Platform**
Offering a complete DIP, Cogynt integrates and augments event streaming, advanced analytics, investigation, visualization, and case workflow. Simplified model authoring and production expedites DI delivery, without requiring Flink, Kafka, and Pinot expertise, and reduces engineering overhead.

**No-code Model Authoring**
An intuitive, self-documenting model authoring environment enables SMEs and analysts to easily define data schema mapping, event patterns, and computation logic used by HCEP.

**Advanced Behavioral Analytics**
Cogynt's patented HCEP provides an easier, yet sophisticated method to analyze multifaceted patterns within diverse, high-volume event streams in real time to determine insights.

**Applied Expert AI and Gen AI**
Cogynt's expert AI approach enables SME expertise to become machine-speed analytics to yield insights with full data lineage. Forthcoming AI LLM use will enhance source data assessment, authoring, and workflow experiences.

**Workstation**
Seamlessly disseminate intelligence into existing workflows with customizable dashboards, widget tools, and BI data visualization, reporting, findings enrichment, and collaboration.

**Flexible Data Ingestion**
Easily define streamed or batch ingestion of structured, unstructured, database, and AI data sources.

**Business Process Integration**
Integrates with other applications and artificial intelligence systems to ingest data or send actionable intelligence.

**Proven and Scalable**
Uses Apache Software Foundation technology and is cloud-scalable to meet high-volume data ingestion and complex analytic processing demands.