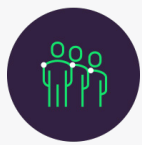# QUANTEXA

The platform for better decisions

Quantexa's Contextual Decision Intelligence (CDI) platform is the new generation of decision intelligence software to automate or augment decisions - empowering operational teams to make faster, more accurate decisions. It connects billions of data points across internal and external data sources, to provide a single view data hub enriched with vital intelligence about the network of relationships between people, organizations and places.
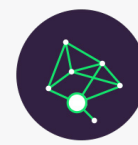
Overcome data quality issues and deliver the context needed to make better models – and better decisions, faster with CDI.

Connect data wherever it is, regardless of quality with **Entity Resolution.**

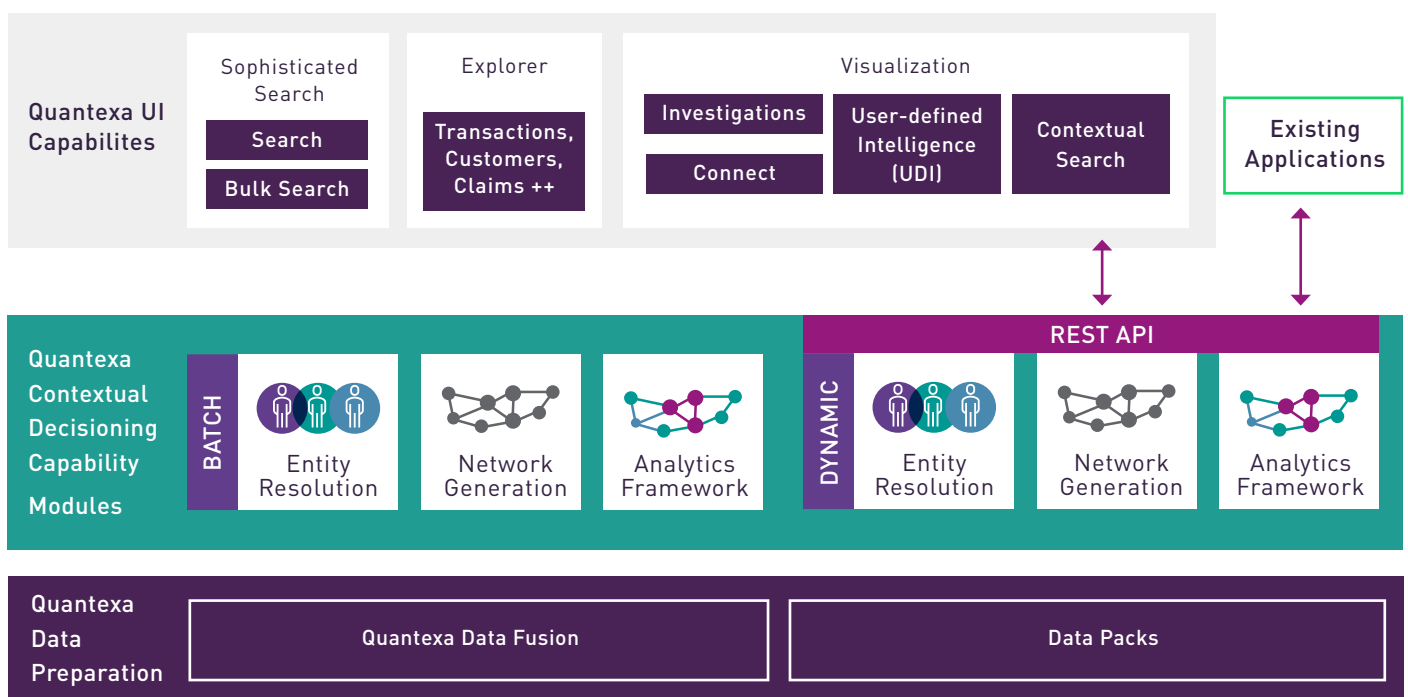Create a dynamic view of the bigger picture with **Network Generation.**

Craft analytic models based on real-world expertise with our **Analytics Framework.**

Our Platform

Quantexa's Contextual Decision Intelligence platform has been built with real-world solutions in mind – from the outset. A modular, integrated platform enabling a step change in decision-making and team productivity, it scales across applications giving you a connected view of your data for single and multiple use cases. With a wealth of experience in multiple sectors, we have also used our open technology to build world-class solutions using CDI as the base with proven results in global Tier 1 organizations. These solutions use context to uncover hidden risk and discover new business opportunities, covering Financial Crime, Anti-Money Laundering (AML), Know-Your-Customer (KYC) Operations, Fraud, Risk & Assurance, Customer Intelligence, Credit Risk and Master Data Management.

Quantexa UI Capabilites

Sophisticated Search
- Search
- Bulk Search

Explorer
- Transactions, Customers, Claims ++

Visualization
- Investigations
- Connect
- User-defined Intelligence (UDI)
- Contextual Search

Existing Applications

Quantexa Contextual Decisioning Capability Modules

REST API

BATCH
- Entity Resolution
- Network Generation
- Analytics Framework

DYNAMIC
- Entity Resolution
- Network Generation
- Analytics Framework

Quantexa Data Preparation
- Quantexa Data Fusion
- Data Packs

Our Contextual Decisioning Capabilities

Entity Resolution

Dynamic entity resolution capability that connects internal and external data sources in real-time or batch, to create a single, enterprise-wide view of profiles, overcoming data quality issues and without requiring unique matching keys. Allows a single build for multiple use cases, minimizing data replication.

Network Generation

Network generation that links resolved entities into a network view, handling the complexity of over or under linking of networks. Reveals the context of how people, organizations and things relate to each other to find hidden connections.

Analytics Framework

Analytics framework builds on tools familiar to data scientists, simplifying use of entities and network context in features, rules and models. These are easy to deploy and integrate into live services to make decisions or flag items for review.

Quantexa's decisioning capabilities can be deployed batch-based or dynamically via API:

Batch Resolver

- Batch-based entity resolution and network building
- Proven to scale to tens of billions of records with unparalleled performance and accuracy
- Runs on Apache Spark within your existing big data environment
- Configurable entity resolution and network building criteria, also in common with dynamic resolver
- Apply analytics to the generated entities and networks, ideal for complete data scoring or model development and testing.

Dynamic Resolver

- Dynamic (real-time) entity resolution and network building, in seconds
- Dynamically vary the fuzziness of the entities to support multiple use-cases from a single system
- Build networks dynamically at the time of request
- Scale out API architecture, supporting automated decisioning and integration into workflow tools
- Newly-added data available for entity resolution and network analysis within seconds of loading
- Apply analytics to the generated entities and networks, in seconds
- Complies with complex security requirements.

Quantexa Data Preparation

Quantexa Data Fusion

Our Data Fusion product makes getting your data into the platform easy and seamless. It optimizes the cleansing, preparing, and connecting of interrelated data, getting it ready for entity resolution and analytics. Its data ingestion layer is based on a parsing framework and library to enable large volumes of internal and external data to be easily ingested into the platform.
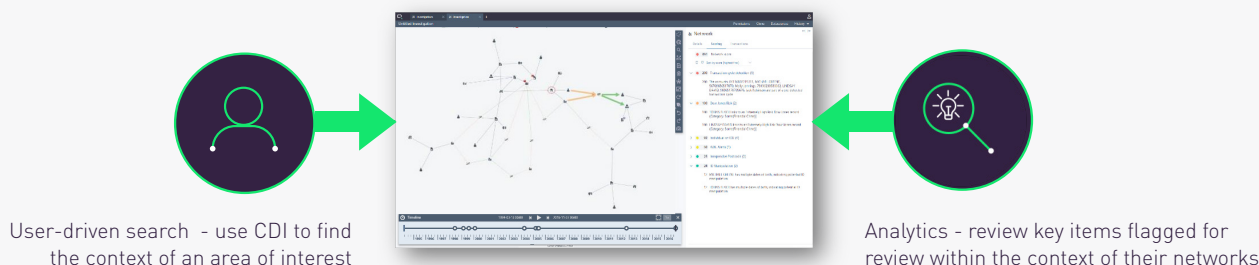
Quantexa Data Packs

Quantexa's plug and play data packs include end-to-end configuration of the platform for many external data sources including D&B, BvD and Dow Jones. They cover the data ingest, entity resolution, network generation and analytics for each source; as well as user interface features for navigation and exploration.

Quantexa UI Capabilities

Quantexa's UI is the core toolset that enables users to understand the context that has been created and uncovered. It is fully integrated with entity resolution, network generation and analytics framework capabilities, to allow context to be leveraged in two ways: for user-driven search and exploration, as well as automated, analytics-driven discovery.

User-driven search - use CDI to find the context of an area of interest

Analytics - review key items flagged for review within the context of their networks

SOPHISTICATED SEARCH - FOR USER-DRIVEN ANALYSIS

Our sophisticated search capabilities enable users to search individual entities **(Search)**, or collections of entities **(Bulk Search)** of interest as a starting point to an investigation or analysis. The contextual results of a search can be presented as a network visualization for further discovery.

EXPLORER – FOR THEMATIC USER-DRIVEN ANALYSIS

The Explorer module enables users to search and query big data to uncover themes or trends, highlighting records of interest as a starting point. It features interactive dashboards and a powerful query builder to slice and dice the data, or to select a set to analyze further in a network view. It supports multiple use cases, such as transactions, customers, applications, claims, trades, shipments, etc.

NETWORK VISUALIZATION

The knowledge graph view highlighting where the risk or opportunity lies, providing an immediate understanding of the context and how it has evolved over time. Users can interact with the data visualization to perform an investigation or exploration, to inform faster, more accurate decisioning. Additional visualization product modules are available to enhance UI capabilities: **Investigations, User-Defined Intelligence (UDI), Connect, Contextual Search**.

Why Quantexa Platform

Dynamic: Ingest once and use the same data for multiple use cases

Decision accuracy: using context to identify more risk or opportunity with fewer false positives

Scalable: Entity resolution and network generation that scales to tens of billions of records

Transparent: Explainable data linking and decision models for regulatory compliance

Secure: Granular security levels for dynamic control

Future-proofed open architecture: Integrate seamlessly into existing IT ecosystems with cloud-native container architecture and flexible deployment models

For more information: info@quantexa.com

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