Success for financial services organizations depends on acquiring new customers, retaining existing customers and engaging all customers to expand their business and "share of wallet." Doing so requires offering premium customer experiences and expanded services.

However, such efforts to increase customer transactions while reducing customer friction also increase the risk of financial fraud. Recent LexisNexis surveys found that average total costs incurred by U.S. financial services firms due to fraud increased by 41% from 2017 to 2020.[1]

Katana Graph™ helps financial services companies more effectively detect fraud in real time, while also seizing new business opportunities through expanded, personalized services.

Katana Graph has fused graph technology with machine learning and artificial intelligence for high-speed computing on massive graphs, providing breakthrough real-time insights essential for a wide array of financial services use cases.

From fraud detection to 360-degree customer insights, Katana Graph empowers financial services organizations to unlock the tremendous potential of graph analytics and AI at scale, at lightning-fast performance 10-100x faster than other graph solutions.

Use Case		Graph Comp Domain
Financial & Cyber Crimes	Fraud detection and analytics Intrusion/anomaly detection Digital forensics	Graph Analytics, Graph Mining
Regulation & Compliance	Anti-Money Laundering (AML) Know-Your-Customer (KYC) Data privacy and protection	Graph Analytics, Graph Mining
Digital Identity	Adaptive Authentication and Authorization Governance and Certification Customer 360	Graph Query, Graph AI
Master Data Management	Data lineage/provenance Entity resolution	Graph Query, Graph Analytics
Risk Management	Credit risk modeling Model risk management Vulnerability management	Graph Query, Graph AI

[1] Source: LexisNexis Risk Solutions press releases (13 Oct 2020 and 26 Sep 2018).
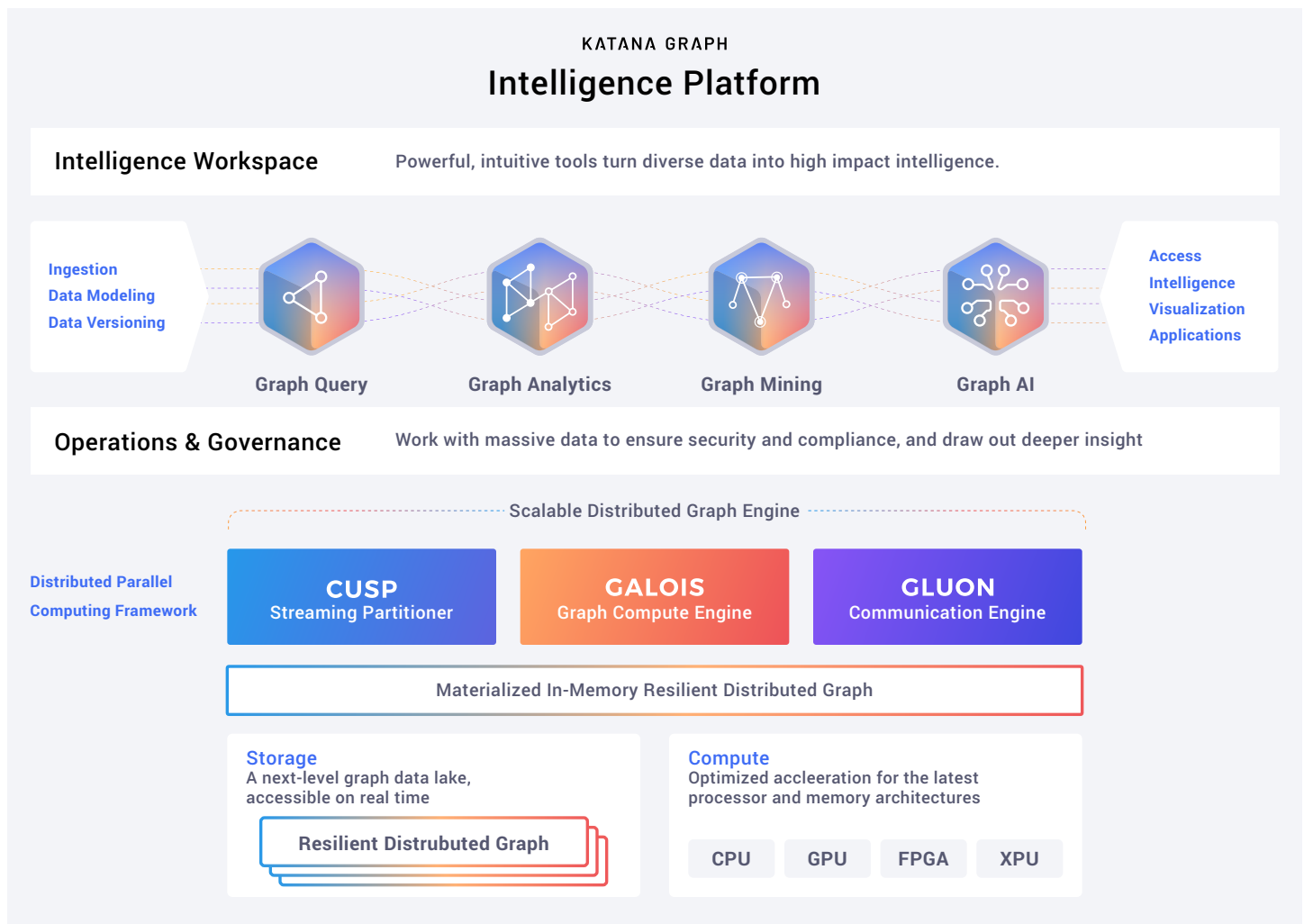
The Katana Graph intelligence platform interoperates with its own graph database system, providing a single platform for

- **Graph Queries** (contextual search)
- **Graph Analytics** (path finding, centrality and community detection)
- **Graph Mining** (pattern discovery)
- **Graph AI & Machine Learning** (deep learning and prediction)

at unrivaled speed, using massive graphs, scalable to multiple clusters in any cloud environment.

With its roots in the high-performance parallel computing (HPC) world, Katana Graph was built from the ground up focused on real-time insights from high-speed analytics and AI that goes well beyond what is possible using other graph technologies.

Unlike other graph databases that use centralized, in-database graph query and analytics and require a separate pipeline for AI applications, Katana Graph provides a next-generation graph compute platform, supporting decentralized workloads for graph query, analytics, mining and AI — powering a new era of rich applications and insights never before possible.

Contact Katana Graph today! info@katanagraph.com