

Data Sheet: Technology Overview

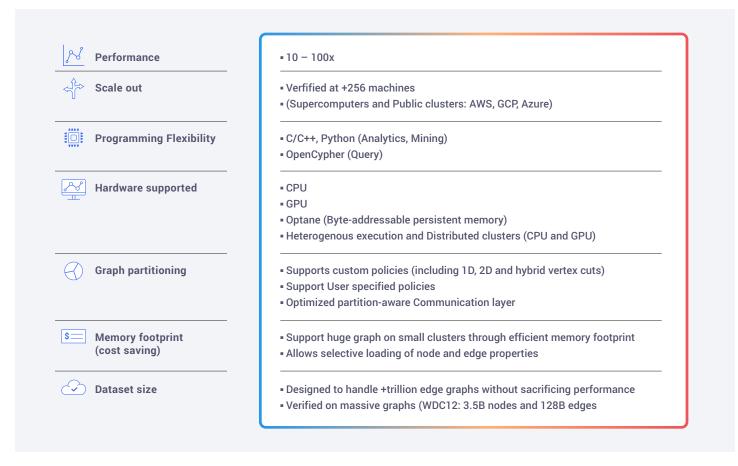
The Katana Graph<sup>™</sup> Intelligence platform creates competitive advantage by providing actionable insights from massive unstructured data sets, using high-performance graph algorithms. Graph adoption is accelerating at a rapid pace as graphs provide richer insights from context and connections represented in the data when compared to traditional analytics on tabular data formats. Knowledge Graphs are powering a new era of rich applications and insights never before possible in domains such as Pharma, Security, FinTech and Manufacturing.

### **PRODUCT OVERVIEW**

Katana Graph provides a Graph Intelligence Platform offering elastic performance at massive scale for Graph Queries (contextual search), Graph Analytics (path finding, centrality and community detection), Graph Mining (pattern discovery), and Graph AI (prediction).

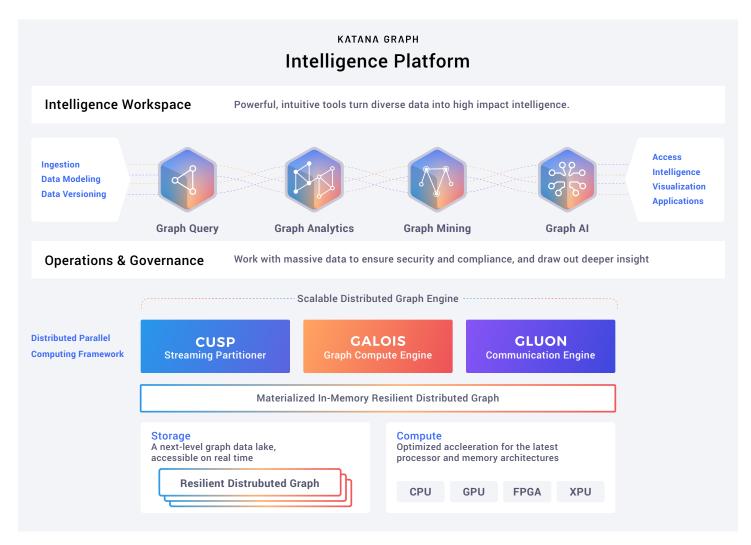
Katana Graph achieves best-in-class scale-up and scale-out performance by incorporating disruptive technologies like hardware acceleration (GPUs, ASICs, etc.), storage (non-volatile memory), and infrastructure (Kafka, OpenMPI, etc.) along with the ease of programmability.

# **VALUE PROPOSITION**



# **TECHNOLOGY OVERVIEW**

Our groundbreaking all-in-one graph intelligence platform puts unprecedented flexibility and scalability at your fingertips. Unearth deep and powerful revelations, rich veins of insights and impactful answers — with unmatched speed and accuracy.



#### **Automated Cloud Deployments**

Push-button cluster provisioning and management of cluster resources allow ease of use. Katana Graph is cloud agnostic, and works in on-prem and off-prem environments.

### **APPLICATIONS**

Lightning-fast Graph Query – The query engine supports OpenCypher, a popular graph query language that allows users to search for complex graph patterns, update the graph and perform analytic operations like aggregations across matched portions of the graph.

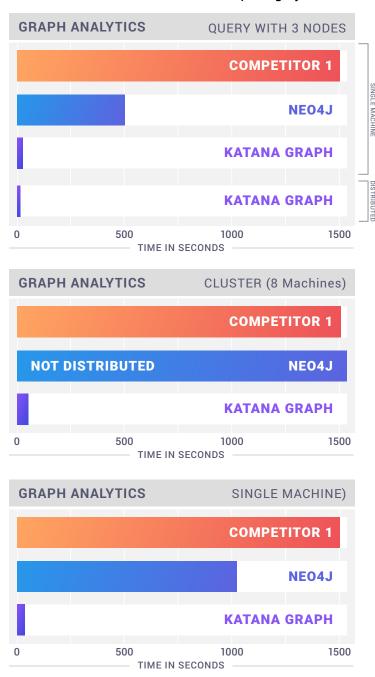
**Graph Analytics** – An extensive library of graph analytics routines that provide global insights from graph relationships. Use cases include: Finding well-connected nodes in a graph (influencers), ranking nodes (webpages), community detection (identify clusters of similarity for fraud or segmentation), and path finding (routing).

**Graph Mining** – Powerful library of graph mining algorithms to quickly identify explicit or implicit patterns. Applications include frequent pattern mining, k-motifs, cliques, etc.

Graph Al with Graph Neural Networks – Graph neural networks (GNN) are a new powerful approach for feature learning on graphs. Katana provides easy-to-use and scale-out packages for learning largescale knowledge graph embeddings. Use cases include applications such as node classification, link prediction, and recommendation systems in industries like bioinformatics and cheminformatics.

#### **PERFORMANCE HIGHLIGHTS**

#### Katana is 10-100x faster than competing systems.



# Contact Katana Graph today! info@katanagraph.com